

A woman wearing a wide-brimmed straw hat and a dark blue long-sleeved shirt with a red and black checkered pattern is shown in profile, looking towards the right. She is holding a white smartphone in her hands. The background is a blurred landscape of green hills and mountains under a clear sky. A power line runs diagonally across the upper right portion of the image.

CLOSING THE DIGITAL DIVIDE

Making Data Intelligence Valuable for Humanity

Dr. Tat Lam
CEO, Shanzhai City
Director, ixo.world AG

How to do good

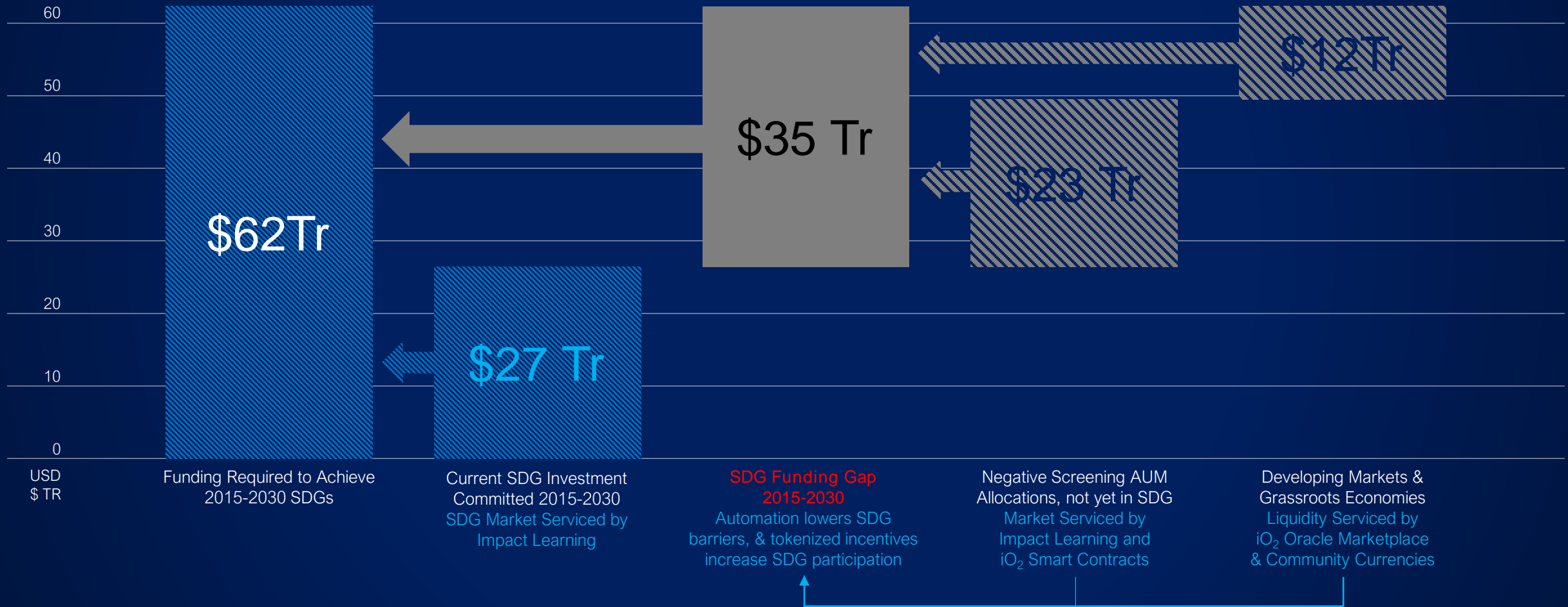
- 1. Fact check – Do we really know what is going on on the ground?***
- 2. Intervention – Why do you think your actions will cause changes?***
- 3. Outcome – How can you explain the change you make?***
- 4. Investment – How to scale the change making with cash?***
- 5. Return – What is the gains of everyone participating in it?***

How to do good digitally

- 1. Fact check – big data vs lean data***
- 2. Intervention – data model***
- 3. Outcome – accountable and trusted data***
- 4. Investment – automating transactions based on the model***
- 5. Return – assetize and monetize impact data***

Unlock Developing Markets to Bridge **SDG Funding Gap**

The UN projects a \$2.4Tr annual spending gap towards the SDGs , not for a lack of capital, but because Investors lack data to assess risk in SDG projects



Source: World Investment Report 2014, UNCTAD and Global Sustainable Investment Review 2016, GSIA

- Note:
- Current investment rate of US\$1.4 trillion with modest growth rate until 2030
 - The sum of current AUM allocated to negative/exclusionary screening and corporate engagement/shareholding action have not been adjusted with potential double counting

China Development Research Foundation

CASE: China REACH Project to provide early childhood education to more than 14,000,000 children in China from family below poverty line, ONE VILLAGE AT A TIME.

Bijie County
☐ Guizhou Province
☐ Poorest region in China



China Development Research Foundation

CASE: China REACH Project to provide early childhood education to more than 14,000,000 children in China from family below poverty line, ONE VILLAGE AT A TIME.

Problem 1: Need data from the frontline to monitor and evaluate children's development, poverty alleviation condition, and screening deployment all rural China to scale up program

- Liu Minghua
 - Guardian
 - 36 years old
 - Grandfather of child
 - Primary school education

- Liu Yan
 - Target of intervention
 - 2 years old
 - Never receive education

- Zhang Yijie
 - Grandmother
 - 34 years old
 - Primary school education

- Liu Yi
 - Bigger brother of Liu Yan
 - Not in the program
 - Give birth at house

- Liu Jiajia
 - Home visitor
 - 29 years old
 - high school education

- Bijie County
 - Guizhou Province
 - Poorest region in China

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- sdakji121j12h3k1jh12h3h21h11k3jk1j3h1
- Guardian
- 36 years old
- Grandfather of child
- Primary school education

- 3k252jh3h1jh31j14hqwjkk3h2h4k2lj2l
- Grandmother
- 34 years old
- Primary school education



- 3jk2hj432h4j31hj3k1hj3hkh13
- Bigger brother of Liu Yan
- Not in the program
- Give birth at house



- 3jkhkj2h1j2h12h31kh432hh3kj4h2
- Home visitor
- 29 years old
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- j2h413hg42g12gjk1h23h14hkj42l33h24h
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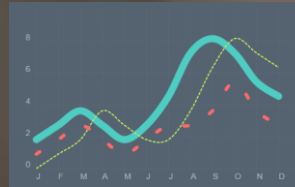
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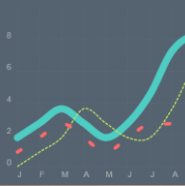
Problem 3: Identifying Need to Provide Aid (precision poverty alleviation), quantifying validated outcome and impact with automated frontline data sources

