

Malaysian Consumer Empowerment Study 2019-2020

Prepared for Ministry of Domestic Trade and Consumer Affairs By Ipsos Strategy3

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LIST OF ABBREVIATIONS

Acronym	Definition
AHP	Analytic Hierarchy Process
AKPK	Agensi Kaunseling dan Pengurusan Kredit
ATM	Automated Teller Machine
BNM	Bank Negara Malaysia
CAPI	Computer Assisted Personal Interviewing
CCID	Commercial Crime Investigation Department
CEI	Consumer Empowerment Index
CFOS	Consumers Front of Sabah
CMCO	Conditional Movement Control Order
COVAS	Consumer Voice Association of Sarawak
CPA	Consumer Protection Act
CRT	Complaint Resolution Timeframe
DOSM	Department of Statistics Malaysia
EFTPOS	Electronic Funds Transfer at Point of Sale
ESTAT	European Statistics
EU	European Union
FGD	Focus Group Discussion
FTC	Federal Trade Commission
GCC	General Consumer Code
HSC	Higher Secondary Certificate
ICT	Information and Communications Technology
IDI	In-Depth Interviews
IKK	Indeks Keberdayaan Konsumen
IRS	Internal Revenue Service
DG	Director General
LCE	Lower Certificate of Education
MITI	Ministry of International Trade and Industry
MC	Malaysian Conformity
MCE	Malaysia Certificate of Education
MCMC	Malaysian Communications and Multimedia Commission
MCO	Movement Control Order
KPDNHEP	Ministry of Domestic Trade and Consumer Affairs
NCCC	National Consumer Complaints Centre
NCP	National Consumer Policy
NFCP	National Fiberisation and Connectivity Plan
NGO	Non-Governmental Organization
NGT	Nominal Group Technique
PMR	Penilaian Menengah Rendah
QA	Quality Assurance
QC	Quality Control

Acronym	Definition
OFS	Ombudsman for Financial Services
RMCO	Recovery Movement Control Order
SD	Sekolah Dasar
SEC	Securities and Exchange Commission
SKM	Suruhanjaya Koperasi Malaysia
SMP-SMA	Sekolah Menengah Pertama-Sekolah Menengah Atas
SPM	Sijil Pelajaran Malaysia
SRP	Sijil Rendah Pelajaran
SPVM	Sijiil Pelajaran Vokasional Malaysia
STP	Sijil Tinggi Persekolahan
STPM	Sijii Tinggi Persekolahan Malaysia
WP	Wilayah Persekutuan
UPM	Universiti Putra Malaysia
IDCD	Uijan Pencangian Sekolah Rendah

CHAPTER 1 Introduction

1.1 Project Background 1.2 Project Objective

1. Introduction

1.1 Project Background

This Consumer Empowerment Index (CEI) study is an effort by KPDNHEP to develop an index for Malaysia and involving a larger scope and number of consumers to measure the level of empowerment among Malaysian consumers and to categorize their level of empowerment.

The index will help the Ministry to quantitatively ascertain the level of empowement of Malaysian consumers towards their rights and responsibilities, while also understanding the related consumer issues which require immediate attention from the Ministry. Overall, it will help government agencies to examine the effectiveness of their programmes and policies for improvement.

1.2 Project Objective

The objectives of the CEI are as follows:

- i. To measure the trends and level of consumer empowerment in Malaysia periodically;
- To ascertain the level of consumer empowerment of Malaysians towards their rights and responsibilities as consumers in the form of an index;
- To ascertain the effectiveness of consumer empowerment programmes which have been conducted by the government, statutory bodies and NGOs;
- iv. To ascertain the categories of consumer empowerment which need to be focused on and to ascertain the suitable programmes to increase the level of awareness and empowerment, and also steps for improvement.

The objectives of the study for the CEI are as follows:

- To measure the level of consumer empowerment in Malaysia and to make 2019 the base year of measurement;
- To serve as a basis for categorizing consumers into low, medium and high empowerment;
- To profile consumers by categories: vulnerable, passive emotion-guided action, knowledge-guided and empowered;
- iv. To benchmark the level of consumer empowerment of Malaysia with other countries;
- To build a social map of consumers based on the relevant indicators to awareness and consumer empowerment by state.

CHAPTER 2

Benchmarking

- 2.1 Summary of 2013 CEI Study
- 2.2 Benchmarking European Union CEI
- 2.3 Benchmarking South Korea CEI (2018)
- 2.4 Benchmarking Indonesia CEI

2. Benchmarking

This section is divided into the following:

- Summary of 2013 Consumer Empowerment Index Study: overview of the objective and findings from the 2013 study done by Universit Putra Malaysia (UPM) to develop the domains and subdomatins for the CE:
- Benchmarking: divided into three sections for the EU, South Korea and Indonesia where a preliminary analysis of the approach employed in measuring consumer empowerment and index results are provided.

2.1 Summary of 2013 Consumer Empowerment Index Study

The purpose of the 2013 Consumer Empowerment Index Study was to develop the basis for measuring consumer empowerment. The study was undertaken by UPM and was conducted in a systematic manner via a combination of qualitative and quantitative methods. The key objective and output of the study was to develop the domains and subdomains for Consumer Empowerment within Malavsia, and also to provide a preliminary index measure.

The development of the instrument (domains and subdomains) was pre-tested by the public to ensure its reliability and validity. In addition, literature review on the concepts of financial literary was conducted to ensure that the established CEI was in line with the study in developed countries (i.e. Europe). Four methods were used by the researchers to formulate the domains and the subdomains, namely:

1. Literature Review

Analysis of existing materials to establish the concept and operational definition of empowerment.

2. Focus Group Discussion (FGD):

Qualitative data collection approach through discussions with two major groups of stakeholders: 14 sessions with experts (academic and NGOs) and 12 with consumers (unban and rural) randomly chosen from four zones (northern, southern, existen and central zones of Peninsular Malaysia, Stabh and Sarawak). Each focus group consisted of 10 to 12 respondents and was facilitated by a moderator.

3. Nominal Group Technique (NGT):

Qualitative data collection was conducted with the same participants in order to determine the weights attributed to each domain and its subdomains.

4. Field studies:

Quantitative data collection was carried out in three stages:

- Pre-field study aimed at validating the relevance of the domains and subdomains extracted through FGD and NGT.
- Pilot Study was conducted with 34 subjects to assess and refine the domains and subdomains determined by FGD, NGT and pre-field study.
- Actual field study was carried out on 3,503 respondents to measure the empowerment of Malaysian consumers via six sections:
 - i. Background of the respondent
 - ii. Awareness
 - iii. Skills
 - iv. Assertiveness
 - v. Affective
 - vi. Access to consumer programmes

Overall, the study concluded that the operational definition of consumer empowerment to be used for index measurement was to be divided into three domains:

1. Cognitive:

Awareness of consumer rights and responsibilities, knowledge and consumer skills to take appropriate actions to avoid and resolve problems in the market.

2. Affective:

Psychological traits that enable individual to act in accordance to his or her skills and abilities. The measure is based on the inner power of an empowered consumer: hope, self-efficacy, resilience, optimism, assertiveness and impulsiveness.

3. Practice:

The relevant behaviours are file complaints for bad experiences, citation frequency and involvement in consumers' activities (via experience sharing).

Based on the measure of these three domains, this study allows us to regroup the consumers into five categories:

1. Vulnerable consumers:

Consumers do not possess any characteristics listed within all domains.

2. Passive consumers:

Consumers with characteristics belong to Cognitive and Affective domains without any characteristics belong to the Practice domain.

3. Emotion-driven consumers:

Consumers with characteristics belong to Affective and Practice domains without any characteristics belong to the Cognitive domain. In other words, their actions are solely based on feelings but not knowledge.

4. Cognitive-driven consumers:

Consumers with characteristics belong to Cognitive and Practice domains without any characteristics belong to the Affective domain.

5. Empowered consumers:

Consumers who possess the characteristics listed on all three domains: Cognitive, Affective and Practice.

The findings showed moderate level of consumer empowerment amongst Malaysian consumers at 52.6%. Specifically, respondents achieved 67.0% in the Cognitive domain, 46.5% in the Affective domain and 42.7% in the Practice domain.

Generally, Malaysians can be considered as knowledgeable consumers, but unwilling to take action when facing problems in the market. Based on the comparison between the ethnic groups, the results showed that Malays scored the highest in Cognitive and Affective domains while indians scored the highest in Practice domain.

2.2 Benchmarking - European Union Consumer Empowerment Index

The development of the Lunpsen Union (EU) Consumer Empowerment Index stemmed from the need to provide a quantitative assessment of consume represent within the EU for the purpose of policy development, with the impetia provided by the EU Consumer Policy Stategy 2027-2021. This assessment was particularly important due to the size of the EU consumer market (493 million people) which stretches across separate counties with different demographic characteristics, board consumer tawas and notional culture/aftitudes towards consumer rights. (Tecture policy development would hence require a detailed inderstanding of the commer empowerment profile and admonge within the U.

The aforementioned policy sets the aim of empowering consumers, enhancing their welfare and protecting them effectively. The Strategy defines an empowered consumer as a consumer with "real choices, accurate information, market transparency and the confidence that comes from effective protection and solid rights". According to the Strategy, the notion of consumer

¹ European Commission (2007). Communication from the Commission to the European Parliament, the Council, the Economic and Social Commission and the Commission of the Regions: Consumer Policy Strategy 2007-2013: Empowering consumer, enhancing their welfare, effectively aprecising them: COL (2007) 28 fault.

empowerment was established based on three main aspects, comprising the key elements below:

- 1. Skills: Consumers should be aware of their decisions when buying;
- 2. Knowledge: Consumers should be able to get information on their rights; and
- 3. Assertiveness: Consumers should have access to advocacy and redress mechanisms.

2.2.1 Index Basis and Eurobarometer Survey

It is important to note that the EU Consumer Empowerment Index did not constitute a study on its own. Instead, measurement of the index leveraged on the responses to a separate study named the Eurobarometer Survey (Special Eurobarometer Survey no. 342). A brief summary of the Eurobarometer Survey is preven below.

The Eurobanneser Survey (Special Eurobanneser Survey no. 342) was launced by the DG teachs & Costamers and the DG STAT in 2010. In the light of the Startegy, the purpose of the survey was to gain insight of the actual behaviour of the European ensumes in the inside the startegy of the startegy and the startegy of the startegy of the dimensional startegy of the startegy of the dimensional of costamers within the UL to identify the discharmaged or valuerable ensumers and to dobian amount startegies of them.

Baid on the literature review in the survey report, there was a debiter regarding the appropriate difficults of comuners who are prote to deriment². The traditional reasonapproach identified the disadvantaged comuners based on socio-economic factors: lower income, older age, itsee reduction and belonging to a minority prop. However, a litter research approach introduced the subjective concepts of personal and social self-perception of the comuners² the actual valureability arises from the interaction of individual states, individual characteristics and external conditions within a context where comsumption gates more be holdered and the exercision affects ensembland associations and in the belonger and the exercision affects ensembland associations within the sensition affects ensembland associations and and the sensition affects ensembland associations within a context where consumption gates the belonger and the exercision affects ensembland associations and the sensition affects and ensembland ensembland associations and belonger and the sensition affects are approach and the sensition affects are approach and the sensition affects are approach as a sensitive and the sensition affects and the sensition affects are approach and the sensition affects and the sensition affects and the sensition affects are approach as a sensitive approach and the sensitives

Hence, by taking into consideration of different agences of the term 'universite', the survey included, beddes code-economic group variables, ubgednet characteristics, manely three types of consumer confidence: feeling of confident as a consumer, freding innovidegeable as a communer and frequences. The survey analysed the relation between consumer's valipetive confidence and their actual capacities, isomeking and assertiveness in order to assess whether the confidence of the furupean commers was consistent with their consumer's valipetive confidence and their actual capacities, isomeking and assertiveness in their to assess whether the confidence of the furupean commers was consistent with their terms.

¹ Garrett D. and Tournarolf P (2010). Are consumers disadvantaged or vulnerable? An examination of consumer complaints to the better business burnau. Journal of Consumer Athlets, Vol. 40, No.1.

¹ Daker S.M. et al. (2005). Building Undenstanding of the Domain of Consumer Vulnerability. Journal of Macromarketing. Vol. 25, Issue 2.

actual level of empowerment. The dataset covered EU of 29 countries (including lceland and Norway) with 56,470 respondents aged 15 and above.

2.2.2 Index Study and Results

The EU Consumer Empowerment Index was jointly developed by the DG Health & Consumers together with the DG Joint Research Centre with the aim of summarizing and/or capturing the various aspects of consumer empowerment into a single index, based on the data collected by the Eurobarometer Study.

The CEI described consumer empowerment along three main dimensions: Consumer ability. Avareness of Consumer legislation and Consumer engagement, Corresponding to the threemain aspects highlighted by the EU Consumer Palvely Startegy. Based on the Iterature review, the definition of consumer engowerment was mainly through thes sources: coolid psychology and marketing literature. Both referred to the stategic role of consumers in relation to the oroducers, as well as the role of information as a source of memovement.

As stated in the report, the theoretical definition of consumer empowerment was established by the authors via presentation of three dominant sociology explanatory models:

1. Consumer Sovereignty Model⁴

Empowered consumers are free to act as a rational and self-interested agent. They make producers to fulfil their needs via their buying decision.

2. Cultural Power Model⁵

Empowered consumers are the makers. They are not the adapters of spaces and goods designed by the marketer.

3. Discursive Power Model⁶

Empowered consumers would be able to establish discourses producing normalized and acceptable forms of engagement, thereby changing a field of action, expanding what is possible to do.

⁴ Denegri-Knott, J., Zwick, D., Schroeder, J.E. (2006). Mapping consumer power: an integrative framework for marketing and consumer research. Furopean Journal of Marketing, 40:(9/30), 950-971.

¹ Kocinets, R. V. and J. M. Handelman (2004), Adversaries of Consumption: Consumer Movements, Activitien, and Ideology. Journal of Consumer Research, 31 (3), 693-704.

¹ Denegri-Knott, J. (2004). Sinking the online music pirutes: foucault, power and deviance on the web. Journal of Computer Mediated Communication, Vol. 9 No. 4.

Besides that, the definition of consumer empowerment originated from the marketing iterature² was equily meetioden in the CEI study. The research²⁵ showed that consumer empowerment was either a subjective state/septemice related to an increase in abilities on an objective condition related to gratest information on understanding. In the latter, a wider access to choicen, ease of access to information and higher education were considered as the primies to empowerment and hence results in grates comumer involvment.

The operational definition of the consume empowement mentioned in the UL Occumer Policy Strategy was used as parameters to measure the consumer empowement. In particular, the operational concept of empowement was built on comsumer' knowledge and consumer's assertiveness. Hence, the Uropean Beradegy and consumer's advecting and consumer index advecting ad

The developed index had a pyramid structure and included 22 indicators grouped in pillars and sub-pillars. It was the weighted average of three pillars, as shown in Table 1. Each pillar was the weighted average of a variable number of sub-pillars, and each sub-pillar was made up of various indicators constructed from the Eurobarometer survey questions:

1. Consumer skills:

Measure the ability of consumers to perform basic arithmetic operations deemed necessary for consumers to make informed purchase decisions.

- i. Basic financial skills
 - Identify the best interest rate for a saving or deposit account
 - Calculation of a yearly interest on a loan
 - Recognize cheaper product
- ii. Capacity to read logos/labels
 - Interpret packaging information (nutritional information)
 - Identify expiring date of a product ("best before" date)
 - Identify and interpret commonly used EU logos related to consumer information and protection

2. Awareness of legislation on consumer rights:

Actual knowledge of consumers related to several EU consumer legislation related to:

- i. Unfair commercial practices
- II. Length of guaranteed rights validity
- iii. Cooling-off period in distance or doorstep selling

² Hunter, G.L., Garrefeld, I. (2008). When does Consumer Empowerment Lead to Satisfied Costomers? SomeMediating and Moderating Efforts of the Environment Satisful transmitted. Instead of Response for Consumers, 15.

Wathieu, L., et al. (2002). Consumer Control and Empowerment: A Primer. Marketing, Letters, 13(3), 297-305

¹ Brenzer, C., Ritters, K.(2001). Consumer Education in the UK: New Developments in Policy, Strategy, and Implementation. International Journal of Consumer Studies. 28 (March): 57-107.

3. Consumer engagement:

Different aspects of consumer behaviour.

- i. Attitude in comparing products
 - Efforts that consumers make in obtaining information on products (e.g. reading specialized consumer magazines, using internet, visit different shaps)
 - Attention to price differences
 - Consumers' habits when reading terms and conditions during contracts signature
- ii. Interest in obtaining information on consumer rights
 - Pro-active attitude of consumers when looking for information on their rights
 - Knowledge of programmes related to consumer rights
 - Knowledge of organizations protecting consumer rights
- iii. Tendency to talk
 - Attitude to talk about negative and/or positive experiences
- iv. Detriment and redress
 - Attitude when experiencing a problem causing a legitimate case for complaint

Pillar	Sub-pillar	Indicator
		Recognize cheaper product
	Basic skills	Find the best interest rate
Consumer		Calculate the interest on a loan
skills		Correct interpretation of "grams of fat"
	Capacity to read logos/labels	Find expiring date for a product
		Recognize correctly logos
		Rule for illegal advertisement
	Unfair commercial practices	Rule for gifts received by post
Awareness		Rule for advertising prices (air tickets)
of consumer legislation	Cooling-off period after purchase	Rule for money back guarantee
		Rule for the purchase of car insurance
		Rule for door-to-door sales
	Guaranteed period	Rule for commercial guarantees
		Comparisons when purchasing a good
	Comparing products	Actual behaviour in comparing products
	Reading terms and conditions	Reading terms and conditions
		Knowledge of consumer organizations
C	Interest in consumer information	Knowledge of programmes related to consumer rights
engagement		Actual behaviour in obtaining info on consumer rights
	T	Tendency to communicate negative experiences
	rendency to talk	Tendency to communicate positive experiences
	Detriment and redress	Combination of five questions describing the actual behaviour when experimenting problems for which there is a legitimate cause for complaint

Table 1: Framework of the EU Consumer Empowerment Index

The attribution of weights within each pillar had been defined and/or choses by 20 DG Health & Commers experts' via participatory approach and presented in Table 2. The Commer Market Expert Group was composed by the representatives of the national authorities and the expert of the term participant in the group was requested to allocate 100 points on the three dimension of consume responsement: allo, nonveldeg and suscetives. Twenty different sets of consume responsement: allo, nonveldeg and suscetives and there on the three dimension of consume responsement: allo, nonveldeg and suscetives. Twenty different sets of the output of term of the term of the sum susce of contractions in comparison to other messions of central tendency. Furthermore, as mentioned in the report, the median is very maintar to the mess and both ordex are able the same texpera and early the same racks.

Domain	Consumer Skills	Awareness of Consumer Legislation	Consumer Engagement
Average	32.07	32.72	35.22
Median	32.00	30.00	34.00
Standard Deviation	9.21	10.78	10.79

Table 2: Allocation of weights based on panel experts for EU CEI

The results demonstrated geographic discrepancies in groups of empowered consumers:

- 1. The most empowered group of countries was clustered in Northern Europe;
- 2. Middle ranking was dominated by Western European countries:
- The least empowered (or the most vulnerable) group was clustered in Mediterranean and Eastern European countries.

The EU Consumer Empowerment Index was calculated on country basis by comparing the score of each country to the average score of the EU-27. Average, Based on the result indicated the score of Bolgaria is 2% higher than the EU-27 average. Based on the result whown I hald a L, the bast performer (Romania) had the score up to 20% lister than the EU-27 average, while the worst performer (Romania) had the score up to 20% lister than the EU-27 average.

EU Countries	Comparison with Average
Bulgaria	102
Belgium	84
Czech Republic	113
Denmark	114

Table 3: EU Country scores relative to the average

EU Countries	Comparison with Average
Germany	115
Estonia	99
Ireland	98
Greece	98
Spain	91
France	103
Italy	90
Cyprus	105
Latvia	96
Lithuania	87
Luxembourg	99
Hungary	92
Malta	103
Netherlands	116
Austria	108
Poland	83
Portugal	91
Romania	74
Slovenia	104
Slovakia	105
Finland	117
Sweden	113
United Kingdom	100
iceland	107
Norway	120

Based on the analysis of the socio-economic indicators, the study found the following results:

- Consumer empowerment was strongly linked to age, profession, education level and internet use:
- Empowered consumers did not always behave as per the expectation of the experts, given that the index structure was determined ex-ante by the experts' opinion (i.e. an empowered consumer does not read terms and conditions when signing a service contract, as opposed to the expectation of the consumer experts);
- The most significant factors of empowerment were material deprivation and education. Materially deprived consumers were 15% less empowered than weathlier consumers. Despite differences across countries, the relationship between material deprivation and empowerment was strong in reland, Taky, Luxembourg, Portugal and Spain;
- Consumers with low education scored up to 10% less than more educated ones at the EU level, these results were consistent in each country;
- Consumers using the internet were 12% more empowered. The largest impact of internet use on empowerment was found in Iceland, Ireland, Luxembourg and Portugal.

Highly influential factors	Effect
Material deprivation	Materially deprived consumers are 15% less empowered than wealthier consumers. They are 35% less skilled, 21% less aware and 5% less engaged. This result is valid in unajority of the countries (especially ireland, italy, Luxembourg, Portugal and Spain).
Internet use	Consumers using the internet are 12% more empowered (13% more skilled, 14% more aware, and 9% more engaged). The largest impact of internet use on empowerment is found in Iceland, Ireland, Luxembourg and Portugal.
Education	Consumers with low education score up to 10% less than more educated ones at the EU level. Low educated consumers are 16% less skilled, 10% less aware and 8% less engaged. These results are consistent in all EU countries in each country.
Language spoken	Language is indeed a barrier in many countries: at EU level consumes reporting a mother tongue different from the official language have an empowerment RN lower than the remaining consumer: They are 10% less skilled, 16% less aware and 3% less engaged. This effect depends on the country considered, specifically in fittand, taily and Murgary.

Table 4: Highly influential factors and the effects for EU

The analysis demonstrated that, at the aggregated level, there was a north-south division in terms of consumer empowerment. However, as shown in Table 4, the results did not demonstrate a clear influence of demographic patterns (i.e. education, age, material depination, internet) to the consumer empowerment, in the sense that regional factors were more important determinants of the level of consumer empowerment.

Overall, the analysis carried out through the CE shows that many European commenses are farfrom being able to poly the nole of a cites, informed and asserture market participants. However, there results provide important background information for polymakers and traditional background and levels, to they there may be policies and regulations that improve commen decision-making and reduce administrative burdent. They come applied from integration and analysis of reduce administrative burdent. They come applied from the applied on the regulation of the comments and the states and the states of the states of the states of the states of the states these results could be useful for rethinking the set of torkins used to evaluate empowerment.

2.3 Benchmarking - South Korea Consumer Empowerment Index (2018)

The 2018 South Korea Consumer Empowerment Index was conducted to measure the level of competency of consumers while also assessing the effectiveness of government policies. The results of the study, alredy in the third freatmin (first and second in four-year cycles in 2010 and 2014 respectively) were intended to be used as a basis for setting the direction and establishment of policies for consumer education in the future.

The study covered consumers aged 20 and above within all regions in South Korea for a total of 2,000 samples derived through quota extraction based on national statistics on gender, age and regional population.

The Korean Consumer Agency (KCA) in the study defines Consumer Empowerment as 'the total amount of consumer ability that must be equipped to effectively perform its role as a consumer' and consists of three 'competency' categories with a total of seven divisions, as shown in Table 5.

