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CONSUMERS IN CRISIS

Understanding the effect of the Coronavirus on China Consumers

Insights from Machine Learning

Feb 2020

We surveyed 900 consumers in Beijing, Shanghai & Guangzhou, showing 3 different coronavirus outcomes to equal numbers of people to measure changes in sentiment

Purpose to measure how each consumer category is affected by different coronavirus outcomes within next 3 months

Re-Hub utilized Zectr's proprietary Machine Learning solution to analyze answers from panel respondents and generate a comprehensive insights report and interactive dashboard. This whole process took less than 2 days.



Key Findings and Suggested Actions

PESSIMISM AMONG CONSUMERS

Consumers perceive the situation to be severe and expect to last for **4-5 months**

Brands need to proactively listen to their consumers and continuously monitor the market to spot any changes in behavior

BRAND SUPPORT IS IMPORTANT

Consumers are overwhelmingly more loyal to brands that show support

Brands should be vocal of their support for China on social media. Messages or efforts of support likely to yield results

AGGREGATED CONSUMER DEMAND REMAINS STRONG...

Consumers do not intend to spend less than before

Brands need to position themselves now to take advantage of demand recovery which could be rapid if situation improves

...BUT BIG DIVERGENCES WITHIN CATEGORIES AND SEGMENTS

Consumer priorities and preferences radically changed

Each category will face unique challenges by segment and under different scenarios: brands need to prioritize their targets

We divided respondents within each Tier 1 city into 3 groups, and showed each of them one of the following scenarios, comparing changes in sentiment for each case

Our target Tier 1 cities include Beijing, Shanghai, and Guangzhou with a sample of N900 general population

Optimistic Case



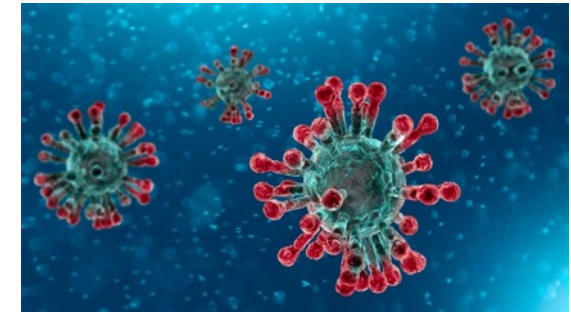
- Mortality rate from the coronavirus is likely to be much lower than 1%
- Dramatic reduction in infections may occur as soon as late February.

Base Case



- Over 40,000 cases of the coronavirus and over 1,000 deaths.
- China should recover completely by May or June.

Pessimistic Case



- Number of coronavirus infections and deaths continues to grow.
- Wuhan and Hubei Province continue to be quarantined, with strict restrictions in place in other Chinese cities.
- Outbreaks have now occurred as far away as Japan, Singapore, and London.
- Situation may continue to end of year.

Aggregate results for all Tier 1 Cities

Combined results by scenario & category



Consumers in China on average are extremely worried about the coronavirus situation and expect it to last another 4-5 months

Consumer behavior will likely reflect this expectation

Perceived severity of situation (1-5)

4.43/5

Consumers perceived the current situation as extremely serious (1=not so severe, 5=extreme crisis)

Months needed to return to normal

4.75

On average they expect the current situation to last until June/July

Across the board, regardless of location or segment, a brand's support for China during this time is very important to consumers' purchasing decisions

There is remarkably very little variance on this importance

8.4/10

For all segments in all 3 tier 1 cities we surveyed the importance was at least 7 or above

Consumer's aggregate spend for the next 3 months vs same period last year remains consistent regardless of the expected outcome of the coronavirus outbreak

There seems to be pent up demand built up from consumption fallout from Q1 last year

