Document 15



Central Bank Digital Currency (CBDC) Aparangi ā Te Pūtea Matua CBDC Forum Session 5

Friday, 12 May 2023

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Nau mai, haere mai Welcome

Katy Simpson



Housekeeping

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Relationship Charter.

The Reserve Bank aspires to build and maintain the best 'regulator/regulated' supervisory relationships possible, with all the different regulated entities. This Charter represents a mutual undertaking of how the parties will work together to achieve this aspiration. We will regularly measure our performance against the commitments set out in the Charter and share the lessons.

Our mutual commitments

Our behaviours will be

Honest

positions are openly stated, constructively, freely and frankly

Diligent

provide clear expectations and deliver on them

Achievement focused

work together to achieve sound and efficient outcomes

Open-minded

each other's perspective is constructively sought and understood

Professional

disagreements can happen on issues, not people

Our communication will be

Clear

easily understood, with decisions explained

Targeted

made to the right people in governance and management

manifestion vin be

one organisation, one message, one tone

Consistent

Timely

communication with no surprises

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Ground rules

Relationship charter

- Respecting diversity of background, thought and expression
- Encouraging participation and fun
- Chatham House rules

Probity

- No anti-competitive behaviour (price-setting, division of markets, agreements lessening competition, cartels etc), and raise a hand if concerned
- This is a "sales pitch free zone"
- Mis/representing CBDC Forum membership or its work



CBDC Forum members

Name	Organisation	Name	Organisation
Adrian Smith	BlinkPay	Alexandra Sims	University of Auckland
Brian Bonar	ANZ	Conrad Morgan	Worldline
David Corbett	PowerFinance	Fran Strajnar	Techemy
Jane Retimana	Payments NZ	Jennifer Ferreira	Victoria University
Joanne Dacombe	Disabled Persons Assembly	John Warwick	Foodstuffs
Michelle Kitney	Volunteering NZ	Mitchell Pham	FintechNZ
Paul Quickenden	EasyCrypto	Simon Jensen	Buddle Findlay
Andrew Dodd	ASB	Mitesh Mistry	Kiwibank
Lee Timutimu	Arataki Systems		



Chair and secretariat

Chair	Katy Simpson
Secretariat	Navina Soondram
	Makoto Seta
RBNZ Team	Tim Duston
	Amber Wadsworth
	Andrew McCallin



Agenda for today

Time	#	ltem	Presenters			
10:00am	1.	Welcome	Katy Simpson			
10:10am	2.	Exploring the relationship between use cases and design choices	Accenture / Tim Duston			
11:10am	11:10am Break					
11:15am	3.	Exploring the relationship between use cases and design choices (cont'd) Accenture / Tim Duston				
12:15pm	Lu	unch				
1:05pm	4.	Update from the Reserve Bank	Katy Simpson			
1:20pm	5.	Feedback on "What success looks like" & Open discussion	Tim Duston / Andrew McCallin			
1:50pm	6.	Wrap up	Katy Simpson			
2:00pm	Cl	ose				





Exploring the relationship between use cases and design choices

Accenture / Tim Duston

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Recap & update on CBDC explorations

- Last meeting the Forum commissioned an 'exploration' focusing on CBDC use cases
- RBNZ has worked with our new exploration partner to commission this activity
- RBNZ has engaged Accenture as our Exploration partner
- RBNZ's explorations with Accenture include a focus on: supporting wide user adoption and inclusion; privacy; configuration options; innovative payments; reliability, safety and scalability; and operational capability requirements
- Deliverables include developing key use cases and user journeys
- RBNZ external communications about this engagement will be forthcoming shortly
- Accordingly, Accenture has provided the attached advance content and will be running the interactive session on use cases with the Forum



Exploring the relationship between use cases and

Accenture / Tim Duston

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design choices (cont'd)



Item 4:

Update from the Reserve Bank

Katy Simpson



Item 5:

Feedback on the request "What success looks like"

Tim Duston, Andrew McCallin

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Background

- The following question was proposed in the CBDC Forum on 15 May:
 Given your experience, understanding, and perspective as a CBDC Forum member, what do you think success looks like for a CBDC in Aotearoa New Zealand?
- Responses received from 9 Forum members
- These have been summarised & synthesised into themes
- Let's discuss how well these capture and reflect members collective views



Word cloud



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Themes

- **Beneficial** Benefits of CBDC must outweigh costs, for NZ and everyone
- **Efficient** Fast, easy, secure payments, lower costs, efficiency important
- Useful Users need compelling case, CBDC needs to be understood, easy to use, accessible and inclusive
- Innovative Innovation & programmable payments could give the edge over cash
- Collaborative Complements existing industry work rather than duplicating it
- Cross-border and wholesale important to some



Discussion

The Forum is invited to discuss generally the 'success' themes – do they capture what you were expecting?

