

# *Feasibility of introducing "Best Buys" alcohol harms reduction strategies in a low regulation region: A qualitative study from Hong Kong*

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In recognition of the significant health burden caused by alcohol (5.9 % of all deaths and 5.1% of all DALYs each year) the World Health Organization has outlined a series of recommendations for governments.

## WHO's "Best Buys" strategies

- Most feasible and cost-effective for prevention and control of non-communicable diseases (NCD)
- **Alcohol "Best Buys"** for reducing alcohol-related harms:



- Increasing alcoholic beverage taxes
- Regulating the availability of alcoholic beverages (e.g. via reduced hours of sale)
- Comprehensive advertising, promotion and sponsorship bans



# How applicable are WHO Best Buys to settings like Hong Kong?

“Best Buys” have been shown to be very cost-effective strategies but the evidence has primarily come from countries with relative high levels of alcohol use and high levels of alcohol harms.

In the WHO Southeast Asian & Western Pacific Regions– governments have not been as quick to develop well-defined alcohol policies.

Recent concern on the transferability of international findings to settings with different drinking environments and contexts



**Analysis** » Health, Wealth, and Profits

## **Prevention of non-communicable disease: best buys, wasted buys, and contestable buys**

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### **Key messages**

- WHO's list of best buy interventions aims to assist the global community's fight on non-communicable diseases
- Best buys evaluated in one setting may not be cost effective in other settings
- Evaluation of context is essential to ensure resources are best deployed towards universal health coverage
- National or international hubs could help with this evaluation and build evidence to get cross sectoral support towards preventing non-communicable disease



- The Hong Kong Government has identified reducing alcohol-related harm as one of the public health priority areas
- Alcohol use in Hong Kong has been heavily promoted by low taxation, ubiquitous availability, and unregulated marketing practices
- The scope and range of implementation fall short of the WHO's "Best Buys" recommendation

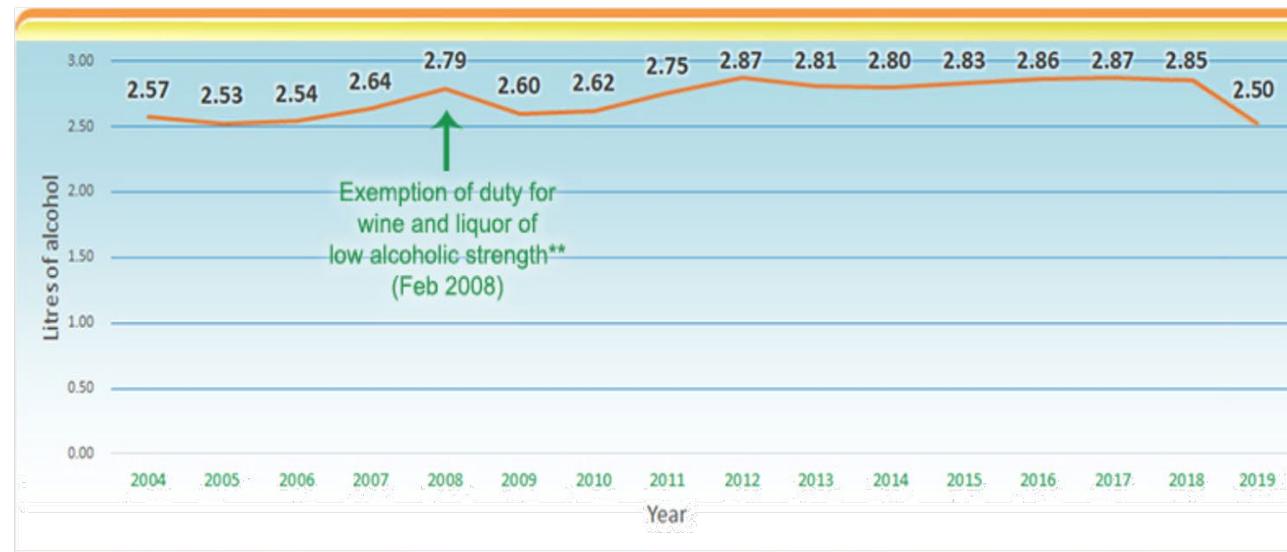
- **Beer and wine taxes eliminated in 2008**
- 100% duty on spirits with 30% alcohol by volume (ABV)

- Restrictions on television advertising hours (4pm-8:45pm)
- Television advertisements content not allowed to encourage underage drinking



- Liquor Licensing Board issues licenses and regulates **on-premises** drinking venues
- Minimum age of 18 for on-premises drinking and off-premises sale

- Drink-driving countermeasures
- Campaigns and school-based programmes
- Limited treatment and brief intervention



- Although Hong Kong has low per capita consumption of alcohol, there is greater uptake of drinking in past decade
- Prevalence of ever drinkers: 66.6% (2006) - 82.0% (2011) - 85.2% (2012)
- In 2018 (prior to COVID), 29.7% of 18-74 year olds were past-year drinkers
  - 10.2% were weekly drinkers
  - 5.5% past-month binge drinker (versus 30.5% in South Korea, 29.5% in UK)
  - 2.1% had an alcohol use disorder