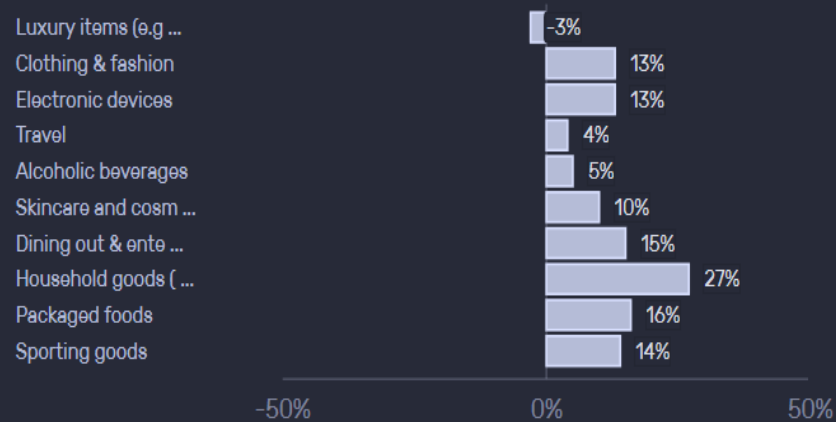
6/10

Consumers likely to spend the same or more in the next 3 months vs same period last year

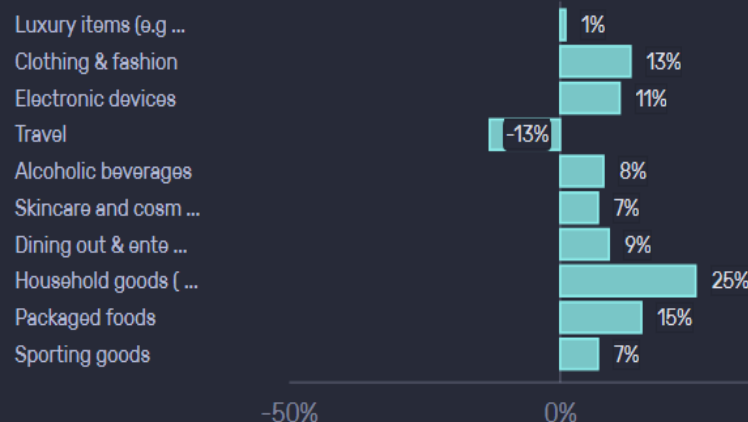
But there are huge divergences on a category level with household goods, fashion, and electronics set for the best improvement in the next 3 months vs. last year

Changes in demand of each category strongly influenced by specific segments (target customers)

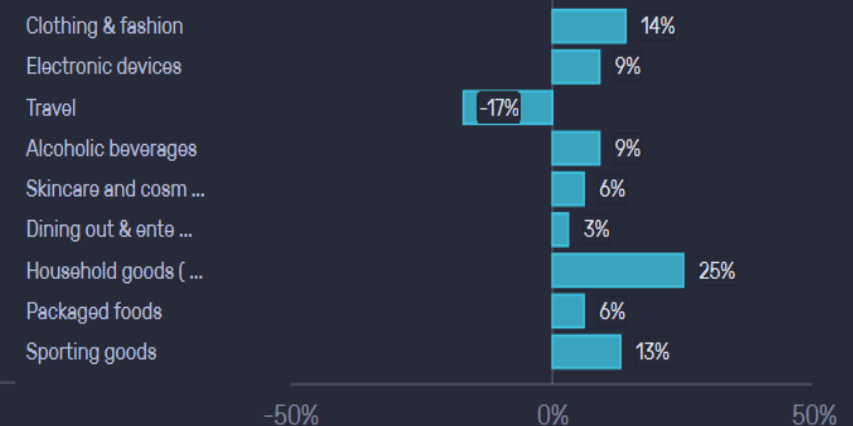
OPTIMISTIC: CHANGE IN 3 MONTH BUDGET VS LAST YEAR



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Luxury demand will remain muted even if situation improves