What would the Forum like to do as a next step?

- 1. No further action?
- 2. Develop Forum success statements?
- 3. Something else?



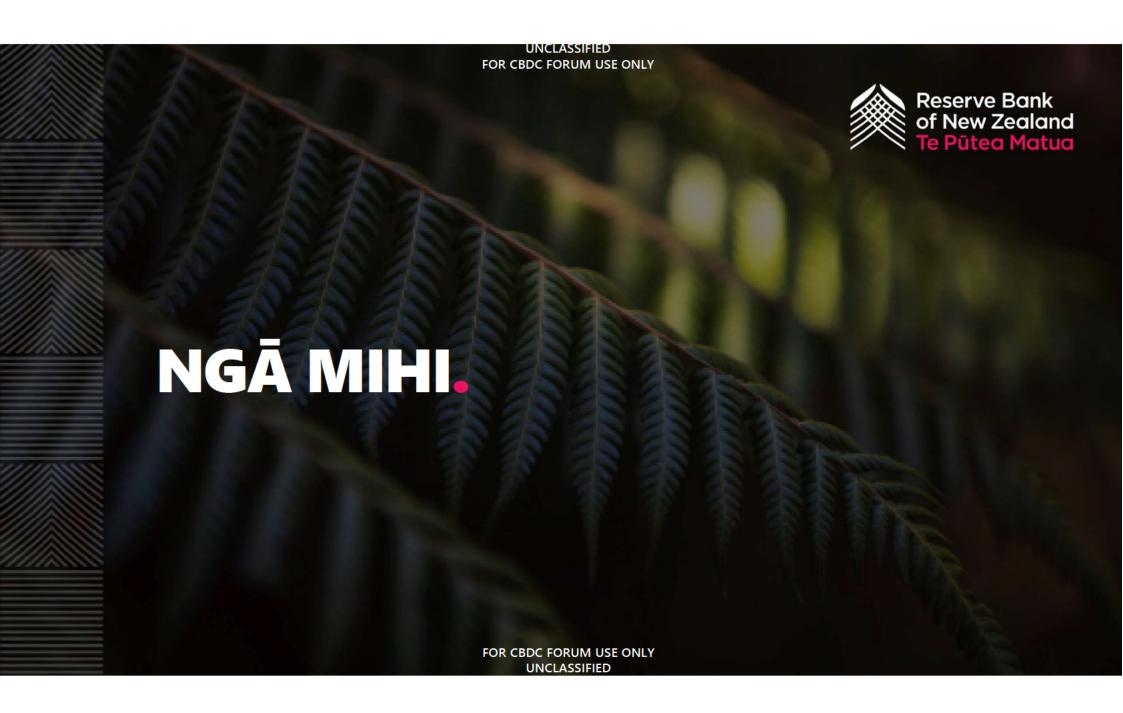


Item 5: Open discussion



Item 6: Tākai | Wrap up

Katy Simpson



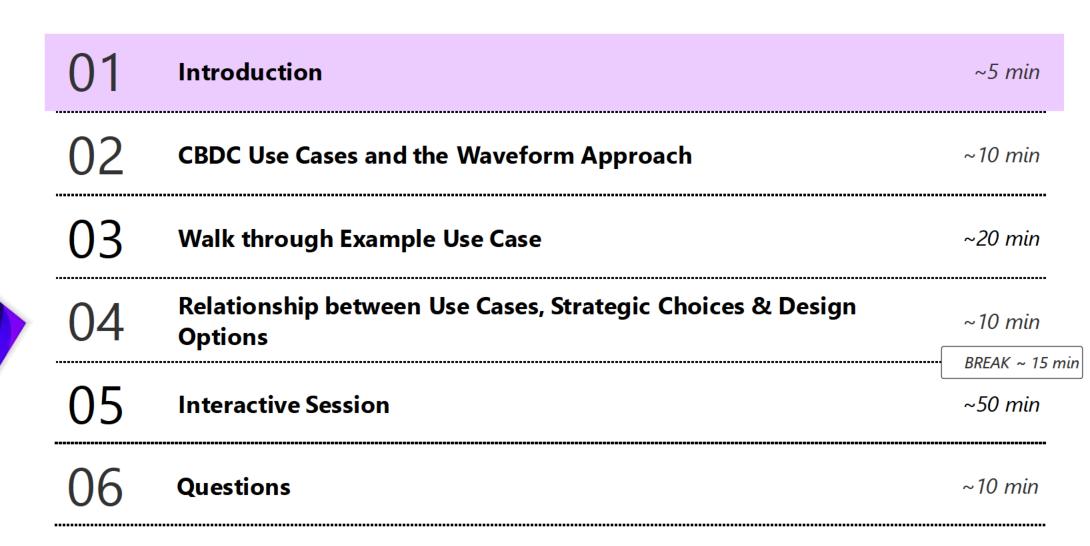
CBDC FORUM The relationship between Use Cases and Design Choices

12th May 2023



AGENDA

Part 1 – Introduction & Explore CBDC Use Cases for Strategic design







Introductions

accenture

Governance / Leadership Team

Core Delivery Team



Lori Hand Managing Director RBNZ Client Lead



Andrew Symons Managing Director Financial Services, NZ



Ryan McQueen Managing Director Payments & Open Data, ANZ





Tim Duston CBDC & Payments Advisor



Reserve Bank of New Zealand Te Pūtea Matua

Ian Woolford

Head of Money & Cash

Andrew McCallin **CBDC Business** Analyst



Matthew Wright Delivery Lead

Neysan Zolzer

Service Designer



Charles Cameron **Functional Consultant**

Corrina Halford

Functional Analyst



Robert Langley Lead Architect Payments & Digital Currencies



Mike Aston **Executive Advisor Payments** and Digital Currencies



Amber Wadsworth CBDC Policy Lead



Katy Simpson Money & Cash Policy Manager



Pallavi Sami Project Analyst



Nalin Lad Digital Currency Global Co-Lead

Global SME Pool



Maria Guseva Senior Payments and Banking Principal



Nicola Speir Senior Project Manager.

Kosta Hahladakis

Enterprise Architect



Nigel Somerfield Principle Architect



Dr. Ousmene Mandeng Global Economics Lead of Monetary Innovation



Anna Potapova CBDC Technical Delivery Manager



Deepak Lalan Managing Director Blockchain Practice Lead, India



Sunil Krishnan Simulation Environment Lead



Navina Soondram **Project Coordinator**





Petar Zelic Global Blockchain Architect



Peter de Rooii Global Blockchain Architect





Accenture's Assignment

The brief

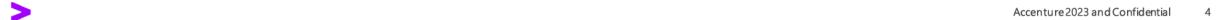
- Apply 80/20 rule
- Set RBNZ up for 'design options'
- Focus on use cases

Approach

- Collaborative
- Workshops
- Cross-RBNZ teams
- Draw from Accenture tools and international CBDC experts

Deliverables

- Insights dossier
- Priority use cases (4)
- User journey maps (4)
- Resulting design options / choices