Bijie County
 Guizhou Province
 Poorest region in China

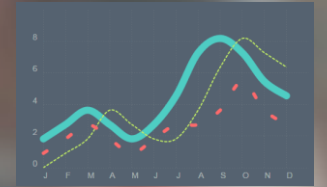


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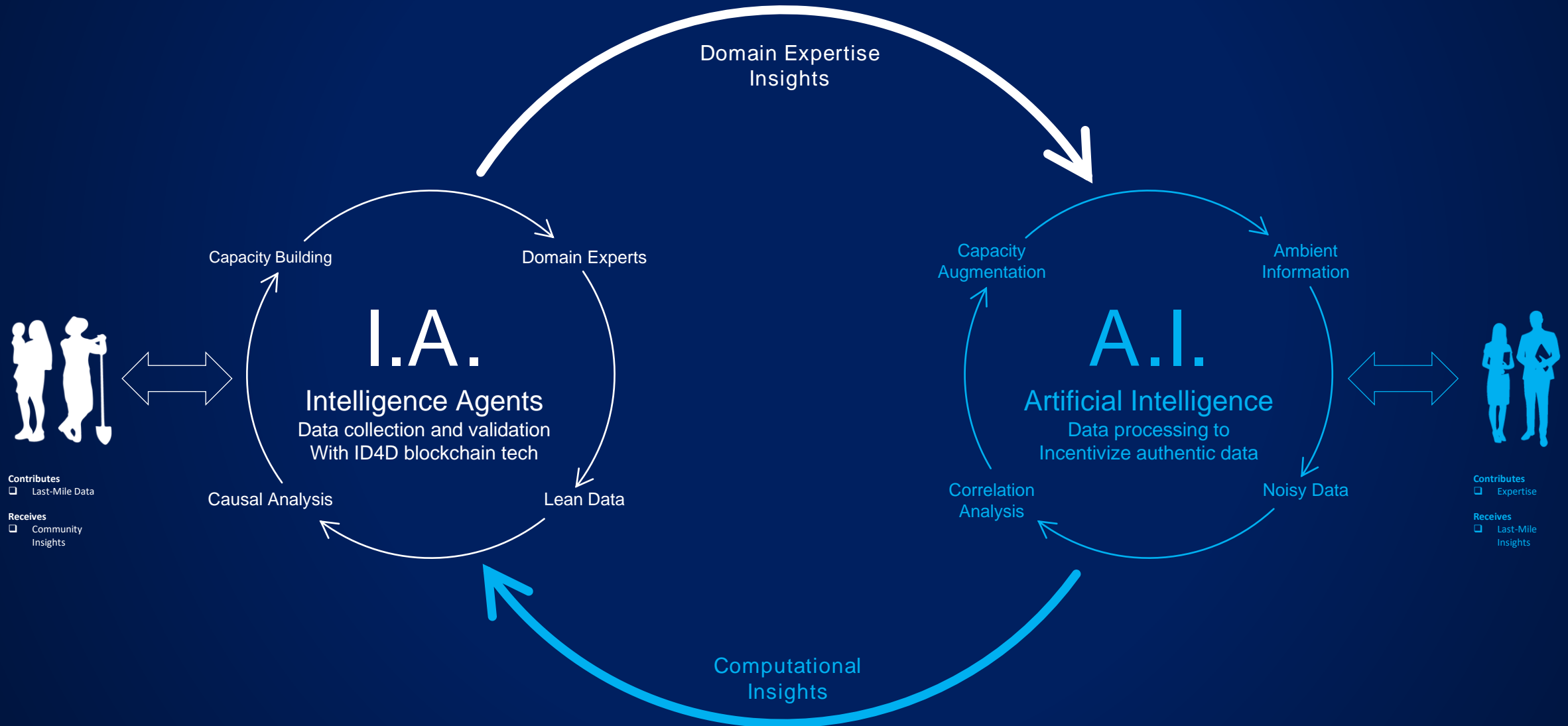
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Frontline Intelligence Agents Support Artificial Intelligence Generating Value from Data for Humanity



Digital Divide and Low Data Literacy Causes Modern Poverty

Impact Data Readiness Index (IDRI)

IDRI is metrics that identify the ability of beneficiaries, organizations, and regions to use digital tools on the frontlines – crucial for understanding how to deploy appropriate data solutions that can work with local conditions

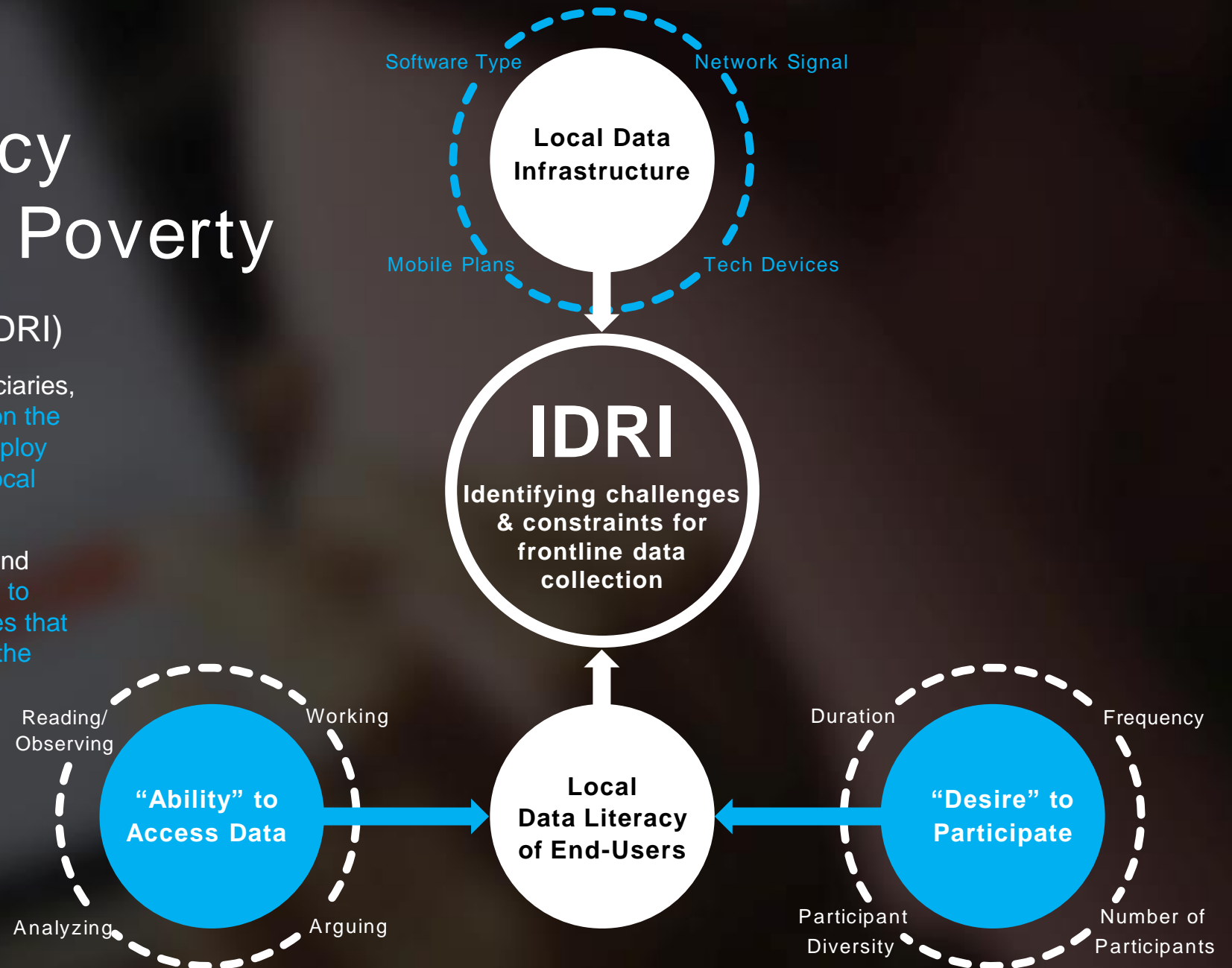


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By understanding Local Data Infrastructure and Local Data Literacy of end-users, we are able to better design capacity-building user experiences that enable people to interact more effectively with the database, to gain more value from the data