## First-hand alcohol-related harms- harms to drinkers (n=949)

- Prevalence

	Lifetime Prevalence % (95%CI)	Past-year Prevalence % (95%CI)
Physical and mental health harms	45.1 (42.0-48.3)	15.7 (13.5-18.2)
Work-related harms	22.9 (20.3-25.7)	7.5 (6.0-9.3)
Friendship and social network harms	23.9 (21.3-26.7)	6.6 (5.2-8.4)
Public harms	13.8 (11.7-16.2)	4.1 (3.0-5.6)
Family harms	11.1 (9.2-13.2)	3.2 (2.2-4.5)
<i>Any first-hand harms</i>	<i>54.3 (51.1-57.4)</i>	<i>21.2 (18.7-23.9)</i>

- The most common first-hand alcohol-related harms in the past year

	Male (n=608)	Female (n=341)	Overall (n=949)
	% (95%CI)	% (95%CI)	% (95%CI)
Had short-term health problems like nausea or hangovers or sleep problems after drinking	12.0 (9.6-14.8)	12.3 (9.2-16.3)	12.1 (10.2-14.4)
Missed work/school or came in late the day after drinking	7.1 (5.3-9.4)	5.3 (3.3-8.2)	6.4 (5.0-8.2)
Blacked-out or lost consciousness after drinking	5.3 (3.7-7.4)	3.8 (2.2-6.5)	4.7 (3.6-6.3)
Did something very embarrassing after drinking that caused regret	4.3 (2.9-6.2)	4.4 (2.7-7.2)	4.3 (3.2-5.8)
Got verbally harassed or yelled at in public after drinking	3.6 (2.4-5.4)	1.5 (0.6-3.5)	2.8 (2.0-4.1)



## Second-hand alcohol-related harms (harms to others) (n=3200)

- Prevalence

	Lifetime Prevalence % (95%CI)	Past-year Prevalence % (95%CI)
Public harms	38.3 (36.6-39.9)	12.9 (11.8-14.1)
Friendship and social network harms	16.1 (14.9-17.4)	6.7 (5.8-7.6)
Family harms	13.2 (12.1-14.4)	5.2 (4.5-6.0)
Work-related Harms	5.5 (4.8-6.4)	1.9 (1.6-2.4)
<i>Any second-hand harms</i>	<i>45.3 (43.5-47.0)</i>	<i>18.2 (16.9-19.5)</i>

Prevalence of second-hand alcohol-related harms in Australia (73%), US (53%), New Zealand (71%), Thailand (79%)  
(Laslett, 2011; Greenfield, 2014; Casswell, 2011; Waleewong, 2017)

- The most common second-hand alcohol-related harms in the past year

	Male (n=1480)	Female (n=1720)	Overall (n=3200)
	% (95%CI)	% (95%CI)	% (95%CI)
Been inconvenienced by drunks vomiting, urinating or littering	10.3 (8.8-11.9)	8.2 (7.0-9.6)	9.2 (8.2-10.2)
Had to go out of the way to help drunk friends	7.6 (6.3-9.0)	4.0 (3.2-5.1)	5.7 (4.9-6.5)
Felt unsafe in public places (e.g. street or MTR)	5.9 (4.8-7.2)	5.3 (4.4-6.5)	5.6 (4.8-6.4)
Been kept awake at night or disturbed by drinkers	5.4 (4.4-6.7)	4.9 (4.0-6.1)	5.2 (4.4-6.0)
Had worries or stress about the drinking behaviours of family members/relatives	4.3 (3.3-5.4)	3.4 (2.6-4.3)	3.8 (3.2-4.5)

# Public acceptability of “Best Buys” (n=4000)



<i>Strategies</i>	<i>% of Supporting Respondents (n=4000) % (95%CI)</i>
<b>Drinking Age Verification for Young Drinkers</b>	
Requesting ID at stores	83.6% (82.4-84.7)
Requesting ID at bars and restaurants	81.4% (80.1-82.6)
<b>Taxation and Pricing</b>	
Implementing a moderate beer and wine tax (e.g. 5-10%)	68.7% (67.2-70.1)
Re-introducing a heavy 30% beer and wine tax	41.4% (39.9-43.0)
Setting a minimum alcohol price	33.7% (32.3-35.2)
<b>Restriction of Availability</b>	
Convenience stores not being permitted sell alcohol after a certain time	51.9% (50.3-53.4)
Introducing “last order times” in bars	44.5% (42.9-46.0)
Limiting the number of alcohol serving establishments outside of the tourist areas	40.7% (39.2-42.3)
<b>Advertisement Restriction</b>	
Banning large alcohol ads on public billboards and public transport	34.9% (33.4-36.4)
Banning all alcohol advertising on TV, radio & magazines	34.2% (32.8-35.7)
Greater social media regulation of alcohol ads	32.9% (31.4-34.4)
<b>Sponsorships and Events Restriction</b>	
Banning alcohol event sponsorship	19.5% (18.3-20.8)
Restricting high publicity drinking events	17.7% (16.5-18.9)

Interventions aiming to change the behaviour of young people are generally more popular than others

- Relatively low prevalence of drinking in HK compared to Western countries
- No beer and wine taxes in Hong Kong