				Con	(). Figura	tion	mber of Q	ections)
	Contents Area				Factors		Sub	Total
Cat	tegory	Division Measurement		K A P		Total		
	Consumer	Financial Financial P Planning Manager Ability Planning		4	4	4	12	
Consumer Empower- ment Con	Financial Competency	Financial Managing Ability	Saving / Investment, Credit Card / Debt Management, Insurance Management	4	4	4	12	24
	Consumer Transation Competency Ability Ability Ability Ability Ability Ouse Information Resolve Conflict	Information Understanding / Utilization Ability	Searching / Selecting Information, Displaying / Information Understanding, Using Information & Communication Technology (ICT)	3	3	3	9	27
		Buying Decision Ability	Price, Contract / Transaction Option, Quality Comparison	4	4	4	12	
		Resolve Conflicts, Safe Use	2	2	2	6		

Table 5: 2018 Consumer Empowerment Index System for South Korea

Contents Area			Configuration Factors		Sub	Total		
Cat	legory	Division Measurement		KAP		P	Iotai	
Consumer Consur Empower- Civic ment Compet	Consumer Civic	Ability to Claim Rights	Understanding Laws / Regulations for Consumer, Consumer Rights Recognition & Use of Rights	4	4	4	12	21
	Competency	Ability to Take Responsibility	Ethical Consumption, Green Consumption, Consumer Participation	3	3	3	9	21

H.K. - Knowledge, A - Attitude, P - Practice

Similar to the EU study, weights were applied to each category and division by a panel of experts using Analytic Hierarchy Process (AHP). The weights for the categories and divisions are provided in Table 6.

Category	Weights (W2)	Division	Weights (W1)
Consumer		Financial Planning Ability	0.385
Financial Competency	0.277	Financial Managing Ability	0.615
Consumer	0.434	Information Understanding / Utilization Ability	0.385
Transaction		Buying Decision Ability	0.377
Competency		Ability to Use / Resolve conflict	0.237
Consumer Civic Competency	r Civic 0.289	Ability to Claim Rights	0.461
		Ability to Take Responsibility	0.539

Table 6: Weights for 2018 Consumer Empowerment Index for South Korea

The 2018 study found that the Consumer Empowerment Index had an average score of 65.5 points, up 1.5 points (or 2.3%) from the 2014 study. The results at the category level are shown in Figure 1.



Figure 1: Results of Consumer Empowerment Index for South Korea

As shown in Table 7, the Korean study found that demographic factors were the strong determinants which were similar to the previous iterations, the current study also compared index scores across social and economic variables. The key results are:

- The index score was noticeably lower for those aged 60 and over at 60.4 points, more than five points lower than the average;
- The financial competency of those aged between 20-29 years old was the lowest among all age groups, and even lower than those aged 60 and over;
- There was a strong link between higher education level and higher consumer empowerment:
- There was also a strong link between higher income level and higher consumer empowerment;
- In support of government initiatives, the results showed that respondents who have had consumer education over the past three years had a much higher index score of 75.4, ten points (or 15.5%) higher than those without at 65.3 – showing the impact of the initiatives.

		Frequency	CEI	Financial Comp.	Transaction Comp.	Civic Comp.
			Mean	Mean	Mean	Mean
	Total	2000	65.5	65.7	66.0	64.4
	20s	321	66.1	62.5	69.2	64.7
Age	30s	345	68.4	67.8	69.8	66.7
	40s	409	68.4	67.8	69.6	67.3
	50s	406	66.0	67.5	65.9	64.6
	60s and above	519	60.4	63.4	58.5	60.4
	Under High School	918	62.9	64.5	62.4	62.1
Educational	Vocational College	336	67.5	66.7	69.0	65.9
Level	University Graduate	721	67.6	66.8	68.9	66.5
	Graduate School and above	25	70.3	69.2	72.6	68.1
	Less than 1.5 million Won	106	59.6	60.4	59.2	59.7
	1.5 million and less than 3.0 million Won	491	62.6	64.1	62.1	61.9
Income Level	3.0 million and less than 4.5 million Won	698	66.5	66.5	67.3	65.5
	4.5 million and less than 6.0 million Won	479	67.4	67.3	68.5	66.0
	Above 6.0 million	226	66.9	66.3	68.2	65.6
Consumer	No	1,970	65.3	65.7	65.8	64.3
Experience	Yes	30	75.4	72.1	77.9	74.9

Table 7: Consumer Empowerment Index of each group (variables) for South Korea

Ultimately, the 2018 study provided a set of profile of consumers whose consumer empowerment level needed to be enhanced, and recommended targeted consumer policy towards consumer groups between 20-29 years of age, f0s and above, with diploma or below and a monthly income of less than 1.5 million won, and also suggested the domains of enhancement required, for example:

- Consumers between 20-29 years of age: strengthening consumer financial management competency;
- Consumers 60 and above: reinforcing all categories for consumer competency, especially with regards to understanding and utilization of information;
- Consumers with high school diploma and below: similarly, to reinforce all categories, and also with regards to understanding and utilization of information;

 Consumers with monthly income below 1.5 million won: strengthening of financial management, information understanding/utilization, buying decisions, and actions for redress.

2.4 Benchmarking - Indonesia Consumer Empowerment Index

Indenesis's base measurement of the consumer empowerment index was conducted in 2016 and was named the *Indeks Keberdayaan Konsumen* (IKK). The study was intended to analyse the level of consumer empowerment across regional, demographic, and socio economic aspects. As a result, the study in 2016 was conducted across 13 provinces among 1,950 respondents.

In a significant departure from the previous empowerment index, the Indonesian IKK domains were construed as stages in the buying process which were similar to consumer marketing models, with seven dimensions weighted individually, as demonstrated in Table 8.

Consumer Buying Process	Dimensions	Weightage
	Information search	20%
Pre-purchase	Knowledge of consumer protection laws and institutions	10%
	Evaluation of choices for goods and services	5%
Purchase decision	Preferences for goods and services	5%
	Buying behaviour	15%
	Tendency for discussion	5%
Post-purchase	Complaints behaviour	40%

Table 8: Dimensions and weightage for 2016 Indeks Keberdayaan Konsumen for Indonesia

Notably, there was a strong emphasis on buying of 'national products' (made-in-Indonesia products) with multiple lines of questioning comparing local and foreign-made products and seeking the respondent's preference. Furthermore, the study also determined a cateorization of the index scores, as follows:

- 1. Aware (0.0-20.0): recognizes basic rights and responsibilities of a consumer;
- Understanding (20.1-40.0): understands the rights and responsibilities of a consumer to protect himself/herself;
- Capable (40.1-60.0): Capable of employing his/her rights and responsibilities as a consumer to find the best choice, including a preference for national products;
- Critical (60.1-80.0): Plays an active role in advocating consumer rights and performs his/her responsibilities as a consumer, and also strongly prefers national products;
- Empowered (80.1-100.0): Has a strong sense of nationalism when interacting with the market and also advocates the importance of the consumer.

The overall result of the study was an index score of 30.85. Analysis of the results showed large disparities between geographical and demographic factors. For example, the scores in cities were significantly higher than in rural areas (33.46 vs 28.15) and were much lower in provinces further from the centres of commercial activity in Indonesia. The results by province are demonstrated in Figure 2.



Figure 2: Regional index scores by province in Indonesia

Among the seven dimensions of consumer empowerment identified, individually "Knowledge of consumer protection laws and institutions' and "Compliaints behaviour" recorded the lowest scores at 13.39 and 15.51 respectively, and as a result they were the main areas of focus for consumer empowerment initiatives in the next three years (directive from the President's Oflice).

A shown in Figure 3, the study further provided segmentation of the consumer repostdent pool, on the dimension of valabit' and precedure in utilities commer rights and obtaining referss. The segmentation resulted in the following distribution of respondency, showing that ong 28% of consumers in indexess are elevened to have high concers for getting the best product. The results are also further broken down by the key demographic characteristics demonstrated in Table 9.

Figure 3: Segmentation of consumers based on understanding rights and redress channels when choosing goods/services in Indonesia



Table 9: Key demographic characteristics for segmentation for Indonesia

Characteristics	High Concern	Quality Concern	Procedure Concern	Low Concern	Not Concern
Age Group	25-35	25-55	25-55	Varies	45-55
Economic Class	Sec A and A+	Sec B and C	Sec A and B	Varies	Sec D and E
Education	Diploma- degree	SMP-SMA	Degree	Varies	SD and below
Occupation	Formal workers	Private sector workers	Students	informal workers	Elementary - unemployed

Overall, the study also provided information on key areas for improvement, which was subsequently used for targeted policy making by the President's office.

CHAPTER 3

Instrument Design

- 3.1 International Benchmarking
- 3.2 In-Depth Interviews
- 3.3 Proposed Domains & Subdomains
- 3.4 Proposed Instrument
- 3.5 Stakeholder Workshop
3. Instrument Design

The design of the instrument consisted of four steps:

- i. International benchmarking;
- Stakeholder and expert consultation (in-depth interviews) as well as stakeholder workshop: and
- iii. Pilot Study.

In the first step, the study benchmarked similar index studies in other countries to provide an overview of the approach other agencies have taken towards measuring the level of consumer empowerment in their respective countries. The study took note of methodological concerns, as well as differences in interpretation and analysis of results.

The second tage involved extensive consultation with stakeholders and experts to provide qualitative insights on the topic of consume empowements, as well as to align, as much as possible, the direction of the study to the objectives and specific needs of the key stakeholders. In the fragheau, the tudy consucted in-depth inversives on an individual basis with identified stakeholders within the Ministry, comsumer groups and academics. Those insights were used to cartle thirs for dart the insistrumet (guotastionnied), which was then presented and amended during a stakeholder workshop involving stakeholders. The resulting instrument for the Pito Study can be refered to Apaendia 3.

Next, a Pliot Study was conducted to test the validity of the instrument. The results and analysis of the study, and the recommended amendments in the questionnaire are presented in Section 4 (Pliot Study).

3.1 International Benchmarking

The initial step of the instrument design was based on the benchmarking of countries which have conducted jimilar indes studies. In addition to providing an overview of the interpretation and domains within consumer empowerment used in different countries and their subsequent measurement, the study also identified the methodological strengths and weaknesses within the benchmarked indices. An overview of the benchmarking is provided in Table 10. Table 10: Summary of international benchmarking

	$\langle c \rangle$		# • #
	European Union	Indonesia	South Korea
Year	2010	2016	2018
Objective	Policy development based on consumer profiles (e.g. vulnerable consumers) in 27 countries	Analysis of level of consumer empowerment based on regional and demographic aspects as well as promote national products	Assess the effectiveness of government policies; setting the direction and policies establishment for consumer education in the future
Sample Size	56,470	1,950	2,000
Instrument Construction	Combination of test-like and self-report questions	Combination of test-like and self-report questions	Combination of test-like and self-report questions
Domain Construction	a. Consumer Skills b. Awareness of Legislation c. Consumer Engagement	a. Pre-Purchase b. Purchase Decision c. Post-Purchase	a. Financial Competency b. Transactional Competency c. Civic Competency
Weighing Method	Balloting by panel	Analytic Hierarchy Process by Panel	Agency
Resulting Socioeconomic Factors	a. Material Deprivation b. Internet Use c. Education Level d. Language	a. Age b. Economic Class c. Education Level d. Occupation	a. Age b. Income Level c. Education Level d. Consumer Education

3.2 In-Depth Interviews

Semi-structured interviews were carried out with decision makers, government official, adornkicins and representative Sform Nois 10 node to both multitude insights and views to establish the domains within the study, as well as to develop the initial draft questionnaire to be presented at the stakeholder workshop (Section 3.6). The interview discussion guides were continuously refined throughout the information gathering process to that they were relevant to the respondents as well as to verify information gathered. An overview of the indepth interviews is provided in Figure 4. Figure 4: Overview of the in-depth interviews



3.3 Proposed Domains & Subdomains

The definition of consumer empowerment in the 2013 study to develop the domains of the index was backen down into three domains - Cognitive, Affective and Practice. This is in construct to all three benchmarked indices where a more operational definition of consumer empowerment was used. The domains were existing advantage to the policymaking gasis established by the government, Furthermore, the study's consultation with stakeholders has also vielded requests for more practical conductations in translating findings into policy action, and hence lent support to a more operational definition of consumer emocurrented.

Based on the findings from benchmarking as well as the interviews with respective stakeholders, the study proposed the breakdown of consumer empowerment into three main component domains: Financial Liberacy, Purchasing Decision and Redress. The domains are further broken down into Cognitive, Affective and Practice each, reflecting the initial findings from the 2013 study and in a similar confineration as the Korean CEI study.

The overview of the proposed domains is presented in Figure S and each of the proposed domain composed of three subdomains, each determining an aspect of the domain from knowledge to practice:





Baed on the inputs gathered from is depth interviews with stakeholders, the study has found consistent emphasia and concers on the comuser environment, which are conditions on facts outside of the control of the individual consumer. For example, an empowered consumer would not have the charact to area thigher rights if the environment does not allow him/har to use the consumer stills – either because of prohibitive costs fining cost of living or lack of cases to product charact to area thigher individual strainers, the study also proposed to include, an additional section comprised of profiling questions (genering and use necessities, issues cancent for e-commerce and non-commerce, nonsumer information channels) within the instrument aimed at identifying the consumer environment, which will also contribute to the direction of future policies, as shown in Figure 6.





3.4 Proposed Instrument

The measuring instrument for the index is the questionnaire. The questions were designed and/or adapted based on:

- i. Reference of the instruments/guestionnaires of respective benchmarked countries;
- ii. Inputs from the in-depth interviews with respective stakeholders.

Furthermore, the instrument should as much as possible be insensitive to socio-economic environment of the respondents, while also adhering to the objectives of the study. Hence, the following factors below were taken into consideration while formulating the instrument:

- Comprehension: Questions should be formulated in a familiar language (e.g. the native language of the respondent) and should be easy to understand (i.e. the conveyed message is similar to both the researcher and the respondent);
- Urban/rural differences: Education level as well as living environment should be taken into consideration in order to avoid urban bias (e.g. investment related questions);
- iii. Precision: Double-barreled questions (i.e. two topics in one question) should be avoided.

The draft questionnaire is also a combination of direct, test-like questions (within the Cognitive subdomain) and self-report questions (within the Affective and Practice subdomains). This is in line with benchmarked indices, and also with the methodology used in the 2013 study. Examples for the types of questions can be referred to Section 3.4.1.

3.4.1 Types of Questions

i. Example of Test-like Question - Single Choice Question

If a pair of RM 100 jeans is offered at 5 Ako seposang jeans yong berhargo RM okhirnya?	0% plus 20% discount, how much is the final price? 200 ditawarkan diskaun sebanyak 50% ditambah 20%, apakah harga
RM 30	
RM 40	
Max Cours / Widok Doord	

ii. Example of Test-like Question - Multiple Choices Question

Which are the courts that the consumers can go to remedy, compensation and repayment.	when they want to seek redress? "Redress" covers
Antara berikut, yang manakah merupakan mahkan pembelaan? "Pembelaan" merangkumi pemulihan, p	nah yang pengguna boleh pergi untuk mendapatkan sampasan dan bayaran semula.
Cvil courts only / Mahlamah Sivil sahaja Tribunal for Consumer Claims only / Tribunal for Consumer Claims and civil courts / Tribunal for Consumer Claims and civil courts / Mahlamah Sivil dan Tribunal Tuntutan Pengguno Not Surve / Tribunal for	

iii. Example of Self-Report Question

I am confident with my general knowledge about financial matters. Saya rasa yakin dengan pengetahuan kewangan	1 Not at all confident Sangat bidak yakin	2 Slightly confident Kurang yakin	3 Fairly confident Agok yokin	4 Very confident Yokin	5 Extremely confident Sangat yakin
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3.4.2 Rating Scale

Two types of numerical rating scale were used in the current questionnaire - likert scale and semantic differential rating scale (e.g., importance). The respondents were asked to rate the statements in the questionnaire according to their level of agreement or perception: (i) importance; (i) confidence; (iii) frequency and (iv) agreement.

i. Importance Scale

I think it is important to save from my monthly income. Saya berpandangan Janya adalah penting untuk menyimpan duit sebagar simpanan daripada gaji bulanan.	1 Not at all important Tidak penting langsung	2 Slightly important Kurong penting	3 Fairly important Penting	4 Very important Agak penting	5 Extremely important Sangot penting
--	--	---	-------------------------------------	---	--

ii. Confidence Scale

I am confident with my general knowledge about financial matters. Saya rasa yakin dengan pengetahuan kewangan saya.	1 Not at all confident Sangat tidak yakin	2 Slightly confident <i>Rurang</i> yakin	3 Fairly confident <i>Agak</i> yakin	4 Very confident Yakin	5 Extremely confident Sangat yaƙin
--	---	--	--	---------------------------------	--

iii. Frequency Scale

If I cannot afford an expensive mobile phone, I think it is okay to buy it through a loan. Soyo rasa clok membeli telefon bimbit melalui telefon bimbit melalui pinjaman jika saya tidak mampu membelinya	1 Never Tidak pernah	2 Rarely Jarong	3 Sometimes Kadang- kala	4 Often Kerap	5 Always Sentiasa
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iv. Agreement Scale

I think it is a waste of money to buy	1	2	3	4
health insurance and/or Takaful. Saya rasa la amat membazir untuk membeli insurans kesihatan dan/atau Takaful.	Strongly Disagree Sangot tidak setuju	Disagree Tidak setuju	Agree Setuju	Strongly Agree Sangat setuju

3.5 Stakeholder Workshop

The objective of the stakeholder workshop was to provide an open forum to discuss the draft instrument and also to consolidate opinions from stakeholders, policymakers and NGOs, leading to a finalized questionnaise to be used during the Pilot Study. The proposed domains, external factors, subdomains and questions for the instrument were presented and discussed during the workshop, which was held on 5 December 2019 at 2entih NHotel, Purrajava.

The workshop was attended by internal project stakeholders from KPDNHEP and representatives from NGOs. Kindly refer to Appendix 1 for the list of attendees of the workshop.

Figure 7: Stakeholder Workshop at Zenith Hotel, Putrajava



The key activities from the workshop are summarized as follows:

1. Introduction to the study:

Participant were briefed on the background and history of the study. They were also briefed on the approach and methodology undertaken to-date – summary of benchmarking and in-depth interviews.

2. Presentation of index design:

An overview of the instrument was introduced to the participants. The instrument was comprised of two sections namely Consumer Environment (external factors) and Consumer Attributes. In addition, the pre-stabilished definition of each domain and its respective subdomains were presented, along with the justification. Consensus was obtained from all the stabilished prior to the presentation of questions.

3. Assessment of guestions based on profiles and domains:

Participants were presented with the proposed questions for each section: the presentation began with the profill questions and followed by the questions corresponded to each subdominis of each domain. Each session would be paused for collaborative discussion, that is - the participants were given time to validate and voice out their opinions and/or critiques based on their expertise. A conclusion and/or modification would only be made upon agreement from all parties.

After each segment the floor was opened for discussion, where participants were able to provide suggestions, feedback or seek clarification. The process resulted in a number of revisions to instrument agreed by consensus, which are compiled in Appendix 2. The revised instrument was sent to KPDNHEP for validation and finalized for the Pilot Study (Section 4).

CHAPTER 4

Pilot Study

- 4.1 Research Design
- 4.2 Research Instrument
- 4.3 Pilot Study Index Results & Findings
- 4.4 Pilot Study Instrument Validation & Recommendations
- 4.5 Summary of Proposed Changes

4. Pilot Study

The Pilot Study was commenced shortly after finalization of the draft instrument, with the purpose of providing a practical assessment and validation of the instrument prior to the nationwide roll-out. The results of the fieldwork were analysed using both quantitative (statistical) and qualitative methods, where the study proposed modifications to the ourstionnaire based on subfication from the results.

4.1 Research Design

The fieldwork of the Pilot Study occurred over the course of 14 days starting from 23 December 2019 to J0 January 2020. A total of 435 individuals were interviewen antomixile, including 207 respondents from Xiang Valley. Target respondents were Malaysian aged 18 years of and adboxes, living in the fire regions of Malaysia: horth, East Cast, Cartal, South, Sabh and Sarawak. The coverage for the regions was market centres (urban areas) and rural areas. The survey wed oraportional docta sampling for the tatte and strata.

Data was collected via a face-to-face interview carried out in respondent: homes and/or mail interception by specially trained interviews using Compete Aussisted Personal Interviewing (CAP). The surveys were conducted in either English or Mainy. The interviewing trained interviews and the surveys are conducted in the strength of the surveys are conducted in the surveys and the surveys are conducted in the surveys and the surveys and the surveys interviews and the surveys and the surveys and the surveys and the surveys required from the interviewers if the respondents data out understand the questions. The median survey competition them was anowed 32 minutes.

Besides that, statement rotation was employed during the fieldwork, where the order of the domains, subdomains and questions may appear in different orders to different respondent. As shown in Figure 8, this approach has the advantage of distributing the effects of respondent faigure, and hence preventing accumulation of disengaged responses on questions near the end of the survey.





4.2 Research Instrument

The plot survey instrument consisted of 78 questions divided into three different domains comprising of three subdomains each examising the level of consume remosurement of the respondents. The instrument size included 11 questions corresponding to the consumer environment. The full plot instrument can be referred to a Appendix 3 (section 8 for questions on the consumer environment). A summary of the three domains of the instrument is shown in Table 1.

	Financial Literacy	Purchasing Decision	Redress
Cognitive	 Understanding of inflation Understanding of interest rates Card fees and instalments Illegal lending 	 Understanding of pricing Controlled goods Malpractices Labels 	 General actions Avenues for redress
Affective	 Financial management & financial knowledge Consumption attitude & insurance 	 Pre-purchase & during purchase Online purchase General 	 Rights to redress Taking initiative
Practice	 Budgeting & saving Investing decision 	 Pre-purchase & during purchase General 	 Rights to redress Taking initiative

Table 11: Overview of the pilot instrument

4.3 Pilot Study - Index Results & Findings

This section presents the index results of the Pilot Study and is intended to provide an indicative snapshot of the consumer empowerment landscape in Malaysia. Analysis of the pilot results relating to validation of the instrument is presented in Section 4.4.

The results are preliminary and for internal use, as substantial differences are expected between the pilot index results and the nationwide study due to:

- The instrument used in the nationwide study will be different due to proposed changes and refinement of the questionnaire;
- The domain and subdomain weights are assumed to be equal (0.33 for each subdomain, domain) as the weights have yet to be finalized:
- 3. No response weighting is applied to the data.

These results are based on all 415 samples obtained across all states in Malaysia conducted over the course of two weeks from 23 December 2019 to 10 January 2020.

Overall, the preliminary index score achieved was 64.17 for the Pilot Study, where the Purchasing Decision domain scored the highest at 69.82, followed by Finance Literacy domain at 63.91 and Redress domain at 58.78.

4.3.1 Respondent Profile

Majority of the respondents lived in urban areas (6:215), with a total of 281 (6:776) of male respondents and 124 female respondents (12;38), Beildes tax, most of the respondents were those aged between 18:22 years old (415), followed by 30:39 years old (526) and 40 49 years old (153), A total of 231 erespondents were Male (7758), 45 respondents were Chinese (10:35), 47 respondents were Indian and Bumiputera from Sabah and Sarawak (11:34).

Most of the responsests belonged to the low and middle income groups: Biol (649) and Most (67%). In terms of discustion, majority of the responsests resolved not tertainy education (67%). On the other hand, more than 50% of the responsests resolved not tertainy education (67%). The start of the start is a start of the start is a 3% of the sponsests had attended to compare education and/or compare and and and the start is and the start of the start of the start of the compare the start of the Challenge for School Consider (10%) and/or compare the start of the start of the respondent profile is shown in Taices 5.