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影响力云计算是
在项目前线进行影响力数据追踪的
移动端工具包



Transparent Database for All Development Stakeholders

Beneficiary Engagement Tools



Validate Data Points Receive Feedback



Data Agent Capacity Augmentation Tools



Submit Photo Survey



Program Manager Data Analytics Tools



Manage Child's Profile & Make Decisions

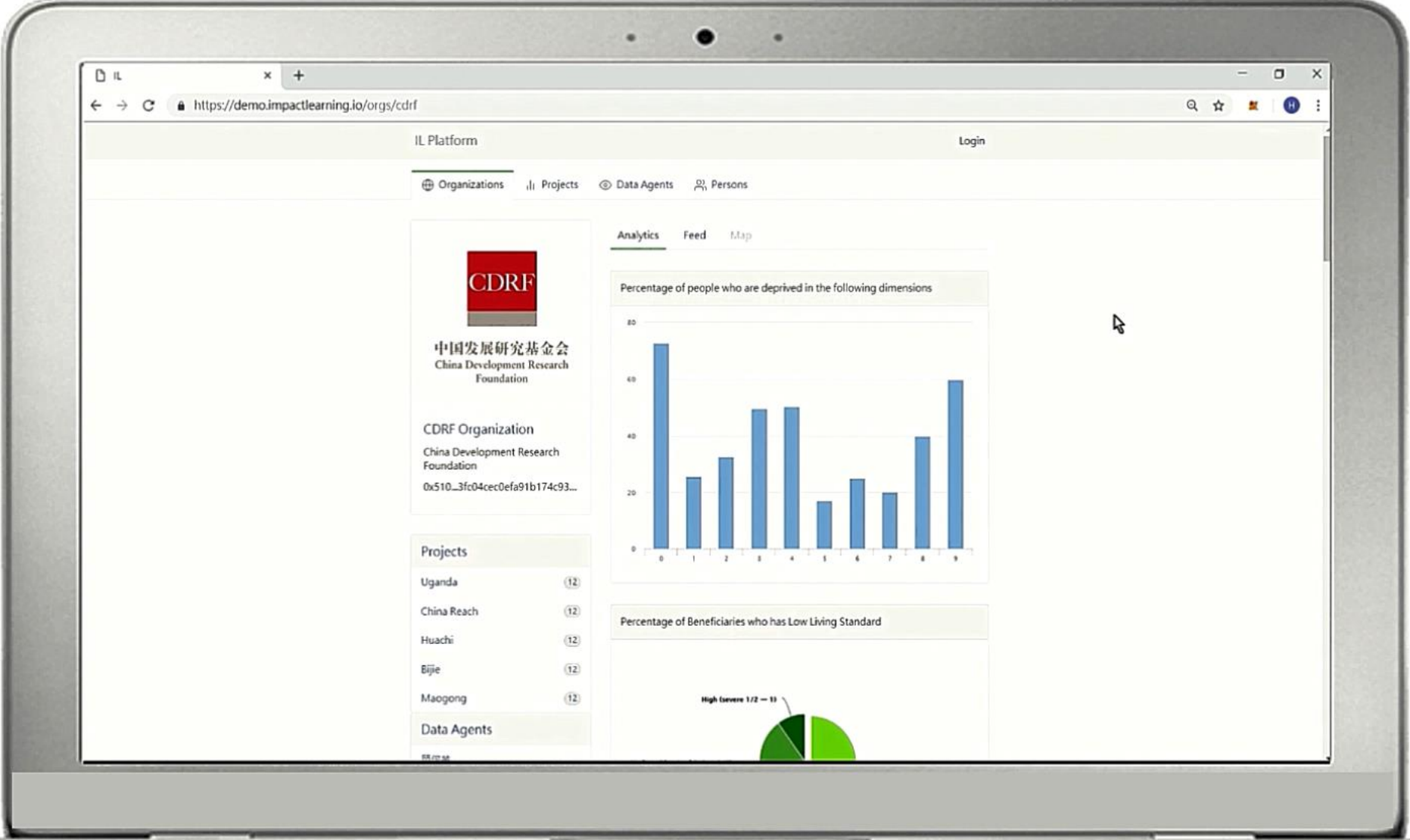


Machine Learning for Capacity Augmentation

Poverty Indexing Evaluation Based on Visual Recognition for Ordinary People to Contribute Quality Data



Integrated Database of Vulnerable Communities



A photograph of Mark Zuckerberg at a podium, speaking to a large audience. The image is overlaid with a semi-transparent blue filter. The text is white and positioned on the left side of the image.

But...

we previously paid too little attention to our data sovereignty while rapidly developing data channels

So we ask...

can AI serve grassroots communities directly so they can improve their own quality of life and economic development?

Baseline Infrastructure for Last-Mile Data Decentralized Identification (DID)

Implementation of DID (blockchain-based identification)
for end-beneficiaries in China and in vulnerable
community members in Brazil



Baseline Infrastructure for Last-Mile Data Decentralized Identification (DID)

Implementation of DID (blockchain-based identification) for end-beneficiaries in China and in vulnerable community members in Brazil

All users are with encrypted identity to protect privacy while contributing data to the cloud

Decentralized Identity provides data sovereignty so that users can own their data, control how it is used, and directly benefit from its monetization

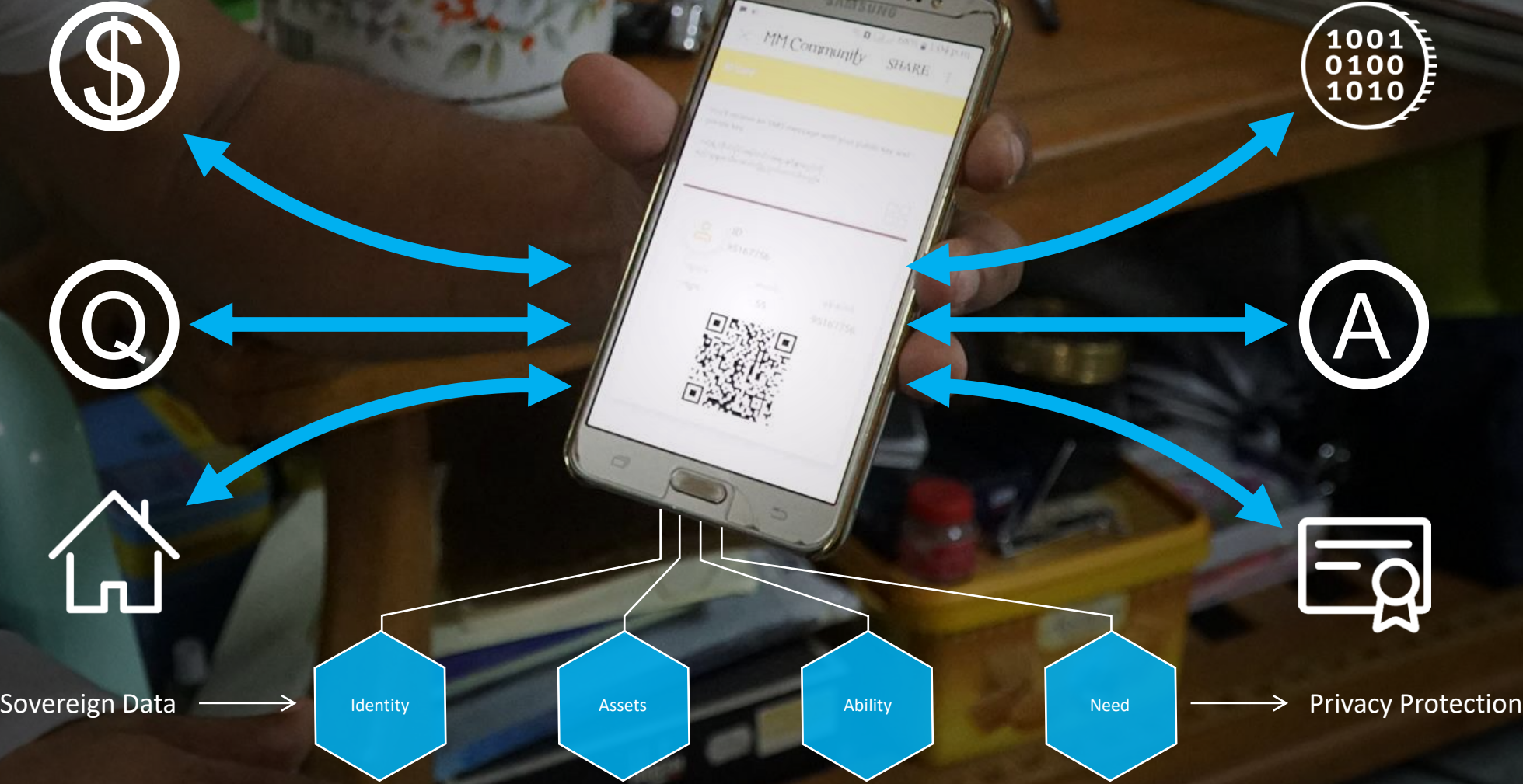
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- Self-Sovereign Identity
- Economic Inclusion
- Community Governance