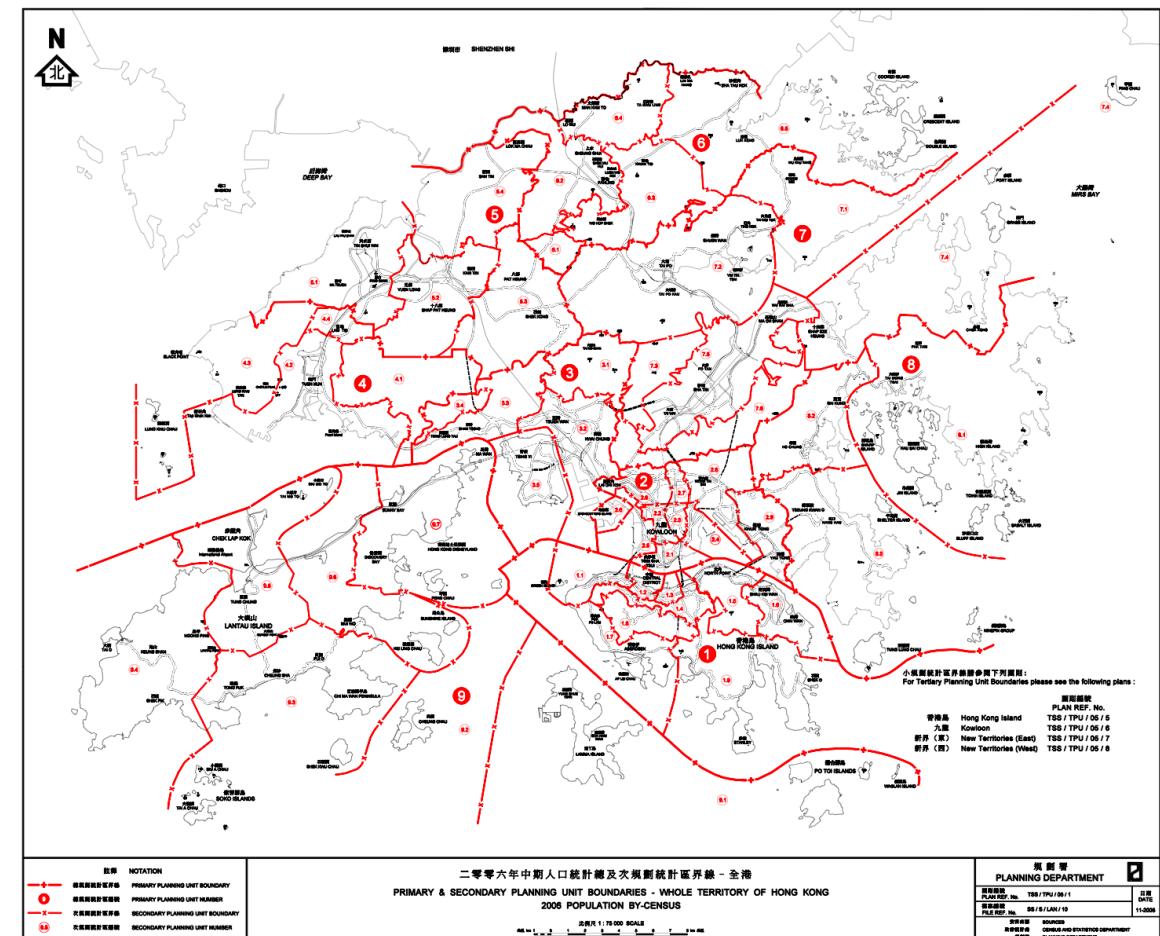
- Laissez-faire economic culture
- “Big market, small government”

# Hong Kong Alcohol Outlet density

- Descriptive characteristics of sample – cluster level

Variable	Clusters (n=39)
	Mean (range)
Number of alcohol serving outlets	219.60 (0.00-1073.00)
Density of alcohol serving outlets ( <i>per 1,000 people</i> )	3.86 (0.00-78.24)

- 93.3% of respondents felt there is no need to change the number of neighbourhood alcohol outlets.
  - **No significant association** between alcohol outlet density and the experience of any first-hand or second-hand alcohol-related harms **except for being inconvenienced by drinkers**





## Results: Perceived consequences of “Best Buys” (n=4000)

Will reduce  
underage drinking

Will reduce alcohol-  
related harms

<i>Consequences of strategies</i>	<i>% of Supporting Respondents (n=4000)</i>
<b>Drinking Age Verification for Young Drinkers</b>	<b>% (95%CI)</b>
Will reduce underage drinking	82.4 (81.1-83.5)
Is bad for business and economy	28.5 (27.1-29.9)
Will negatively affect local lifestyle	27.0 (25.6-28.4)
<b>Tax and Price Increases</b>	
Will reduce alcohol-related harms in Hong Kong	57.9 (56.3-59.4)
Is bad for business and economy	41.7 (40.1-43.2)
Will negatively affect local lifestyle	35.7 (34.3-37.2)
<b>Restriction of Availability</b>	
Will reduce alcohol-related harms in Hong Kong	68.9 (67.4-70.3)
Is bad for business and economy	48.5 (47.0-50.0)
Will negatively affect local lifestyle	40.9 (39.4-42.4)
<b>Advertisement Bans</b>	
Will reduce alcohol-related harms in Hong Kong	34.1 (32.6-35.6)
Is bad for business and economy	34.0 (32.5-35.5)
Will negatively affect local lifestyle	25.3 (24.0-26.7)
Will infringe economy freedom	40.3 (38.8-41.8)
<b>Sponsorships and Events Bans</b>	
Will reduce alcohol-related harms in Hong Kong	35.6 (34.1-37.1)
Is bad for business and economy	46.2 (44.6-47.7)
Will negatively affect local lifestyle	29.7 (28.3-31.1)
Will infringe economy freedom	44.7 (43.1-46.2)