Figure 9: Summary of respondent profile for the Pilot Study

4.3.2 Index Calculation

Score mapping

Responses to all items were normalized for the purpose of score calculation, i.e. responses were mapped to a corresponding score between 0 and 1 (or 0% to 100%).

i. Test-like questions - single choice

Response	Score
Correct	1
Wrong	0
Not Sure	0

Score +1 was granted to a correct response and 0 for a wrong or "Not Sure" response.

ii. Test-like questions - multiple choices

Example 1: 4 correct answers

Number of correct responses	Score for each correct response (c)	Calculation Method (1-c)	Total Score
4		1	1
3		1-0.25	0.75
2	0.25	1 - (0.25 X2)	0.50
1	1		0.25
0 or Not Sure		0	0

Example 2: 3 correct answers

Number of correct responses	Score for each correct response (c)	Calculation Method (1-c)	Total Score
3		1	1
2		1 - 1/3	2/3
1	1/3	1 - (1/3 X 2)	1/3
0 or "Not Sure"		0	0

Based on the examples above, questions were alwarded 1 point if answered correctly. Scores for partially correct responses were calculated by subtracting the number of correct responses (c) from the total number of correct answers (score 1). Score 0 was given to all the wrong and/or "Not Sure" responses.

iii. 4-point scale questions

Points of Scale /	Sc	ore
Type of Questions	Positive	Negative
4	1	0.25
3	0.75	0.50
2	0.50	0.75
1	0.25	1

Scores were calculated by dividing the number of scale items (4) by 1 and were increased (by points of scale: +0.25/point) in an ascending (positive statement: "7 understand off the product information on the item producing "70 descending order (negative statement: "think it is a water of money to buy health insurance and/or Tokqful." based on the type of quasitions and/or statements.

iv. 5-point scale questions

Points of Scale /	Se	ore
Type of Questions	Positive	Negative
5	1	0.20
4	0.80	0.40
3	0.60	0.60
2	0.40	0.80
1	0.20	1

Each point of scale was granted a score of 0.20. Similar to the 4-point scale questions, scores were increased in an ascending or descending order based on the type of questions and/or statements.

Index Formula

The current index calculation applies an equal weightage (0.33) for each subdomain in the domain score, and a similarly equal weightage for each domain (0.33). The weightages are subjected to change pending stakeholder consultation on the final weightages to be applied on the nationwide study.

The calculation also assumes all questions have equal weightage, with the exception of DA7 and EA10 where they appear as multiple questions within the questionnaire. In each of these questions, all us-questions are ere combined into a single normalized score.



where weightage is 1/3 or 0.33

4.3.3 Index Score

Table 12: Overview of the index scores correspond to each subdomain

	Cognitive	Affective	Practice	Overall CEI 2020 Score
Financial Literacy	62.6	64.8	64.4	
Purchasing Decision	66.9	70.6	72.0	64.2
Redress	49.3	56.3	70.9	

Overall, the preliminary CEI 2020 score achieved was 64.2 for the Pilot Study, where the Purchasing Decision domain scored the highest at 69.8, followed by Finance Literacy domain at 63.9 and Redress domain at 58.8. In general, respondents scored levest In Cagnitive subdomain of Redress domain, followed by Financial Uterzyd domain and Particulasing Decision domain. Bediest Stut, Lithe Highest CEI 2020 score for Affective subdomain was found in Purchasing Decision domain, followed by Financial Uterzyd comain and Redress domain. In tersmo of Paratice subdomain, respondents scored lowest in Financial Uterzyd domain, followed by Redress domain and Parchasing Decision domain.

4.3.4 Consumer Environment

The results in this section are preliminary and reserved for internal use, as substantial differences are expected between the Pilot Study and the nationwide field work because of relinement of the instrument; weightages applied to respective domains and subdomains; and response weighting applied to the data.

Basic Necessities

Figure 10: Percentage of Malaysian consumers who do not struggle to afford for basic necessities and possess enough product choices while shopping for basic necessities



Basic necessities are defined as food and beverages, housing, water, electricity, gas, fuels and transportation.

Figure 10 showed that in general, 75.5% of Malaysian consumers agreed (including strongly agree) that they do not struggle to afford basic necessities, with no significant differeous between urban (with 71.0% of agreement) and rural respondents (with 83.7% of agreement). In addition, analysis demonstrated that 86.1% of Malaysian consumers agreed (including strongly agree) that they have enough product choices while shopping for basic necessities. This result was consistent for both urban and rural respondents (with around 85.0% of agreement).

On the other hand, it was noted that respondents aged above 60 years old and those who belong to the "poor" category struggle to afford basic necessities. These groups of people also thought that they do not have enough product choices while shopping for basic necessities.

In general, most respondents do not face issues with basic necessities while a sizable proportion indicated that it is a struggle to afford basic necessities.

Consumer Confidence

Figure 11: Percentage of Malaysian consumers who are able to find enough information to make an informed buying decision and are able to resolve a problem with their purchase



Based on Figure 11,86.1% of Malaysian consumers agreed that (including strongly agree) that they are able to find sufficient information to make an informed buying decision: with 88.6% agreement for urban consumers and 81.7% of agreement for rural consumers.

However, analysis showed that income level joys a significant role in this section: only 41.7% of "poor" consumes agreed that they have enough information to make an informed buying decision, in comparison to B40 group (B2.2%) of agreement). M40 group (B2.1%) and T20 group (90.0%). Results also demonstrated that only 36.4% aged G0 years of and above agreed that they are able to find enough information to make an informed buying decision.

Besides that, analysis showed that 80.3% of Malaysian consumers agreed (including strongly agree) that they are able to resolve a problem with their purchase. Study also showed that education level and income level play an important role in this section: more than 85.0% of respondents with higher education (e.g. diploma level and above) and/or income level (e.g. M40 and above) agreed that they are able to resolve a problem with their purchase and thought that it is important to buy or use environmentally friendly products.

Respondents generally felt they can make informed decisions and resolve the problems arising from those purchases.

Complaint Channels

Figure 12: Percentage of Malaysian consumers who are aware of all available complaint channels and think that government complaint channels are accessible



Results in Figure 12 showed that more than 600% of Malaysian consumers agreed (including strongly agree) that they are aware of all available complaint channels (with 66.0% of agreement) and generally think that government complaint channels are accessible (with 63.4% of agreement). No significant difference was discovered between urban and rural resondents (with around 1% of difference).

Nevertheless, analysis demonstrated that around 70% of respondents aged between 30-39 years old, with higher education (e.g. diploma and/or bachelor kevel) and/or income level (e.g. M40 group) agreed that they are aware of all the complaint channels and generally think that government complaint channels are accessible.

In general, awareness of consumer complaint channels and perception of the accessibility of government channels are relatively lower, indicating that there are room of improvement for the accessibility of the complaint channels.

Online Shopping



The results in Figure 13 showed that there were 55.7% of Malaysian consumers who shopped online. In addition, 58.9% of the respondents who shopped online purchased products from sellers on social media platform. In general, more than half of respondents shopped online, and many of them also purchased products on social media despite the trisks.

Figure 14: Percentage of Malaysian consumers who encountered problem with their online purchase in the past 12 months and those who seek redress



The reach in Figure 14 showed that there were 35.5% of Makyaian consumers who shopped online encountered providems with their purchase in the past 12 month, but analysis showed that only 13.5% of them sought redress for their purchase. The most frequent problems encountered were "product in not as advertised" (51.5% 42 scaes), followed by "product defective upon arrival" (34.1%; 28 cases) and "wrong product but unable to return" (22.0%; 18 cases).

Non-E-Commerce

Figure 15: Percentage of Malaysian consumers who encountered problem with their offline purchase in the past 12 months and those who seek redress



Bard on the Figure 15, 30.4% of Milaysian consumers who shopped offline encounteer polynems with their purchase in the part 12 months, but analysis showed that only 15.1% of them sought redress for their purchase. Among respondents who encounteed problem with them purchase, the most frequent problems encountered were "product in not a subwritide" (39.7%; 50 cases), followed by "product defective" (38.0%; 46 cases) and "price not same as protecting" (27.3%; 27 cases).



Figure 16: Reasons of not seeking redress for the problems encountered during online and/or offline purchase

Based on Figure 16, the most common reasons given by the respondents were: "Do not know how" (for offline purchase) and "Not worth the effort". In addition, "Tedious" was also one of the most common reasons that prohibited reasondents from film their complaints.

4.4 Pilot Study - Instrument Validation & Recommendations

This section presents an analysis of the validity of the measuring instrument, based on the Pilot Study, as well as recommendations by the study on items to remove from their respective domain. It is divided into the following subsections:

- 4.4.1 Methodology explanation of the quantitative and qualitative methods used in the analysis:
- 4.4.2-4.4.4 Descriptive Statistics and Analysis by Domains analysis and recommended changes to the instrument for each of the subdomains within their respective domains (4.4.2 Financial Literacy. 4.4.3 Purchasing Behaviour, 4.4.4 Redress);
- 4.4.5 Summary of Proposed Changes summary of proposed modifications to the instrument.

The full instrument used in the Pilot Study can be referred to in Appendix 3.

4.4.1 Methodology

Subset of Responses

The analysis in this section uses a subset of the responses gathered during the Pilot Study fieldwork. Specifically, the analysis relies only on respondents within the Klang Valley (Selangor and WP Kuala Lumpur), totalling C205 respondents out of a total of 415 gathered.

This subset was chosen as part of the design of the PiolS Study, as it was posted that a more localized set of consume response would be a more accurate subdemain of the walking of the instrument. This is due to the substantial expected (and eventually observed) variations in the commune Indicatory between different region writin Mulayia (a.g. Peninutur Malayia vis Staha had Sarawak, West vis Stat Coast, Central region runal vis Estern region runal; vest-These regional characteristics could altere the analysis of responses for individual items, in particular their variances, which in turn could affect the validity of proposed modifications. As which the following was also designed with a disconsortionate for one on the Katar Valler.

Instrument Validation

The analysis of responses is principally divided into two parts: 1) for the Caphinhe subdomain. 2) for the Affective and Practice subdomains. This division in primarily due to differences in questioning method for the subdomains – for the Capacitie subdomain, only testiles questions were used, while for the Affective and Practice subdomain, only described questions were used. The choice of question types was endemic to the objectives of each subdomain e.g. the Capithre subdomain that to be testile as the subdomain was set up to the subdomain e.g. the capithre subdomain that to be testiles are the ubdomain was set up to assess the respondent's knowledge, while the Affective and Practice subdomains had to be self-report as these attributes were mostly unverifiable. A discussion on the use of each question type can be referred to in section 6 (Conclusions - Construct Measurement) of the Inception Report.

In recommending modifications to the instrument, the study uses both quantitative and statistical methods, as well as qualitative reasoning. For example, some items could show an insufficient fit according to statistical methods but could be justificably retained due to stakeholder concerns and insights obtained during consultation. In this case, the justification will be provided in the respective subsections.

For the Cognitive subdomain where the questions are test-like, remapped responses are mostly biary (true or faile) as they are indigle response questions where the resulting core can only kee (port _ This results in significant tess variation in responses (compared to remapped task), self-report control (the significant tess variations in responses (compared to remapped to purple) and the significant tess variations are more significant test of Cognitive subdomain aims to assess knowledge in multiple areas, and hence are not expected to be undirection of refact advanceship (there, the quantitation analysis primerity refers on

- Communalities where each item is checked for relevance (extraction >0.4) with those less than the threshold being candidates for removal;
- ii. Question understanding & relevance where the percentage of respondents responding "not sure" for each question is measured. All test-like questions have an option for "not sure" to minimize respondent guessing, and a high proportion of respondents answering" not sure" could signal the question as a candidate for removal.

For the Affective and Practice subdomains where the questions are self-report, the primary quantitative method is through Reliability Testing, where calculation of Cronbach's Alpha ("Alpha") is used to determine if the subdomain is unidirectional, where the alpha coefficient is ideally above 0.6.

Kindly refer to Appendix 4 for the statistical analysis of the Pilot Study.

4.4.2 Financial Literacy

Financial Literacy - Cognitive

Question No.	Question Details	Correct (%)	Not Sure (%)
CA1	The same products cost more due to high inflation, compared with few years ago (before inflation).	74.40	14.01
CA2*	Which of the following represents the best interest rate if you were taking a RM 300,000 fixed-rate mortgage of 30 years?	44.44	29.47
CA3*	For a 10-year loan, flat interest rate is lower than a reducing principal rate (monthly rest).	23.67	31.88
CA4	Suppose you put RM 100 in the bank at an interest rate of 10% per year. Will you receive more interest in the 2nd year compared to the 1st year?	61.84	13.53
CA5	Retailers can charge me a fee for using my debit / credit card to pay for a purchase.	64.25	6.76
CA6	If I would need to buy a refrigerator, which would be the lower amount I would pay?	82.61	2.90
CA7	I can provide my ATM card as a collateral for a loan.	93.24	2.90
CA8	Illegal money lenders (e.g. Ah Long) can be approached as a last resort for financial problems.	95.65	0.48

Table 13: Summary of responses for Financial Literacy domain, Cognitive subdomain

"items not conforming to analysis

Table 14: Communalities for Financial Literacy domain, Cognitive subdomain

Question No.	Initial	Extraction
CA1	1.000	0.628
CA2	1.000	0.668
CA3	1.000	0.653
CA4	1.000	0.618
CAS	1.000	0.683
CA6	1.000	0.619
CA7	1.000	0.697
CA8	1.000	0.719

Extraction method: Principal Component Analysis

According to Table 14, the extracted communalities were above 0.40 for all items. However, questions CA2 (29.5%) and CA3 (31.9%) had a high proposition of "not sure" responses, indicating potential issues with these two items. With regards these two questions, this study proposes:

 For CA2: Fieldwork has identified that some respondents were confused with the wording of the questions, specifically the word 'mortgage' and 'godai jonyi'. Hence, this can question may be rephrased:

Old	Rephrased		
Which of the following represents the best	For a RM 300,000 housing loan for 30 years,		
interest rate if you were taking a RM 300,000	which of the following represents the best		
fixed-rate mortgage of 30 years?	interest rate?		
Antara berikut, yang manakah mewakili kadar	Bagi pinjaman perumahan yang berjumlah RM		
faedah terbaik untuk gadai janji (kadar tetap)	300,000 selama 30 tahun, antara berikut yang		
yang berjumlah RM 300,000 selama 30 tahun?	manakah mewakili kadar faedah terbaik?		

ii. For CA3: The study proposes to retain the question without modification, as stateholders have indicated that the understanding of different interest-rate calculation methods is considered important financial knowledge, and hence a high-proportion of 'not sure' responses corresponding to a lower score is a correct interpretation.

Financial Literacy - Affective

Question No.	Question Details	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
CB1	I think it is important to save from my monthly income.	4.367	0.663	0.488	0.359
C82	I think it is important to set a short- term and long-term financial goal to do well in financial management.	4.374	0.674	0.392	0.384
C83	I am confident with my general knowledge about financial matters.	4.467	0.665	0.413	0.376
C84	I am confident that I can choose the right financial product (e.g. loan, fixed deposit, mutual fund, etc.) for myself.	4.491	0.692	0.294	0.416
CB5*	I am confident with my knowledge about Islamic financial products such as Islamic Banking and Takaful.	4.512	0.792	-0.019	0.537
C86*	If I have extra money, I find it more satisfying to spend money than to save it for the future.	4.696	0.777	-0.019	0.549

Table 15: Reliability Testing details for Financial Literacy domain, Affective subdomain

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Magnesium	12	32	9 3	Lensk/Art:	254
Vilania A Vilania S	12.154	6.245	2213	Karbohidrat / Carbohydrate	20 g
Vilania IV	12			Protein :	68
Vitamia 82	1.00	1.9	0		
Vitamia 86	1.00		14		
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As shown in Table 62, the Cronbach's Alpha value showed a high reliability score of 0.88,6 meaning that this subdomain has good reliability and construct validity, weentheless, the results showed that the reliability of the model could be improved by removing question DBAs in addition, the study also proposed or needoce the number of items for breivity to reduce the length of the survey), as the number of questions in this subdomain is markedly higher than that of others:

- For DB3: Based on the feedback obtained from the in-depth interviews as well as the stakeholder workshop, this question is proposed to be retained as issues with social media purchases have high incidence for both government and NGO channels. Furthermore, the alpha coefficient for this subdomain already indicated good reliability.
- For DB1: Suggest to remove for brevity as it is implied by question DB3, where DB3 also has a more practical context.
- For DB6: Suggest to remove as it is implied by DB7, and may not be relevant to all consumers.
- iv. For DB2: Suggest to remove because this question does not provide correct information. For instance, most of the respondents would think that they are responsible consumers. This is also due to the number of questions in this subdomain.
- v. For D84 and D85: Suggest to combine these two questions. This is because D85 can be implied by D84. Besides that, D85 also has a slightly lower impact on the alpha coefficient compared to D84. Hence, these two questions could be modified to:

Old	Rephrased		
DB4: 1 think it is important to look at the terms and condition when buying and/or subscribing to a service. Says berpandangan is adalah penting untuk melihat terma dan syarat semasa membeli dan/atu melanggan sesuatu perkhálmatan. DB5:	I think its important to look at the terms and condition when buying and/or subscrib-ing to aervices as well as understand all the product information on the Item packaging . Surge bergendengen is adalah penting untuk melihat terms dan syarat semasa melanggan sesuat parkhidemeten dan juga memohami semua makkeme yang ada pada bangkusen		
I understand all the product information on the item packaging. Saya faham semua maklumat yang ada pada bungkusan produk.	produk.		

4.4.4 Redress

Redress - Cognitive

Question No.	Question Details	Correct (%)	Not Sure (%)
EA1	Suppose you order a home appliance online; do you think you have the right to return it without giving any reason?	45.41	3.38
EA2*	Items purchased through door-to-door sales (direct sales) can be returned within 10 working days.	38.65	34.30
EA3	If a product purchased has a defect causing a bodily injury, the business and / or manufacturers can be sued.	65.70	13.04
EA4	Boycott is an act of consumerism against unethical business (e.g. unreasonable pricing, cheating).	76.81	7.73
EAS	Which are the courts that the consumers can go to when they want to seek redress? "Redress" covers remedy, compensation and repayment.	47.34	10.63
EA6	Which of the following channel(s) you can use to lodge complaints to KPDNHEP? Please select all that applies (multiple choices).	7.25	7.25
EA7a		92.27	4.83
EA7b		42.51	6.76
EA7c	Which government agency handles the complaints	71.98	5.80
EA7d	or overpricing or a producti	73.91	5.80
EA7e		72.46	9.66
EAS	Which of the following is/are covered by legislation to protect consumers? Please select all that applies (multiple choices).	19.81	12.08
EA9*	Can you name an NGO that is involved in consumer protection?	4.83	94.69

Table 21: Summary of responses for Redress domain, Cognitive subdomain

"Items not conforming to analysis

Question No.	Initial	Extraction
EA1	1.000	0.746
EA2	1.000	0.671
EA3	1.000	0.466
EA4	1.000	0.488
EA5	1.000	0.421
EA6	1.000	0.591
EA7	1.000	0.654
EA8	1.000	0.557
EA9	1.000	0.746
AT 1 1		

Table 22: Communalities for Redress domain, Cognitive subdomain

Extraction method: Principal Component Analysis

Based on Table 22, the extracted communalities were above 0.40 for all items. According to Table 21, EA2 and EA9 had a high proportion of "not sure" responses at 34.3% and 94.69% respectively. The study proposed:

 For EA2: Given that door-to-door sales may not be as relevant in the advent of ecommerce channels, the study suggests to rephrase this question by replacing "door-todoor sales" with "direct sales":

Old	Rephrased		
Items purchased through door-to-door sales (direct sales) can be returned within 10 working days. Produk yang dibeli melalui jualan pintu ke pintu (jualan langsung) boleh dikembalikan dalam tempoh 10 hari bekerja.	Items purchased through direct sales can be returned within 10 working days. Produk yeng dibei melaku jualan langsung boleh dikembalikan dalam tempoh 10 hari bekerja.		

- ii. For EA9: The high proportion is due to a lack of a "No" response in the question. It is suggested to add a "No" response within the answer field, and to retain the question as
 - 1) the question has been highlighted as important amongst stakeholders;
 - the question could also serve as a profiling question for the relative awareness of NGOs.

Redress - Practice

Question No.	Question Details	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
EC1	If the seller refuses to exchange my purchase even though the product is defective (within the warranty period), I will file a complaint to consumer related institution.	3.959	1.792	0.697	0.892
EC2	I will follow-up with the complaint that I have made with the online seller if no action is taken within a certain period of time.	3.961	1.716	0.750	0.886
EC3	I will a file a complaint if I think I am unfairly charged (e.g. mobile plan, etc.).	3.914	1.731	0.788	0.881
EC4	I share information about bad purchasing experiences with others.	3.914	1.868	0.654	0.896
EC5	I leave reviews for my online purchases.	4.005	1.788	0.652	0.898
EC6	I am willing to use a proper channel to file a complaint against an unethical business regardless of the price of the product.	3.933	1.804	0.769	0.885
EC7	If a company or a seller is selling a product at an unreasonable rate, I will share the information with my family and friends and boycott the company or seller.	3.904	1.856	0.713	0.891

Table 24: Reliability Testing details for Redress domain, Practice subdomain

For this subdomain, as shown in Table 69, the Cronbach's Alpha value demonstrated a high reliability score of 0.904, indicating good reliability and construct validity. No modification is required given that the number of questions is consistent with other subdomains.

4.5 Summary of Proposed Changes

Domain	Subdomain	Modification			
Frenchal	Cognitive	Rephrase question CA2: "mortgage" to "housing loan".			
Literacy	Affective	 Move question CBS to Profiling Section (Section B). Rephrase question CBS: "satisfying" to "beneficial". 			
Purchasing Decision	Cognitive	 Replace the table (nutritional value) in question DA9 with a simplified table. 			
	Affective	Remove question DB1. Remove question DB2. Combine questions DB4 and DB5. Remove question DB6.			
Redress	Cognitive	 Rephrase question EA2: "door-to-door sales" with "direct sales". Add a "No" response to question EA9. 			
	Affective	Remove question EB3.			

Table 25: Summary of proposed modifications for each subdomain

Based on the input from stakeholders, the "Government Sector" option will be added to question A13. In addition, two profiling questions will also be added in Section B ("Consumer Environment" based on input from stakeholders) to understand the respondent's perspective on the current economic situation. These questions could contribute to future consumer policy direction:

	1 Deteriorate	2 Decline	3 Same	4 Good	5 Better
What do you think about the current economic situation compared to 3 years ago?					
How will the economic situation change in the next 3 years?					

Refer to Appendix 5 for the finalized questionnaire.
CHAPTER 5

Methodology

- 5.1 Final Instrument
- 5.2 Sampling Distribution
- 5.3 Research Procedure
- 5.4 Domain Weighting
- 5.5 Index Calculation

5. Methodology

5.1 Final Instrument

The final instrument consists of 80 questions divided into three different domains comprising of three subdomains comprising of three subdomains comprising of three subdomains each examining the level of consume responsement of the respondents. The instrument also included 13 questions corresponding to the Consumer Furiorment. The final instrument can be referred to a Appendix 5 (Section 8 For questions on the Consumer Environment). A summary of the three domains of the instrument is shown in Table 26.