Creating Data Sovereignty for Grassroots

User-owned data is a highly-valued asset, becoming a currency, tool, and actor in developing markets



Tokenize Assets to Bring Liquidity from Future Yields

Leverage indexing of tokenized last-mile assets to bring visibility into productivity & investment potential



Quality

- Color
- Texture

Stock

- SKU#
- Sealed
- Signed



Air Levels

- H₂O
- CO₂

Mass

- kg



Governance & Stewardship with Consensus Participation

Incentivize community buy-in, intellectual contributions, and sustained execution with Smart Contracts managed by the [iO₂ Decentralized Autonomous Organization \(DAO\)](#)

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Preference Data Contribution

- Projects
- Funding
- Metrics
- Validation



Disintermediate Social Finance in Developing Markets

Bring innovative economic inclusion to communities that lack the support of institutional, government, or financial infrastructure



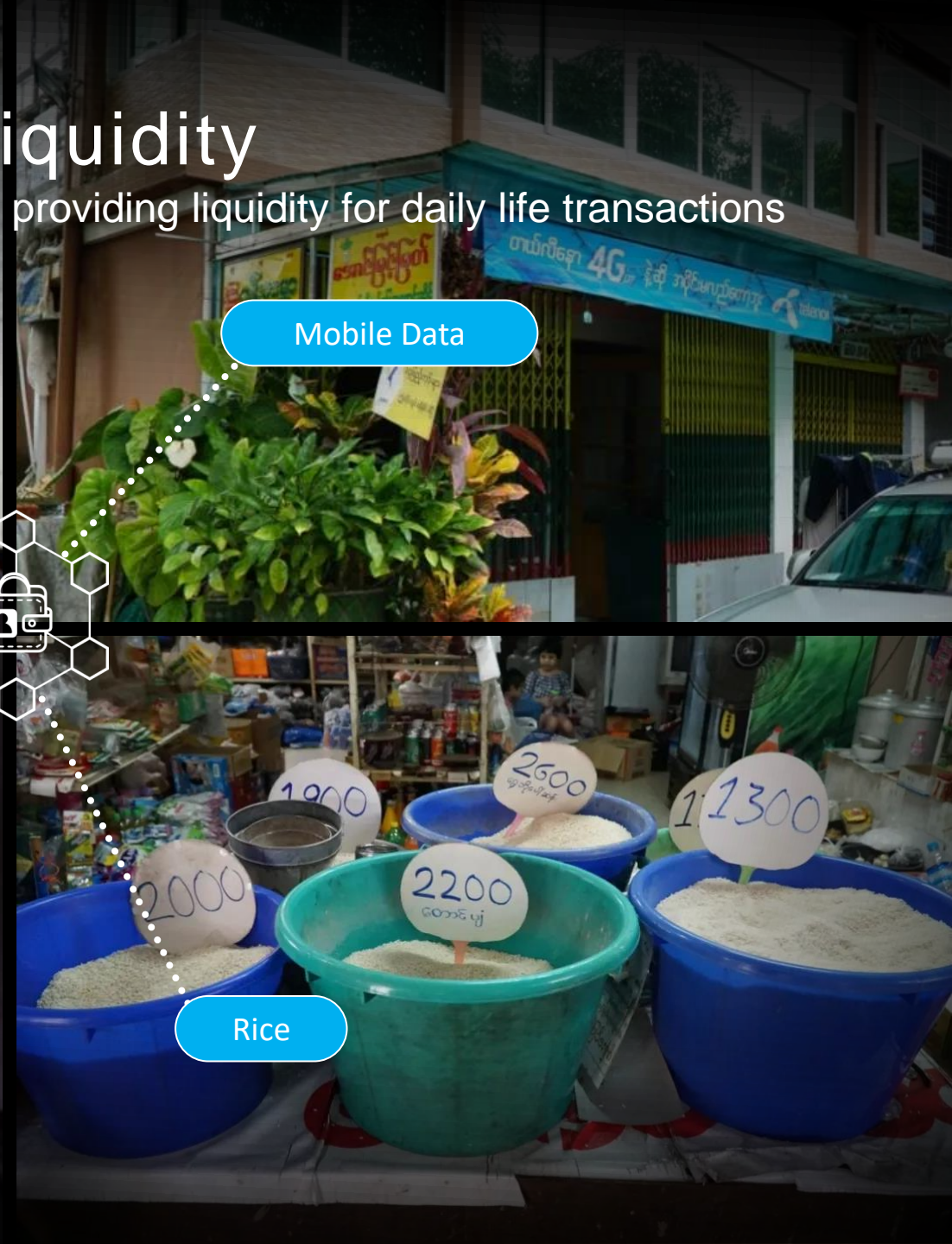
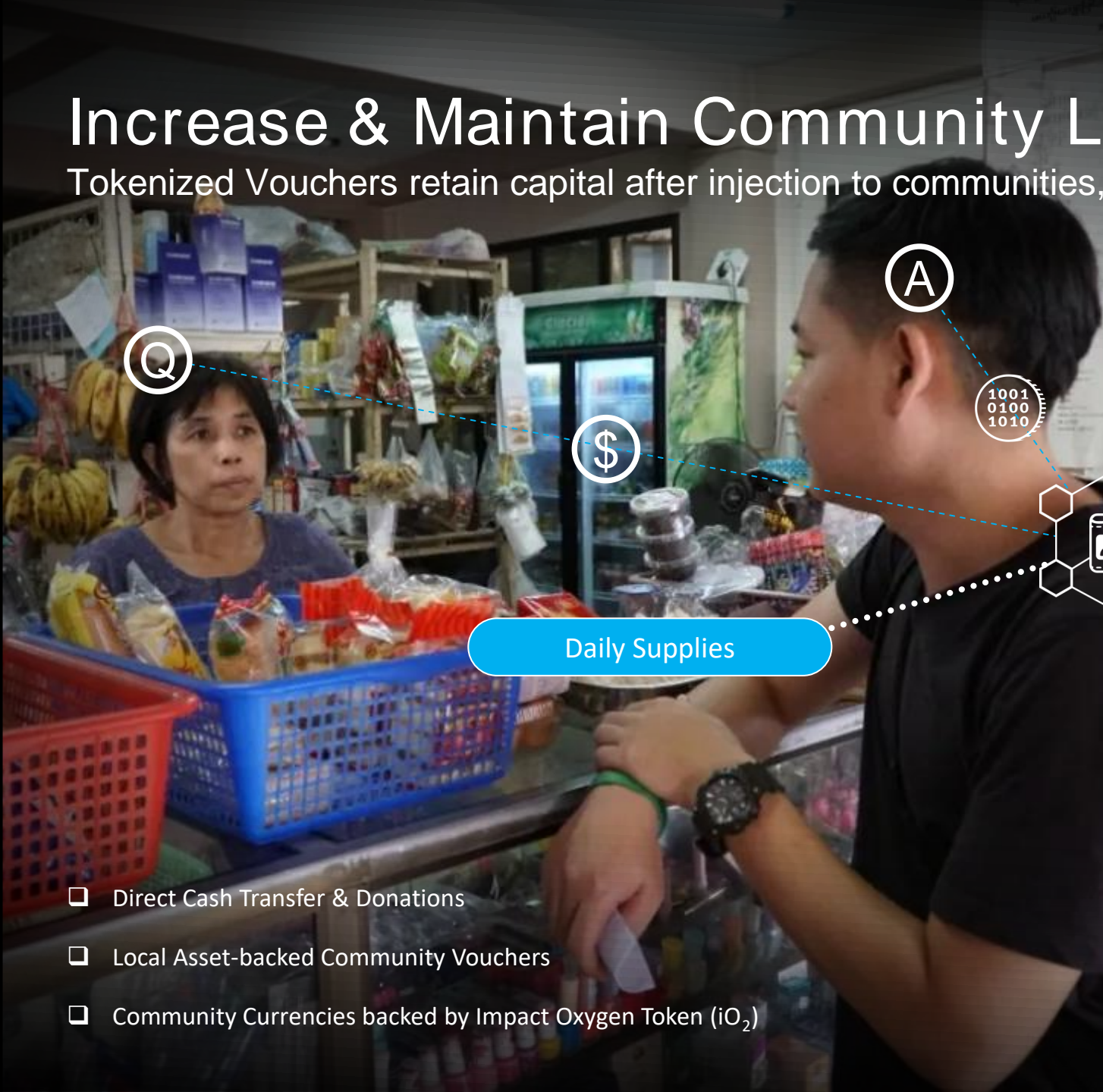
Community Impact Bond



