Establishment of a Fingerprint Authentication Platform



Agenda

- 1) Company Introduction
- 2) Pilot Project Overview
- 3) Key Learnings
- 4) Future Business Plan

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Free your hands, touch the future.

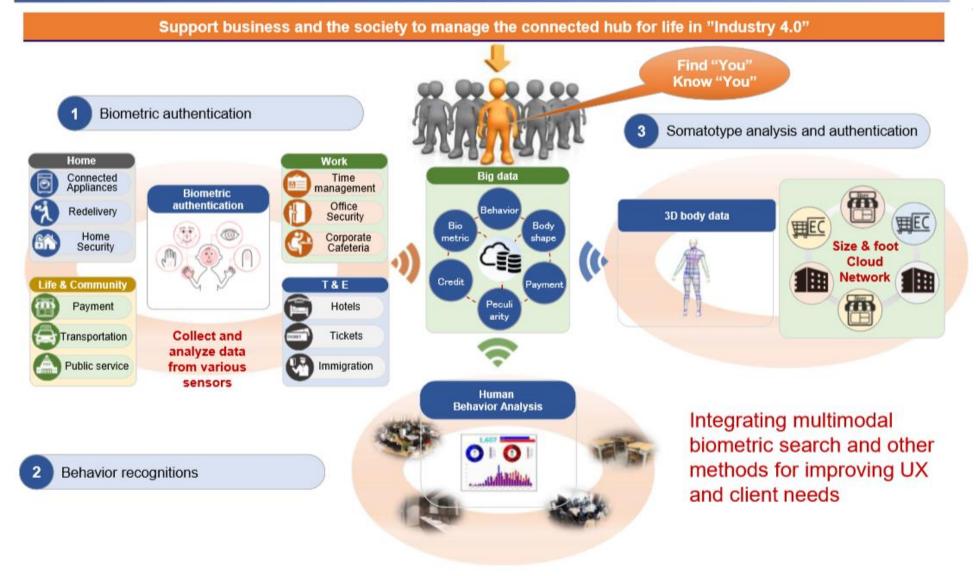
We provide the world's top-quality biometric authentication platform. We change YOU yourself, into wallets, keys, and IDs

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Corporate mission

Develop and support the new society with LIQUID AI engine and various sensing technologies 🐉 LIQUID





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Our Pilot Projects in the Philippines





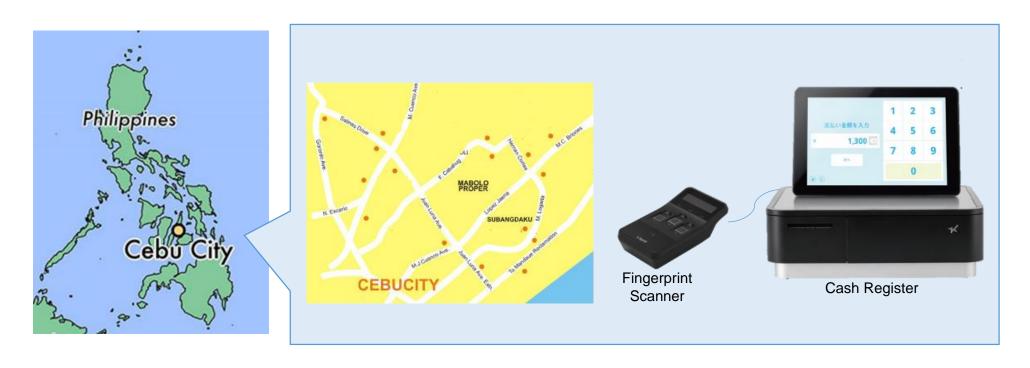
Our Pilot Projects in the Philippines







Biometric Payment at Retail Stores

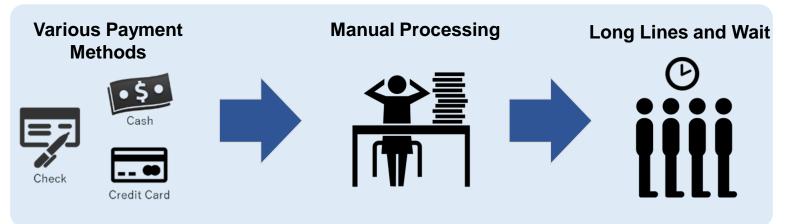


Proof of Concept Test executed on **Dec 2017 – Jan 2018** in Cebu area with 20 local retail stores and 1,500 Test users



