

Bank of Tanzania Academy pre-graduation research presentation

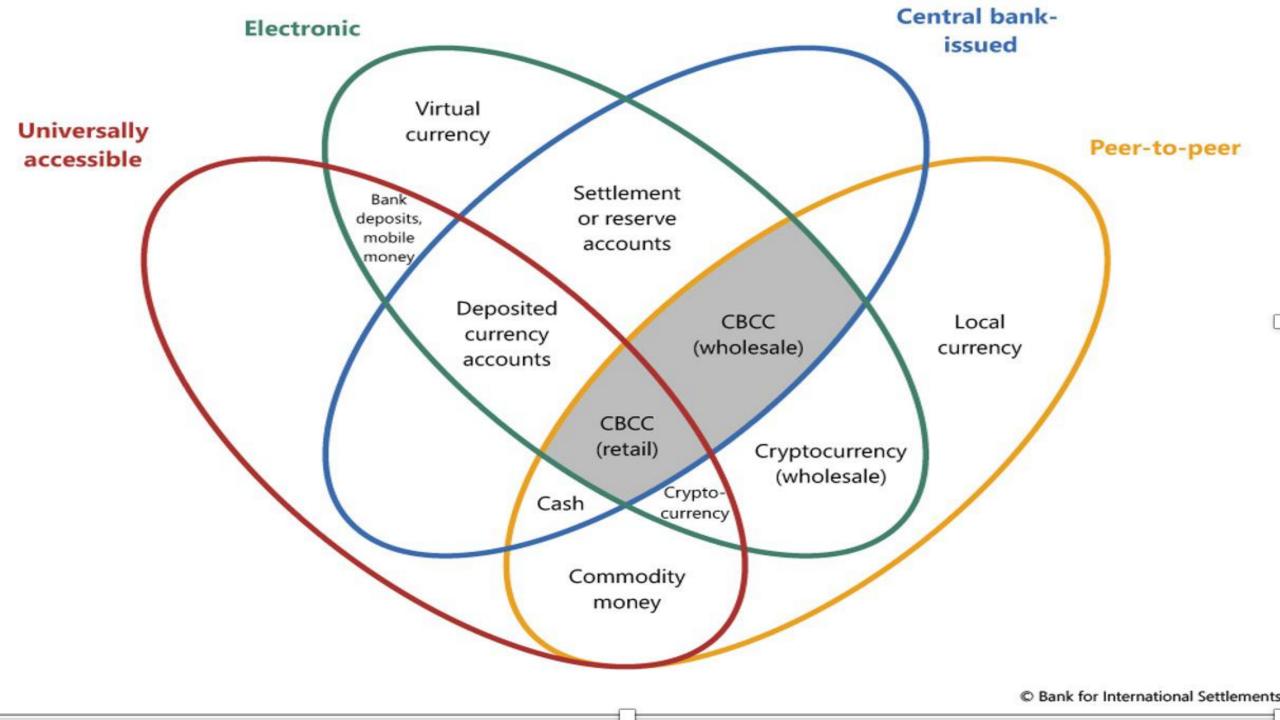
Assessment of the opportunities and risks of technology adoption in the national payment systems.



Purpose

The purpose of this presentation is to share with the delegates the opportunities, challenges and risks associated with technology adoption in the national payment systems





Leveraging Technology

- Centralised architecture can be extremely efficient in terms of speed, cost and reduced waste, but can be inflexible and monolithic.
- 2. Effective governance can be achieved through centralised planning and control, but this risks disenfranchising the authorities responsible for individual benefit delivery.
- 3. Re-use or sharing of existing infrastructure has large potential benefits, but may force benefit programs to limit or adapt what can be supplied, to the detriment of the recipient.
- 4. Reliance on private and/or competitive service delivery at various points in the value chain can improve prospects of timely delivery and spread economic benefits widely, but risks system capture by private interests.