CBDC Use cases and the Waveform Approach

USE CASES

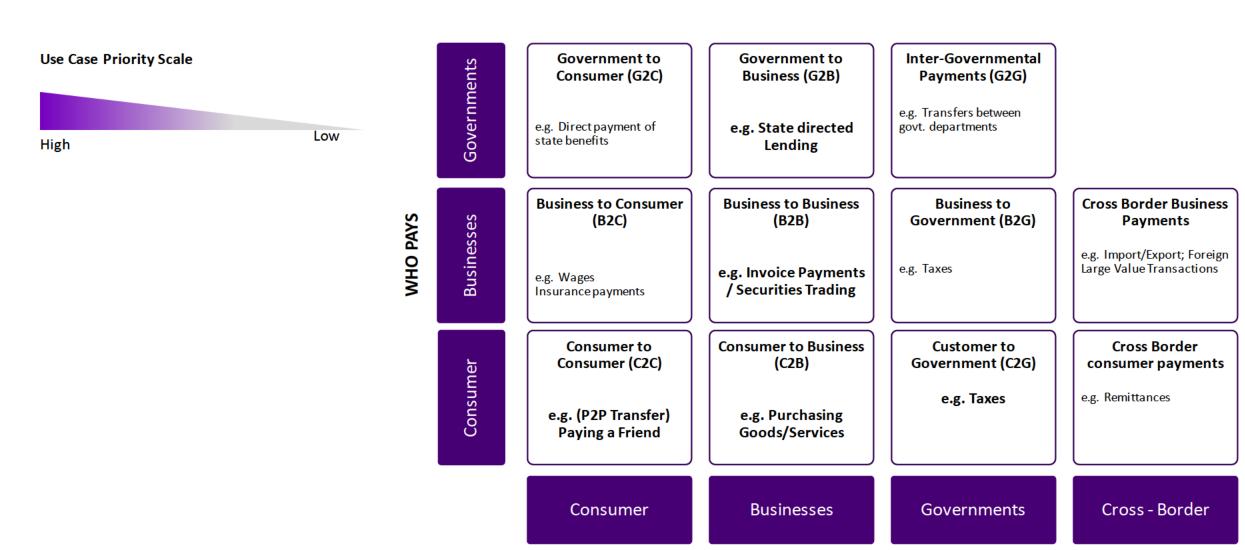
- Use cases are obviously a fundamental component of a payment ecosystem
- Some use cases are hygiene, some address policy objectives, some can be non-financial
- In an exploration process such as this, they also serve as a useful vehicle to explore the capabilities and design choices that need to be invoked to deploy and support the use case operationally, within the guard rails of the strategic CBDC principles such as privacy and security
- During RBNZ's current exploration phase, we have used a number of use cases, selected from a long list, to work through a collaborative process covering:
 - Use Case Matrix
 - Use Case Prioritisation
 - Use Case Evaluation





USE CASES MATRIX

Focus Areas







USE CASE PRIORITISATION

Long-list

Create a long list of Use Cases that are relevant for the market

- Policy research work
- Internal brainstorming session
- Joint brainstorming sessions with market participants

Prioritization framework

Choose the decision criteria and their weights to prioritize use cases

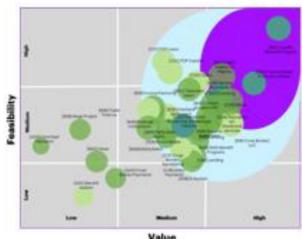
- Market potential (value to consumers)
- Strategic alignment (policy objectives, vision or strategy)
- Feasibility (speed, efforts, risks)

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		-	Technology / Complexity	To take the set is the furthermost of an experiment forward.

Short-list

Assess use cases and apply weighted criteria to get a short list of Use Cases

- Long list of use cases
- Decision making framework
- Analytical and expert inputs on weighted parameters