Travel and dining out poised for a quick recovery if things improve



Slight uptick in alcoholic consumption if situation deteriorates

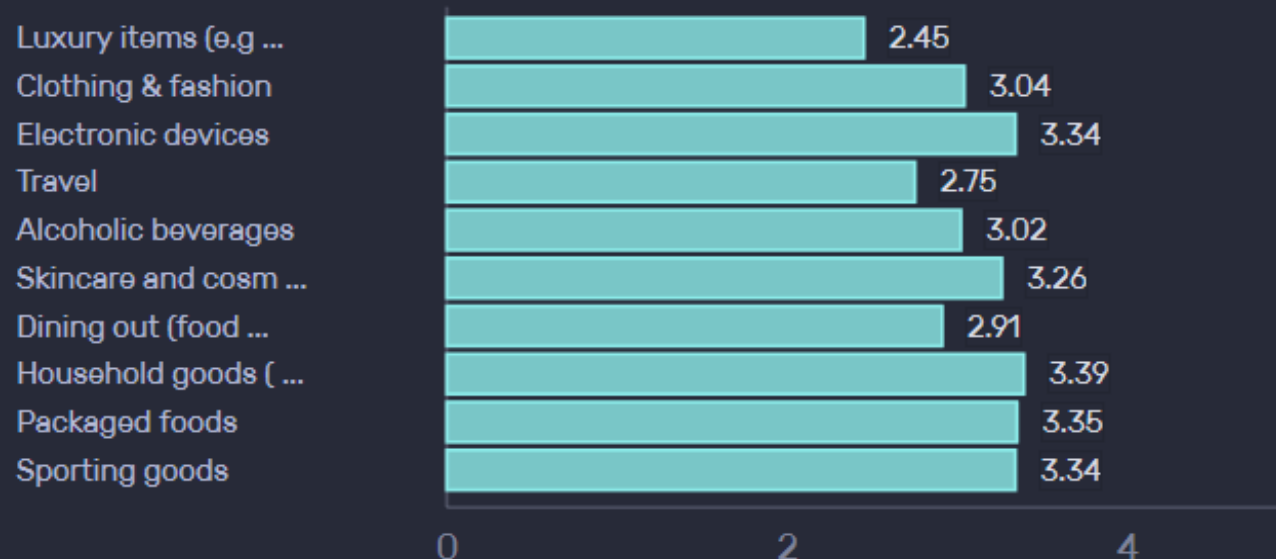


Packaged food growth faces large impact if situation lasts past summer

The severity and duration of the coronavirus situation has only slight impact on consumer's intention to shop online vs. offline

Categories that do well regardless of scenario (e.g.: household goods) tend to have higher online purchases

BASE: HOW LIKELY TO USE ONLINE SHOPPING PORTALS



- Likelihood to buy luxury online increased to 3 (60%) under pessimistic scenario
- Categories like Skincare&Cosmetics and Fashion have high online shopping likelihood regardless
- Categories that tend to have high repeat purchases (household good, packaged food, skincare) have high likelihood to partially absorb the impact via online

Individual market segments & their views

Tier 1 city consumer segmentation & sentiment analysis

Our AI has found 4 consumer segments within Tier 1 cities based on psychographic patterns including personal values, category preferences, and purchase drivers

Most consumers fall into Young Professionals, meaning Tier 1 city consumers have highly similar drivers & preferences

SILVER FOXES



Appreciate value for money, health and quality driven

SEGMENT 1 (9%)

- Electronic devices, value for money, and health & quality of life.
- Travel, dining out & entertainment, convenient, saves me time, reputable brand, and saving & investing for the future.
- Luxury items (e.g. watches, handbags), clothing & fashion, skincare and cosmetics, reflects my unique identity, fits in with popular trends, from prestigious foreign countries, social standing, relationships with friends, and fitting in with friends.

Show Scores

SEGMENT 2 (8%)

- Clothing & fashion, skincare and cosmetics, and fits in with popular trends.
- Saving for an uncertain future and raising my child well.
- Electronic devices, sporting goods, from prestigious foreign countries, and relationships with friends.

Show Scores



FASHION-FORWARD MOMS

Very interested in fashion and cosmetics

TASTEFUL COSMOPOLITANS



Interest in luxury, saving and investing for future

SEGMENT 4 (5%)

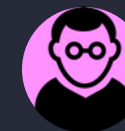
- Luxury items (e.g. watches, handbags), from prestigious foreign countries, premium brand, saving & investing for the future, health & quality of life, and raising my child well.
- Household goods (e.g. soap, detergent), convenient, saves me time, supporting domestic brands, relationships with friends, expressing my individuality, and fitting in with friends.