Bad for business & economy

Will negatively affect local lifestyle  
and Hong Kong's global image

Will infringe on economic freedoms



## Drinking & Harms Levels

- Low prevalence of past-year drinking (29.7%) and past-month binge drinking (5.5%)
- Moderate level of harms in the past year
  - First-hand harms (21.2%) *among past-year drinkers*
  - Second-hand harms (18.2%) *among general population*
  - High-risk groups: young people and binge drinkers
- Very low prevalence of serious drinking-related harms (e.g. assault, injury) due to lack of firearms, 24-hr public transport and high visibility of criminal behaviors

## Public Acceptability

- Currently very limited regulation of alcohol.
- Low public acceptability for most alcohol harms reduction measures except those that prevent underage drinking and drink driving
- Low acceptability for reductions in alcohol marketing
- Concerns about harming the economy and image of Hong Kong as a global tourist destination

## What is the Feasibility

What is the perceived feasibility of implementing the more acceptable WHO's Alcohol "Best Buys" to Hong Kong based on a key informant interviews of individuals with expertise in the adoption and implementation of alcohol policies?



## Data collection

- **Design:** Semi-structured in-depth interviews of 17 key informants involved in the sale, distribution, promotion, and control of alcohol (n=4 government officials, 4 F &B workers, 5 alcohol retailers, 4 alcohol marketing professionals)– individual recruited until data saturation was achieved.
- **Time and setting:** March 2019 – March 2021, Hong Kong Interviews were guided by a pilot-tested interview protocol, and audio-recorded after obtaining informed consent from participants
- **General views of alcohol** as a public health problem in Hong Kong

*[Interviewees were presented the result of public acceptability from the previous telephone survey]*

- Age verification for alcohol purchase in stores, bars and restaurants
- Moderate beer and wine taxes (e.g. 5-10%)
- Convenience stores not being permitted sell alcohol after a certain time
- Bars should have ‘last orders’

- Views on the **feasibility** of the most publicly endorsed “Best Buys”
- Perception of **potential impacts** of implementing the above strategies
- Alcohol policy actions perceived to be **feasible and effective**





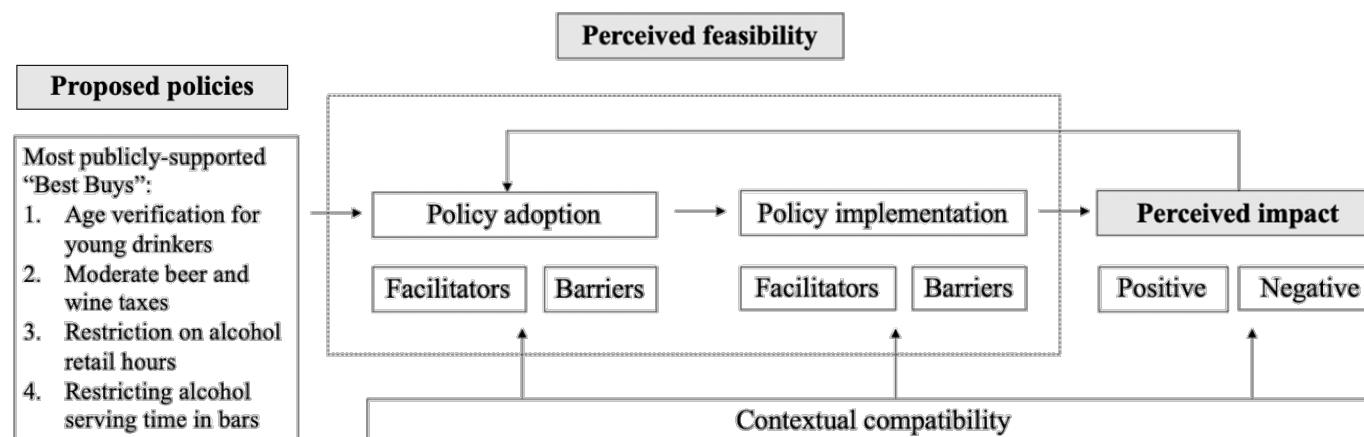
## Qualitative thematic analysis

- **Verbatim transcription and coding**
- **Combination of deductive and inductive analyses**