	Financial Literacy	Purchasing Decision	Redress
Definition	Ability to act as a prudent decision maker in managing household expenses, and in understanding basic financial issues relevant to most consumers.	Understanding and action on how to make an informed decision before and during a purchase.	Understanding of rights and assertiveness in seeking redress after a bad purchasing experience.
Examples	 Saving Budgeting Making payments on time Not falling for scams 	Before purchase: research, compare prices During purchase: purchasing preferences, buying behaviour	 Knowledge about channel Propensity to share experiences
Number of Questions	 Cognitive: 8 Affective: 7 Practice: 8 	 Cognitive: 13 Affective: 8 Practice: 7 	 Cognitive: 13 Affective: 9 Practice: 7
Subdomains	Cognitive: Knowledge and understanding of the consumer in managing household expenses and in understanding basic financial issues.	Cognitive: Knowledge and understanding of the consumer in making an informed purchasing decision.	Cognitive: Knowledge and understanding of the consumer in seeking redress after a bad purchasing experience.
Subdomans	Affective: Willingness to act of the consumer on their knowledge in managing household expenses and in understanding basic financial issues.	Affective: Willingness to act of the consumer on their knowledge in making an informed purchasing decision.	Affective: Willingness to act of the consumer on their knowledge in seeking redress after a bad purchasing experience.

Table 26: Overview of the instrument

	Financial Literacy	Purchasing Decision	Redress
Subdomains	Practice: Action and practice of the consumer in managing household expenses and in understanding basic financial issues.	Practice: Action and practice of the consumer in making an informed purchasing decision.	Practice: Action and practice of the consumer in seeking redress after a bad purchasing experience.

5.2 Sampling Distribution

The quantitative survey was carried out using the final instrument as shown in Appendix 5, and the field work involved a combination of face-to-face (household and/or public intercept) and online interviews with consumers aged 18 and above across nationwide, in both urban and rural areas.

The detailed sampling was designed with social mapping in mind, where the objective was to provide adequate and representative sampling of districts. Hence, not all districts correct to preserve sampling numbers, and the sampled districts were selected in such a way that they covered the different demographic characteristics of districts with the state. Kindly refer to Appendic for the detailed sampling distribution.

5.3 Research Procedure

A number of 75 enumerators were involved in the face-to-face interviews. Each enumerator was equipped with a tablet, nametag, a set of questionnaires and a show card for the interview. In addition, they also carried an authorization letter endorsed by RDNHEP.

Prior to interview, self-introduction accompanies with the explanation of the purpose of the table (including using elities) was conducted by the enumerators. On the other hand, the enumerators would ensure that the respondents understood their participation in this study would be based on voluntary basis. There was a filter question for the respondents who had decided to join the survey in orders to determine their eligibility (i.e. the respondents must be a Malaysian citizen). The nationwide fieldwork was sunched during early March across all states and ended by the state weak of August 2020.

During the MCO period (pisos obtained the approval letter from the Ministry of International Trade and Industry (MIT) to continue to carry out face-to-face survey starting from 6 May 2020 by following the SOP established by the government.

5.3.1 Procedure during Movement Control Order (MCO)

Fieldwork was conducted via phone calls during the MCD period (including CMCD period) which was effective from 134 March 2000 to 9 June 2020. The potential respondences were recruited from (paos) internal diababae based on the previous studies in which the respondence that given explicit consent to be re-contacted for future surveys. Calls were made by the enumerators to the potential respondents to check on their willingness to garridgate in the order study (including guideline) was encounted for their willingness to garridgate in the order study (including guideline) was encounted as the survey memory. But were made opted to garridgate in this tauge, an appointment was set based on the willbally of the respondent and the performance guideline) space application provide the guideline) space.

Respondents were requested to download the Zoom / Skype application prior to the interview. The photo showcard was sent to the respondent right before the interview and the interview, set conducted via the agreed platform and schedule. Smillar to face-to-face interviews, explanation of certain terms was provided to the respondents during the interview to ensure the correct understanding of the questions.

5.3.2 Procedure during Conditional Movement Control Order (CMCO) and Recovery Movement Control Order (RMCO)

Face-to-face interviews were conducted during the period of CMCO and RMCO. Facemask, disposable glove and hand sanitzer were provided to the enumerators nationwide. The following precationary measures were taken during the interviews:

- 1. Enumerators were required to wear facemasks all time during fieldwork;
- 2. Crowded places were avoided, and social distancing were practiced;
- 3. Frequent hand wash with soap or hand sanitizer before and/or after the survey;
- 4. Tablets were sanitized with antibacterial wet wipes after each interview session;
- 5. Respondents that looked sick (e.g. coughing or sneezing) were avoided;
- The health of the enumerators was constantly monitored by prohibiting them from conducting interviews if they demonstrated any sign of sickness.

5.3.3 Quality Assurance (QA) Process

Level 1: Ensuring the interviewers quality

The interviewers were mostly highly experienced and had done similar nationwide fieldwork in other studies. They were also required to attend face-to-face briefing and training on quarterly basis. Interviewers also went through mock interviews and pilot tests prior to actual fieldwork in order to understand the objective of the study and to familiarize with the interviewing process. A checklist of do's and don'ts was also provided to all interviewers.

Level 2: Data Collection Platform

A series of pilot tests and trials were conducted before the actual fieldwork to capture if there was any potential error with the data collection / interview platform. Logical checks and routings were also conducted to ensure the robustness of the platform.

Level 3: Quality Control (QC) team

Around 10%-20% of the total interviews were verified for QC purpose. The items being checked included:

- i. GPS / location of the interview;
- ii. length of interview; and
- iii. call-back to the respondents.

5.4 Domain Weighting

In calculating the index score, weights were applied at both the domain and subdomain levels. The weights were decided through balloting by government stakeholders, in line with benchmarked index studies in the EU and South Korea.

A total of 12 stakeholders submitted their proposed weights. The results of the balloting are shown in Table 27.

	Domain Weights			
Domain	Normalized (Final)	Median	High	Low
Financial Literacy	30	30	50	10
Purchasing Decision	40	30	50	30
Redress	30	40	40	20

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		Subdomain Weights			
Domain	Subdomain	Normalized (Final)	Median	High	Low
	Cognitive	41	40	50	30
Financial	Affective	31	30	40	10
Literacy	Practice	28	27.5	60	20
2.0.0	Cognitive	41	40	70	33
Purchasing	Affective	31	30	40	10
Decision	Practice	28	27.5	33	20
	Cognitive	33	34	40	25
Redress	Affective	30	30	35	20
	Practice	37	37.5	50	30

5.5 Index Calculation

Score mapping

Responses to all items were normalized for the purpose of score calculation, i.e. responses were mapped to a corresponding score between 0 and 1 (or 0% to 100%).

i. Test-like questions - single choice

Response	Score
Correct	1
Wrong	0
Not Sure	0

Score +1 was granted to a correct response and 0 for a wrong or "Not Sure" response.

ii. Test-like questions - multiple choices

Example 1: Four correct answers

Number of correct responses	Score for each correct response (c)	Calculation Method (1-c)	Total Score
4		1	1
3		1-0.25	0.75
2	0.25	1 - (0.25 X2)	0.50
1	,	1 - (0.25 X 3)	0.25
0 or Not Sure		0	0

Example 2: Three correct answers

Number of correct responses	Score for each correct response (c)	Calculation Method (1-c)	Total Score
3		1	1
2	10	1 - 1/3	2/3
1	1/3	1 - (1/3 X 2)	1/3
0 or "Not Sure"		0	0

Based on the examples above, questions were awarded 1 point if answered correctly. Scores for partially correct responses were calculated by subtracting the number of correct responses (c) from the total number of correct answers (score 1). Score 0 was given to all the wrone and/or "Not Sure" responses.

iii. 4-point scale questions

Points of Scale /	Score		
Type of Questions	uestions Positive Nega		
4	1	0.25	
3	0.75	0.50	
2	0.50	0.75	
1	0.25	1	

Scores were calculated by dividing the number of scale items (4) by 1 and were increased (by points of scale: +0.25/point) in an ascending (positive statement: " understand all the product information on the item pockoging.") or descending order (negative statement: " thinkit is a waste of money to kuy health insurance and/or Takqlul." based on the two of questions and/or statements.

iv. 5-point scale questions

Points of Scale /	Sc	ore
Type of Questions	Positive	Negative
5	1	0.20
4	0.80	0.40
3	0.60	0.60
2	0.40	0.80
1	0.20	1

Each point of scale was granted a score of 0.20. Similar to the 4-point scale questions, scores were increased in an ascending or descending order based on the type of questions and/or statements.

Index Formula

The calculation of the index scores follows the following formulas:

 $Subdomain Score = \sum_{i} \frac{Question Score}{Total Questions}$ $Domain Score = \sum_{i} Subdomain Score \times Subdomain Weightage$ $Inder Score = \sum_{i} Domain Score \times Domain Weightage$

where the domain and subdomain weights follow the finalized weights in the previous section

CHAPTER 6

Results

- 6.1 Demographic Profile
- 6.2 Descriptive Statistics
- 6.3 Score Distribution & Categorization
- 6.4 Index Results
- 6.5 Consumer Environment

6 Results

6.1 Demographic Profile

A total of 12,482 respondents participated in the CEI 2020 study – the unweighted demographic profile of the respondents is presented in Table 28.

In terms of education level, majority of respondents' highest educational attainment was at the SPM-equivalent level (6.500, 52.9%), followed by Diploma-equivalent (1,633, 13.1%) and RM-equivalent (1,644, 11.7%), by household income, 66.1% or 8,253 respondents were from the 840 category, followed by 31.3% or 3,510 in the M40 category, and 2.6% or 339 in the T20 category. The full demographic period of respondents is shown in Table 28.

Demographic Profile	n	%
Gender		
Male	6264	50.2%
Female	6218	49.8%
Age Group		
18-29	4445	35.6%
30-39	2711	21.7%
40-49	2261	18.1%
50-59	1626	13.0%
60-69	1266	10.1%
> 70	173	1.4%
Ethnicity		
Malay	6914	55.4%
Chinese	3198	25.6%
Indian	911	7.3%
Bumiputera Sabah	852	6.8%
Bumiputera Sarawak	475	3.8%
Others	132	1.1%
Strata		
Urban	8173	65.5%
Rural	4309	34.5%

Table 28: Respondents' demographic profile

Demographic Profile	n	%
Education level		
No Formal Education	419	3.49
UPSR	883	7.19
LCE/SRP/PMR	1464	11.79
MCE/SPM/SPVM/O Level	6600	52.99
STPM/STP/HSC/A Level	750	6.09
Diploma	1633	13.19
Bachelor's degree	668	5.49
Masters/PhD	34	0.35
Others	31	0.29
Household Income		
840 (RM 4,000 and below)	8253	66.19
M40 (RM4,001 - RM10,000)	3910	31.39
T20 (RM10,001 and above)	319	2.69
State		
Perlis	100	0.89
Kedah	808	6.59
Penang	658	5.39
Perak	1011	8.19
Selangor	2435	19.55
WP Kuala Lumpur	737	5.99
WP Putrajaya	51	D.49
Negeri Sembilan	399	3.25
Melaka	354	2.89
Johor	1396	11.25
Pahang	617	4.95
Terengganu	471	3.85
Kelantan	715	5.79
Sabah	1404	11.29
WP Labuan	52	0.45
Sarawak	1274	10.29

6.2 Descriptive Statistics

Table 29 applies descriptive statistics to the input scores for each subdomain, which are eventually used to compute the domain and index scores. Attributes refer to the number of questions within each subdomain, and correspondents to the maximum attainable score. Minimum and Maximum refer to the minimum and maximum achieved scores by respondents in the study respectively.

Domains	Subdomains	Attributes	Minimum	Maximum	Mean	Std. Deviation	Skewness	Kurtosis
Planeta .	Cognitive	8	0.0	8.0	4.84	1.82	-0.60	-0.03
Literacy	Affective	7	1.0	7.0	4.61	1.01	0.20	-0.64
	Practice	8	0.0	8.0	4.82	1.45	-0.22	-0.26
	Cognitive	10	0.0	10.0	7.12	1.58	-1.21	1.66
Purchasing	Affective	8	0.3	8.0	5.50	0.89	-0.20	0.98
Decision	Practice	7	0.0	7.0	4.42	1.37	-0.38	-0.09
Redress	Cognitive	9	0.0	9.0	4.07	1.73	-0.34	-0.34
	Affective	9	0.0	9.0	6.49	1.12	-0.22	1.13
	Practice	7	0.0	7.0	3.61	1.75	-0.23	-0.73

Table 29: Results of Descriptive Statistics Analysis

The Affective subdomairs recorder the leavest standard deviation (1.0.7, 0.88 and 1.12 Gr financial literace, Yourdaning Decision and Rederss respectively), majping the respondent scores in these subdomains have the least variation. Skew and kurtosis were most significant in the Cospitave subdomain in Purchasing Decision (1.21 and 1.66 respectively), indicating there is a relatively large proportion of respondents scoring lower than the average for this subdomain.

Overall, skew and kurtosis are within acceptable parameters, indicating that the scores in each subdomain approximate a normal distribution, and provides justification that the questions within each subset are valid.

6.3 Score Distribution & Categorization

The scores achieved for the current study approximately follow a normal distribution, with the unweighted scores centred around an average of 62.6%. The maximum score achieved was 94.4% and the lowest score was 13.7%.



Flaure 17: Unweighted distribution of index scores

The current study categorizes the total index score into the following categories, which are defined by their scoring brackets in Table 30.

Scoring Bracket	Categorization Level of Empowerment	Percentage of Respondents (Unweighted)	Percentage of Respondents (Weighted)	
0-29	Vulnerable	0.4%	0.4%	
30-49	Low	10.7%	9.5%	
50-69	Moderate	59.3%	59.2%	
70-84	High	28.6%	29.9%	
85-100	Very High	1.0%	1.0%	

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With the results segmented into the five categories, a general description of each category can be provided based on the profile of scores achieved by their respective respondents across all three domains of Financial Uteracy ("P"). Purchasing Decision ("P") and Redress ("R"):

	Average						
Level of Empowerment	Fin Pur Red (max (max (max 100%) 100%) 100%)		Red (max 100%)	Description			
Vulnerable	26.6	28.2	18.4	Vulnerable consumer, has basic financial literacy and basic understanding on how to make an informed purchase, but has limited knowledge of consumer rights and channels for redress.			
Low	42.9	48.5	36.3	Slightly vulnerable consumer, understands financial decisions and is able to make informed purchases, but is not able to assert his/her consumer rights or access channels for redress.			
Moderate	59.6	66.6	52.1	Capable consumer, strong ability to make informed purchases and generally able to understand financial decisions but may not be able to assert his/her consumer rights through the right channels.			
High	74.1	78.7	69.9	Slightly empowered consumer, understands how to make the best purchasing decisions, and has generally good knowledge on financial decisions and his/her consumer rights and channels for redress.			
Very High	85.4	87.5	83.8	Empowered consumer, understands how to make the best financial and purchasing decisions, and understands his/her rights and how to obtain redress.			

Table 31: Average domain scores under categorization and proposed descriptions

6.4 Index Results

The overall Consumer Empowerment Index score for Malaysia in 2020 is 63.1%, categorized as Moderate. Consumers are most empowered in making Purchasing Decisions, which achieved a score of 68.8%, followed by Financial Literacy at 62.5% and scored lowest in terms of Redress at 56.1%.



Figure 18: Overall weighted index scores for all respondents for CEI 2020

The results shown were after application of weights based on estimated state, strata and ethnic numbers for Malaysians aged 18 and above provided by Department of Statistics Malaysia (DOSM). The figures were compared against the achieved samples within the study and applied as post-stratification weights.

The breakdowns by key demographic subdomains are provided in Figures 19, 20 and 21.



Figure 19: CEI 2020 score compared to national average: gender and age group

Figure 20: CEI 2020 score compared to national average: income and ethnicity



*Other Bumputera, includes Bumputera Sabah and Bumputera Sarawak

**B40 group refers to monthly household income less than RM4,000; M40 group refers to monthly household income ranges from RM4,001 to RM10,000; 720 group refers to monthly household income above RM10,001



Figure 21: CEI 2020 score compared to national average: highest education level



At the national level, there are only marginal differences in score between multi- and femals reproduents, with the exception of Financial Ulterary where maile scoredness thave a slight (H2BN) advantage. Other demographic indicators show large disparities, most notably in terms of education level, income group and age group, where the gaps in total empowerment scores range from 1-5K for declations. As K6 in income and +11K by age. These findings are in line with similar index tudies done in the EU and South Koras, where velnerable commers are reserved by the same demographic indicators.

A detailed breakdown of the consumer empowerment scores by demographic profiles into domain scores is provided in Table 32.

Demographic Profile	Index	Financial	Purchasing	Redress
	Score	Literacy	Decision	
Gender				
Male	63.3	62.9	68.9	56.2
Female	62.9	62.1	58.7	56.0
Age Group				
18-29	63.7	62.3	69.4	57.4
30-39	64.8	63.7	70.7	58.1
40-49	63.5	63.2	69.0	56.6
50-59	62.2	62.4	67.8	54.4
60-69	58.6	60.1	64.0	49.7
> 70	53.7	57.1	59.3	43.0

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Demographic Profile	Index	Financial	Purchasing	Redress	
	Score	Literacy	Decision		
Ethnicity					
Malay	64.5	63.9	70.4	57.1	
Chinese	63.9	63.7	69.3	56.8	
Indian	60.3	60.7	65.9	52.6	
Other Bumiputera	57.1	55.2	52.2	52.2	
Others	58.4	57.8	52.1	54.0	
Strata					
Urban	63.8	63.3	69.4	56.9	
Rural	60.6	59.8	66.6	53.3	
Education level					
No Formal Education	51.6	51.8	56.7	44.7	
UPSR	56.5	57.1	62.1	48.5	
LCE/SRP/PMR	59.2	59.3	65.3	50.9	
MCE/SPM/SPVM/O Level	63.6	62.7	69.4	56.6	
STPM/STP/HSC/A Level	65.6	64.5	70.8	59.6	
Diploma	66.9	66.0	72.1	60.7	
Bachelor's degree	68.3	68.6	73.3	61.5	
Masters/PhD	67.7	69.6	71.0	61.3	
Others	59.5	58.1	63.7	55.3	
Household Income					
840 (RM 4.000 and below)	60.8	60.0	66.8	53.5	
M40 (RM4.001 - RM10.000)	67.1	66.7	72.0	60.7	
T20 (BM10.001 and above)	69.4	20.5	74.1	61.9	
State					
Perlis	58.4	57.1	64.9	50.8	
Kedah	58.8	55.1	65.5	53.6	
Penang	66.3	64.7	72.2	60.0	
Perak	60.5	61.0	67.4	50.8	
Selangor	66.7	67.3	71.1	60.3	
WP Kuala Lumpur	61.9	61.0	67.1	55.7	
WP Putraiava	66.0	62.6	71.5	62.2	
Negeri Sembilan	65.3	64.9	70.3	59.0	
Melaka	62.2	64.9	67.4	52.4	
lohor	65.2	64.8	71.6	57.1	
Pahang	64.9	63.8	72 7	55.5	
Terengzanu	68.8	69.0	73.5	62.4	
Kelantan	61.8	63.0	58.4	51.7	
Sabah	59.0	57.2	53.6	54.6	
WPLabuan	61.2	54.5	55.0	62.9	
Sarawak	58.1	56.2	63.8	52.3	
Datailed Strata	50-8	20.2	-2.0	34.3	
Desingular Malanzia Ulaban	615	64.2	20.2	67.2	
Paningular Malauria - Rural	62.4	62.2	E9 E	54.2	
Coholi R. Corowak - Heban	50.9	59.1	64.0	54.5	
Sabah & Camuala Dural	59.8	20.1	04.B	10.0	
saban & sarawak - Kural	56.2	54.1	01.9	50.9	

The follow subsections contain a more in-depth discussion of the results by key demographic indicators, in the following order:

- 6.4.1 Key Demographic Indicators Education, Income Group, Age Group and Strata;
- 6.4.2 State-level Results Key results by state.

6.4.1 Key Demographic Indicators

For ease of reference, the following abbreviations in Table 33 will be used when referring to the subdomains:

	Subdomain	Abbreviation	
Financial Literacy Purchasing Decision Redress	Cognitive	Fin-C	
Financial	Affective	Fin-A	
Literacy	Practice	Fin-P	
Purchasing	Cognitive	Pur-C	
	Affective	Pur-A	
Decision	Practice	Pur-P	
	Cognitive	Red-C	
Redress	Affective	Red-A	
	Practice	Red-P	

Table 33: Abbreviated subdomains

6.4.1.1 Education

The level of consumer empowerment closely tracks the respondents' level of educational attainment. This is unsurprising, as the instrument contains test-like sections in the form of the Cognitive subdomains in each domain, where the respondents' knowledge and numerical literacy is tested.

The spread of index and domain scores are shown in Figure 22, where the highest and lowest scores are labelled. The results for respondents answering "Others", consisting of 31 respondents (unweighted) and 0.2% of the total sample size, has been omitted.



Figure 22: Index and domain scores by level of educational attainment

In terms of the total index score, the gap between the lowest scoring group (No Formal Education) and the highest scoring group (bachelor's degree) is -16.7%. The results also do not point to a particult domain warranting special attention, as the gaps are relatively consistent – Financial Literacy has the largest disparity at -17.5%, but Redress and Purchasing Decision are close at -16.5% and -16.6% resourcively.



Figure 23: Gap in subdomain scores between respondents with no formal education and respondents with bachelor's degree

Comparing the results at the subdomain-level yields a different picture, where the largest gaps in score are with focularly used how the consumer skills and knowledge is tested. The disparity is largest in the Financial Literacy domain, with Fin-C at 2.57% (followed by Redress and Parchasing Decision with Red C at 2.44% and Parc L at 2.23% respectively). The scale of the difference tables where gaps in commer knowledge and skills due to a difference in level of education, and could highlight a pressing need, in particular within the already low-scoring Redress somain.

Meanwhile, the gaps in scores for the Affective subdomain are consistently the lowest, implying that consumers with a lower level of education still have good level of motivation and assertiveness towards consumer rights.

In terms of Practice, the gain scores is lowest for the Financial Literary domain, with Fin-Par just 12.8x. This superst that consumers with a lower level of education are still also make generally god saving and budgeting practices, even when compared to the highest scoring togorys. The gain is larger is APP-2 and Ref 24 x 12.38 and 12.55. respectively, and could highlight that consumers with a lower lovel of education an average act lises on their skills and rights when it comes to maining parchange decisions or seeing refers.

6.4.1.2 Income Group

The respondent's household income is also a strong determinant of their total consumer empowerment score. At an intuitive level, more disposal income means more frequent purchasing behaviour and access to more choices at different price ranges, which in turn allows for more use of consumer knowledge and skills - individuals with higher household income are hence also expected to have higher scores, all else being equal.

The spread of index and domain scores are shown in Figure 24, where the highest and lowest scores are labelled



Figure 24: Index and domain scores by income level



Financial Literacy









Perhaps unsurprisingly, the largest gap in domain score is within the Financial Literary domain, where respondents classified as 480 score significantly lower (10:53) compared to their T20 counterparts, as they are less likely to utilize or have high awareness of financial products due to market barriers. Encouragingly, the gap narrows in Parvissing Decision to the lowest at - 7.3%, with 840 respondents also scoring relatively high at 66.8%. There are also substantial differences in References scores at - 63.5%.



Figure 25: Gap in subdomain scores between B40 and T20 respondents

Referring to Tigure 25, at the subdomain level, the largest gaps between the 840 and 720 groups are consistently within the Cagoline subdomains, where it is highest in Financial Literary at 14.8%, followed by Refers at 11.9% and Purchasing Decision and be users for Hanari Literary and Purchasing Decision cade be users the gaps in Financial Literary and Purchasing Decision cade be users to the substance of the gaps in Financial Literary and Purchasing Decision cade be users to the substance and market restead barriers (e.g. limited choices due to these negopenent in purchasing behaviour and market restead barriers (e.g. limited choices due to the substance) and the gaps in References as worrying – for consumers with Nouer disposable locane, a purchase going wrong has a much larger impact on their finances as compared to a surve affluence housed,

For the Affective subdomain, the gaps are relatively low in Purchasing and Redress at -3.5K and -4.3K respectively. The largest disparity is in Financial literacy, where it is understandably lower at -7.5K a consumers in the lower income household group are more likely compelled to live on a day-to-day basis, and hence are less likely to feel the need to make longer-term budgeting decisions. For Practice, the gaps between the 840 and T20 groups are relatively constant, ranging from – 6.6% in Purchasing Decision to -8.8% in Redress. The large gap in Redress is similarly worrying, as bad purchases have a more significant impact on the 840 households finances, and hence these respondents would have benefited strongly from pursuing resolutions and engaging in advocary amongst fellow consumers.