Smart Impact Bond

Increase & Maintain Community Liquidity

Tokenized Vouchers retain capital after injection to communities, providing liquidity for daily life transactions



- ❑ Direct Cash Transfer & Donations
- ❑ Local Asset-backed Community Vouchers
- ❑ Community Currencies backed by Impact Oxygen Token (iO₂)

今日特價:



**Paper
Wallet**



**Digital
Wallet**



Basic Collaborative Economy Towards Peer-to-Peer Micro Services

Paper Record Keeping
At Community Center



Physical Vouchers



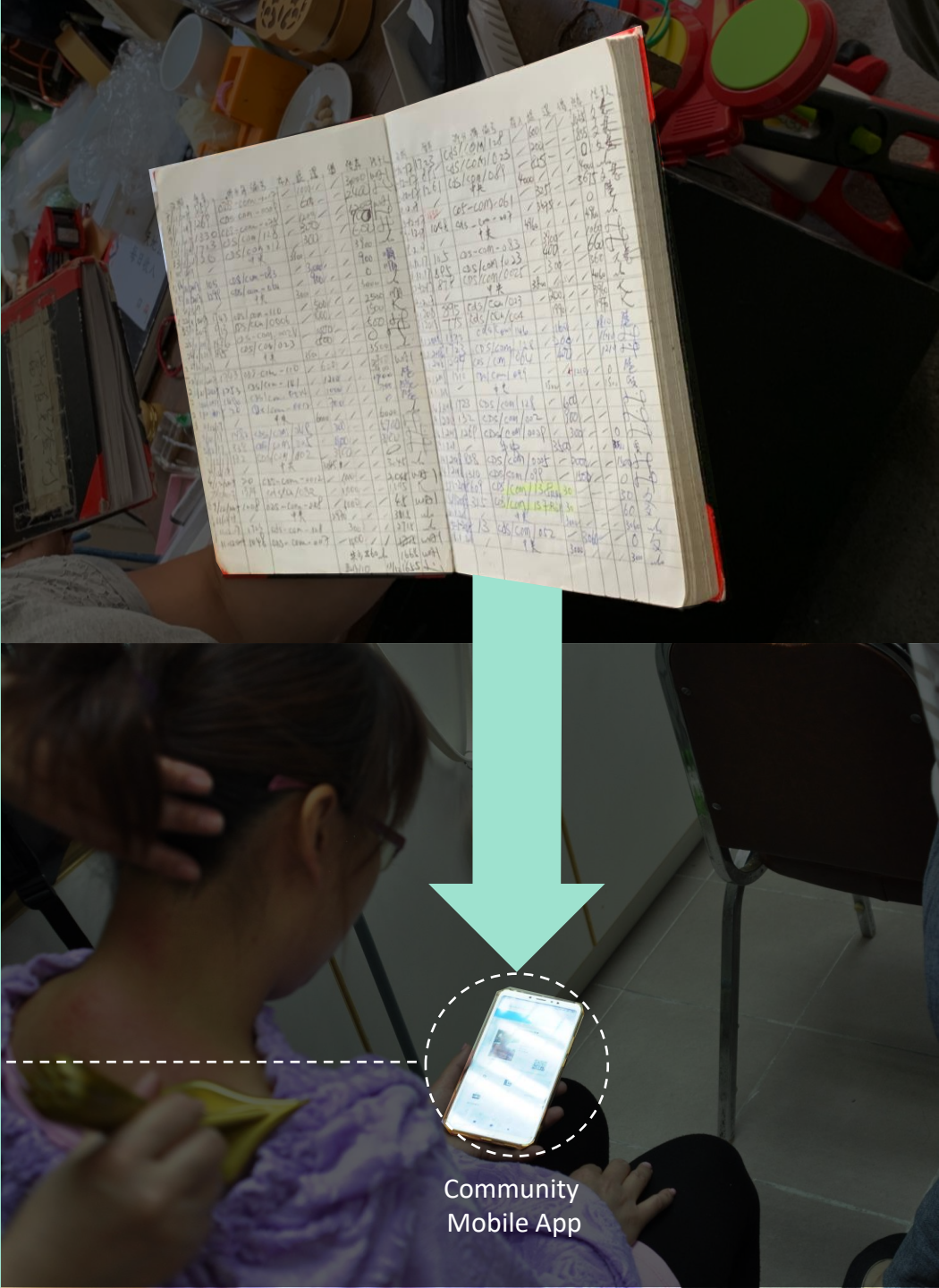
Digital Vouchers



Community
Mobile App