Show Scores

SEGMENT 3 (79%)

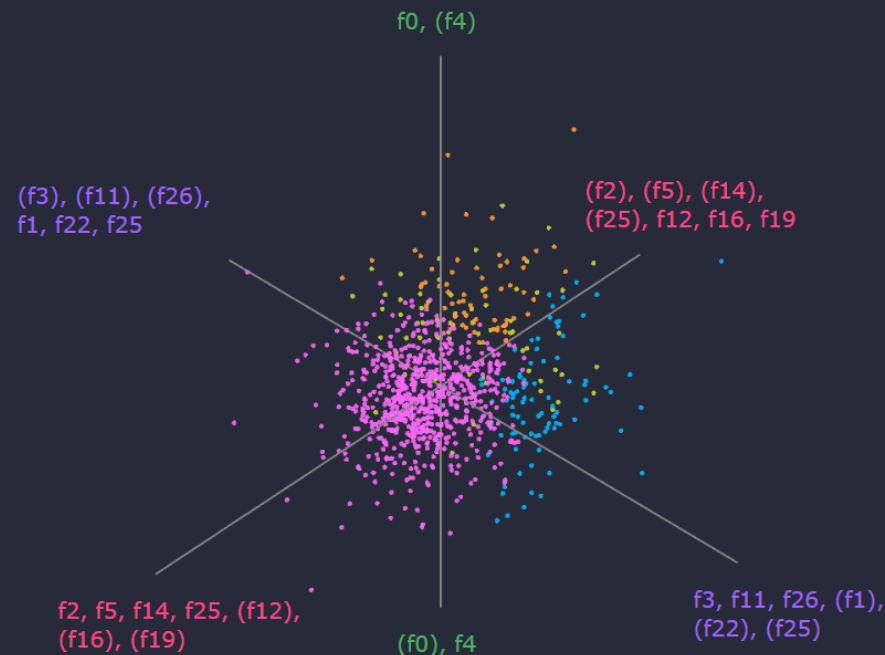
- Electronic devices, Relationships with family, and Health & quality of life.

Show Scores



YOUNG PROFESSIONALS

Value relationships with family and friends



Demographically speaking, Tier 1 city consumers can be split into Young Professionals, Fashion-forward Moms, Tasteful Cosmopolitans and Silver Foxes

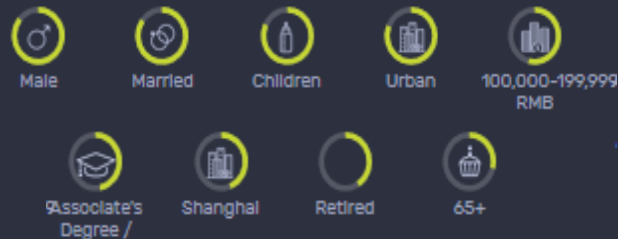
Each segment's demographic profile align with their psychographic preferences

SILVER FOXES



Usually retired males, well-educated but with low incomes

SEGMENT 1 →



SEGMENT 2 →



FASHION-FORWARD MOMS

Fit in with popular trends while raising their child well

TASTEFUL COSMOPOLITANS

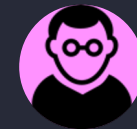
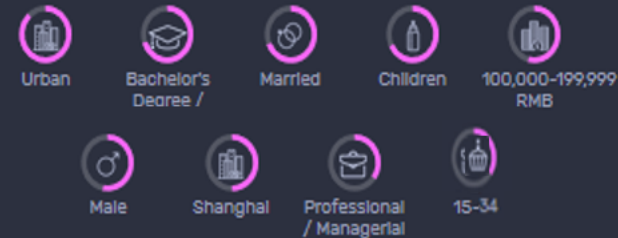


