

Who We Are

- Avanza Innovations is the latest venture of Avanza Group of Companies an 18 year old technology power house that has 300 customers across 45 countries, and processes 12 million transaction every day.
- Avanza Innovations was established in July 2017 to focus on nascent technologies such as Blockchain, Artificial Intelligence, Robotic Process Automation and Smart City Projects.
- Within a few months of its incorporation, Avanza Innovations has achieved major successes by winning city wide projects in blockchain, Al across verticals such as Smart City, Payments, Health Care, Education etc.
- Avanza Innovations is viewed as a thought-leader in nascent technologies across the region. Thus winning the admiration and confidence of not just customers but also of industry partners such as Microsoft, Gartner, regulators and government entities.
- Led by industry experts and Software Specialists in their respective fields, a truly international team has been recruited in this new venture to aggressively pursue Avanza Innovations' growth and market share.
- In addition to numerous customer and project engagements, Avanza Innovations is also currently in the process of launching assets for ICO.





What We Do







Implementation & Consultancy



Artificial Intelligence

Implementation & Consultancy





Robotic Process Automation

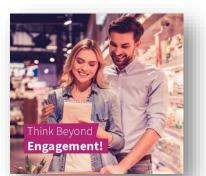
Implementation & Consultancy





Smart Cities Enablement

Building Cities of Tomorrow





Customer Engagement

Customer Engagement









Product

Cipher is a blockchain agnostic orchestration layer that helps organizations adopt blockchain technology and implement use cases without going through the hassle of directly integrating their existing ERPs and core systems with underlying blockchain platforms



- Cipher comes readily integrated with Hyperledger Fabric, Ethereum, Quorum and Ripple. Connectors for other prevailing blockchain platforms are constantly being developed.
- Avanza realizes that over the next few years organizations will become part of different consortiums and will host different blockchain platform nodes for different use cases. Tight-coupling between core systems and underlying blockchain platforms will result in a messy and cumbersome organizational e-infrastructure. Therefore Cipher will play a vital role in acting as an orchestration layer
- Cipher comes pre-packaged with numerous micro-services that are used for writing smart contracts, integrations and implementation of business logic across multiple verticals and use cases
- Cipher is co-sell ready with Microsoft Azure and as part of Avanza's collaboration with MS, MS sales teams are actively positioning Cipher as the only Azure-ready blockchain business solution