6.4.1.3 Age Group

The study also finds CEI 2020 scores to vary across respondent age groups - both index and domain scores peak with respondents in their 30s, before showing an accelerated decline towards older age group. While this is in line with similar indices in other countries, the current study finds the gap in Makayaia to be less pronounced, especially when the significantly smaller "0 and above" age zroup io omitted (1.4% of respondents unweighted). La weighted).

Decreasing scores with respondent age are expected, as the introduction of consumer rights as a concept has been relatively recent. Furthermore, older consumers are less likely to be tech-savvy and could face difficulties in accessing the wealth of information online for product purchasing and dispute resolution.

The spread of index and domain scores are shown in Figure 26, where the highest and lowest two scores are labelled (un-bolded figures refer to the less populous 70 and above group).













The gap in index score is -11.3% between the 30-39 age group and those above 70 years old. Omitting the latter, the gap is one of the lowest amongst considered demographic indicators at -52% between the 30-39 age group and the 60-69 age group. Domain-wise, the gap is lowest in the Financial Uteracy domain at -6.5% (with above 70s) and -3.6% (with 60-69), but far wider in Purchasing (11.4% / 6.7%) and Redseng (12.5% / 8.4%).



Figure 27: Gap in subdomain scores between respondents aged 30-39 and aged 60-69

Results at the subdomain-level give a much better view of the origin of the gap in socrefullike deviation and income indicators. In term is socing differences between the younger 30-39 age group and the older 60-69 age group is in the Practice subdomains, with the sception of Financial Diterary (which has very, narrow gaps). Tur-P and Red Precord differences of 11.05 and -12.05 km geneticity, and highlight the main challenges to consume representing the older or outers. Similarly, age of a -7.05 km dec 2 dato provides an indication that knowledge about referss charnels and purchasing-disput resolution is more limited and likely due lock of access to information.

6.4.1.4 Strata

In order to provide a more in-depth discussion, this subsection further divides Strata into Peninsular Malaysia as well as Sabah and Sarawak.

On average, the level of consumer empowerment as measured by the index score is lower in rural areas compared to urban areas, and lower in Sabah and Sarawak compared to Peninsular Malavia.

The spread of index and domain scores are shown in Figure 28, where the highest and lowest scores are labelled.



Figure 28: Index and domain score by strata



Financial Literacy

Purchasing Decision







The disparities in empowerment scores between urban and rural are relatively consistent, but are markedly larger in Sabah and Sarawak compared to Peninsular Malaysia. In Peninsular Malaysia, the gap in scores between urban and rural respondents range between -1.6% to -2.9%, while in Subah and Sarawak, the gap is markedly larger between -2.9% to -4.2%.

The gap in scores is also more noticeable between Peninsular Malaysia and Sabah and Sarawak, where the average urban respondent in Sabah and Sarawak scores lower than the average rural respondent in Peninsular Malaysia, with the exception of Redress.



Figure 29: Gap in subdomain scores between urban areas in Peninsular Malaysia and rural areas in Sabah and Sarawak

Comparing results as shown in Figure 29 at the subdomain-level between the highest-scoring group (Peninsular M. Urban) and the lowest-scoring group (Sabah & Sarawak Rural), the gaps are most evident in the Cognitive subdomain across all three domains – Fin-C has the Largest gap at -20.7%, followed by Purc 2 at -16.0% and Red-C at -14.8%. This could highlight an urgent need to raise commer skills and howedega amongst this group of commers.

Gaps in the Affective suddemain are also relatively significant, with Finch have the largest difference at 7.23. However, this trend disc not operain in the Practice subdomains, where the gaps narrow with Fin-P reversing the trend with +2.3%. This trend is in fact the durancetricit of costumers in Stabah and Sarawala, where unan converse in Stabah and Sarawala loss core core higher than their unan construption in Prenistian Halaysia at -3.7%, and could point to more longer term household budgeting and capacity to save amongst the consumers in Stabah and Sarawala.

6.4.1.5 Ethnicity

There are also significant disparities in score by ethnicity. However, there are also atong drivers from other factors – for example, respondents who are non-Malay Bumiputers from Sabha and Sarawak tend to score lower, but this is more likely due to regional driverit (i.e. the gap in scores between Peninsular Malaysia and Sabah & Sarawak) as seen in the previous section.

The spread of index and domain scores are shown in Figure 30, where the highest and lowest scores are labelled.



Figure 30: Index and domain score by ethnicity











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Between Malay, Chinese and Indian respondents, Malay respondents consistently score higher for both the index and its domains. On the other hand, respondents from the Indian community have the lowest scores among the three, in particular in Purchasing and Redress where the pap is 4.5% and 4.5% respectively. The source of this difference in score is further explored in Figure 31.



Figure 31: Gap in subdomain scores between Malay respondents and Indian respondents

At the tubdomain-level, the largest gap in scores between the highest-scoring Malay community and indian community is in the Pur-P at $\pm 3.3\%$ followed by Fin-P at $\pm 5.4\%$. Within the Referss domain, there are large gaps in both Red-C and Red-P at $\pm 4.5\%$ and $\pm 4.5\%$ respectively, which could point to issues with the community in knowing the available channels for reflexs, and consequently to access them when faced with consumer issues:

6.4.2 State-level Results



Figure 32: CEI 2020 score compared to national average by region

Figure 32 shows that on average, respondents in Peninsular Malaysia (except in northern region) score higher than the respondents in Sabah and Sarawaik. A more detailed view shows significant discrepancies at the state level, as shown in Figure 33.



Figure 33: CEI 2020 score compared to national average by state

Notably, there are large discrepancies between states in Peninsular Malaysia, and an overall comparison of index scores will lead to three groupings – states which score above the national average, states with scores between 0 to -3% of the national average, and states with scores less than -3% compared to the national average.

To simplify the results at the state-level, the states are grouped into their respective regions and the spreads between index and domain scores provided in Figure 34, with the highest and lowest scores highlighted.















Respondents in the Central, South and East Peninsular regions achieve domain and index scores which are relatively consister, and there is a peristent gap between the highest scoring Peninsular region compared to Sabah and Sarawak. The differences in scores are larger in Financial Unterary at -315, Blowed Pa Purchasing Decision at -735, and further narrowing to -5.7% in Redexs, where in the Redress domain all regions score consistently low compared to other domains.



Figure 35: Gap in subdomain scores between central region and Sabah & Sarawak

Comparing results at the subdomain level between the highers scoring central region and Sabhan dis Savaka khow a similar result to the view by strate, where the disparties are concentrated in the Capatitie subdomain with Fin C at 1905, Fun C at 1513 and Red C at 1825. One key difference is the results within the Practice subdomain, where regoonders in Sabhan dis Savaka Kozer higher in Fin P (1.83) and Pure (1.37), while recording a narrow gin Red P (1.03). With the gas in Africe subdomains ranging between -3.25 to -3.35 the ersuits indicate some focus could be warranted to bring consumer kills and knowledge in Sabhan dis Savaka to gar with consumers in the State Vieler.

The following subsections provide more detailed state-level results, and includes a breakdown of scores by demographic profile. However, due to state-level results relying on a substantially smaller subset of samples, and the significant impact of population weights on results within smaller subsets, these results should be used with custon.

6.4.2.1 Perlis

Perlis achieved a total index score of 58.4% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 36.



Flaure 36: Gap in subdomain scores between Perlis and the national average

Between Perlis and the national average, the largest gaps are in the Cognitive subdomain, where the differences range between -13.3% for Red-C and -4.3% for Pur-C. The Practice subdomain has performed well, with Red-P and Fin-P scoring above the national average at +3.3% and +3.0% respectively. while there is small zap in Pur-P at -1.1%.

The results by demographic profile for Perlis are shown in Table 34. However, due to the low sample size for Perlis, a number of demographic categories (age group, ethnicity, education level and household income) will be highly variable. Table 34: Perlis: Index and domain scores by demographic profile (weighted)

Total respondents: 100

* Categories with limited sampling

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress	
Perlis	58.4	57.1	64.9	50.8	
Gender					
Male	59.3	59.1	65.1	51.6	
Female	57.8	55.8	64.8	50.3	
(Max - Min)	1.5	3.3	0.4	1.2	
Age Group*					
18-29	60.5	60.5	64.7	55.0	
30-39	58.8	57.1	67.8	48.7	
40.49	56.6	54.5	64.5	48.2	
50-59	62.3	57.1	68.8	59.0	
60-69	53.1	54.3	60.4	42.2	
> 70	51.0	54.6	59.6	35.8	
(Max – Min)	11.4	6.2	9.2	23.2	
Ethnicity*					
Malay	58.8	57.0	65.4	51.7	
Chinese	54.7	58.7	60.8	42.5	
Indian	58.1	58.2	63.4	50.9	
Other Bumiputera					
Others	56.1	57.9	61.5	47.0	
(Max – Min)	4.1	1.8	4.6	9.2	
Strata					
Urban	58.5	56.9	65.3	51.0	
Bural	58.1	57.6	64.2	50.5	
(Max – Min)	0.4	0.7	1.1	0.5	
Education level*					
No Formal Education	50.8	52.1	57.3	40.8	
UPSR	58.0	57.0	64.8	50.0	
LCE/SRP/PMR	56.7	53.9	64.7	48.7	
MCE/SPM/SPVM/D Level	57.9	57.5	63.9	50.2	
STPM/STP/HSC/A Level	66.8	60.2	74.6	62.8	
Diploma	67.5	64.0	72.3	64.5	
Bachelor's degree	69.7	74,4	72.0	62.0	
Masters/PhD					
Others					
(Max – Min)	19.0	22.3	17.4	23.7	
Household Income					
840	58.4	57.2	65.1	50.7	
M40	56.8	56.1	59.3	54.1	
T20					
(Max - Min)	1.6	1.1	5.8	3.4	

6.4.2.2 Kedah

Kedah achieved a total index score of 58.8% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 37.

	Financial Literacy			Purchasing Decision			Redress		
2.0	Cognitive	Affective	Practice	Cognitive	Affective	Practice	Cognitive	Affective	Practice
.0	National	-			I 28		-	22 =	
.0	1112	-8.4	-335			T ist	2		Kedah
.0	- Andrew								+0.6 -
.0	Kedah						100		National
.0									
0									
.0									
.0									

Figure 37: Gap in subdomain scores between Kedah and the national average

Between Kedah and the national average, the largest gaps are in the Cognitive subdomain, where the differences range between 11.2% for Fin-C and -2.4% for Pur-C. The smallest gaps are in the Practice subdomain, where Red-P is higher than the national average at +0.6%, and range from -5.2% in Pur-P to -0.6% in Fin-P.

The results by demographic profile for Kedah are shown in Table 35.
Table 35: Kedah: Index and domain scores by demographic profile (weighted)

Total respondents: 808

Demographic Profile	Index	Financial	Purchasing	Redress
	JLOIE	Literacy	Decision	
Kedah	58.8	55.1	65.5	53.6
Gender		_		
Male	58.7	55.0	65.6	53.2
Female	59.0	55.2	65.4	54.1
(Max – Min)	0.3	0.2	0.1	0.9
Age Group				
18-29	60.3	55.6	67.3	55.5
30-39	60.0	55.6	66.2	56.1
40-49	58.9	55.6	65.8	53.1
50-59	56.8	53.8	63.6	50.7
60-69	55.6	54.1	61.1	49.8
> 70*	52.5	50.5	60.9	43.2
(Max – Min)	7.8	5.1	6.4	12.9
Ethnicity				
Malay	59.4	55.3	65.9	54.6
Chinese	58.6	56.1	65.6	51.7
Indian	54.7	51.8	61.5	48.4
Other Bumiputera			-	
Others*	49.4	50.2	55.5	40.5
(Max – Min)	10.0	6.0	10.5	14.2
Strata				
Urban	58.9	54.8	65.7	54.1
Rural	58.5	55.9	65.0	52.6
(Max - Min)	0.4	1.1	0.7	1.5
Education level				
No Formal Education	51.8	53.8	56.8	43.3
UPSR	52.6	49.3	59.8	46.3
LCE/SRP/PMR	56.6	52.8	63.1	51.6
MCE/SPM/SPVM/O Level	58.3	54.7	65.8	52.0
STPM/STP/HSC/A Level	64.1	58.8	70.8	60.5
Diploma	64.8	60.1	69.8	62.8
Bachelor's degree	61.6	56.3	67.2	59.5
Masters/PhD*	64.9	66.3	67.2	60.6
Others*	58.4	58.0	61.3	55.1
(Max – Min)	13.1	17.0	14.0	19.5
Household Income				
840	57.8	53.9	64.8	52.2
M40	64.2	61.4	68.8	60.7
T20*	62.7	55.2	69.9	60.6
(Max – Min)	6.4	7.5	5.1	8.5

6.4.2.3 Penang

Penang achieved a total index score of 66.3% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 38.



Flaure 38: Gap in subdomain scores between Penang and the national average

Penang has an edge of the national average for most subdomains, with the Cognitive subdomain being the best-performing ranging from +4.2% for Fin-C to +7.8% in Pur-C. The positive edge is least in the Affective subdomain.

The results by demographic profile for Penang are shown in Table 36.

Table 36: Penang: Index and domain scores by demographic profile (weighted)

Total respondents: 658

Demographic Profile	Index	Financial	Purchasing	Redress
		Liter Berg	Dec.mon	
Penang	66.3	64.7	72.2	60.0
Gender		_		
Male	66.4	65.4	72.4	59.3
Female	66.2	64.0	72.0	60.6
(Max – Min)	0.2	1.3	0.4	1.3
Age Group				
18-29	65.6	63.2	71.4	60.2
30-39	67.7	65.5	73.8	61.8
40-49	68.9	67.2	74.7	62.8
50-59	67.4	65.8	74.1	60.1
60-69	60.7	62.3	66.0	52.2
> 70*	58.1	58.7	64.3	49.1
(Max-Min)	10.8	8.5	10.4	13.8
Ethnicity				
Malay	70.4	69.2	75.8	64.3
Chinese	62.7	60.1	69.7	56.1
Indian	64.9	66.2	68.6	58.6
Other Bumiputera				-
Others				
(Max – Min)	7.6	9.1	7.2	8.2
Strata				
Urban	66.5	65.0	72.5	60.1
Rural*	61.9	59.0	67.0	58.1
(Max – Min)	4.6	6.0	5.4	2.0
Education level				
No Formal Education*	60.0	59.2	63.6	55.9
UPSR	63.0	62.3	67.3	58.1
LCE/SRP/PMR	61.3	61.3	67.5	53.0
MCE/SPM/SPVM/O Level	66.4	64.2	72.8	60.2
STPM/STP/HSC/A Level	69.3	69.0	73.9	63.6
Diploma	70.6	71.4	75.6	63.2
Bachelor's degree	69.9	65.9	74.9	67.1
Masters/PhD*	74.1	79.2	78.1	63.5
Others				
(Max-Min)	14.1	20.0	14.5	14.1
Household Income				
840	66.6	65.1	72.1	60.7
M40	65.7	64.2	72.0	58.9
T20	68.3	65.4	75.0	62.2
(Max - Min)	2.6	1.2	3.1	3.3

6.4.2.4 Perak

Perak achieved a total index score of 60.5% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 39.



Flaure 39: Gap in subdomain scores between Perak and the national average

Compared to the national average, the scores within the Cognitive and Affective subdomains are relatively even, ranging between -2.1% in Pur-C to +1.2% in Pur-A. The gap in scores are most significant in the Practice subdomain, where the gap is largest in Red-P at -12.6%, followed by Fin-P at -6.2% and Pur-P at -2.9%.

The results by demographic profile for Perak are shown in Table 37.

Table 37: Perak: Index and domain scores by demographic profile (weighted)

Total respondents: 1,011

Demographic Profile	Index	Financial	Purchasing	Redress
	30016	Literacy	Decision	
Perak	60.5	61.0	67.4	50.8
Gender				
Male	60.3	61.1	67.1	50.4
Female	60.7	60.9	67.7	51.3
(Max – Min)	0.5	0.2	0.6	0.9
Age Group				
18-29	62.8	62.6	69.5	54.1
30-39	65.3	65.1	72.5	55.8
40-49	59.9	59.8	65.7	50.7
50-59	58.9	60.3	65.7	48.5
60-69	54.8	56.8	62.1	43.1
> 70*	48.5	51.3	54.0	38.5
(Max-Min)	16.8	13.9	18.5	17.3
Ethnicity				
Malay	61.5	62.6	68.8	50.8
Chinese	61.2	61.1	67.4	53.2
Indian	57.8	57.9	65.6	47.4
Other Bumiputera*	41.8	40.8	46.1	37.1
Others				
(Max – Min)	19.7	21.8	22.7	16.2
Strata				
Urban	61.6	62.1	68.5	52.0
Rural	56.8	57.3	64.0	46.8
(Max - Min)	4.8	4.9	4.5	5.2
Education level				
No Formal Education*	50.5	54.6	56.1	39.0
UPSR	53.4	55.9	59.8	42.3
LCE/SRP/PMR	53.8	54.4	60.8	43.9
MCE/SPM/SPVM/O Level	62.5	62.7	69.6	52.8
STPM/STP/HSC/A Level	68.5	66.8	75.1	61.2
Diploma	67.2	66.8	74.1	58.4
Bachelor's degree	65.3	65.6	71.8	56.5
Masters/PhD*	69.7	68.2	73.0	66.7
Others*	52.6	66.4	57.6	32.1
(Max-Min)	19.1	12.7	19.0	34.6
Household Income				
840	58.5	58.9	65.6	48.7
M40	67.0	67.8	73.3	57.8
T20*	72.1	77.5	77.5	59.4
(Max - Min)	13.6	18.7	12.0	10.7

6.4.2.5 Selangor

Selangor achieved a total index score of 66.7% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 40.

	Fina	ncial Litera	ιcγ	Purch	asing Deci	sion		Redress	(
.0	Cognitive	Affective	Practice	Cognitive	Affective	Practice	Cognitive	Affective	Practice
0	Selangor			Taxe				_	
0	120	-		1 1000	- 33			03 -	
.0	100.0	- 580	= +2.0	5		- 103	3		Selango
.0	National						T +6.	- 1	5.8
0							-		National
0									
0									
0									
0									

Figure 40: Gap in subdomain scores between Selangor and the national average

Selangor has an edge of the national average for most subdomains, with the Cognitive subdomain being the best-performing ranging from $\pm 3.3\%$ for Fin-C to $\pm 6.5\%$ in Pur-C. The positive edge is least in the Affective subdomain.

The results by demographic profile for Selangor are shown in Table 38.

Table 38: Selangor: Index and domain scores by demographic profile (weighted)

Total respondents: 2,435

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress
		,		
Selangor	66.7	67.3	71.1	60.3
Gender				
Male	67.0	67.3	71.6	60.7
Female	66.4	67.2	70.6	59.9
(Max – Min)	0.7	0.1	1.0	0.8
Age Group				
18-29	67.5	67.0	71.9	62.1
30-39	67.3	67.4	72.3	60.7
40-49	67.0	68.2	71.0	60.5
50-59	65.6	67.2	69.9	58.2
60-69	62.6	65.8	66.8	53.8
> 70*	65.7	71.9	67.3	57.3
(Max-Min)	4.9	6.1	5.4	8.3
Ethnicity				
Malay	67.0	67.4	71.3	60.9
Chinese	67.9	68.5	72.6	60.9
Indian	62.6	63.6	67.1	55.8
Other Bumiputera*	69.9	71.0	71.9	66.2
Others				
(Max – Min)	7.3	7.4	5.6	10.4
Strata				
Urban	67.1	67.7	71.4	60.7
Rural	61.7	61.7	67.1	54.4
(Max - Min)	5.4	6.0	4.3	6.3
Education level				
No Formal Education*	65.4	67.6	69.7	57.5
UPSR	65.1	67.0	69.3	57.8
LCE/SRP/PMR	64.4	66.1	68.6	57.2
MCE/SPM/SPVM/O Level	66.3	66.2	70.7	60.4
STPM/STP/HSC/A Level	69.2	68.2	73.9	63.9
Diploma	67.0	67.6	71.7	60.2
Bachelor's degree	70.2	73.6	73.9	61.7
Masters/PhD*	69.3	77.4	70.7	59.1
Others*	67.0	81.8	63.3	57.2
(Max – Min)	5.7	15.7	10.7	6.7
Household Income				
840	64.7	65.5	69.1	58.0
M40	67.8	68.0	72.3	61.6
T20*	72.5	75.1	75.6	65.7
(Max - Min)	7.8	9.6	6.4	7.7

6.4.2.6 WP Kuala Lumpur

WP Kuala Lumpur achieved a total index score of 61.9% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 41.



Flaure 41: Gap in subdomain scores between WP Kuala Lumpur and the national average

While WP Kuala Lumpur has scored lower compared to the national average, there are no sizable gaps and the subdomain scores broadly track the national-level scores. The differences are in a tight range between -24% in both Fino[®] C and Purc to 40.7% in Red-C.

The results by demographic profile for WP Kuala Lumpur are shown in Table 39.

Table 39: WP Kuala Lumpur: Index and domain scores by demographic profile (weighted)

Total respondents: 737

Demographic Profile	Index	Financial	Purchasing	Redress
	30016	Literacy	Decision	
WP Kuala Lumpur	61.9	61.0	67.1	55.7
Gender				
Male	62.0	61.2	67.1	55.9
Female	61.8	60.8	67.1	55.6
(Max – Min)	0.2	0.4	0.0	0.2
Age Group				
18-29	62.8	61.1	68.1	57.4
30-39	63.7	62.5	68.9	57.8
40-49	62.8	62.1	67.9	56.8
50-59	59.9	60.9	65.1	52.1
60-69	55.7	56.2	60.8	48.4
> 70*	51.7	53.9	57.0	42.4
(Max – Min)	11.9	8.6	11.9	15.4
Ethnicity				
Malay	64.3	62.3	69.9	58.6
Chinese	61.0	61.1	65.8	54.6
Indian	56.5	55.9	61.9	50.0
Other Bumiputera*	55.2	58.1	59.2	46.8
Others				
(Max – Min)	9.1	6.4	10.7	11.8
Strata				
Urban	61.9	61.0	67.1	55.7
Rural				
(Max – Min)				
Education level				
No Formal Education*	54.8	53.9	63.4	44.4
UPSR	56.6	59.2	60.9	48.3
LCE/SRP/PMR	57.3	57.4	62.7	50.1
MCE/SPM/SPVM/O Level	61.5	60.4	67.0	55.2
STPM/STP/HSC/A Level	60.7	59.7	66.D	54.6
Diploma	69.2	67.6	73.5	65.1
Bachelor's degree	65.6	63.6	70.4	61.1
Masters/PhD*	60.4	67.3	62.0	51.2
Others*	50.0	45.7	55.4	47.1
(Max-Min)	19.2	21.9	18.1	20.7
Household Income				
840	59.6	59.1	65.2	52.6
M40	64.8	63.6	69.4	59.9
T20*	68.4	67.2	73.1	63.2
(Max – Min)	8.8	8.2	7.9	10.5

6.4.2.7 WP Putrajaya

WP Putrajaya achieved a total index score of 66.7% compared to the national average of 63.1%. The comparison of subdomain scores is provided Figure 42:



Figure 42: Gap in subdomain scores between WP Putrajava and the national average

WP Putrajaya has recorded above average scores for most subdomains, with the exception of Fin-A and Fin-P with a gap of -5.3% and -4.3% respectively. The positive edge is largest in the Redress domain, where the advantages range between +5.7% for Red-A to +6.5% for Red-C.