Skew older but have highest income vs other segments

SEGMENT 4 →



SEGMENT 3 →



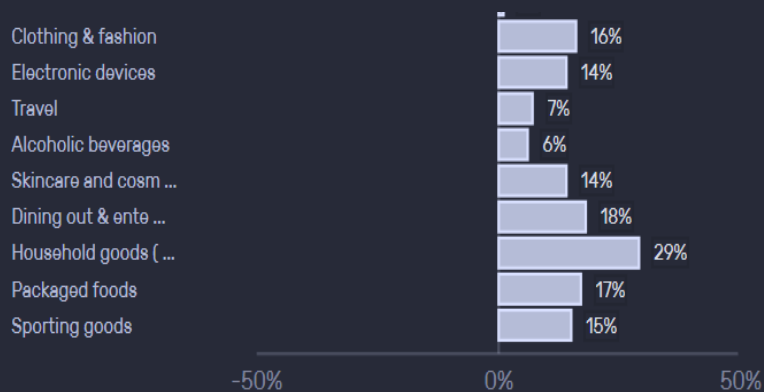
YOUNG PROFESSIONALS

Well educated, upwardly mobile young white collars

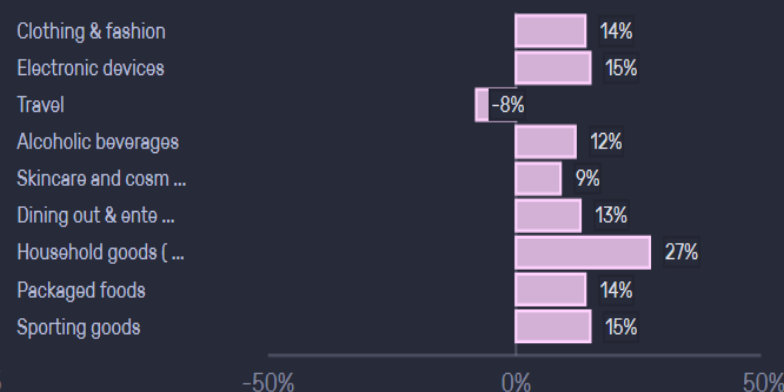
YOUNG PROFESSIONALS' demand seem to be resilient for most categories except travel and dining out/entertainment

As this segment represents the vast majority of consumers, behaviours are highly similar to national averages

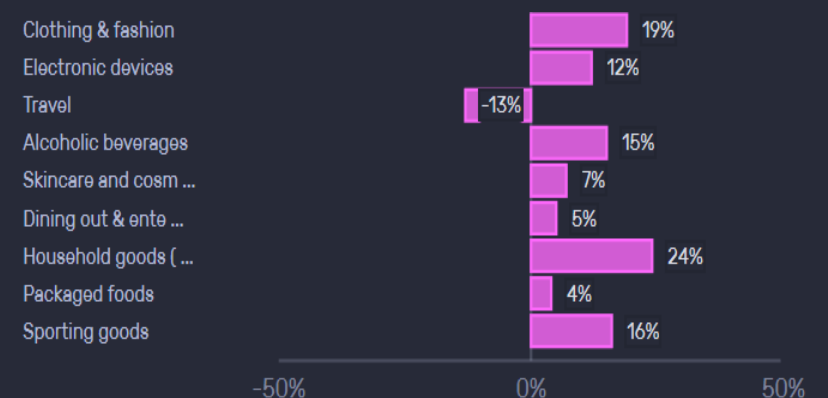
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BASE: CHANGE IN 3 MONTH BUDGET VS LAST YEAR



PESSIMISTIC: CHANGE IN 3 MONTH BUDGET VS LAST YEAR



Travel set for quick recovery if situation improves



Most core categories steady across scenarios



Strong demand for household goods like detergent or soup



Demand for luxury not set to change a lot regardless of scenario



Packaged food demand steady unless pessimistic scenario materializes



FASHION-FORWARD MOMS' demand for fashion and cosmetics is generally resilient but if situation substantially worsens then demand takes a dive

They also have relatively low interest for luxury, sporting goods, and electronic devices

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Fashion and cosmetics demand resilient unless the situation substantially worsens (Pessimistic Scenario)



Household goods do very well in Optimistic or Pessimistic Scenarios, hinting at 2 different underlying drivers

TASTEFUL COSMOPOLITANS are most interested in luxury and their demand will take a huge hit should the coronavirus situation continue or worsen

This segment also contain older consumers, and some of their behaviours mirror those of Silver Foxes