South African Approach to Payment System Development

Develop Vision and Strategies for Payment System Development

- Vision 1995 to 2005 NPS Legal Framework and RTGS
- Vision 2010 Risk Reduction Measures
- Vision 2015 Embedding of Principles for Financial Market Infrastructures
- Vision 2025 as per next Slide



Industry goals



Promoting competition and innovation



Transparency and public accountability



A clear and transparent regulatory and governance framework



Financial inclusion



Cost-effectiveness



Financial stability and security



Regional integration



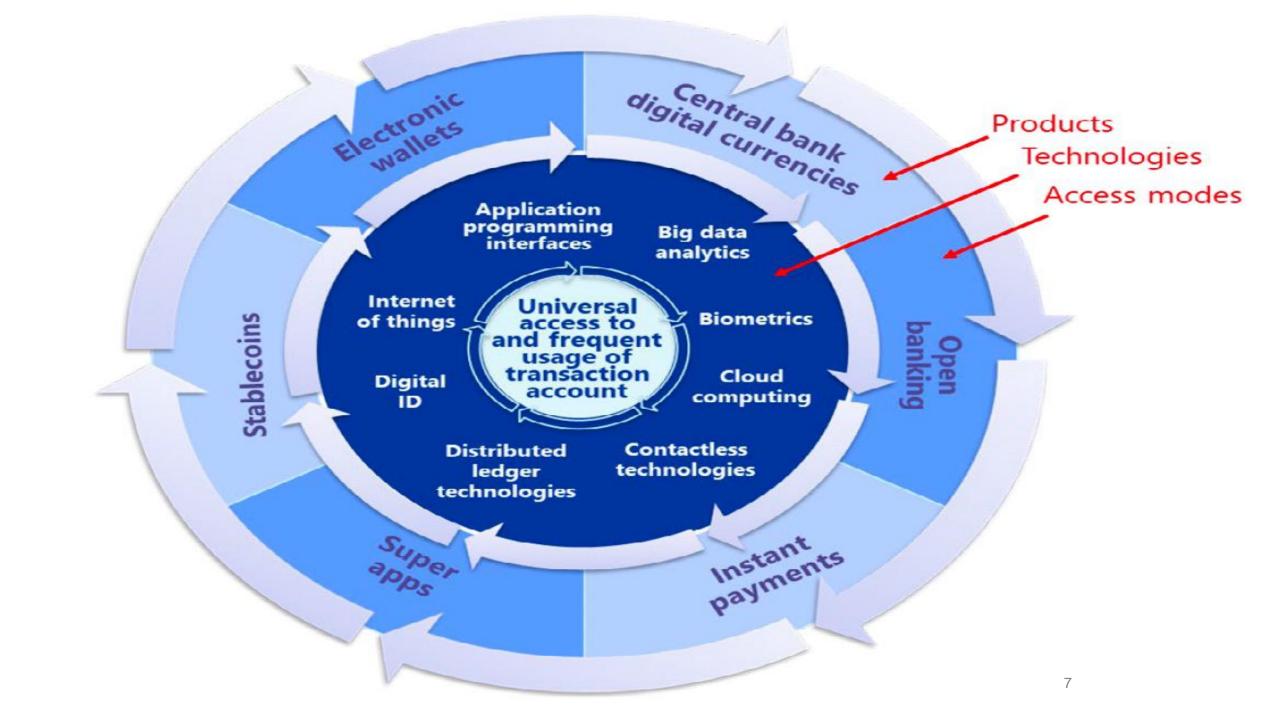


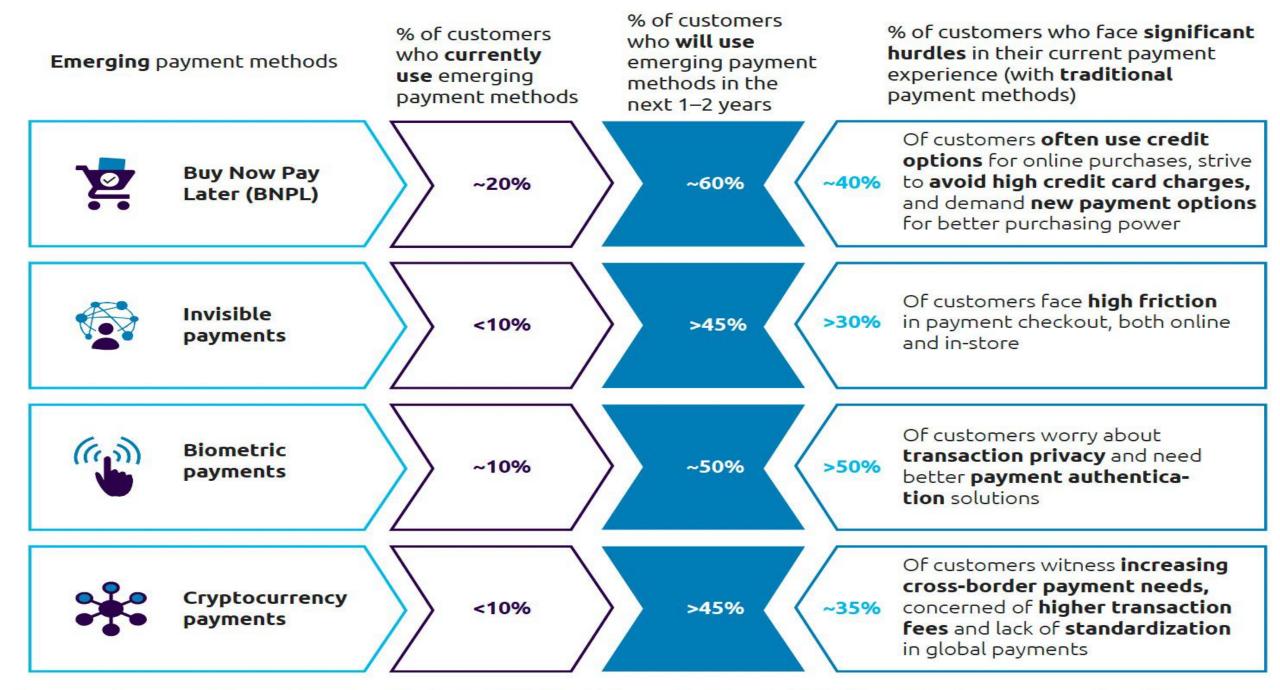
Flexibility and adaptability

Relevant Key Goals from Vision 2025:

- Promoting Competition and **Innovation**
- Financial Inclusion
- Cost-effectiveness
- Interoperability
- Flexibility and Adaptability







Sources: Capgemini Financial Services Analysis, 2021; World Payments Report 2021 Voice of Customer survey, N=6,300.

Interoperability & Shared Infrastructure

Design choices

Enablers for Accessible and Choice-based G2P Payments

Regulations & Policies

Systems & Infrastructure

Design choices

Inclusion and **Empowerment Accelerators**

Regulations & Policies

Systems & Design Infrastructure choices

Multiple programs plug into shared infrastructure.

Regulations &

Policies

Shared infrastructure is interoperable and seamlessly supports various programs and financial service providers.

Availability of choice of payment service provider

Option A

PSP

Option B

PSP Option C

Access points are numerous and widely accessible

ATM

Access Point

Agent

Access Point

Bank

Access Point

Received in a fully functional account that is adequate for recipients with simple onboarding

Traditional

bank account

Mobile

Money Account **Enabling** uses

beyond cash-out

Cash-out





Remittances & transfers





Systems &

Infrastructure



Digital Stack











and Access Points



Accounts & payment instruments



Payment Acceptance Networks



Designed for recipients

with their needs,

barriers and

preferences in mind

Recipients

Cross-cutting building blocks







Connectivity







Common challenges have surfaced that require careful planning

Access to digital payments is still constrained

Financial access points don't reach all beneficiaries



Liberia – 62 % of surveyed beneficiaries said it would be difficult to get their payments without the cash-out event.

Meeting KYC requirements makes account opening a challenge



Mozambique - Rigid KYC rules and a lack of official ID among beneficiaries led to a limited transaction account design

Low connectivity makes digital payments unfeasible

Account usage remains low

- Underdeveloped digital payment ecosystems limit use cases

CAR – Beneficiaries cash-out immediately because there is no digital payment acceptance in rural areas.