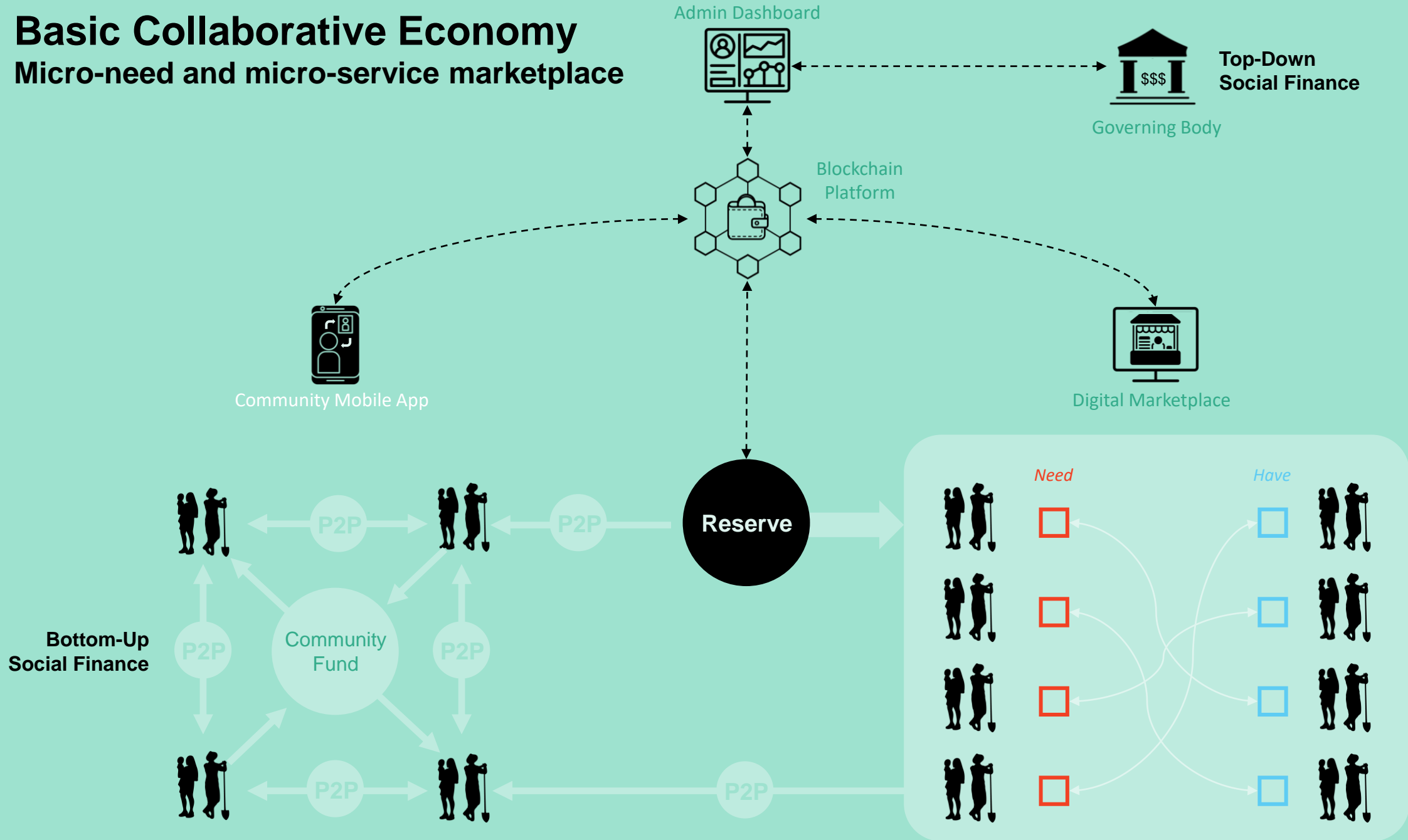
Blockchain
Platform



Community
Mobile App

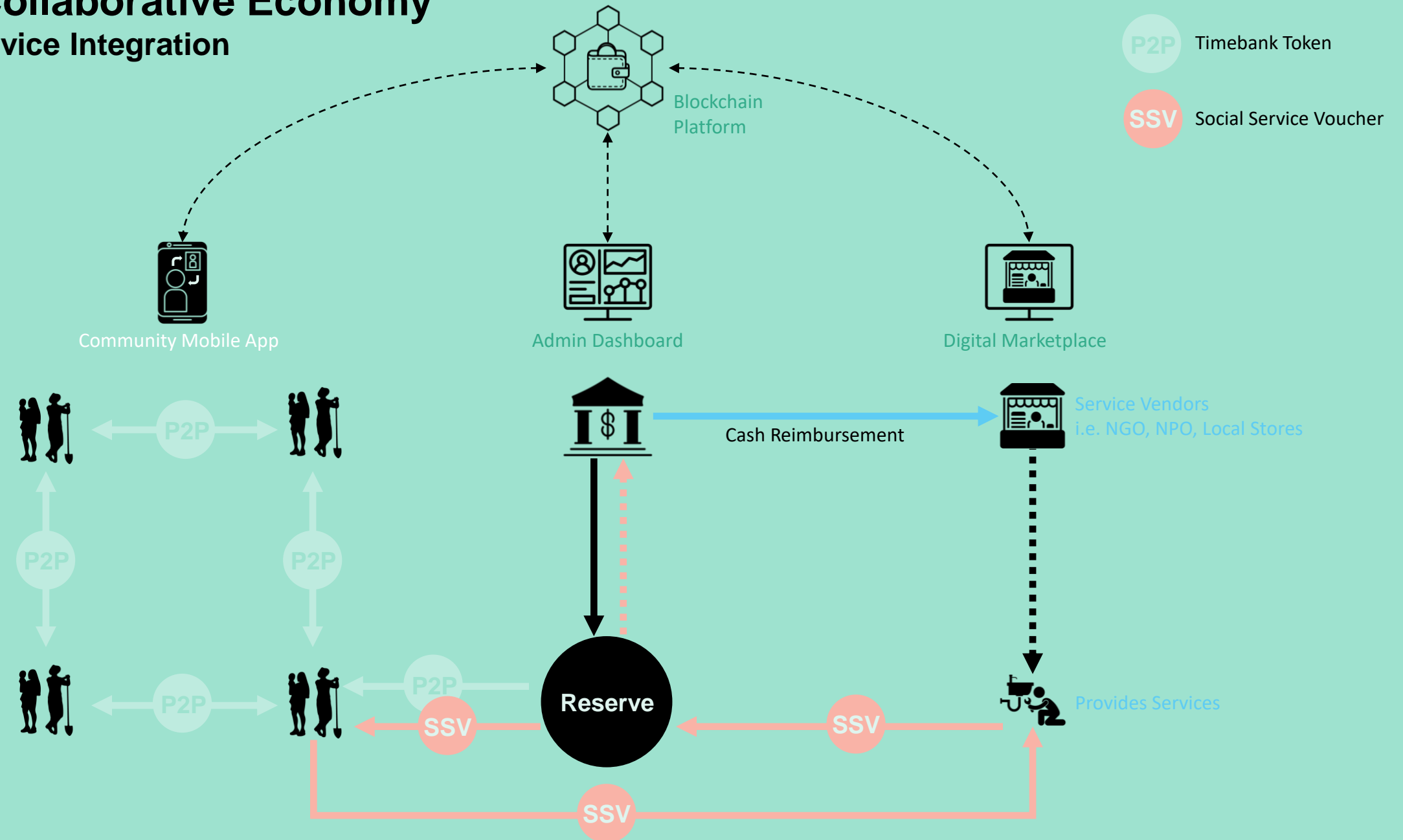
Basic Collaborative Economy

Micro-need and micro-service marketplace



Basic Collaborative Economy

Social Service Integration



UBIQUITY TARGET PROBLEM: LOW EDUCATION ENROLLMENT & RETENTION



Target Problem: Children drop out from Public Schools due to poverty, Covid-19 related education restrictions, imminent threat of violence resulting from the coup, and ongoing boycott against the authoritarian government-related education programs.