As-Is

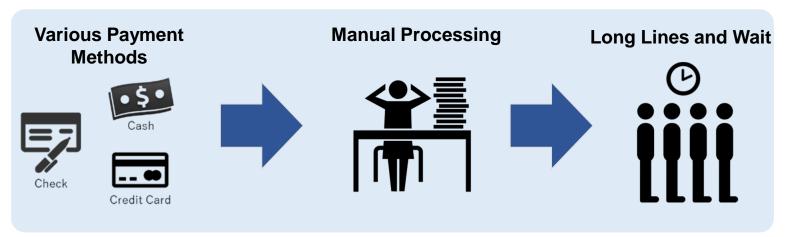




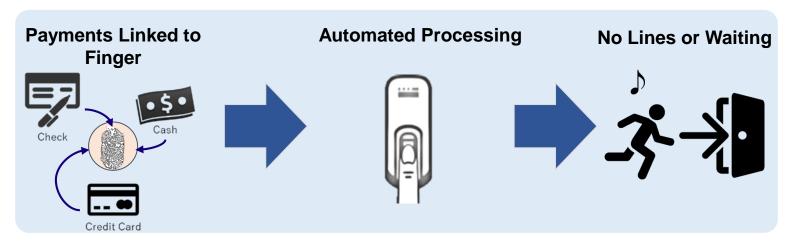


As-Is





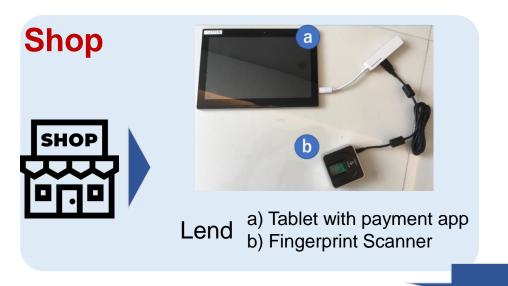
To-Be



Pilot Test Summary



Test the viability of biometric payment by receiving feedback from both retail stores and end users



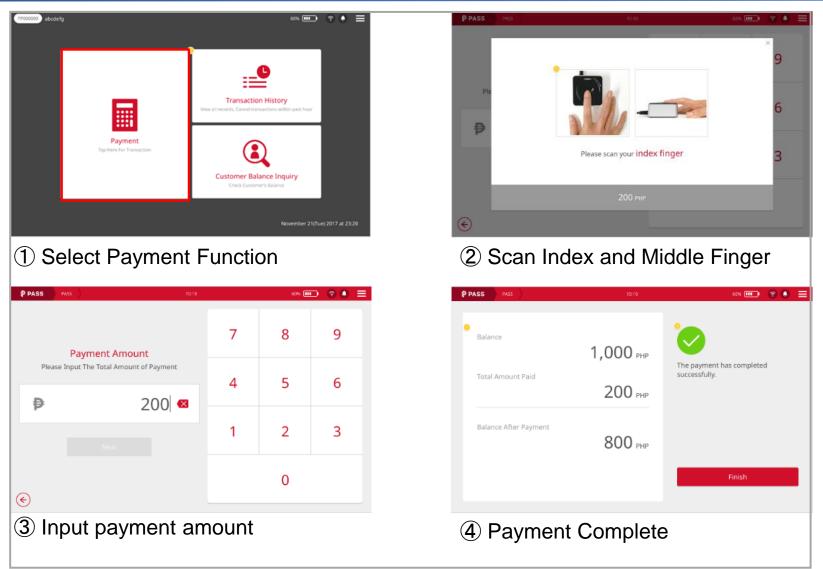




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Pilot Test UI





User Feedback and Learnings





Overall Satisfaction: 4.0 / 5

Allowable Payment Transaction Fee

| Transaction Fee | # | Share |
|-----------------|----|-------|
| < 0.5% | 10 | 50% |
| < 1.0% | 2 | 10% |
| < 1.5% | 1 | 5% |
| < 2.0% | 3 | 15% |
| No Answer | 4 | 20% |