The results by demographic profile for WP Putrajaya are shown in Table 40. However, due to the low sample size for WP Putrajaya, all demographic categories will be highly variable. Table 40: WP Putrajaya: Index and domain scores by demographic profile (weighted)

Total respondents: 51

Demographic Profile	Index	Financial	Purchasing	Redress
	30010	Literacy	Decision	
WP Putrajaya	66.0	62.6	71.5	62.2
Gender*				
Male	65.5	61.8	71.0	61.7
Female	66.5	63.3	71.8	62.6
(Max - Min)	1.0	1.5	0.8	0.9
Age Group*				
18-29	67.1	63.3	71.5	65.1
30-39	65.0	61.1	71.7	60.0
40-49	64.8	64.1	70.0	58.7
50-59	64.9	60.1	72.6	59.5
60-69	65.4	63.7	71.4	59.2
> 70			-	
(Max-Min)	2.3	4.0	2.6	6.4
Ethnicity*				
Malay	66.4	63.1	71.7	62.7
Chinese				
Indian	45.8	38.1	60.8	36.9
Other Ruminutera				
Others				
(Max – Min)	19.6	25.0	10.9	25.8
Strata				
Urban	66.0	62.6	71.5	62.2
Rural			-	
(Max – Min)				
Education level*				
No Formal Education	37.0	45.4	40.5	23.7
UPSR	47.2	46.4	56.5	35.4
LCE/SRP/PMR	62.3	59.9	71.3	52.6
MCE/SPM/SPVM/O Level	65.1	61.4	69.9	62.5
STPM/STP/HSC/A Level	72.9	67.0	78.7	70.9
Diploma	71.9	67.3	76.8	70.0
Bachelor's degree	\$7.9	59.7	67.7	43.0
Masters/PhD	55.7	58.9	60.2	46.4
Others				
(Max – Min)	25.9	21.9	28.2	47.2
Household Income*				
840	58.1	56.7	64.5	51.0
M40	70.6	65.9	75.4	69.0
T20	63.7	61.8	70.6	56.2
(Max – Min)	12.5	9.2	10.9	18.0

6.4.2.8 Negeri Sembilan

Negeri Sembilan achieved a total index score of 65.3% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 43.



Flaure 43: Gap in subdomain scores between Negeri Sembilan and the national average

Negeri Sembilan has recorded above average scores for most subdomains, with the exception of Fin-A and Red-A with a gap of -0.3% and -0.1% respectively. The state recorded high scores in the Practice subdomain, ranging between +3.4% in PU-P to +3.2% in Red-P.

The results by demographic profile for Negeri Sembilan are shown in Table 41.

Table 41: Negeri Sembilan: Index and domain scores by demographic profile (weighted)

Total respondents: 399

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress
Negeri Sembilan	65.5	64.9	70.3	59.0
Gender				
Male	65.9	65.0	70.0	61.2
Female	64.7	64.8	70.5	57.0
(Max – Min)	1.1	0.2	0.5	4.2
Age Group				
18-29	65.3	61.4	70.9	61.6
30-39	67.1	68.6	71.7	59.6
40-49	64.4	65.1	69.4	57.0
50-59	65.5	66.7	58.6	60.1
60-69	64.3	66.1	70.5	54.1
> 70*	59.4	59.5	69.9	45.1
(Max-Min)	7.8	9.2	3.1	16.5
Ethnicity				
Malay	65.0	63.8	70.2	59.3
Chinese	68.0	67.8	72.3	62.5
Indian	61.9	64.0	67.4	52.4
Other Bumiputera*				-
Others				
(Max – Min)	7.8	9.2	3.1	16.5
Strata				
Urban	64.8	65.5	70.2	57.1
Rural	66.6	63.0	70.7	64.8
(Max – Min)	1.8	2.5	0.5	7.7
Education level				
No Formal Education*	65.6	65.0	80.0	47.1
UPSR*	58.3	64.2	64.4	44.3
LCE/SRP/PMR	58.1	61.3	66.5	43.7
MCE/SPM/SPVM/O Level	65.0	64.3	70.1	59.0
STPM/STP/HSC/A Level	67.3	65.0	70.6	65.1
Diploma	68.6	66.8	73.0	64.7
Bachelor's degree	66.4	67.9	69.1	61.3
Masters/PhD*	66.7	64.7	69.9	64.5
Others				
(Max-Min)	10.5	6.6	15.6	21.4
Household Income				
840	62.3	62.3	68.5	54.0
M40	68.0	67.2	72.0	63.4
T20*	67.1	65.9	69.6	65.0
(Max - Min)	5.7	4.9	3.5	11.1

6.4.2.9 Melaka

Melaka achieved a total index score of 62.2% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 44.

	Final	ncial Litera	GY .	Purch	asing Deci	sion		Redress	
5	Cognitive	Affective	Practice	Cognitive	Affective	Practice	Cognitive	Affective	Practice
	Melaka	Turn		T 82	- 10.7			01 -	
	- +0.5		-+0.6			- 23	9		Melaka
2	National						-	-	12 -
5							12.6		Nationa

Flaure 44: Gap in subdomain scores between Melaka and the national average

Compared to the national average, Melaka scores relatively lower in the Cognitive subdomain, with Red-C and Pur-C at +2.6% and -3.2% respectively reducing the overall index score. Performance in the other subdomains are relatively even with the national average, with a positive edge in Fin-A at +6.5%.

The results by demographic profile for Melaka are shown in Table 42.

Table 42: Melaka: Index and domain scores by demographic profile (weighted)

Total respondents: 354

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress
Melaka	62.2	64.9	67.4	52.4
Gender				
Male	63.9	67.3	69.4	53.0
Female	60.5	62.6	65.4	51.8
(Max – Min)	3.4	4.8	4.0	1.2
Age Group				
18-29	63.4	65.9	68.9	53.5
30-39	63.9	66.2	70.1	53.4
40-49	64.8	68.0	69.7	55.2
50-59	58.7	62.6	62.7	49.4
60-69	52.9	56.1	56.7	44.8
> 70*	53.8	56.3	59.2	44.1
(Max-Min)	11.9	11.9	13.4	11.1
Ethnicity				
Malay	61.7	63.6	67.2	52.5
Chinese	65.2	69.8	70.4	53.4
Indian	53.1	56.8	55.6	46.1
Other Bumiputera				-
Others*	56.9	71.4	69.8	25.1
(Max – Min)	12.0	14.6	14.9	28.3
Strata				
Urban	62.2	65.1	67.4	52.3
Rural*	61.2	61.6	67.2	52.9
(Max – Min)	1.0	3.6	0.2	0.6
Education level				
No Formal Education*	37.0	38.3	38.1	34.3
UPSR*	52.6	55.8	56.3	44.4
LCE/SRP/PMR	58.5	62.0	63.8	48.0
MCE/SPM/SPVM/O Level	62.2	64.7	67.7	52.4
STPM/STP/HSC/A Level*	66.7	73.1	69.7	56.3
Diploma	66.3	68.2	72.3	56.5
Bachelor's degree	70.9	73.5	76.4	60.8
Masters/PhD*	54.9	59.1	61.0	42.4
Others				
(Max – Min)	22.9	25.2	28.3	26.5
Household Income				
840	60.7	63.1	66.1	51.2
M40	64.9	67.5	69.8	55.7
T20*	74.5	84.1	79.1	58.6
(Max – Min)	13.7	21.0	13.0	7.4

6.4.2.10 Johor

Johor achieved a total index score of 65.2% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 45.



Flaure 45: Gap in subdomain scores between Johor and the national average

Subdomain scores in Johor are consistently higher than the national average. With the exception of Red-P and Fin-P scoring -3.3% and -2.9% lower than the national score respectively, the rest of the subdomain records higher scores in a tight range between +0.9% and +4.0%.

The results by demographic profile for Johor are shown in Table 43.

Table 43: Johor: Index and domain scores by demographic profile (weighted)

Total respondents: 1,396

Demographic Profile	Index	Financial	Purchasing	Redress
		Liter Berg	Dec.mon	
Johor	65.2	64.8	71.6	57.1
Gender				
Male	64.0	64.1	70.0	55.8
Female	66.4	65.4	73.2	58.3
(Max – Min)	2.4	1.4	3.2	2.5
Age Group				
18-29	65.7	65.2	71.9	57.8
30-39	67.3	65.3	74.1	60.3
40-49	66.9	65.9	73.4	59.1
50-59	63.4	63.7	69.9	54.3
60-69	60.4	62.3	66.5	50.3
> 70	54.2	60.4	58.8	41.9
(Max-Min)	13.1	5.5	15.3	18.4
Ethnicity				
Malay	66.3	65.6	73.3	57.8
Chinese	64.6	64.8	70.0	57.1
Indian	59.1	58.6	65.8	50.5
Other Bumiputera				
Others				
(Max – Min)	7.3	6.9	7.5	7.4
Strata				
Urban	65.1	64.4	71.7	56.9
Rural	65.6	66.1	71.2	57.6
(Max - Min)	0.5	1.7	0.5	0.7
Education level				
No Formal Education	51.3	57.4	55.4	39.8
UPSR	58.1	59.1	64.4	48.5
LCE/SRP/PMR	62.2	62.2	69.5	52.5
MCE/SPM/SPVM/O Level	65.7	64.9	72.1	58.0
STPM/STP/HSC/A Level	67.9	66.7	74.5	60.3
Diploma	69.8	68.7	76.2	62.5
Bachelor's degree	68.7	69.5	74.1	60.8
Masters/PhD*	78.7	77.7	82.0	75.5
Others*	67.0	61.4	78.2	57.8
(Max-Min)	27.4	20.3	26.6	35.7
Household Income				
840	63.3	62.9	70.2	54.5
M40	67.3	66.7	73.3	60.0
T20	67.8	69.3	72.7	59.9
(Max – Min)	4.5	6.4	3.1	5.5

6.4.2.11 Pahang

Pahang achieved a total index score of 64.9% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 46.



Flaure 46: Gap in subdomain scores between Pahang and the national average

Subdomain scores in Pahang are consistently higher than the national average. With the exception of Red-P and Fin-P scoring -2.4% and -6.1% lower than the national score respectively, the rest of the subdomain records higher scores in a tight range between +0.4% and 45.3%.

The results by demographic profile for Pahang are shown in Table 44.

Table 44: Pahang: Index and domain scores by demographic profile (weighted)

Total respondents: 617

Demographic Profile	Index	Financial	Purchasing	Redress
		Liter Berg		
Pahang	64.9	63.8	72.7	55.5
Gender				
Male	65.7	65.0	73.8	55.8
Female	64.1	62.7	71.7	55.2
(Max – Min)	1.7	2.3	2.1	0.6
Age Group				
18-29	67.2	65.6	74.9	58.6
30-39	66.8	63.8	75.2	58.7
40-49	64.0	64.3	71.3	54.0
50-59	64.6	64.4	72.4	54.3
60-69	55.9	57.2	63.7	44.2
> 70*	57.1	57.2	66.3	44.8
(Max – Min)	11.3	8.4	11.5	14.4
Ethnicity				
Malay	66.4	64.4	74.5	57.4
Chinese	59.8	62.3	65.7	49.5
Indian*	60.1	60.0	69.4	47.8
Other Bumiputera				-
Others				
(Max – Min)	6.6	4.5	8.9	9.6
Strata				
Urban	64.7	63.5	72.2	56.0
Rural	65.1	64.3	73.6	54.7
(Max – Min)	0.4	0.8	1.4	1.3
Education level				
No Formal Education*	56.0	56.7	63.9	44.8
UPSR	55.9	56.4	63.0	46.0
LCE/SRP/PMR	62.2	62.4	70.2	51.3
MCE/SPM/SPVM/O Level	66.0	64.1	74.1	57.2
STPM/STP/HSC/A Level	70.4	68.7	78.3	61.4
Diploma	68.0	67.4	74.8	59.5
Bachelor's degree	70.1	69.4	79.8	57.8
Masters/PhD*	81.2	74.8	87.8	79.0
Others*	75.9	74.5	75.5	77.8
(Max-Min)	25.3	18.4	24.8	34.2
Household Income				
840	64.3	62.6	72.3	55.2
M40	66.6	67.3	73.4	56.8
T20*	73.7	77.2	85.5	54.4
(Max – Min)	9.4	14.6	13.2	2.4

6.4.2.12 Terengganu

Terengganu achieved a total index score of 68.8% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 47.

	Finar	ncial Litera	ΩY .	Purch	asing Deci	sion		Redress	
.0	Cognitive	Affective	Practice	Cognitive	Affective	Practice	Cognitive	Affective	Practice
0	Terengganu			- 200				- 10	
0	Turn	27.9		1 100	144.6	1 153	5	Te	renerativ
0	90.3		T 153			-	-		
0	TER LOCAL						+10.2	1	43 <u> </u>
.0							-		National
0									
.0									
0									
0									

Flaure 47: Gap in subdomain scores between Terenaganu and the national average

Terengganu has achieved one of the highest index scores in the country, and at the subdomain level it consistently outperforms the national average. The difference is largest in the Cognitive subdomain, where it ranges from +3.7% in Pur-C to +10.2% in Red-C.

The results by demographic profile for Terengganu are shown in Table 45.

Table 45: Terenaganu: Index and domain scores by demographic profile (weighted)

Total respondents: 471

Demographic Profile	Index	Financial	Purchasing	Redress
	Score	Literacy	Decision	
Terengganu	68.8	69.0	73.5	62.4
Gender				
Male	69.5	70.4	74.0	62.7
Female	68.2	67.7	73.1	62.1
(Max – Min)	1.4	2.8	0.9	0.6
Age Group				
18-29	69.1	68.9	73.8	63.1
30-39	69.1	69.2	73.5	63.1
40-49	69.3	69.3	73.7	63.3
50-59	69.4	70.8	74.6	61.1
60-69	66.6	67.1	71.5	59.6
> 70*	58.5	59.8	67.3	45.5
(Max - Min)	10.9	11.0	7.3	17.8
Ethnicity				
Malay	68.8	68.9	73.4	62.5
Chinese*	70.2	72.6	76.7	59.0
Indian				
Other Bumiputera			-	-
Others			-	
(Max – Min)	1.4	3.7	3.2	3.5
Strata				
Urban	68.7	68.8	73.7	61.8
Rural	69.2	69.5	73.2	63.6
(Max – Min)	0.5	0.6	0.5	1.7
Education level				
No Formal Education*	51.2	48.9	59.3	42.6
UPSR*	67.2	67.2	74.7	57.2
LCE/SRP/PMR*	67.0	66.9	74.0	57.8
MCE/SPM/SPVM/O Level	67.9	68.0	72.1	62.2
STPM/STP/HSC/A Level*	67.6	70.8	71.7	58.8
Diploma	72.4	73.0	77.7	64.6
Bachelor's degree	73.3	72.7	77.8	68.1
Masters/PhD*	73.6	85.0	76.8	58.1
Others*	75.4	73.5	80.2	71.0
(Max – Min)	24.3	36.0	20.9	28.4
Household Income				
840	67.6	67.9	72.9	60.2
M40	71.5	71.4	75.0	67.0
T20*	66.6	67.5	70.2	61.1
(Max - Min)	4.9	4.0	4.8	6.8

6.4.2.13 Kelantan

Kelantan achieved a total index score of 61.8% compared to compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 48.



Flaure 48: Gap in subdomain scores between Kelantan and the national average

Scores in Kelantan have been dragged lower by the Practice subdomain under Redress, where the gap is a wide -11.5% compared to the national average. Other subdomains score consistently close to the national average, ranging between -2.5% to +1.9%.

The results by demographic profile for Kelantan are shown in Table 46.

Table 46: Kelantan: Index and domain scores by demographic profile (weighted)

Total respondents: 715

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress
Kelantan	61.8	63.0	68.4	51.7
Gender				
Male	62.0	63.5	68.0	52.5
Female	61.6	62.5	68.9	50.8
(Max – Min)	0.4	1.0	0.9	1.7
Age Group				
18-29	63.2	62.5	70.7	53.8
30-39	65.8	66.0	72.6	56.5
40-49	61.3	62.8	67.2	51.9
50-59	61.4	64.9	67.7	49.4
60-69	53.3	56.8	59.2	41.9
> 70*	53.7	62.3	60.0	36.6
(Max – Min)	12.5	9.2	13.4	19.9
Ethnicity				
Malay	61.8	63.1	68.6	51.4
Chinese*	61.8	60.8	65.8	57.4
Indian*	53.2	54.7	57.5	46.0
Other Bumiputera				
Others				
(Max – Min)	8.6	8.4	11.1	11.4
Strata				
Urban	62.7	63.3	69.4	53.0
Rural	60.8	62.6	67.4	50.2
(Max – Min)	1.8	0.7	1.9	2.8
Education level				
No Formal Education*	47.0	52.3	54.2	32.1
UPSR	52.4	57.5	59.9	37.5
LCE/SRP/PMR	\$7.6	60.6	65.5	44.1
MCE/SPM/SPVM/O Level	63.7	64.3	70.1	54.5
STPM/STP/HSC/A Level	60.6	62.3	57.2	50.2
Diploma	63.1	62.1	69.2	56.1
Bachelor's degree	69.7	70.0	76.8	60.0
Masters/PhD*	75.3	81.9	77.2	66.0
Others*	71.0	60.0	80.0	70.0
(Max – Min)	28.3	29.6	25.8	37.8
Household Income				
840	61.4	62.8	68.2	50.9
M40	63.9	64.5	69.4	56.2
T20*	63.0	60.9	71.2	54.1
(Max - Min)	2.6	3.5	2.9	5.3

6.4.2.14 Sabah

Sabah achieved a total index score of 59.0% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 49.

	Fina	ncial Litera	icy .	Purch	asing Decis	sion		Redress	
1.0	Cognitive	Affective	Practice	Cognitive	Affective	Practice	Cognitive	Affective	Practice
0.1	National	Tas	Test	-	IN	I 100	5	37 1	Sabah
.0	13.1	1 93	-	-					+62
0	Sabab						100		National
							-		
.0									
.0									
.0									

Figure 49: Gap in subdomain scores between Sabah and the national average

The profile of subdomain scores in Sbahn is significantly different compared to the national average, where there are large average, in scores from -1315 in Fin-P. In general, Pactice subdomains score higher compared to the average, between 425 in Pa-P. to 4-5 Xi in Ref 2-4 definition of the second of

The results by demographic profile for Sabah are shown in Table 47.

Table 47: Sabah: Index and domain scores by demographic profile (weighted)

Total respondents: 1,404

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress	
P.4.4					
Saban	39.0	37.2	03.0	34.0	
Gender					
Male	58.9	57.5	63.5	54.0	
Female	59.1	57.0	63.6	55.1	
(Max – Min)	0.2	0.5	0.1	1.0	
Age Group					
18-29	58.6	56.4	63.4	54.3	
30-39	60.3	58.2	65.3	55.9	
40-49	58.4	57.0	62.4	54.3	
50-59	58.8	57.1	63.5	54.4	
60-69	58.8	60.2	62.0	53.2	
> 70*	48.9	49.5	51.3	45.1	
(Max – Min)	11.4	10.7	14.0	10.7	
Ethnicity					
Malay	54.6	53.6	57.9	51.1	
Chinese	59.2	58.6	64.1	53.4	
Indian*	57.7	53.4	61.7	56.8	
Other Bumiputera	59.4	57.3	64.1	55.1	
Others	59.4	58.7	62.7	55.8	
(Max – Min)	4.8	5.3	6.2	5.7	
Strata					
Urban	59.9	58.6	64.3	55.5	
Rural	57.0	54.6	62.1	52.7	
(Max - Min)	2.9	4.0	2.2	2.9	
Education level					
No Formal Education	52.2	49.7	55.7	49.9	
UPSR	56.0	51.5	60.3	54.8	
LCE/SRP/PMR	56.7	56.2	60.9	51.5	
MCE/SPM/SPVM/O Level	60.3	58.9	65.1	55.3	
STPM/STP/HSC/A Level	59.7	57.6	63.9	56.1	
Diploma	59.3	56.4	64.6	55.1	
Bachelor's degree	65.9	65.0	70.7	60.3	
Masters/PhD*	54.9	41.0	64.6	56.1	
Others*	56.4	54.8	61.2	51.5	
(Max-Min)	13.7	24.0	15.0	10.4	
Household Income					
840	57.4	54.9	61.9	53.9	
M40	64.2	65.1	69.1	56.7	
T20*	68.5	70.2	73.1	60.6	
(Max – Min)	11.1	15.3	11.2	6.8	

6.4.2.15 WP Labuan

WP Labuan achieved a total index score of 61.2% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 50.



Figure 50: Gap in subdomain scores between WP Labuan and the national average

Compared to the national average, there are noticeable contrasts in the subdomain scoring profiles. Cognitive subdomains in particular, score markedly lower with Fin-C at -23.9%, Pur-C at -23.9% and Red-C at -19.0%. Conversely, Practice subdomains are higher by almost the same quantum, at 43.3 % for Red-P, =23.0% for Fin-P and +22.1% for Pur-P.

The results by demographic profile for WP Labuan are shown in Table 48. However, due to the low sample size for WP Labuan, all demographic categories will be highly variable. Table 48: WP Labuan: Index and domain scores by demographic profile (weighted)

Total respondents: 52

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress	
WP Labuan	61.2	54.5	65.0	62.9	
Gender*					
Male	67.4	56.1	66.1	63.8	
Famala	60.1	53.0	63.0	62.0	
(Max = Min)	2.8	3.1	2.2	17	
Are Group*		2.1		2.17	
18.70	61.9	55.0	65.3	64.3	
30.39	63.2	55.1	68.9	63.7	
40.49	58.9	54.1	61.1	60.7	
50.59	59.4	54.2	61.0	61.2	
60.69	56.6	48.7	61.9	57.5	
> 70			01.5	5115	
(Max - Min)	6.6	6.4	7.8	6.8	
Ethnicity*		0.4	1.0	0.0	
Malay	61.5	58.5	67.0	63.9	
Chinese	\$ 22	49.2	58.3	58.9	
Indian	68.2	82.1	61.8	62.7	
Other Bumiputera	60.7	52.0	65.3	63.2	
Others	63.4	58.4	66.8	63.9	
(Max - Min)	12.4	32.8	8.6	5.0	
Strata					
Urban	61.2	54.5	65.0	62.9	
Bural					
(Max - Min)					
Education level*					
No Formal Education	60.9	52.6	65.2	63.6	
UPSB	59.1	51.4	62.2	62.8	
LCE/SRP/PMR	54.6	44.3	60.0	57.7	
MCF/SPM/SPVM/O Level	60.7	53.7	64.4	62.8	
STPM/STP/HSC/A Level	61.3	54.8	54.4	63.8	
Dioloma	67.4	65.5	71.9	63.3	
Bachelor's degree	70.6	68.1	71.9	71.3	
Masters/PhD			-		
Others					
(Max-Min)	16.0	23.8	11.9	13.6	
Household Income*					
B40	59.5	51.8	63.1	62.2	
M40	71.1	69.6	75.5	66.8	
T20					
(Max - Min)	11.7	17.8	12.4	4.6	

6.4.2.16 Sarawak

Sarawak achieved a total index score of 58.1% compared to the national average of 63.1%. The comparison of subdomain scores is provided in Figure 51.