Main Challenge: promoting reenrollment and continued education amidst this crisis

Solutions Exploration:

- **Cash:** Cash transfer (USD\$10 per month per child) to households with children of age to attend first year of middle school (where the highest dropout rate occurs) which helps them to face daily precarity, keep kids in education facilities, and ultimately overcome intergenerational poverty.
 - If a child drops out of school but household doesn't move away from the district, they will continue receiving benefits.
 - If the household moves away from the district, they will stop receiving benefits.
- **Cash + :** Cash transfer to households plus an additional amount of funding for the education program(s) to decide how to help households make better decisions
- **Cash + Consensus** – Cash transfer to households and additional funding to the organization for which the use of proceeds may be proposed and voted on by the community stakeholders





The people of Myanmar live in **multi-dimensional precarity** as the global pandemic and the coup are leaving the population with the irreversibly catastrophic social, economic, political and health impacts without access to social safety nets. In the worst case, nearly half of the population of Myanmar (48.2 percent) will live in poverty in 2022 (compared to the 24.8 percent in 2017).

It is expected that **women and children** will bear the heaviest brunt of the combined impact of COVID-19 and the political crisis.

COVID-19 as well as **coup-related school restrictions and closures** have negatively impacted the household incomes, where parents are forced to reduce work in order to care for their children, causing overwhelming additional expenditures (such as associated costs with online education like networked digital devices, internet access, and monthly tuition).

These multi-dimensional burdens further exacerbate intergenerational transmission of poverty which will lead to devastating impacts on the human capital of future generations to come left without humanitarian intervention.





1. Needs Unmet

or Unequally Addressed



- Inaccurate Targeting & Beneficiary Identification
- Inappropriate Success Metrics and M&E
- Mismatched Program Design

2. Trust Degraded

or Collapsed



- Beneficiaries – Cut off from services due to ill-conceived changes in targeting criteria
- Government – Cannot risk collaboration due to lack of evidence of success
- Funders – Don't want to provide capital due to low transparency and accountability