- Deductive approach

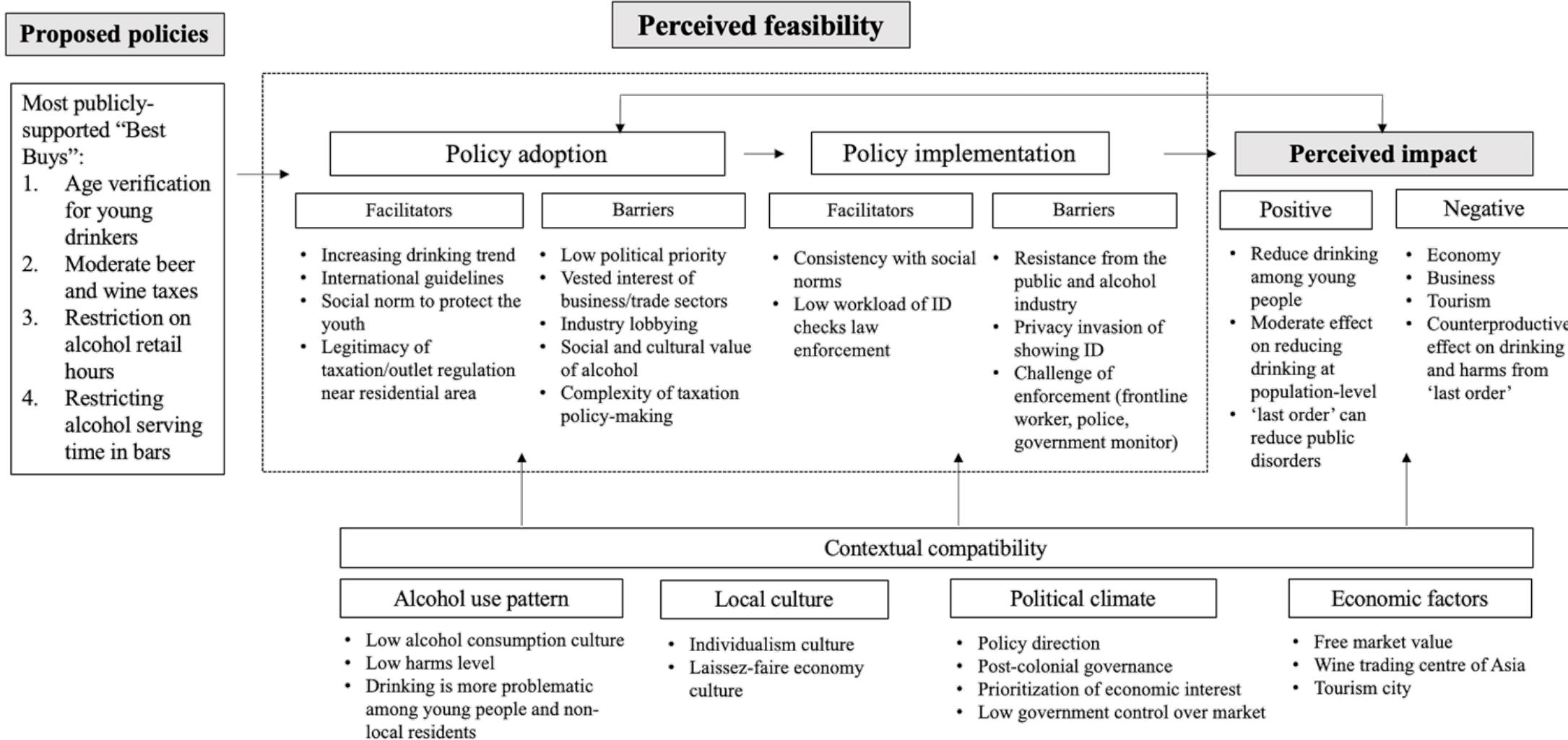
- “*The process of collective political decisions could be divided into phases **policy adoption and implementation**.*”  
——Weimer and Vining, 2010

- Initial thematic headings:
  - Possible barriers and facilitators to policy adoption and implementation
  - Perceived short-term and long-term impacts on drinking, local environment, and stakeholders
  - Contextual factors that influence the policy-making and policy impact