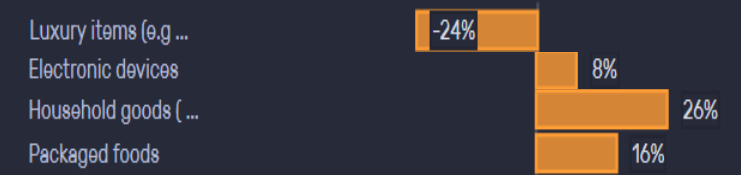
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Demand for luxury decreases as the situation worsens



Demand of Electronic devices to raise under Pessimistic Scenario



Strong consumption of Household goods across scenarios, while Packaged Foods demand grows as situation worsens

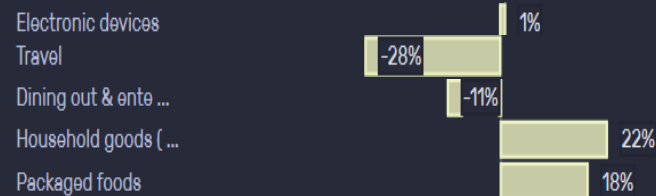
SILVER FOXES generally have lower demand but if situation gets worse their demand for household goods and packaged food will increase substantially

Consumption intentions imply they will likely stay a lot more at home if situation gets worse

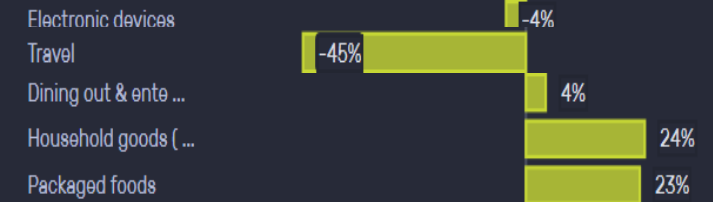
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They will reduce spending on travel and dining out & entertainment substantially should situation last until summer



Growth in consumption in household good and packaged food more than doubles vs optimistic scenario

How we can help

Dive deeper into the insights included
in this report via Zectr online
interactive dashboard

Consultation on how to these insights
are applicable to your industry or line
of business

Understand how to leverage Machine
Learning to generate tailored reports
to monitor your target customers
sentiment evolution

Subscribe to additional industry
reports analyzing the impact of
Coronavirus across industries and
consumer segments

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Appendices



Re-Hub helps Brands in Asia to address business challenges by leveraging the most relevant AI-powered solutions for any business scenario

Re-Hub brings agility and efficiency to problem-solving for brands to drive sustainable growth and improve efficiency

We serve global brands in CPG, fashion and luxury from our offices in Shanghai and Singapore

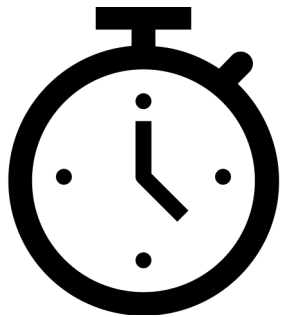




Zectr was envisioned by a strategy consultant, modeled by a Stanford professor, and built by a Silicon Valley technologist

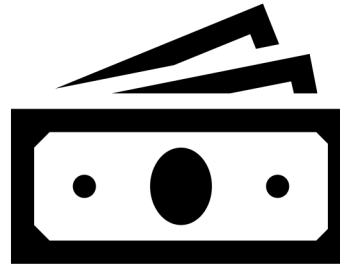
Zectr can make your project teams faster & more efficient – or run many standardized projects simultaneously

Faster



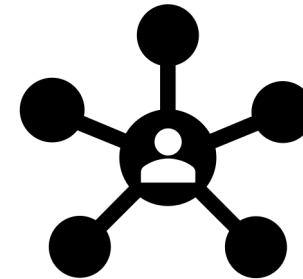
- ✓ Fast turnaround, results delivered within a week
- ✓ Enable data backed conclusions quickly

More efficient



- ✓ Reduce the number of analysts required
- ✓ Increased efficiency makes projects more profitable

Massively Parallel



- ✓ Run tests for many products across many markets at once
- ✓ Consistent & rigorous methodology

We conducted a N900 survey evenly divided amongst 3 Tier 1 cities in China, targeting the general population



General public

Identify & recruit survey respondents

- Population of Beijing, Shanghai, and Guangzhou residents (i.e. Tier 1 cities)
- Sampled from Toluna panel of survey takers