Figure 51: Gap in subdomain scores between Sarawak and the national average

Compared to the national score, the scores in Sarawak for the Cognitive subdomains are significantly lower, with fin-C at -11.0%, followed by Pur-C at -9.4% and Red-C at -9.0%. The other subdomains score consistently lower compared to the average, ranging between -4.4% in Fin-A to -1.6% in Pur-P.

The results by demographic profile for Sarawak are shown in Table 49.

Table 49: Sarawak: Index and domain scores by demographic profile (weighted)

Total respondents: 1,274

Demographic Profile	Index Score	Financial Literacy	Purchasing Decision	Redress	
Sarawak	58.1	56.2	63.8	52.3	
Gender					
Male	58.5	56.5	63.9	52.4	
Famala	57.7	55.9	63.8	51.5	
(Max-Min)	0.8	0.6	0.1	2.0	
Age Group					
18-29	58.2	56.2	64.2	52.0	
30-39	57.9	56.1	64.2	51.4	
40-49	59.4	57.6	64.9	53.8	
\$0-59	2.92	56.0	63.2	54.7	
60-69	56.6	54.8	61.5	51.9	
> 70*	42.9	43.4	46.3	37.9	
(Max - Min)	16.5	14.2	18.6	16.8	
Ethnicity					
Malay	60.6	58.4	66.8	54.7	
Chinese	64.1	62.0	69.6	58.9	
Indian*	78.1	79.2	81.9	72.1	
Other Bumiputera	53.7	52.0	59.4	47.7	
Others*	62.5	60.1	68.2	57.4	
(Max – Min)	24.5	27.2	22.5	24.4	
Strata					
Urban	59.7	57.7	65.3	54.2	
Rural	55.6	53.8	61.6	49.4	
(Max – Min)	4.1	3.9	3.6	4.8	
Education level					
No Formal Education	44.8	42.0	50.1	40.6	
UPSR	51.3	49.2	56.0	47.0	
LCE/SRP/PMR	57.3	55.8	62.8	51.3	
MCE/SPM/SPVM/O Level	58.9	57.0	65.4	52.1	
STPM/STP/HSC/A Level	59.7	58.9	64.1	54.7	
Diploma	62.4	59.4	67.3	58.6	
Bachelor's degree	67.2	65.4	71.7	62.9	
Masters/PhD*	63.0	61.8	65.5	61.0	
Others*	56.4	50.6	58.9	58.9	
(Max – Min)	22.4	23.4	21.6	22.3	
Household Income					
840	55.5	53.5	51.8	49.1	
M40	69.6	68.0	73.0	66.7	
T20*	66.7	66.5	69.1	63.7	
(Max – Min)	14.1	14.5	11.2	17.6	

6.5 Consumer Environment

The Consumer Environment considers the context and circumstances around the individual consumer, and adds a complementing perspective to the empowerment scores measured by the index.

This separate measure is driven by the understanding that the Consumer Environment can often act as a constraint, where the individual's consumer skills and knowledge are made relevant by market factors. For example, there is no room for decision-making when the product thoice is limited to a single option, especially if it is a basic necessity (this scenario occurs relatively frequently in rural areas).

6.5.1 Methodology

For this study, Consumer Environment is mainly profiled through five lenses, and each respondent is asked to rate their level of agreement towards statements on these five aspects, as detailed in Table 50.

Element	Abbreviation	Statement		
Affordability of basic necessities	Affordability	I do not struggle to afford basic necessities.		
Sufficient product choices for basic necessities	Choices	 I have enough product choices when shopping for basic necessities. 		
Access to information (to make purchasing decisions)	Information	 I am able to find enough information to make an informed buying decision. 		
Awareness and accessibility of consumer channels	Channels	I am aware of all the channels to make consumer complaints in Malaysia. I think government channels for consumer complaints are accessible.		
Able to resolve issues with purchases	Resolution	 If I encounter a problem with my purchase, am generally able to resolve it. 		

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Respondents are provided four options ranging from "Strongly Disagree" to "Strongly Agree" to signal their level of agreement with the statements. In the interest of providing a more succinct representation of the results, these options are converted into numerical scores, as follows in Table 51.

Option	Value
Strongly Agree	+ 1.0
Agree	+ 0.5
Disagree	- 0.5
Strongly Disagree	- 1.0

Table 51: Conversion of level of agreement to numerical value

Using the above map, the score for each element ranges from -1.0 to 1.0, with 0.0 denoting parity where there is an approximately equal level of sentiment agreeing and disagreeing with the statement. As the Consumer Environment scores are meant to be a supplementary measure and an indicative result, no normalization is applied to the conversion map.

As the Consumer Environment is more relevant to households than individuals (especially in the context of affordability), in calculating the results, a separate set of population weights are applied. These are based on estimated state and strata Malaysian household numbers, provided by Department of Statistics Malaysia (DOSM). The figures were compared against the achieved sameles within the study and applied a post-stratification weights.

6.5.2 National-Level Results

The Consumer Environment is generally viewed as favourable in Malaysia, where scores for all five elements are larger than zero, denoting a net positive sentiment.

Overall, Malaysian consumers feel that basic necessities are affordable (0.44) and there are sufficient choices (0.52). They are less positive about redress channels (0.21) but generally feel that if they do encounter issue with their purchases, they are able to resolve it (0.47). The scores are shown in Figure 52.



Figure 52: Consumer Environment in Malaysia

The breakdown of scores at the national level is provided in Table 52, and further elaborated in the following subscitons. As Consumer functionment is understoad at the household level, the breakdown hy gender is excluded (the results also show almost no variation, between understoad at how a single state of the second state of the single states of the states of the household, while education is encluded as it is an individual-level profile.

Demographic Profile	Affordability	Choices	Information	Channels	Resolution
Age Group					
18-29	0.46	0.52	0.50	0.24	0.49
30-39	0.42	0.53	0.49	0.23	0.49
40-49	0.44	0.52	0.50	0.24	0.49
50-59	0.43	0.53	0.47	0.18	0.46
60-69	0.39	0.47	0.34	0.09	0.40
> 70	0.28	0.34	0.27	-0.02	0.31
Ethnicity					
Malay	0.49	0.55	0.50	0.31	0.50
Chinese	0.36	0.49	0.45	-0.01	0.45
Indian	0.41	0.49	0.44	0.19	0.47
Other Bumiputera	0.34	0.43	0.40	0.27	0.40
Others	0.37	0.40	0.41	0.31	0.44
Strata					
Urban	0.45	0.53	0.48	0.21	0.49
Rural	0.39	0.47	0.43	0.22	0.43
Household Income					
840 (RM 4.000 and below)	0.39	0.50	0.45	0.21	0.45
M40 (RM4.001 - RM10.000)	0.50	0.55	0.52	0.21	0.51
T20 (RM10.001 and above)	0.57	0.60	0.56	0.15	0.58
Score Categorization					
Vulnerable	-0.15	-0.10	-0.17	-0.30	-0.16
Low	0.19	0.29	0.21	0.06	0.22
Moderate	0.41	0.49	0.45	0.19	0.46
High	0.56	0.63	0.60	0.32	0.59
Very High	0.68	0.77	0.74	0.48	0.78
State					
Perlis	0.31	0.31	0.41	0.30	0.31
Kedah	0.51	0.53	0.53	0.49	0.54
Penang	0.44	0.51	0.48	0.04	0.52
Perak	0.42	0.55	0.42	-0.12	0.44
Selanene	0.51	0.55	0.51	0.28	0.51
WP Kuala Lumour	0.34	0.47	0.45	0.16	0.42
WP Putralaya	0.42	0.49	0.42	0.28	0.49
Negeri Sembilan	0.52	0.56	0.51	0.27	0.53
Melaka	0.38	0.51	0.38	0.01	0.44
Johor	0.43	0.54	0.50	0.22	0.48
Pahang	0.38	0.58	0.55	0.23	0.52
Terengganu	0.55	0.60	0.59	0.48	0.55
Kelantan	0.46	0.53	0.39	0.27	0.47
Sabah	0.36	0.40	0.39	0.30	0.39
WP Labuan	0.62	0.60	0.57	0.62	0.60
Carawak	0.21	0.43	0.42	0.09	0.29

Table 52: Consumer Environment scores by demographic profile

6.5.3 Key Demographic Indicators

6.5.3.1 Age Group

At the national level, consumers between 18-59 years of age have generally positive sentiments about the Consumer Environment. The differences in their scores compared to the national average are shown below in Figure 53.



Figure 53: Difference compared to national average by age group

In particular, the younger group (18-29 years) have a more positive sentiment compared to the national average, ranging from between +0.004 in Choices to +0.026 in Affordability and 4030 in Channels. The better sentiment for affordability could be due to these household being on average, young or single households. The other age groups up to 59 years of age also score relatively close to the national average. Nowever, sentiment noticiably falls off pars 60 years of age, where a stable gap in numerical scores develop by tales an order of majoritude. Teve amounts the relatively apped 6-06 age group, scores are significantly lower, ranging from -0.136 in access to information to -0.055 to valiability of groups to choices. This could indicate assess with the Consume T borrowment to as combination of information bottlenecks and suitable products for older consumers for these age roups.

6.5.3.2 Strata

The strata section will further divide the rural-urban classification between Peninsular Malaysia and Sabah and Sarawak to provide a more meaningful discussion. The differences in scores are provided below in Figure 54.



Figure 54: Difference compared to national average by strata

Sentiment on the Consumer Environment broadly follows trends in the index score, where Peninsular Malaysia respondents score relatively close to the national average regardless of whether they are from urban or rural areas (ranging between -0.012 to +0.024), but respondents in Sabah and Sarawak generally have less positive scores.

Rural respondents in Sabah and Sarawak in particular, indicate that they have more difficulty affording basic necessities (-0.143) and have less access to choices (-0.125). Despite sentiment on redress channels close to the average, they are likely to feel less able to access information (-0.103) and less able to resolve a problem with their purchases (-0.133). These results could underscore the need to improve access to basic necessities for rural communities in Sabah and Sarawak, as well as improve accessibility for resolving disputes.

6.5.3.3 Ethnicity

At the national level, Malay consumers tend to have a more favourable view about the Consumer Environment. The differences in the scores by ethnicity compared to the national average are shown below in Figure 55.

	Affordability	Choices	Information	Channels	Resolution
Malay	+0.050	+0.030	-0.025	+0.097	+0.025
	Affordability	Choices	Information	Channels	Resolution
Chinese	-0.072	-0.029	0.024	-0.220	-0.027
	Affordability	Choices	Information	Channels	Resolution
Indian	-0.022	-0.025	4.053	0.020	-0.008
	Affordability	Choices	Information	Chennels =0.139	Resolution
Bumiputera Sabah	-0.010	-0.052	4.053		-0.024
	Affordability	Choices	Information	Channels	Resolution
Bumiputera Sarawak		-	410	-0.365	-

Figure 55: Difference compared to national average by ethnicity

In line with their index scores, Malay respondents generally have more positive sentiments about the Consumer Environment, in particular in Channels (+0.097), where only Bumiputera Sabah (+0.139) has a hinker score.

Notably, while Chinese respondents had index scores close to the Malay respondents, their views on the Consumer Environment are significantly worse, in particular for Channels (-
0.220). Respondents from the Indian community have scores which are generally close to the national average.

For Bumiputera Sarawak respondents, the key issue appears to be affordability of basic necessities at -0.228. In line with their index scores, other elements within Consumer Environment also come below the national average, with the exception of Channels at -0.065.

6.5.3.4 Income Group

The differences in Consumer Environment scores between groups classified by income group are generally expected. The breakdown in differences is given below in Figure 56.



Figure 56: Difference compared to national average by income group

In particular in Affordability and Choice, elements, the tends, are espected – higher income basededs are less lessle for have itsues. There a lais one environmention in access to information, where 120 households generally have a much more possible sentiment (+0.088 compared to 450 households (-020). While differences in Channels scores are relatively micro with all three categories achieving relatively close results, 120 households or significantly more information in the post of the post of the post to higher level of mechanic thics for higher-end product chaless. The challenge will be to replicate this level of efficis at all term of postor transas.

6.5.3.5 Consumer Empowerment Score

This section shows the Consumer Environment results based on the achieved index scores of the respondents. The differences in scores compared to the national average are provided below in Figure 57.



Figure 57: Difference compared to national average by index score classification

The Consumer Environment results are generally in line with expectations - individuals with low level of consumer environment levels to find the counter environment to be more challenging, due to a lower level of consumer skills, individuals with the environment. However, the Altrotability and Choices elements remain concerning, as these terms are related to basis necessities, and the gain is score for Vulnerable and toxis scores are .0556/.0631 and .0327. Logarities, and the gain is score for Vulnerable and toxis scores are .0556/.0631 and .0327. Bigenteement's application is that all consumers should have good and affordable access to basis necessities.

6.5.3.6 Region - North

In terms of the Consumer Environment scores, the Northern states collectively are ranked fourth among the four regions in Peninsular Malaysia. The differences in scores compared to the national average are provided below in Figure 58.



Figure 58: Difference compared to national average by region - North

Individually, there is some degree of variation between states – Perlis and Kedah for example, have Channels scores which are much higher than the national average, with Kedah having the second highest score for Channels in Malaysia, and Perlis with its relatively close proximity to urban controls in Kedah could be a beneficiary. Apart from Channeli, consumer environment scores for Perlis res significantly lower than the national average. Penang and Penal, while scoring relatively close to the national average, have much larger gaps in the Channels score at 0.177 and 0.308 respectively.

6.5.3.7 Region - Central

In terms of the Consumer Environment scores, the Central states collectively are ranked second among the four regions in Peninsular Malaysia. The differences in scores compared to the national average are provided below in Figure 59.



Figure 59: Difference compared to national average by region - Central

On average, Selanger consistently outgeform the national score in all elements of the Commer Environment, where the performance is strongers in precieved allocatability of basis necessite, relative to their incomes. Nowever, despite the geographical proximity, respondents in WP valua (sumprivi indicate that alforchablic) is an issue, and could highlight challenger annorst the urban poor. WP Putrajary, while recording one of the highest consumer empowerment scores, do not set the performance translated into the consumer environment, with the exception of the Channels element where awareness and accessibility to those channels are regarded as above the national average.

6.5.3.8 Region - South

In terms of the Consumer Environment scores, the Southern states collectively are ranked third among the four regions in Peninsular Malaysia. The differences in scores compared to the national average are provided below in Figure 60.



Flaure 60: Difference compared to national average by region - South

At the state level, scores for Johor are relatively close to the national average. However, perception of the Consumer Environment in Melakis is markedly less than the national average, where respondents indicate more difficulty in accessing channels (-0.199) and getting access to information (-0.095). Negeri Semblian on the hand, record higher scores, with best results in Afrodability at +0.084 and access to channels 4 +0.039.



















































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EB: AFFECTIVE / EB: AFEKTIF

On a scale of 1 to 4, where 1 stands for strongly disagree and 4 stands for strongly agree, how would you rate each of the following statements?

Dari skala 1 hingga 4, di mana 1 bermaksud sangat tidak setuju dan 4 bermaksud sangat setuju, bagaimana anda annilai cernuntaan wana berikut?

	1 Strongly Disagree Songot tidok artujo	2 Disagree Tidak setuju	3 Agree Setuju	4 Strongly Agree Sangat setuju
EB1. As a consumer, I feel well protected by the consumer laws. Setboard peopguna, saya rasa difindungi oleh undarg-undarg peogguna.	1	2	3	4
EB2. In general, I feel the industry protects consumer rights. Pode unummya, saya rasa hak saya sebagai pengguna dilindungi oleh penusahaan.	1	2	3	4
EB3. Ethnik it is my right to receive appropriate composition on the loss if them is defect and/or faulty on the product and/or service during its warrantp period. Sayor area is a defail halt vayor untuk meterima perspectory and prevalement jike terelopat lecocates derivative kernesitem podor produkt den/tatu penthistmaten serear torgen imman.	1	2	3	4
EB4. I am firm in requesting for an exchange and/or refund if I am entitled to it. Soyo bertegor merninto pertukaran dan/atou gand rugi sekiro ini adalah hak soyo sebagai persoana jarre.	1	2	1	4
EBS. I think it is important to advocate consumer rights to my fitiends and families. Supo begrandlengoe is adularh peeting untuk menyebankan advokasi hak pengguna kepada rakan-rakan den ahli-ahli keluanga sano.	1	2	3	4
EBG. I think it is important to give moless of the experiences I have with a seller and/or service provider. Says burgandengon is adaleh penting untuk memberkina, ulsson tentang pengalaman saya dengan penyal den/atau pembelal perkildimatan.	1	2	3	4
EB7. I think it is important to make a report if I get cheated or scammed. Soyo berpandongon to adalah penting untuk membuat Japanen jika soya ditipu.	1	2	3	4
EBR. I think it is important to take sellers and/or service provident to the court over unathical practices. Soyo burptendengen is adaleh penting untuk membow pentjual davlatou pentekial perkindinatan ke mehiamah atas amalan tidak benefaka.	1	2	3	4

On a scale of 1 to 5, where 1 stands for never and 5 stands for always, how would you rate the following statement?

Dari skala 1 hingga 5, di mana 1 bermaksud tidak pernah dan 5 bermaksud sentiasa, bagaimana anda menilai persentaan wata berkat?

	1 Never Tidak pernah	2 Rarely	3 Sometimes Kadang-kala	4 Often Kerop	5 Alweys Sentions
EBS. I think it is important for me to file a complaint about a misleading adventise- ment. Says berpandangen is adalah penting untuk membarat adaan atas sesuatu ikkin yang mengehrukan.	ı	z	3	4	5

EC: ACTION / EC: TINDAKAN

On a scale of 1 to 5, where 1 stands for never and 5 stands for always, how would you rate the following statement?

Dari skala 1 hingga 5, di mana 1 bermaksud tidak pernah dan 5 bermaksud sentiasa, bagaimana anda menilal perswataan yana berlaut?

	1 Never	2 Rarely	3 Sometimes	4 Often	5 Abways
	Tidak pernah	Jorong	Kadong- kela	Kerop	Sentiasa
EEL If the selfer refuses to exchange my purchase even though the product is defective (within the warranty period), i will file a complaint to consumer related institution. <i>Nan perput listick main membars produk</i> stops waksopun resuk (datam tempoh jonisho), soga akan membars adam kepada bederbedara pengyana.	1	2	3	4	5
EC2. I will follow-up with the complaint that I have made with the collex where it no action is taken within a certain period of time. Soyu alkan mentuut pangalan socian tentong status advan dengen period dialem taken jake toole tiredaken akambil dialem tempeh mase trestmis.	1	2	3	4	5
ECJ. I will a file a complaint if I think I am unfairly charged (e.g. mobile plan, etc). Soyo akon membaos abuon sekinanya dikanokan caji tidak adal (contah: pelam mudeh obh don ford-tain).	1	2	3	4	5
EGL I share information about bad purchasing experiences with others. Soyo berkengal pengelaman pembelion yang basak dengan arang Jain.	1	2	3	4	5
ECS. I leave reviews for my online purchases. Soyo memberi uloson untuk pembelion dolom talion soyo.	1	2	3	4	5
EG6. I an willing to use a proper channel to file a complaint against an unethical business regardless of the price of the product. Sayo benedia menggunakan salaran yang betal untuk menduan tarinadap	1	2	3	4	5

perniagaan yang tidak beretika tanpa mengika hanga produk yang dibelikan.					
ECr. If a company or a selfer is selfing a product at an unreasonable rist, a will share the information with my family and friends and boycet the company or selfer. Selfuring organize status period menjual researce product pade longs yong tible munostobic says also membershafu affin ahil Jeloarge dan kasam-kawa saya dan memberbar yumita status period fransitor.	1	z	3	4	5

SECTION F

 How can KPDNHEP improve their handling of complaints and channels for redress (e.g. e-aduan)? "Redress" covers remedy, compensation and repayment.
Bogalmana phick KPDNHEP bolch membantu menambah baik proces pembelearn bagi pengguna (contah:

e-aduan)? "Pembelaan" meranakumi pemulihan, pampasan dan bayaran semula.

- How can consumer education programmes be improved? Bogoimanokah progam Pendidikan konsumer boleh diperbolikian logi?
- In which areas the current laws and regulations are lacking in protecting consumers? Podo pandangan andia, apakah kekunangan terhadap undang undang yong sedia ada untuk menjaga kak pengguna?