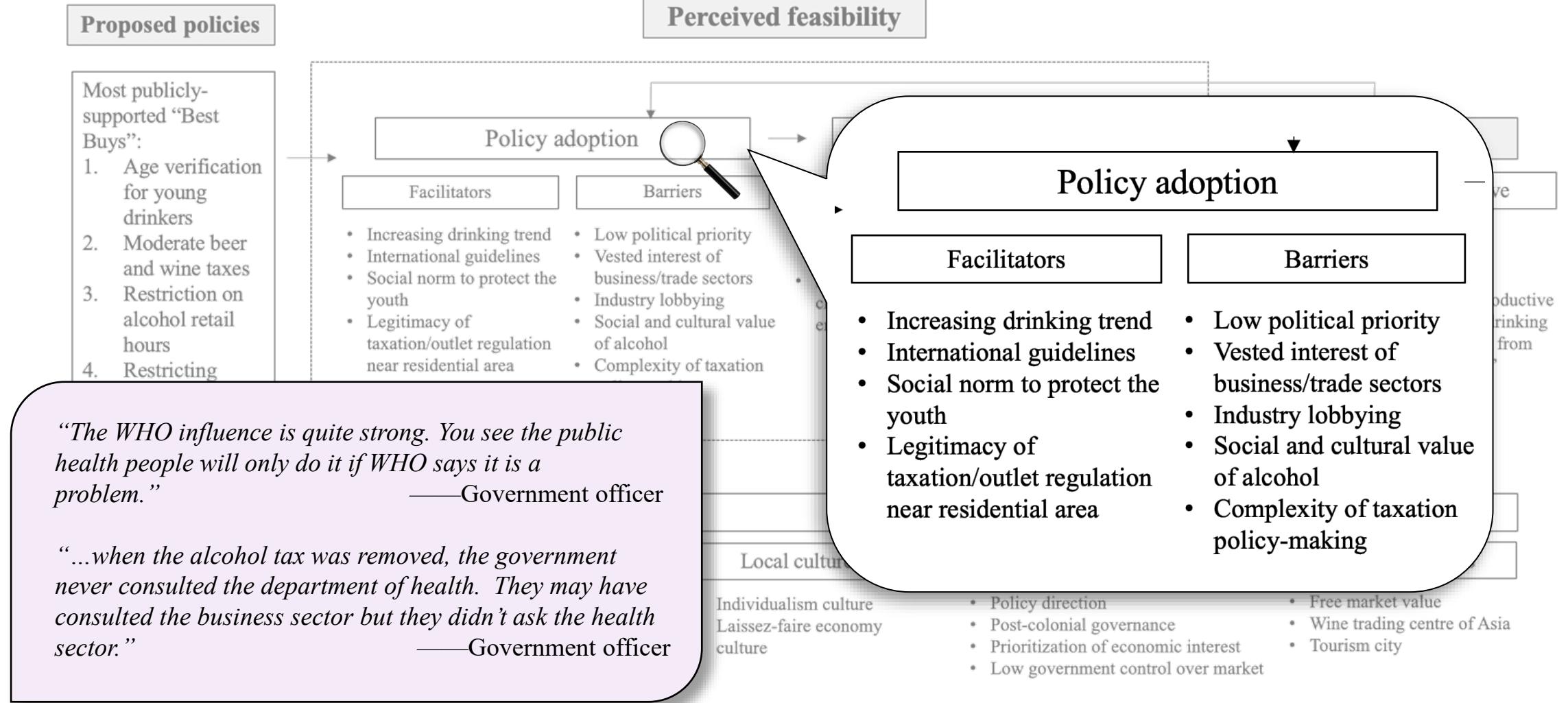


## Thematic Structure

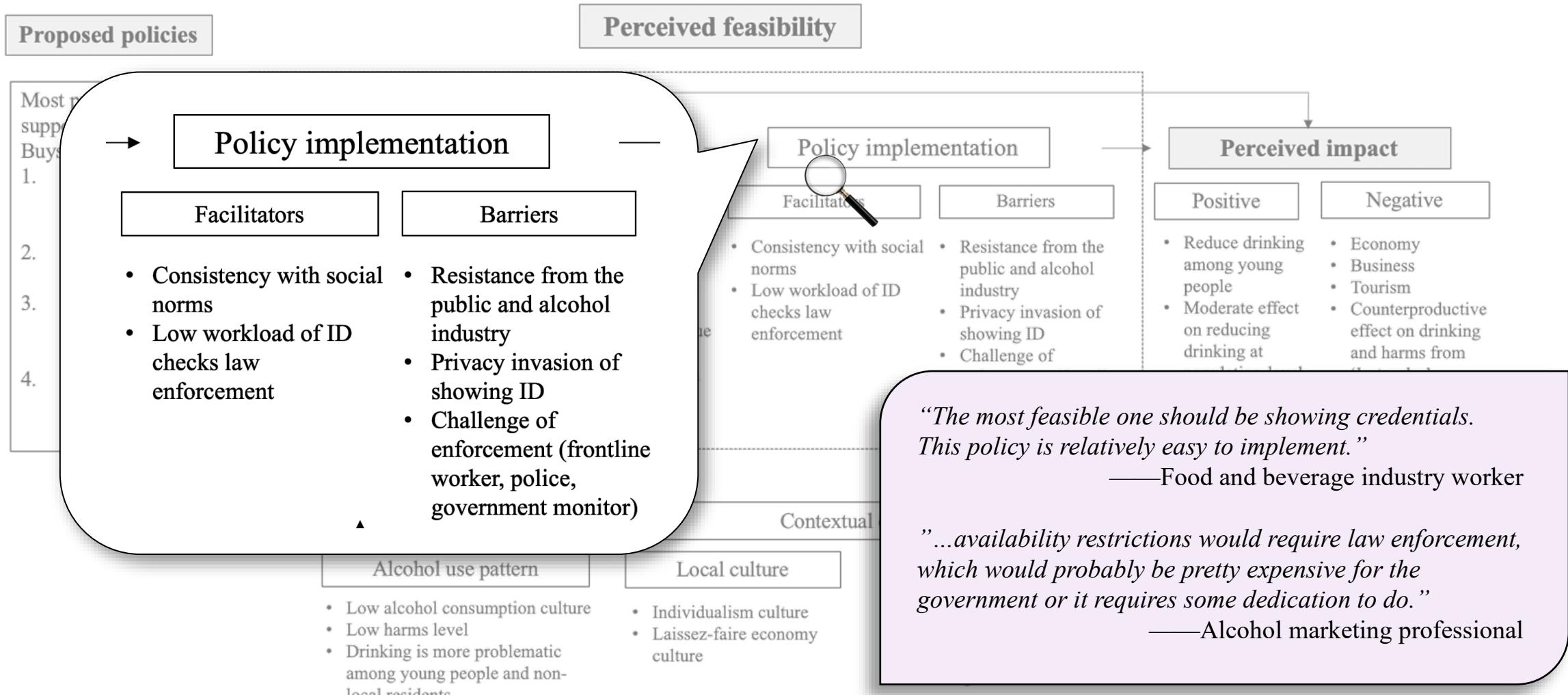




## Results: Themes

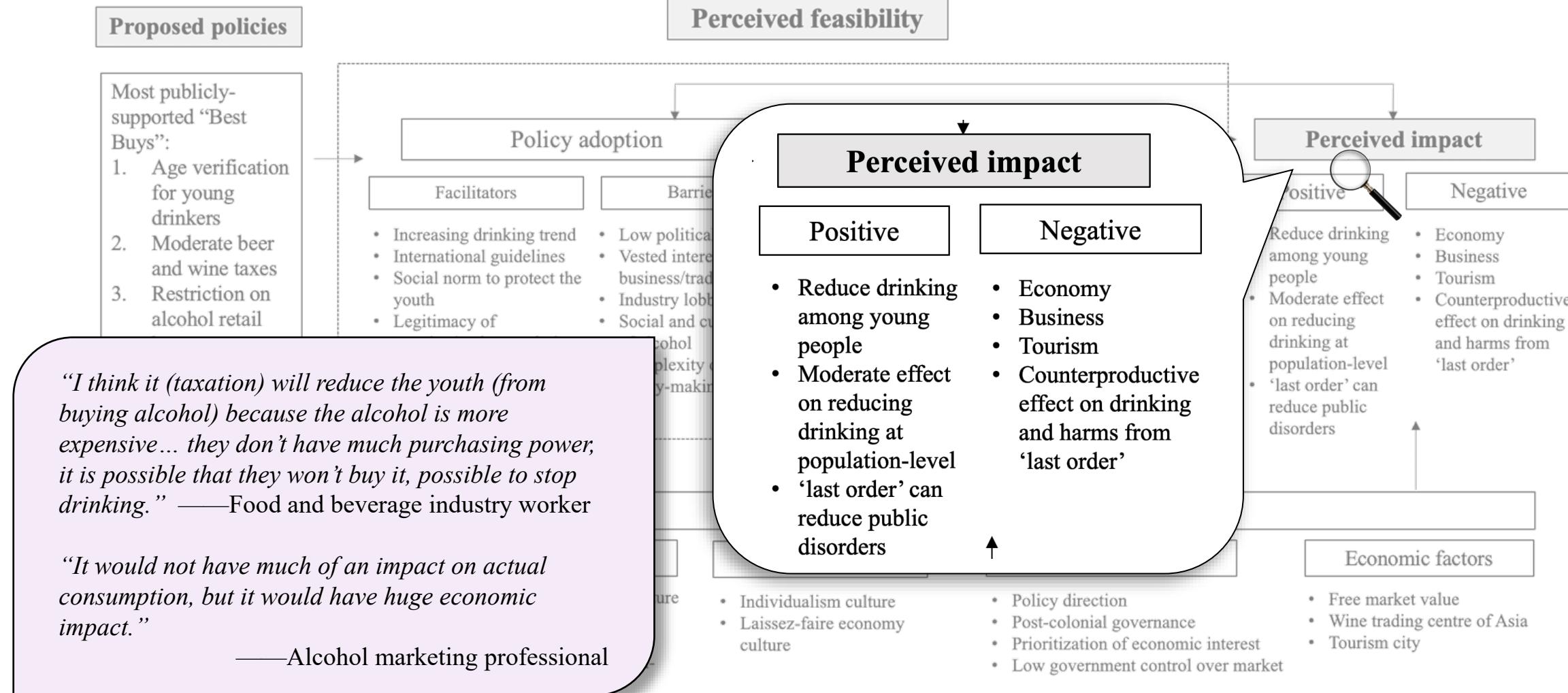


# Results: Themes



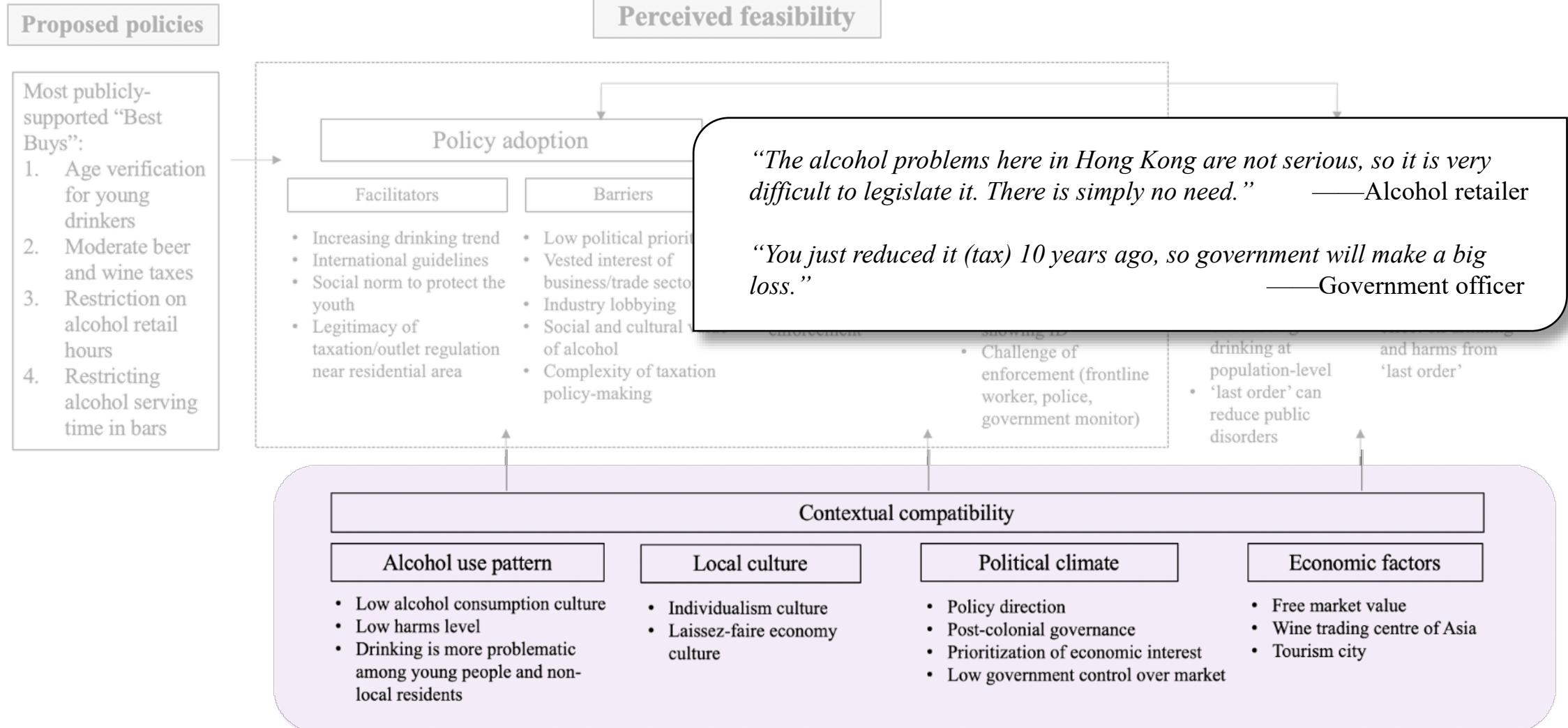


## Results: Themes





## Results: Themes





## Main Findings

- Alcohol marketing restrictions
  - Least public support; lowest perceived effectiveness; minimal priority
- Moderate beer and wine tax and bar service hour restriction
  - Fair public support but low feasibility of adoption and implementation in real world
  - Lack of political pressure; complicated vested interests in policy-making (e.g. increased revenue for government)
- Age verification for alcohol purchase
  - Highly supported and feasible, but is currently under enforced

## Barriers

- Barriers to public support: scepticism of policy effectiveness; negative expectancies on local economy, Common belief in health benefits of moderate drinking and low belief in harms, Laissez-faire economic culture