- Claw-back clauses threaten path to FI
 - Indonesia Benefits are clawed back after a month if not fully withdrawn, reducing trust and usage
- Digital financial capability and awareness is limited



Philippines - Only 31% could correctly recall which FSP disbursed their allowance

Choice is rarely offered

- Creating a sustainable multi-PSP business case is challenging
- Administrative complexity for low capacity PIUs

Path to WEE must be forged

- Persistent gender gaps in ID and mobile phones

Cameroon – Payments initially directed to women, but lack of IDs and mobile phones led to replacements

- Gender bias among policy-makers
- Reliance on head of household concept
 - **Tunisia** Payments directed to men since they were the default head of household. New government decree allows women to apply for cash transfer program.

Coordination across stakeholders is rarely formalized

Digitizing G2P payments at scale requires inter-ministerial coordination structure

When COVID hit, G2P digitization became even more important to scale up social assistance response

Key Challenges

I. Expanding the list of eligible beneficiaries especially to those in the informal sector

II. Making payments safely and rapidly in the context of the pandemic

Many countries leveraged digital payment methods especially mobile money accounts



- Authorities implemented a set of policy responses to facilitate and increase adoption of digital cash transfers
 - 1. Facilitate onboarding Simplified/remote CDD
- 3. Fee wavers & transaction
- 2. Basic/no-frills accounts
- limit increases
- 4. Expand cash-out networks Focusina on interoperability

Some countries adopted digital payments for the first time

For example



Togo - Mobile money account



Guatemala - OTP



Liberia – Mobile money account

The unprecedented size of the scale up led to an increase in financial access

For example

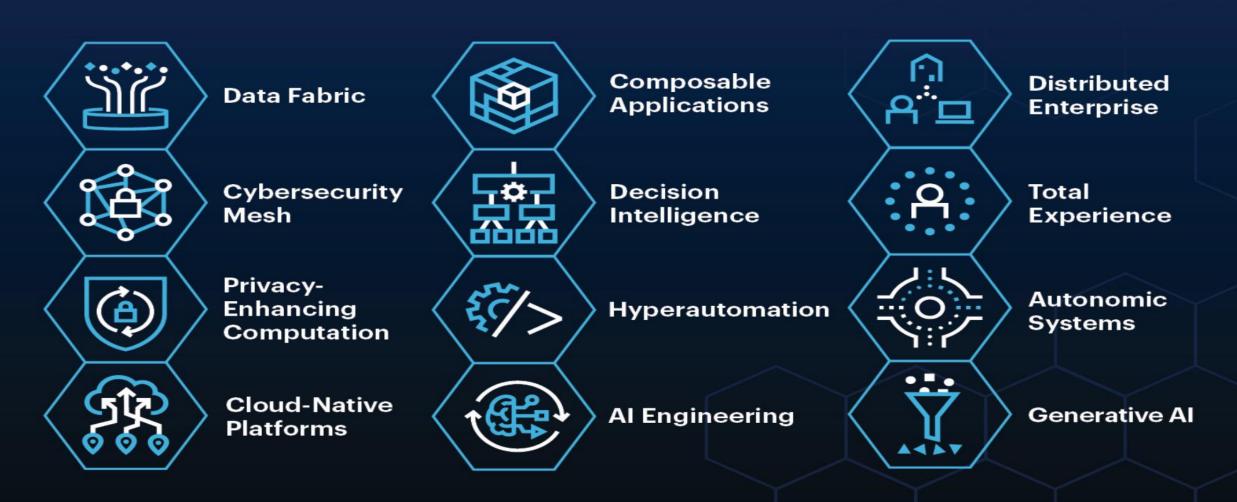


Brazil - 70 million beneficiaries received a digital savings account, for approx. 40% this was their first account.



Colombia - 3 million beneficiaries received payments through e-money accounts, for approx. 1/3 this was their first account.

Top Strategic Technology Trends for 2022





POTENTIAL RISK EXPOSURES: Aligned to Principles for Financial Market Infrastructures

- Governance arrangements
- Inappropriate Risk Management Frameworks
- Inappropriate Technology Planning and Deployment
- Operational Risk Exposures
- General Business Risks



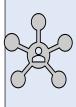
Risks associated with the Evolution



Compliance Risk



Gap in Regulatory Oversight



Operate in space without appropriate licensing



Costs implication



Adherence to regulatory objectives Such as Interoperability





THANK YOU