Overall Satisfaction: 4.3 / 5

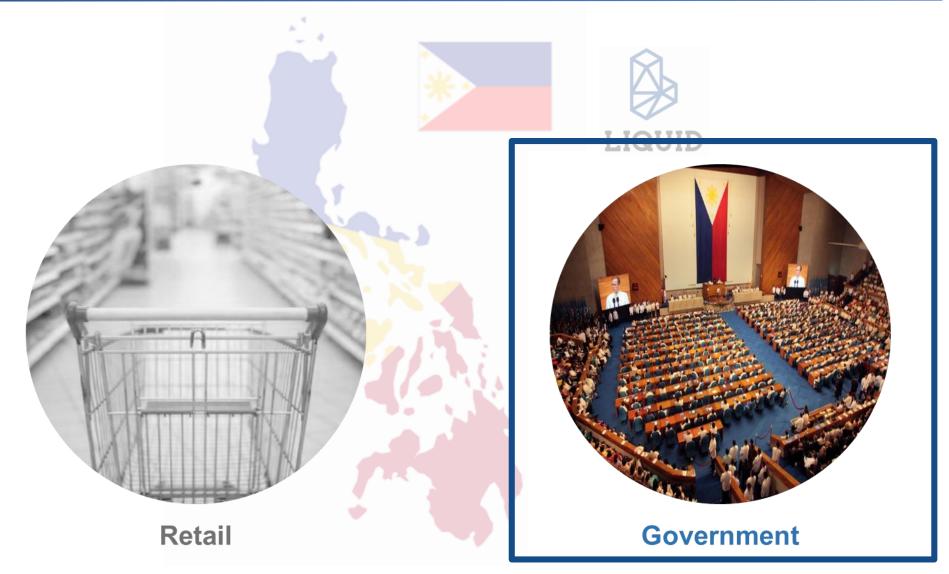
Preferred Mode of Payment

| Method | # | Share |
|-------------|-----|-------|
| Fingerprint | 223 | 47% |
| Cash | 138 | 29% |
| Credit Card | 35 | 7% |
| Mobile | 26 | 6% |
| No Answer | 50 | 11% |

Need to work out pricing model and a network of shops that can make the business model produce profit

Our Pilot Projects in the Philippines







Simulation of Clearance Renewal biometric issuance

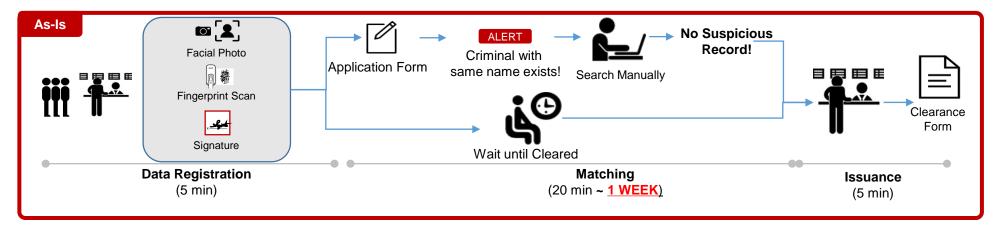


Proof of Concept Test executed on Jan 2018 with 500 test users

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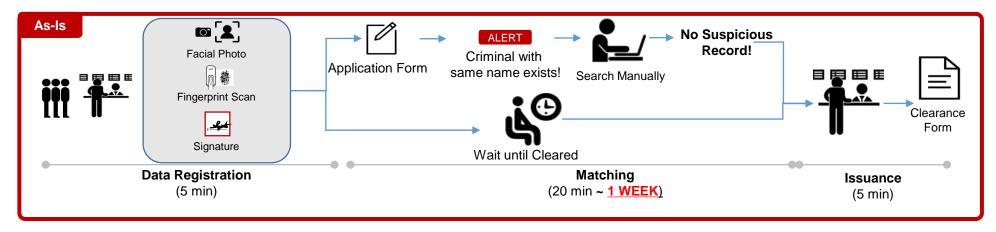
Current clearance process is centered on manual confirmation and has room for automation

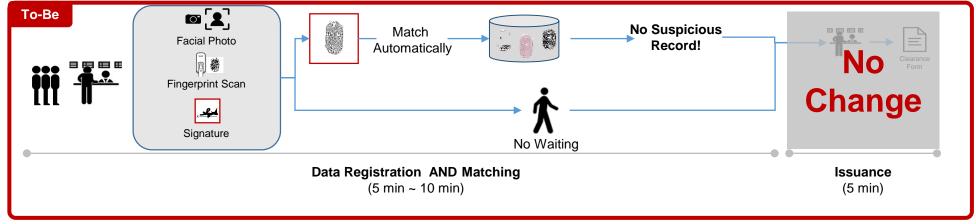


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Current clearance process is centered on manual confirmation and has room for automation





Pilot Test Summary



In order to prove the viability of the biometric system, we showed that our system was capable of high-speed and accurate simultaneous matching



Requirement 1

High Volume (500 Users with one small local server)

Requirement 3

Simultaneous Matching (500 matching)

Requirement 2

High Speed (Under 3 seconds)

Requirement 4

High Accuracy (FAR <0.3%, FRR <5%)

Pilot Test Summary



In order to prove the viability of the biometric system, we showed that our system was capable of high-speed and accurate simultaneous matching

Requirement 1 Requirement 2

High Volume (500 Users with one small local server)

High Speed (Under 3 seconds)

Simultaneous
Matching
(500 matching)