1 day

Conduct surveys and collect data

- Panelists receive a web link to the Zectr survey app
- Each city divided into 3 groups, each exposed to either optimistic, baseline, or pessimistic scenario

2 days

Analyze survey data

- Weight respondents by age and gender according to local population characteristics
- Conduct segmentation & other insight-oriented analyses using machine learning

1 day

Identify & report key insights

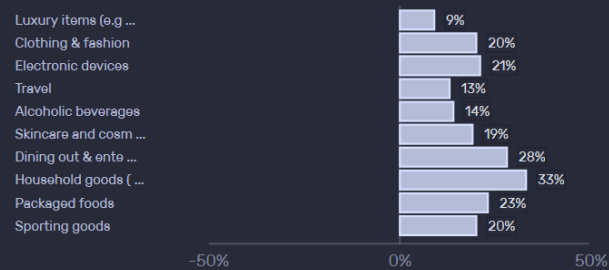
- Identify key insights using machine learning
- Visualize and report insights via a dynamic presentation deck running on modern web browsers



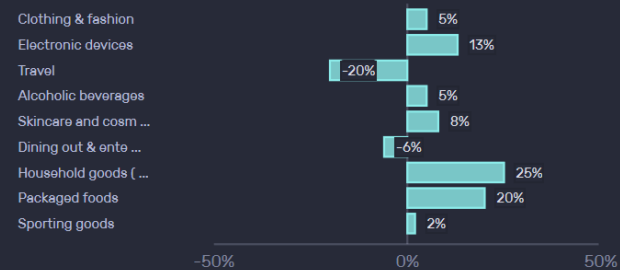
zectr

Shanghai data is most aligned with expectations on the category level

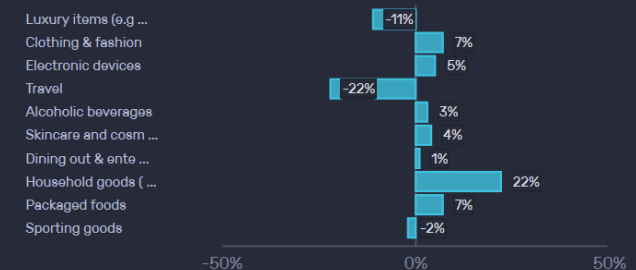
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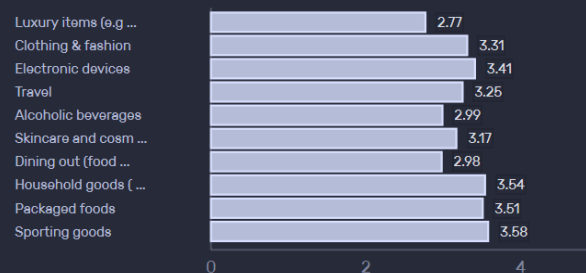
BASE: CHANGE IN 3 MONTH BUDGET VS LAST YEAR



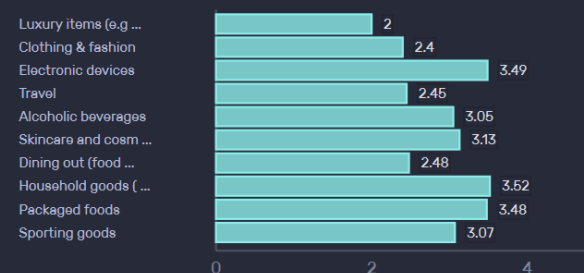
PESSIMISTIC: CHANGE IN 3 MONTH BUDGET VS LAST YEAR



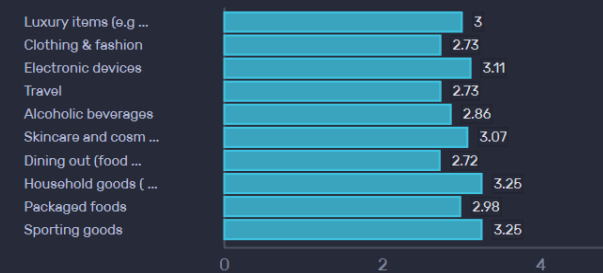
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Thanks

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