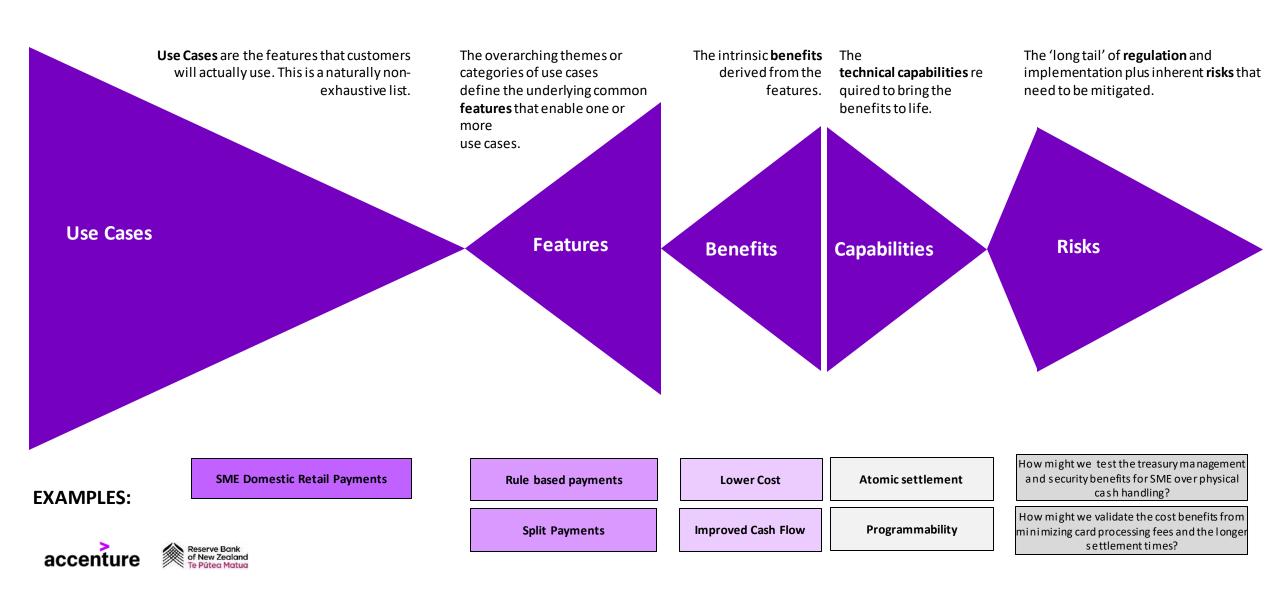








WAVEFORM APPROACH TO EVALUATING USE CASES



USE CASE EXAMPLE

USE CASE EXAMPLE 1 – OFFLINE PAYMENTS

CHALLENGE

Kiri is a resident of the East Coast North island where she is a well know member of the community. Her available bank branch is some distance away and is therefore inconvenient to visit. She has a modern smart phone and is comfortable accessing the internet and social media. She only uses cash when there is no alternative so prefers digital payments, however, mobile coverage is patchy. The area also has a history of severe weather events impacting the community which can cause outages in both POS and online payments. She is reluctant to hold a stash of cash in case of emergencies due to security issues and limited cash flow.

POTENTIAL SOLUTION

In a world with CBDC, Kiri would have the ability to access digital wallet services through her smartphone. She would continue to use her bank for managing her normal financial affairs but this capability would provide her with a payment option and importantly, with offline capability, could be used when there was no access to internet or related outages.

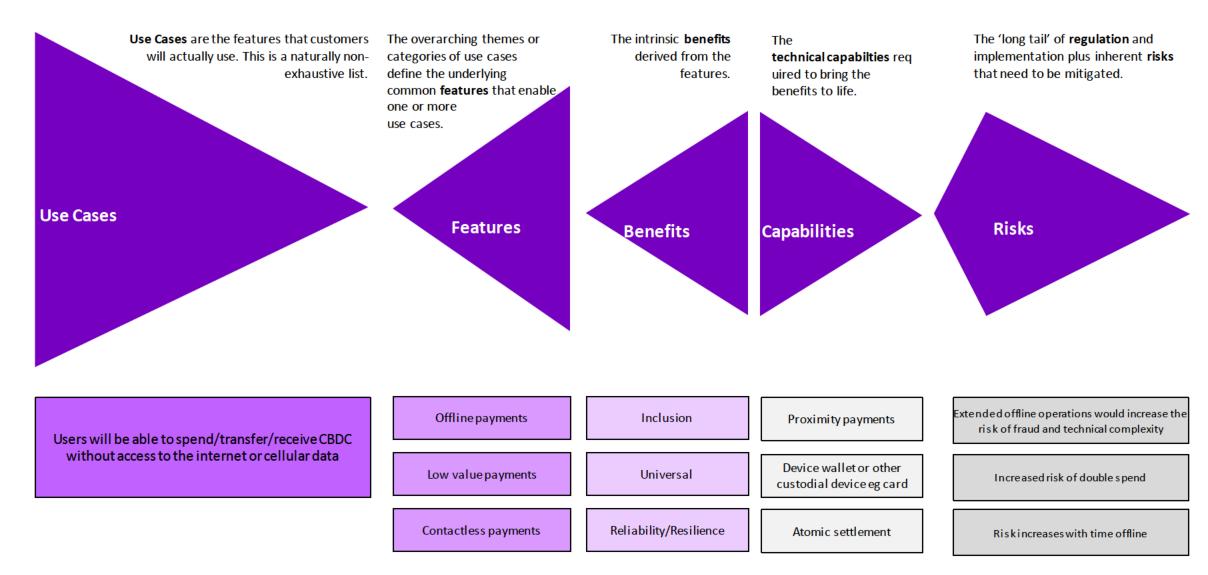
The offline payment capability would therefore support the following related use cases:

- Another option for everyday payments and purchases, especially in remote areas
- The ability to use the CBDC in her wallet to pay for essentials during major disruptions to services caused by severe weather events or catastrophic technology failures even if this disruption continues for a number of days
- For social payment scenarios (low value) within the community to family, friends, whanau, local clubs, schools





USE CASE 1 ANALYSIS



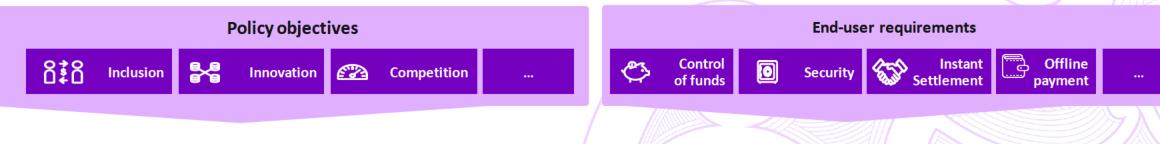


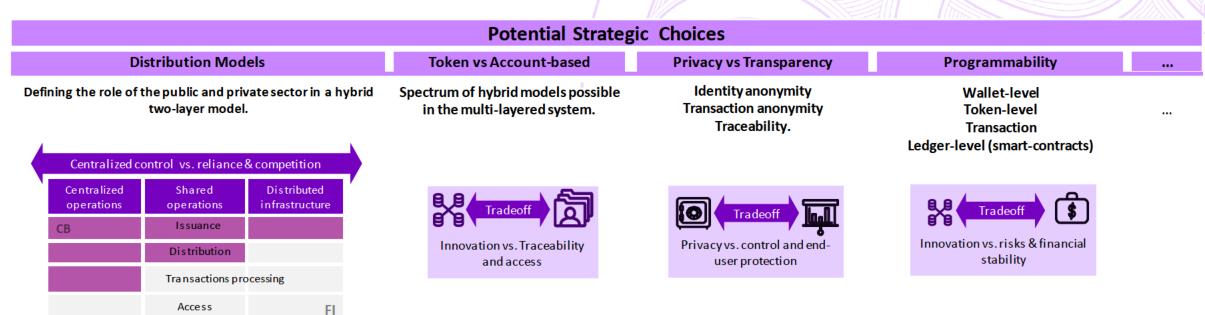


Relationship between Use Cases, Strategic Choices & Design Options

CBDC Strategic Choices and Tradeoffs

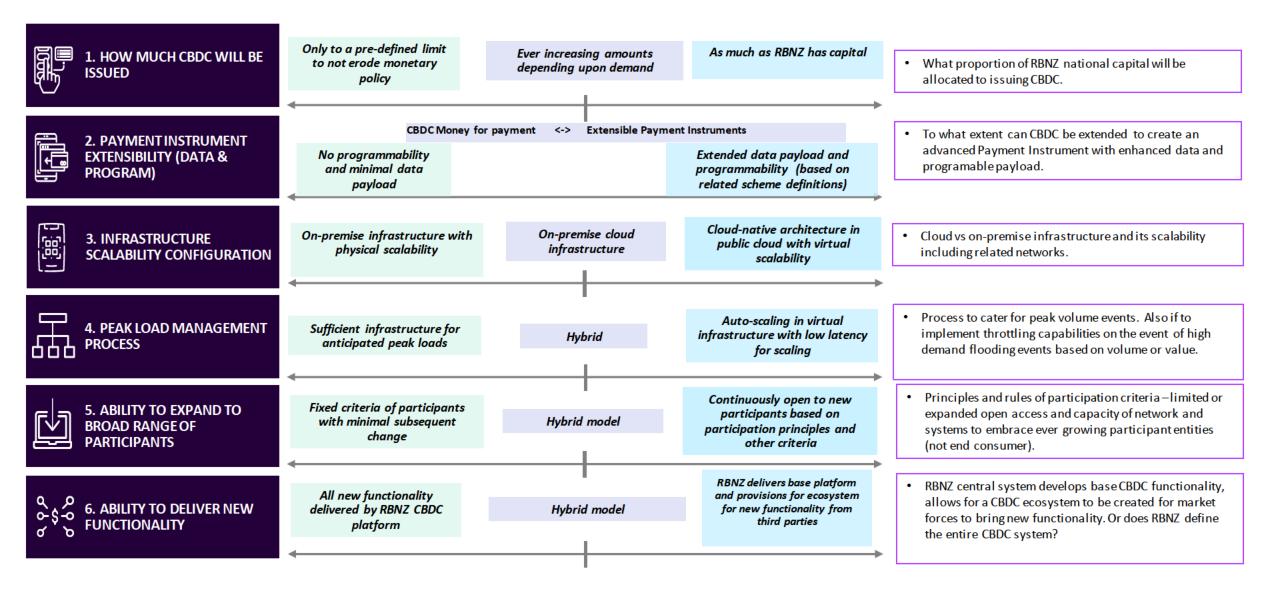
Policy objectives and end-user requirements will determine strategic choices and system capabilities.