- Barriers to alcohol policy adoption: industry lobbying, lack of advocacy, insufficient scientific evidence of harms, general attitude that government should have a noninterventionist role in affairs that may affect the economy

## Possible Options

- Education & information campaign of alcohol-related harms and effectiveness of harms countermeasures
- Greater involvement of relevant stakeholders (e.g. health professionals, law enforcement) in alcohol policy formulation



- A limitation of the current study was that some potentially relevant stakeholder groups (e.g. law enforcement) were not interviewed.
- When adopting global-level recommendations, local contextual factors must be analysed and carefully considered
- Implementation of measures must be contextualized for local settings
- There is a need for an international guideline on application of international findings to local contexts



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Thank you!



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## Stakeholder category and job description of interviews

<i>Interviewee</i>	<i>Stakeholder Category</i>	<i>Job Position</i>
Interviewee 1	Alcohol retailer	Convenience store cashier
Interviewee 2	Alcohol retailer	Wine specialty shop owner
Interviewee 3	Alcohol retailer	Beer counter owner
Interviewee 4	Alcohol retailer	Beer company manager
Interviewee 5	Alcohol retailer	Online alcoholic beverage store corporate development manager
Interviewee 6	Food & beverage industry	Restaurant & Bar waitress
Interviewee 7	Food & beverage industry	Hotel catering manager
Interviewee 8	Food & beverage industry	Restaurant & Bar manager
Interviewee 9	Food & beverage industry	Wine bar manager
Interviewee 10	Marketing professional	Alcohol company marketer
Interviewee 11	Marketing professional	Online wine app marketer
Interviewee 12	Marketing professional	Alcohol magazine marketer
Interviewee 13	Marketing professional	Alcohol company marketing executive
Interviewee 14	Government officer	Government officer in alcohol control
Interviewee 15	Government officer	Public health practitioner in non-communicable disease
Interviewee 16	Government officer	Member of executive council
Interviewee 17	Government officer	Consultant for the government on public health