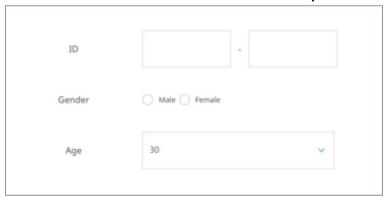
High Accuracy (FAR <0.3%, FRR <5%)

Requirement 3

Requirement 4



User General Information Input



Fingerprint Registration (3 Fingers)

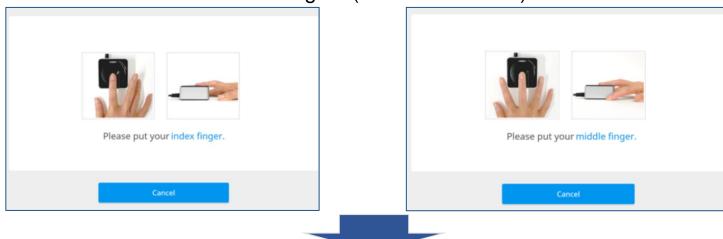


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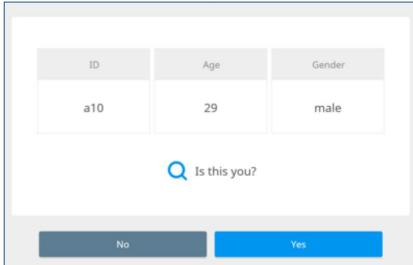
Pilot Test UI: Identification



Scan Fingers (index and middle)



Identify User



User Feedback and Learnings







Overall Satisfaction: 4.3 / 5

| KPI | Goal | Actual |
|-------------------|---------|----------|
| User Registration | 500 | 500 |
| Identification | 1,500 | 3,320 |
| FAR | 0.30% | 0.09% |
| FRR | < 5% | 2.50% |
| Speed | < 3 sec | 1.45 sec |

Agency



"The PoC showed that the various standard KPIs are achieved and contextually meets what we are looking for."

"Flexibility of integrating the software as well as a nationwide deployment plan are things that must be considered next"

Feedback from Agency officer

Technical capability has been proven and deemed satisfactory from both users and the agency. Along with the implementation plan, working towards the procurement process is the next step

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Various accreditations and verification with the Bureau of Internal Revenue will be required for full scale implementation





Our Pilot Projects in the Philippines





Methods of Government Procurement



When pursuing government projects within the Philippines, understanding various options may lead to a higher chance of acquiring the project

Public Bidding

Project Funded by

Philippine Government

Pursuant to RA9184

Private companies apply to bid for a government project, that is publicly announced on local newspaper or PhilGEPS

ODA

(Official Development Assistance)

Project Funded by

Foreign Government (via grant or loan)

Pursuant to ODA Act

Private companies apply to bid for a government project, that is publicly announced on local newspaper

Agency-to-Agency

Project Funded by

Philippine Government

Pursuant to RA9184

In special cases, a government agency procures goods or services from another local government agency



It is the general policy of government to purchase its requirements from the private sector. However, it acknowledges that, in some exceptional cases, procurement from another agency of the government is more efficient and economical for the government.

[In] exceptional cases, and when justified by the conditions prescribed under these guidelines, can the procuring entity procure from another government agency under the 1st paragraph of Section 53(e) of the IRR-A of R.A. 9184.

Source: IMPLEMENTING GUIDELINES ON AGENCY-TO-AGENCY AGREEMENTS Negotiated Procurement under Section 53 (e) of IRR-A



Although specific conditions are required, A-to-A could be a viable option for private companies

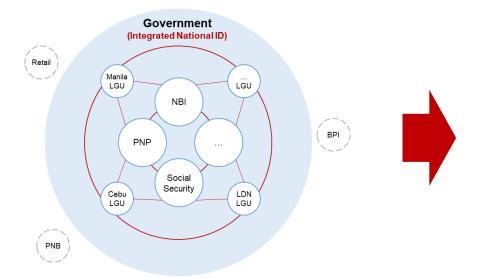
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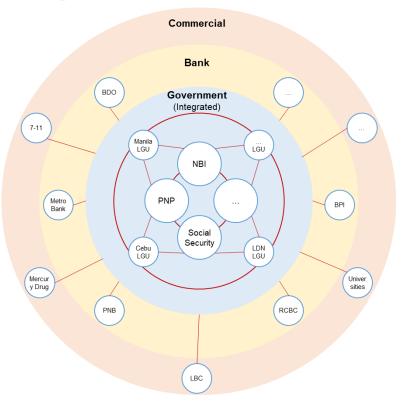


After creating a track record in the Philippines, integration of all government identification under a national biometric ID will follow; the national biometric ID can then be used in various sectors

Track Record leading to National ID



Expansion to other sectors



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Philippines National Fingerprint Authentication Platform