RELIABILITY, SAFETY, SCALABILITY STRATEGIC CHOICES

SCALABILITY

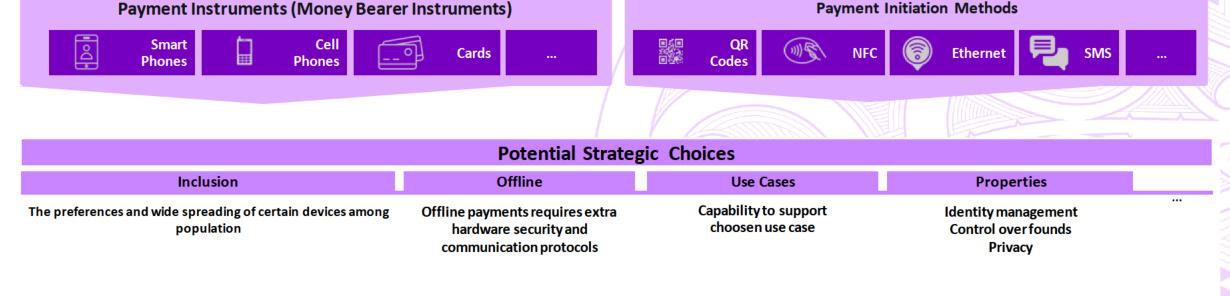


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ADOPTION AND INCLUSION

"Last Mile" Instruments

Choice of the payment devices and payment initiation method strongly depends on different factors such as offline payments, innovative use cases, CBDC properties etc. To provide wide adoption and inclusion chosen device should be accessible by the whole population



Of New Zealanders
do not have smartphone
Statista 2021







INTERACTIVE SESSION



INTERACTIVE SESSION INSTRUCTIONS

- Two Groups will work through a Use Case Ideations and Analysis exercise
 - Group 1 those online + Facilitator Tim Duston On Miro Board
 - Andrew Dodd ASB
 - Conrad Morgan Worldline
 - Paul Quickenden EasyCrypto
 - Fran Strajnar Techemy
 - Mitchell Pham FintechNZ
 - David Corbett PowerFinance
 - Simon Jensen Buddle Findlay
 - Alexandra Sims University of Auckland
 - Lee Timutimu Arataki Systems
 - Group 2 those in person + Facilitator Andrew McCallin In Room
 - Brian Bonar ANZ
 - Mitesh Mistry Kiwibank
 - Joanne Dacombe DPA
 - Michelle Kitney Volunteering NZ
 - Jennifer Ferreira Victoria University
 - John Warwick Foodstuffs





INTERACTIVE SESSION INSTRUCTIONS

- Each group are to work together to analyse 2 Use Cases by completing the waveform table as below
 - Those online will complete the table on the Miro Board Charles Cameron will be your 'scribe' to capture your ideas/points/decisions on the Board
 - Those in the room will have hard copy materials for the collaboration
- Either ideate use cases within your group or pick use cases from the examples provided (on Miro Board and hard copies In Room)
- Approximately 40 minutes to complete the exercise, then elect a spokesperson(s) to discuss your results (5 minutes)

Focus Area	Use Case	Features	Benefits	Capabilities	Risks
Eg. P2P, B2C, B2B	A brief description of the Use Case	The underlying common features eg lowvalue payments	The intrinsic benefits derived from the features eg inclusion	The technical capabilities required to bring the benefits to life	Inherent risks that need to be mitigated eg fraud
USE CASE 1					
USE CASE 2					





QUESTIONS