Appendix 4: Statistical Analysis of the Pilot Study

Financial Literacy Domain

Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
CA1	The same products cost more due to high inflation, compared with few years ago (before inflation).	0.743	0.438	-1.119	-0.756
CA2	Which of the following represents the best interest rate if you were taking a RM 300,000 fixed-rate mortgage of 30 years?	0.447	0.498	0.216	-1.972
CA3	For a 10-year loan, flat interest rate is lower than a reducing principal rate (monthly rest).	0.238	0.427	1.240	-0.466
CA4	Suppose you put RM 100 in the bank at an interest rate of 10% per year. Will you receive more interest in the 2nd year compared to the 1st year?	0.617	0.487	-0.483	-1.784
CAS	Retailers can charge me a fee for using my debit/credit card to pay for a purchase.	0.641	0.481	-0.591	-1.667
CA6	If I would need to buy a refrigerator, which would be the lower amount I would pay?	0.830	0.376	-1.771	1.147
CA7	I can provide my ATM card as a collateral for a loan.	0.932	0.252	-3.458	10.059
CA8	Illegal money lenders (e.g. Ah Long) can be approached as a last resort for financial problems.	0.956	0.205	-4.498	18.407

Table 56: Descriptive Statistics for Financial Literacy domain, Cognitive subdomain

Table 57: KMO and Reliability Tests of Financial Literacy domain, Affective subdomain

Kaiser-Meyer-Olkin		0.681
Bartlett's Test of Sphericity	Approx. Chi-Square	507.982
	df	28
	sie.	0.000
Cronbach's Alpha		0.478

Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
C81	I think it is important to save from my monthly income.	0.779	0.191	-0.266	-1.032
C82	I think it is important to set a short- term and long-term financial goal to do well in financial management.	0.772	0.208	-0.523	-0.267
CB3	I am confident with my general knowledge about financial matters.	0.680	0.211	-0.365	0.114
C84	I am confident that I can choose the right financial product (e.g. loan, fixed deposit, mutual fund, etc.) for myself.	0.655	0.223	-0.477	0.063
C85	I am confident with my knowledge about Islamic financial products such as Islamic Banking and Takaful.	0.635	0.260	-0.451	-0.369
C86	If I have extra money, I find it more satisfying to spend money than to save it for the future.	0.450	0.291	0.263	-0.704
C87	If I cannot afford an expensive mobile phone, I think it is okay to buy it through a loan.	0.602	0.327	-0.172	-1.200
C88	I think it is a waste of money to buy health insurance and / or Takaful.	0.573	0.250	-0.220	-0.241

Table 58: Descriptive Statistics for Financial Literacy domain, Affective subdomain

Table 59: KMO and Reliability Tests of Financial Literacy domain, Action subdomain

Kaiser-Meyer-Olkin		0.779
Bartlett's Test of Sphericity	Approx. Chi-Square	456.955
	df	28
	Sig.	0.000
Cronbach's Alpha		0.771

Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
CC1	I track my expenses regularly.	0.720	0.212	-0.584	0.374
CC2	I have no difficulties in paying my monthly bills.	0.712	0.237	-0.769	0.681
CC3	I comply with credit card and loan payment deadlines to avoid extra charges and/or fees.	0.795	0.294	-1.476	1.308
CC4	In the past 6 months, I have saved more than 10% of my income.	0.650	0.268	-0.472	-0.456
ccs	I have enough savings to cover three months of household expenses.	0.646	0.263	-0.578	-0.135
CC6	I regularly check on which banks have the highest interest rate for savings.	0.519	0.333	-0.193	-1.182
CC7	When considering an investment scheme from a non-bank, I do detailed checks and/or research to see if it is a scam.	0.559	0.351	-0.453	-1.126
CC8	How many percent of your monthly income is for your monthly commitment?	0.720	0.212	-0.584	0.374

Table 60: Descriptive Statistics for Financial Literacy domain, Action subdomain

Purchasing Decision Domain

Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
DA1	Stores A and 8 sell the same model of flat- screen televisions. Which store sell at a lower price?	0.629	0.329	-2.408	3.837
DA2	If a pair of RM 100 jeans is offered at 50% plus 20% discount, how much is the final price?	0.883	0.322	0.137	-2.001
DA3	Which of the following is/are full price- controlled goods? Please select all that applies (multiple choices)?	0.466	0.500	0.030	-1.729
DA4	Which of the following example(s) are considered as misleading advertising? Please select all that applies (multiple choices).	0.444	0.403	-0.476	-1.019
DAS	Suppose you receive two books that you have not ordered, together with a RM 100 invoice. Are you obliged to pay?	0.636	0.347	-3.458	10.059
DA6	When you purchase an electrical appliance, which of these should be included? Please select all that applies (multiple choices).	0.932	0.252	-2.219	4.213
DA7	The weighing machine used by the seller must have a verification sticker to indicate that the weighing machine has been calibrated.	0.910	0.199	-1.408	-0.018
DA8	Could you tell by which date you should consume this product by looking at the picture?	0.786	0.411	-4.809	21.334
DA9	Could you tell how many grams of fat there are in 100 grams of this product by looking at the picture?	0.961	0.194	0.874	-1.248
DA10	Could you select the statement that correspond to the meaning of the logo?	0.301	0.460	-0.056	-0.122

Table 61: Descriptive Statistics for Purchasing Decision domain, Cognitive subdomain

Table 62: KMO and Reliability Tests of Purchasing Decision domain, Affective subdomain

Kaiser-Meyer-Olkin		0.884
	Approx. Chi-Square	910.490
Bartlett's Test of Sphericity	df	66
	Sig.	0.000
Cronbach's Alpha		0.836

Table 63: Descriptive Statistics for Purchasing Decision domain, Affective subdomain

Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
D81	I can choose the best products by doing research.	0.709	0.174	0.090	0.512
DB2	I am a responsible consumer.	0.717	0.186	-0.006	0.081
DB3	I think comparison of products and / or services will help me make the best purchase.	0.743	0.211	-0.254	-0.559
D84	I think it is important to look at the terms and condition when buying and / or subscribing to a service.	0.738	0.200	-0.296	0.281
D85	I understand all the product information on the item packaging.	0.665	0.201	-0.045	-0.194
D86	I understand the risks of ordering from overseas.	0.711	0.196	-0.366	1.136
D87	When buying products online, I think it is important to check the ratings and profile of the seller.	0.722	0.194	-0.228	0.524
D88	I trust the product descriptions provided by sellers on social media.	0.371	0.233	0.304	0.030
D89	I think knowing consumer rights is important.	0.791	0.195	-0.485	-0.640
D810	I think whenever possible, we should buy local products.	0.743	0.196	-0.195	-0.763
D811	I can tell the difference between products which I need and products which I want.	0.778	0.207	-0.680	0.161
D812	When buying a product, I think quality is more important than brand.	0.785	0.192	-0.507	-0.376

Table 64: KMO and Reliability Tests of Purchasing Decision domain, Action subdomain

Kaiser-Meyer-Olkin		0.902
	Approx. Chi-Square	582.051
Bartlett's Test of Sphericity	df	21
	Sig.	0.000
Cronbach's Alpha		0.870

Table 65: Descriptive Statistics for Purchasina	Decision domain. Action subdomain
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Question No.	Question Details	Mean	Standard Deviation	Skewness	Kurtosis
DC1	I look for information (e.g. via internet, newspaper, friends etc.) before buying a product.	0.709	0.217	-0.216	-0.532
DC2	Whenever I sign-up for a service package, I read the terms and conditions carefully.	0.732	0.224	-0.476	-0.156
DC3	I read the product information (e.g. nutritional value, materials, etc.) before buying a product.	0.732	0.219	-0.426	-0.361
DC4	I compare the price and quality of the product that I wish to buy with similar products.	0.745	0.221	-0.648	0.394
DCS	I read consumer related articles and / or news in newspapers or internet.	0.721	0.218	-0.400	-0.307
DC6	If two products are similar in quality, I will choose the local product.	0.716	0.214	-0.300	-0.382
DC7	If a company and / or seller has an unreasonable pricing for a product, I will look for alternatives.	0.756	0.214	-0.889	1.124























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FAKTA NUTR	tisi / NUC	TRITION	AL INFOR	INATION

Salz Hidangan / Serving Star : 100 g

Komposisi/ Composition

Lenak/Rat:	10 g
Kebelidst/Cabdqdsts:	20 g
Protein:	63















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State	District	Local Authority Area	Stratum*	Target Sample Size
	FT DT LODAN	Mantin	R	25
Manual Cambling	SCHENIDAN	Pantai	R	25
wegen semonan	TAMPIN	Tampin	U	50
	TOTAL			400
		Alor Gajah	U	50
	ALOR GAIAH	Durian Tunggal	R	25
		Machap Baru	R	25
		Bemban	U	50
	JASIN	Jasin	R	25
Malaka		Merlimau	R	25
in reserve		Ayer Keroh	U	25
		Bandar Melaka	U	50
	MELAKA TENGAH	Paya Rumput	R	25
		Tangga Batu	R	25
		Tanjong Kling	R	25
	TOTAL			350
		Bandar Penggaram	U	50
	BATU PAHAT	Parit Raja	U	25
	arrow arrows	Sri Gading	R	25
		Tongkang Pechah	R	50
	JOHOR BAHRU	Gelang Patah	R	100
		Kangkar Pulai	R	100
		Lima Kedai	MC	50
		Masai	MC	50
		Pelentong	MC	50
		Sekudal	MC	50
		Johor Bahru	MC	100
		Pasir Gudang	MC	50
		Machap	R	25
	KLUANG	Rengam	R	25
Johor		Kluang	U	50
	KOTA TINGGI	Kota Tinggi	U	50
		Penawar	R	50
		Kulai	U	50
	KULAUAYA	Saleng	R	25
		Sedenak	R	25
	LEDANG	Tangkak	U	50
	MERSING	Mersing	U	50
		Bandar Maharani	U	50
	MUAR	Bukit Pasir	R	25
		Parit Jawa	R	25
	PONTIAN	Pontian Kecil	U	50
	SEGAMAT	Jementah	R	50
		Segamat	U	50
	TOTAL			1,350

State	District	Local Authority Area	Stratum*	Target Sample Size
	BENTONG	Bentong	U	50
	BERA	Teriang	R	50
	CAMERON HIGHLANDS	Tanah Rata	R	50
	JERANTUT	Jerantut	U	50
		Beserah	U	25
	KUANTAN	Gambang	U	25
Bull and		Kuantan	U	50
Panang	LIPIS	Kuala Lipis	U	50
	MARAN	Bandar Pusat Jengka	U	50
	PEKAN	Pekan	U	50
	RAUB	Raub	U	50
	ROMPIN	Muadzam Shah	R	50
	TEMERLOH	Temeriah	U	50
	TOTAL			600
	BESUT	Jerth	U	50
	DUNGUN	Dungun	U	50
	HULU TERENGGANU	Kuala Berang	R	50
		Kemaman (Chukai)	U	50
Terenezanu	KEMAMAN	Kial	R	50
	KUALA TERENGGANU	Kuala Terengganu	U	100
	MARANG	Marang	U	50
	SETILI	Caluk	R	50
	TOTAL			450
		Bachok	R	30
	BACHOK	Jelawat	R	40
		Pauh Lima	R	30
	GUA MUSANG	Gua Murang	u	50
		Air Lanas	8	25
	JEU	ieli	R	25
		Kota Bhani	u	50
	KOTA BHARU	Mulong	R	50
	KUALA KRAL	Kuala Krai & Gurhil	u	50
		Machane	8	25
Kelantan	MACHANG	Pulai Chondone	R	25
		Pacir Mas		50
	PASIR MAS	Rantau Paniane	8	25
		Tok Lihan	8	25
		Cherang Ruku	R	25
	PASIR PUTEH	Paris Dutah		25
	TANAH MERAH	Tanah Merah	U 1	50
		Tumpat		50
	TUMPAT	Wakaf Baru		50
	TOTAL		-	700
	BEAUFORT	Beaufort	U	50
	KENINGALI	Keningau		100
Sahah	KIIALA PENVII	Kuala Perses	1	50
	SIPITANG	Goitang		50
	TENOM	Tenom	U U	50

State	District	Local Authority Area	Stratum*	Target Samp Size
	LAHAD DATU	Lahad Datu	U	100
	SANDAKAN	Sandakan	U	100
	TAWAU	Tawau	R	100
	SEMPORNA	Semporna	R	50
	KOTA MARUDU	Kota Marudu	U	50
	KUDAT	Kudat	U	50
	KOTA BELUD	Kota Belud	R	50
	BELURAN	Beluran	U	50
	RANAU	Ranau	U	50
Sabah	TAMBUNAN	Tambunan	U	50
	NABAWAN	Nabawan	U	50
		Inanam	U	50
	KOTA KINABALU	Kota Kinabolu	U	100
		Menggatal	R	50
	PAPAR	Papar	R	50
	PENAMPANG	Kepayan	U	50
	PUTATAN	Putatan	R	50
	TUARAN	Tuaran	R	50
	TOTAL			1400
	W.P. LABUAN	Labuan	U	50
V.P. DADUAN	TOTAL			50
	ASAJAYA	Asajaya Townland	R	50
	LUNDU	Lundu Townland	R	50
	SIMUNIAN	Simunjan Townland	R	50
	SRI AMAN	Sri Aman Townland	U	50
	BETONG	Betong Townland	R	50
	BINTULU	Bintulu Townland	U	100
	TATAU	Tatau Townland	U	50
	MARUDI	Marudi Townland	R	50
		Kuala Baram Bazaar	R	25
	MIRI	Lambir Bazaar	R	25
		Miri Townland	U	50
	SARATOK	Saratok Townland	R	50
format.	SARIKEI	Sarikei Townland	R	50
Ser ewer.	SIBU	Bandar Sibu	R	100
	KANOWIT	Kanowit Townland	R	50
	KAPIT	Kapit Townland	U	50
	SONG	Song Townland	U	50
	LAWAS	Lawas Townland	R	50
	LIMBANG	Limbang Townland	U	50
	BAU	Bau Townland	R	50
		Bandaraya Kuching	U	50
	KUCHING	Kota Sentosa (Batu Tujuh Bazaar)	R	25
		Siburan Bazaar	R	25
	SAMARAHAN	Kota Samarahan Townland	U	50
	SERIAN	Serian Townland	R	50
	TOTAL			1250
			TOTAL	12200

* U: Urban MC: Market Centre R: Rural

Appendix 7: Respondents' Profile for Focus Group Discussion

Focus Group Discussion 1

Location: Kota Kinabalu (Urban)

Date: 5 August 2020

Time: 10AM - 12 Noon

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 30 years old

Single, married with kids and/or without kids

Bumi ethnicity (i.e. indigenous group)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	26	Kadazan	Female	SPM	5,000	Single
2	27	Kadazan	Female	Diploma	4,000	Single
3	24	Rungus	Male	SPM	3,000	Single
4	22	Dusun	Male	SPM	6,000	Single
5	24	Dusun	Male	Diploma	3,000	Single
6	19	Bajau	Female	SPM	5,000	Single
7	24	Dusun	Male	SPM	4,000	Single
8	18	Murut	Male	SPM	5,000	Single
9	23	Irranun	Female	SPM	3,000	Married with kid

Location: Kota Kinabalu (Urban)

Date: 5 August 2020

Time: 10AM - 12 Noon

Moderator: Wan Nuradiah

Participants' Criteria: 31 years old to 45 years old

Single, married with kids and/or without kids

Bumi ethnicity (i.e. indigenous group)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income Range	Marital Status
1	39	Rungus	Female	SPM	7,000	Married with kids
2	35	Bajau	Female	SPM	6,000	Married with kids
3	40	Dusun	Male	Diploma	7,000	Married with kids
4	38	Murut	Female	SPM	3,000	Married with kids
5	42	Bajau	Male	Diploma	6,000	Married with kids
6	33	Bajau	Female	STPM	3,000	Married with kids
7	37	Kadazan	Male	Diploma	5,000	Married with kids
8	36	Kadazan	Male	SPM	6,000	Single

Location: Kundasang (Rural)

Date: 6 August 2020

Time: 10AM - 12 Noon

Moderator: Wan Nuradiah

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Bumi ethnicity (i.e. indigenous group)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	22	Dusun	Female	Diploma	5,000	Single
2	38	Kadazan	Female	SPM	5,000	Married with kids
3	33	Dusun	Male	Diploma	5,000	Married with kids
4	27	Murut	Female	SPM	3,000	Married with kids
5	24	Dusun	Female	SPM	5,000	Single
6	23	Dusun	Female	Bachelor's Degree	6,000	Single
7	35	Dusun	Male	SPM	5,000	Married with kids
8	27	Dusun	Male	Diploma	3,000	Single

Location: Klang Valley (Urban)

Date: 11 August 2020

Time: 11AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 31 years old to 50 years old

Single, married with kids and/or without kids

Mixed ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income Range	Marital Status
1	33	Malay	Female	Diploma	4,600	Married with kids
2	36	Indian	Male	Bachelor's Degree	5,000	Married without kids
3	41	Chinese	Male	Master	2,700	Married with kids
4	41	Chinese	Female	Diploma	2,500	Single
5	47	Malay	Male	Bachelor's Degree	5,500	Married with kids
6	31	Malay	Male	Diploma	2,900	Married with kids
7	40	Chinese	Female	SPM	2,800	Married with kids

Location: Taiping (Rural)

Date: 12 August 2020

Time: 12 PM - 2 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	43	Malay	Male	Diploma	6,000	Married with kids
2	33	Malay	Female	SPM	4,000	Married with kids
3	24	Malay	Female	SPM	3,000	Single
4	18	Malay	Female	SPM	7,000	Single
5	34	Malay	Male	SPM	4,000	Married with kids
6	38	Malay	Male	SPM	2,000	Married with kids
7	26	Malay	Female	SPM	2,000	Married with kids
8	29	Malay	Female	SPM	2,000	Married with kids

Location: Batu Pahat (Rural)

Date: 14 August 2020

Time: 2 PM - 4 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Mixed ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	33	Malay	Male	SPM	2,800	Single
2	39	Indian	Male	STPM	3,500	Married with kids
3	25	Malay	Female	SPM	2,000	Single
4	28	Malay	Male	SPM	4,400	Single
5	21	Chinese	Male	SPM	4,400	Single
6	31	Chinese	Male	SPM	6,500	Married with kids
7	40	Malay	Female	SPM	4,500	Married with kids
8	37	Malay	Female	Bachelor's Degree	6,000	Married with kids
9	34	Indian	Male	SPM	4,200	Single
10	23	Malay	Female	Bachelor's Degree	4,300	Single

Location: Kota Bharu (Urban)

Date: 15 August 2020

Time: 11 AM - 1 PM

Moderator: Wan Nuradiah

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	21	Malay	Female	SPTM	3,000	Married with kids
2	37	Malay	Female	Diploma	3,000	Married with kids
3	34	Malay	Male	SPM	5,000	Married with kids
4	26	Malay	Female	SPM	4,000	Married with kids
5	31	Malay	Female	Diploma	6,000	Married with kids
6	36	Malay	Male	SPM	7,000	Married with kids
7	27	Malay	Female	Diploma	4,000	Married with kids
8	40	Malay	Male	SPM	4,000	Married with kids
9	36	Malay	Female	Diploma	5,000	Married with kids
10	34	Malay	Female	SPM	3,000	Married with kids

Location: Kuala Terengganu (Urban)

Date: 17 August 2020

Time: 11 AM - 1 PM

Moderator: Wan Nuradiah

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	37	Malay	Male	Diploma	6,000	Married With kids
2	23	Malay	Male	Diploma	3,500	Single
3	39	Malay	Female	Bachelor's Degree	2,200	Married With kids
4	27	Malay	Male	SPM	3,500	Single
5	45	Malay	Female	Diploma	2,400	Married With kids
6	35	Malay	Female	SPM	3,000	Married With kids
7	44	Malay	Male	Bachelor's Degree	2,800	Married With kids
8	23	Malay	female	Professional Cert in Culinary Art	1,900	Single
9	25	Malay	Female	SPM	2,100	Single

Location: Klang Valley (Urban)

Date: 18 August 2020

Time: 11 AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 30 years old

Single, married with kids and/or without kids

Mixed ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	25	Malay	Male	Bachelor's Degree	7,000	Single
2	30	Chinese	Male	Bachelor's Degree	6,500	Single
3	26	Indian	Female	Bachelor's Degree	6,000	Single
4	23	Indian	Female	Bachelor's Degree	2,800	Single
5	27	Indian	Male	Bachelor's Degree	2,500	Single
6	26	Malay	Female	Bachelor's Degree	2,500	Single

Location: Kuantan (Urban)

Date: 18 August 2020

Time: 3 PM - 5 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	28	Malay	Female	Diploma	3,500	Married with kids
2	42	Malay	Male	Diploma	5,600	Married with kids
3	26	Malay	Female	Bachelor's Degree	4,100	Single
4	28	Malay	Male	Bachelor's Degree	5,000	Single
5	31	Malay	Male	Diploma	5,700	Single
6	31	Malay	Male	Bachelor's Degree	6,800	Married without kids
7	33	Malay	Female	SPM	4,100	Married without kids

Location: Penang (Urban)

Date: 19 August 2020

Time: 11 AM - 1 PM

Moderator: Atticus Poon

Participants' Criteria: 18 years old to 30 years old

Single, married with kids and/or without kids

Non-Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	24	Chinese	Female	Diploma	5,000	Single
2	26	Chinese	Female	Diploma	5,000	Single
3	28	Chinese	Male	Diploma	2,500	Married without kids
4	26	Chinese	Male	Diploma	6,000	Single
5	23	Chinese	Female	STPM	3,000	Single
6	29	Chinese	Male	Diploma	5,000	Married without kids

Location: Penang (Urban)

Date: 19 August 2020

Time: 3 PM - 5 PM

Moderator: Atticus Poon

Participants' Criteria: 31 years old to 45 years old

Single, married with kids and/or without kids

Non-Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	39	Chinese	Female	Diploma	6,000	Married with kids
2	43	Chinese	Male	Diploma	2,800	Single
3	36	Chinese	Female	Diploma	2,800	Married with kids
4	35	Chinese	Female	Master's degree	7,000	Married with kids
5	34	Chinese	Male	STPM	3,000	Married with kids
6	43	Chinese	Female	Bachelor's Degree	5,000	Single

Location: Johor Bahru (Urban)

Date: 20 August 2020

Time: 11 AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 30 years old

Single, married with kids and/or without kids

Mixed ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	27	Malay	Male	Diploma	4,500	Single
2	24	Chinese	Male	Diploma	6,000	Single
3	22	Chinese	Female	Bachelor's Degree	2,500	Single
4	26	Malay	Male	Diploma	2,200	Married with kids
5	22	Malay	Male	SPM	5,000	Single
6	22	Indian	Female	SPM	5,200	Single
7	27	Malay	Female	Diploma	2,500	Single

Location: Johor Bahru (Urban)

Date: 20 August 2020

Time: 3 PM - 5 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 31 years old to 45 years old

Single, married with kids and/or without kids

Mixed ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	40	Chinese	Male	Diploma	5,000 - 7,000	Married with kids
2	38	Malay	Male	Bachelor's Degree	6,000	Married with kids
3	37	Malay	Male	Bachelor's Degree	6,000	Married with kids
4	45	Chinese	Female	SPM	2,800	Married with kids
5	37	Indian	Male	SPM	5,500	Married with kids
6	38	Indian	Female	SPM	2,700	Married with kids
7	42	Malay	Female	SPM	5,400	Married with kids

Location: Kuching (Urban)

Date: 21 August 2020

Time: 11 AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Bumi ethnicity (i.e. indigenous group)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	38	Male	Iban	Diploma	7,000	Married with kids
2	21	Male	Murut	Bachelor's Degree	1,000	Single
3	30	Female	Bidayuh	Diploma	2,000	Married with kids
4	35	Female	Bidayuh	Bachelor's Degree	3,000	Married with kids
5	23	Female	Bidayuh	Bachelor's Degree	7,000	Single
б	40	Female	Iban	Bachelor's Degree	6,000	Single
Location: Kuching (Urban)

Date: 21 August 2020

Time: 3 PM - 5 PM

Moderator: Atticus Poon

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Non-Bumi ethnicity (i.e. Non-Malay and Non-Indigenous Groups)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	38	Chinese	Female	Bachelor's Degree	7,000	Married with kids
2	34	Chinese	Female	SPM	6,000	Married with kids
3	31	Chinese	Female	Bachelor's Degree	2,000	Married without kids
4	31	Chinese	Male	Diploma	3,000	Married without kids
5	28	Chinese	Male	Bachelor's Degree	5,000	Single
6	21	Chinese	Female	Diploma	5,000	Single

Location: Ipoh (Urban)

Date: 24 August 2020

Time: 11 AM - 1 PM

Moderator: Atticus Poon

Participants' Criteria: 18 years old to 30 years old

Single, married with kids and/or without kids

Non-Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	24	Chinese	Female	SPM	2,500	Single
2	20	Chinese	Male	Diploma	5,000	Single
3	26	Chinese	Female	STPM	4,000	Single
4	21	Chinese	Male	Diploma	6,000	Single
5	27	Chinese	Female	Bachelor's Degree	5,000	Single
6	20	Chinese	Male	SPM	3,000	Single

Location: Ipoh (Urban)

Date: 24 August 2020

Time: 3 PM - 5 PM

Moderator: Atticus Poon

Participants' Criteria: 31 years old to 45 years old

Single, married with kids and/or without kids

Non-Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	34	Chinese	Male	SPM	5,500	Married with kids
2	43	Chinese	Female	SPM	3,500	Married with kids
3	35	Chinese	Male	Bachelor's Degree	6,000	Single
4	37	Chinese	Female	Diploma	5,000	Single
5	35	Chinese	Female	Diploma	2,800	Married with kids
6	33	Chinese	Male	SPM	3,500	Single

Location: Jelebu (Rural)

Date: 27 August 2020

Time: 11 AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Malay ethnicity

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	44	Malay	Male	SPM	5,000	Married with kids
2	30	Malay	Male	SPM	4,000	Single
3	28	Malay	Female	STPM	2,500	Single
4	20	Malay	Male	SPM	4,000	Single
5	24	Malay	Male	SPM	2,000	Single
6	31	Malay	Male	SPM	2,500	Married with kids
7	36	Malay	Female	SPM	900	Married with kids
8	19	Malay	Male	STPM	1,800	Single
9	28	Malay	Male	SPM	1,900	Single

Location: Sibu (Rural)

Date: 28 August 2020

Time: 11 AM - 1 PM

Moderator: Nadihan Mohamed

Participants' Criteria: 18 years old to 45 years old

Single, married with kids and/or without kids

Bumi ethnicity (i.e. indigenous group)

No	Age	Ethnicity	Gender	Highest Educational Attainment	Monthly Household Income	Marital Status
1	28	Kayan	Female	SPM	2,000	Married with kids
2	33	Iban	Female	SPM	1,500	Married with kids
3	19	Iban	Female	Diploma	4,000	Single
4	28	Iban	Female	STPM	3,000	Married with kids
5	31	Iban	Male	SPM	1,600	Married with kids
6	22	Iban	Male	SPM	2,500	Single