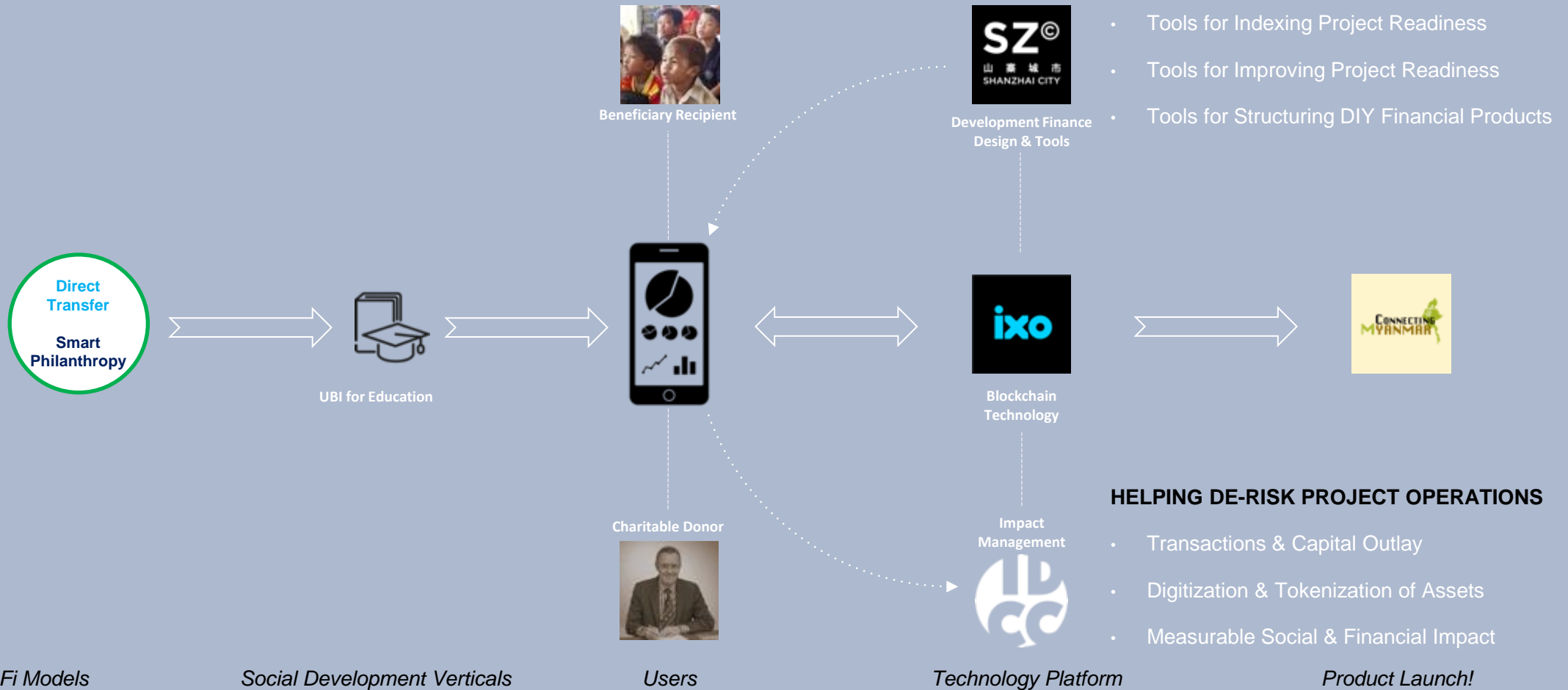
3. Money Undelivered

or Delivered Inefficiently

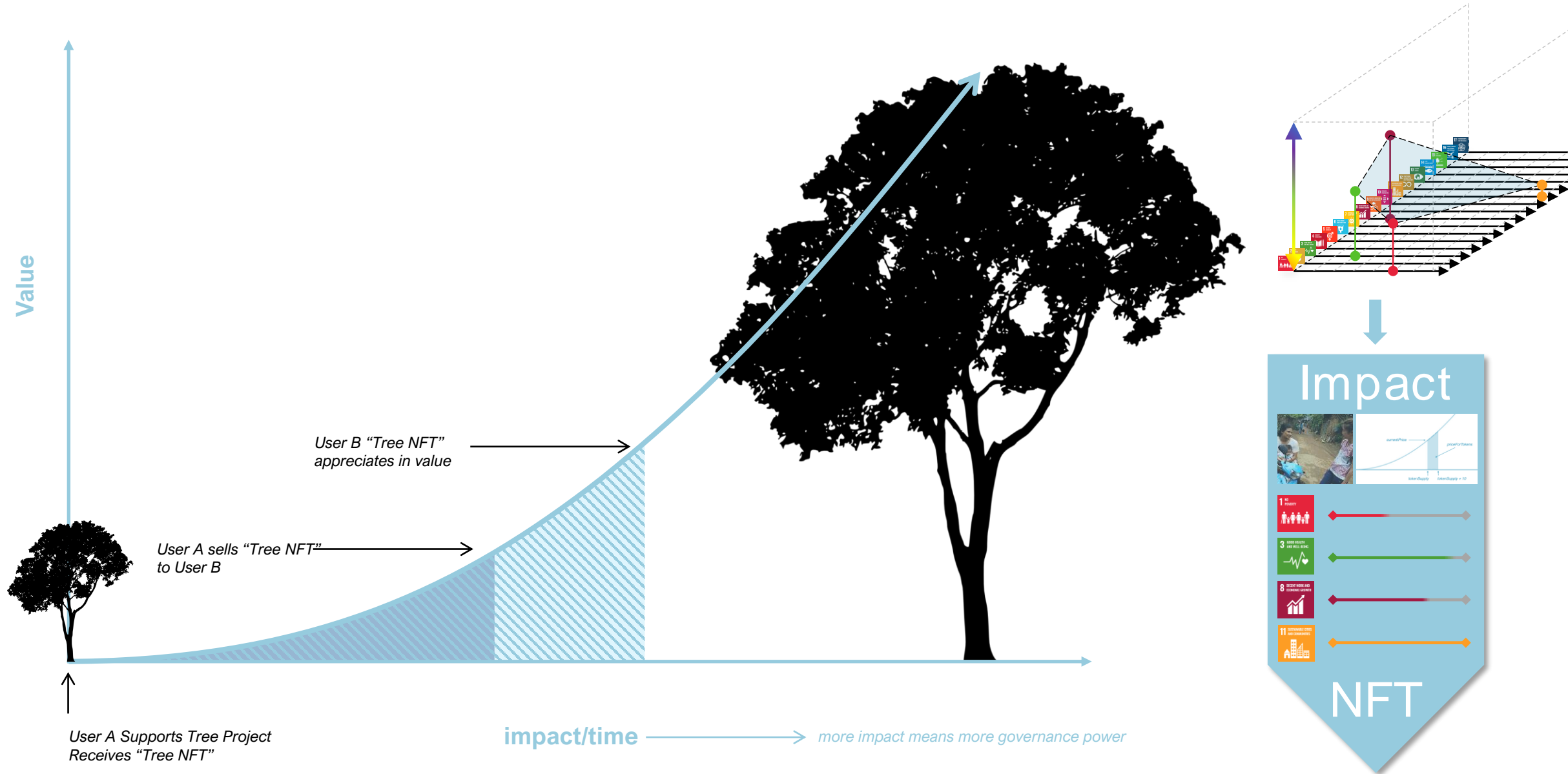


- Low/No Access
- Crippled Financial Infrastructure
- Cross Border Challenges

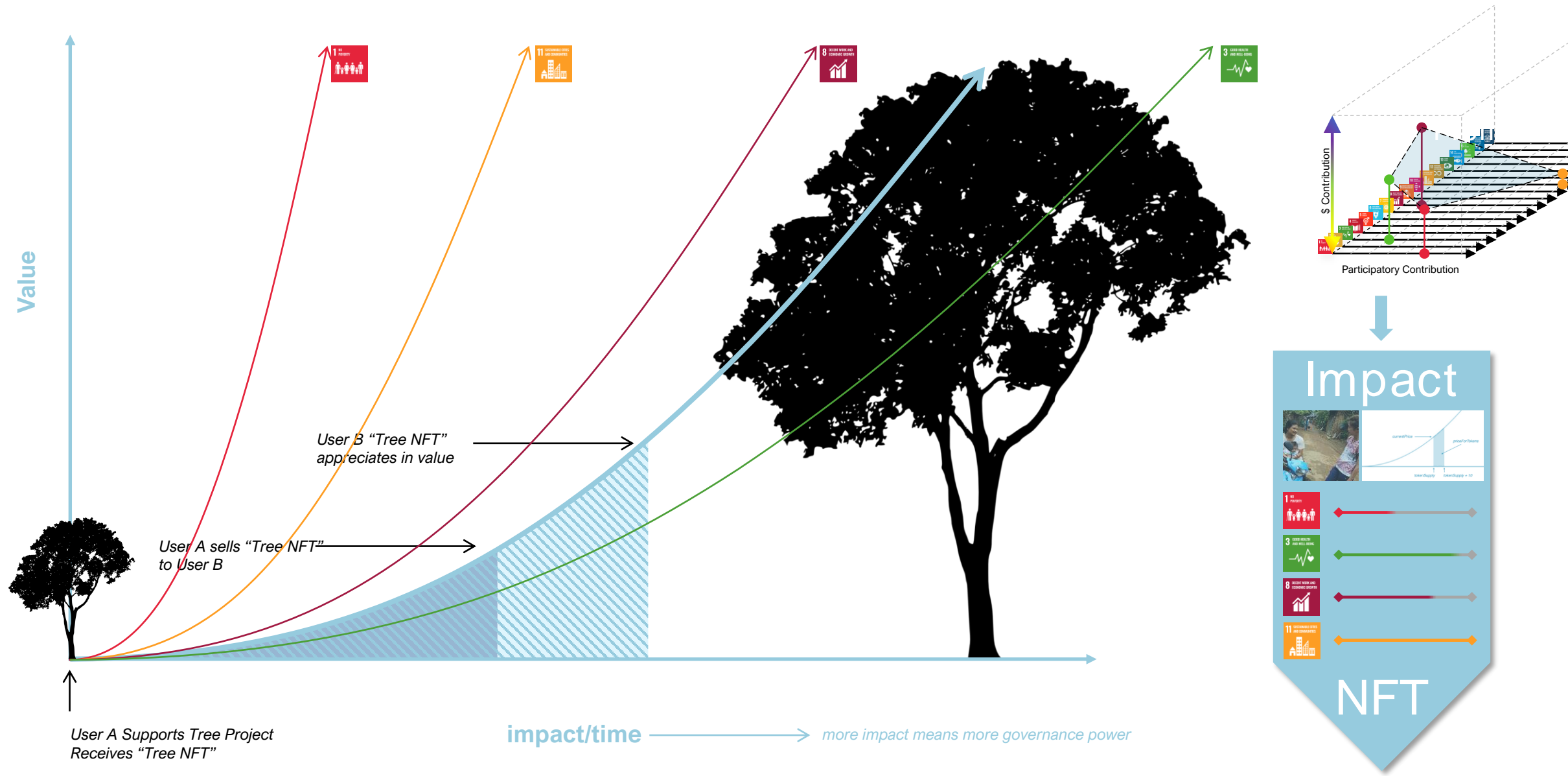
UBIQUITY CVA PILOT TECHNOLOGY CONSIDERATIONS



FUTURE IMPACT NFTs INCREASE IN VALUE OVER TIME



TRACKING IMPACT DATA ENRICHES VALUE



Lower Barriers to Financial Inclusion Solutions

Reducing friction in SDG Markets and transforming grassroots economies to close the SDG funding gap

\$2.4 Trillion
Dollar Gap



2.6 Billion
People Gap

Structured Economic Systems

Free Market Systems

Civic
Finance

Conditional
Finance

Community
Debt

P2P
Futures

P2P
Lending

P2P
Trade

Public Private
Partnership

Impact
Investment

Smart Impact
Bond

Community
Currency

Micro
Finance

Oracle
Marketplace