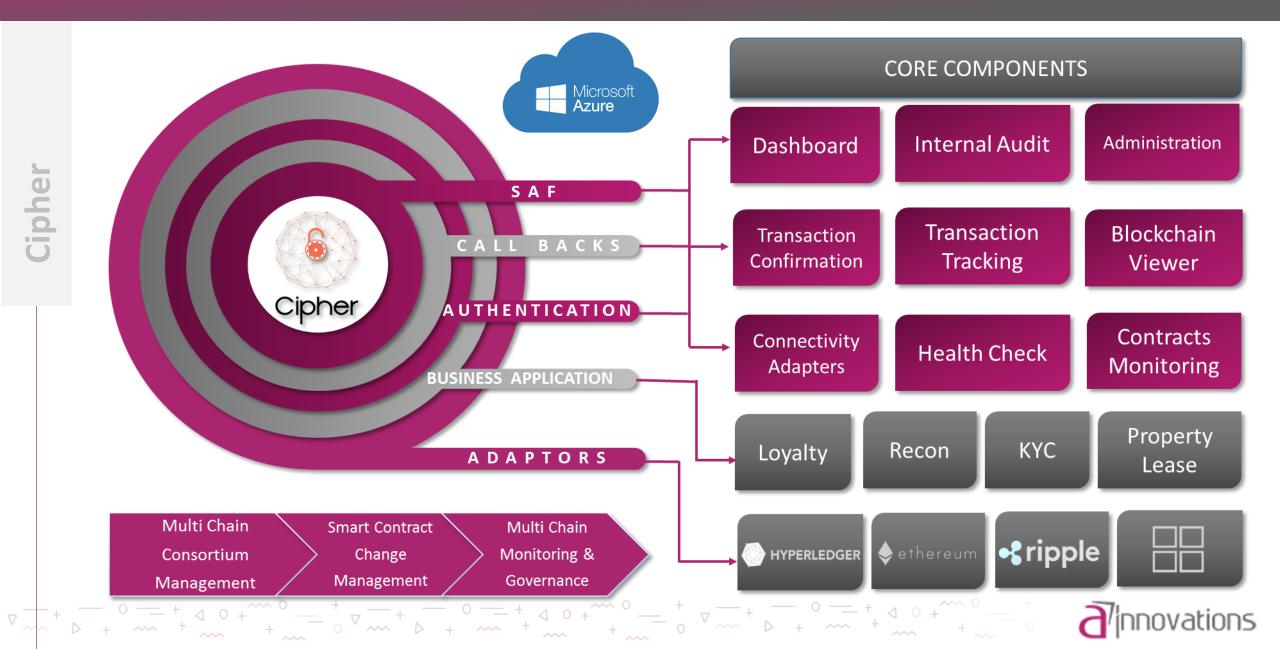








Product



Case Study



Dubai's first city-wide Blockchain project led by Smart Dubai Office (SDO) aligning its technology drive and evolution with Dubai's 2020 Blockchain vision. Avanza's Blockchain platform Cipher is implemented by Smart Dubai Government (SDG) to help Department of Finance (DOF) for reconciliation & settlement between gov. funds across 40+ gov. entities and 15+ banks.



Cipher

Current State

- a Reconciliation and settlements collected by SDO through payment gateway DubaiPay is currently done by a legacy file based manual approach
- d' Existing process takes 45 days for DOF to settle funds with its 40 partner entities
- 3 private entities are doing direct reconciliation and settlement with banks due to extremely delayed settlement process
- a DOF, partner entities and acquirers have no single view of their funds, collections and transactions.

Solution

- a Avanza equips SDG with smart contracts to move reconciliation, settlements, disputes and refunds to blockchain enable real time and instant reconciliation and settlement solution between DOF, entities and financial institution through Cipher
- a⁷ Cipher abstracts SDG from the physical caveats of the blockchain underlying infrastructure and speeds up the implementation reducing the overall implementation time and dependencies of the new version releases of underlying platform Hyperledger Fabric

Result

- a Real time reconciliation and settlements within SDO and DOF's core business operations
- a SDO, DOF, partner entities and financial institutions will be able to view in real time their respective financial transactions and their settlement details through a one-view platform, thereby giving them exact details and stats of their revenue that is currently in the "system"
- d Disputes and mismatches at any stage will be highlighted, flagged and addressed in real time across all stake holders
- d On-boarding of additional partners and entities on to the platform will become extremely regimented, structured and robust
- a DubaiPay can be opened up as a blockchain based commercial payment hub and gateway for non-government entities, in a commercial revenue generating model such as instant and real time payments, overlay services for different vertical and industries as well as a national infrastructure for all bills and P2P payments









Case Study





Avanza awarded first City-wide Blockchain Project



Avanza's Blockchain platform is implemented by Smart Dubai Government for Reconciliation & Settlement of gov. funds across 40+ gov. entities and 15+ banks

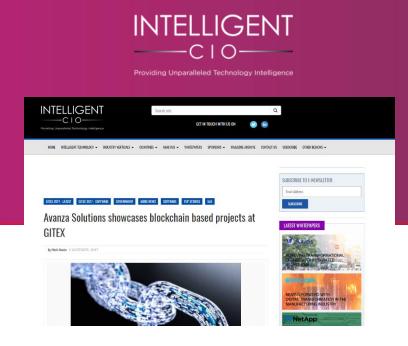
 $\nabla_{--}^{-} + \nabla_{--}^{-} \circ -_{--}^{-} + \Delta_{--}^{-} \circ -_{--}^{-} \circ -_{--}^{-} + \Delta_{--}^{-} \circ -_{--}^{-} \circ -_$





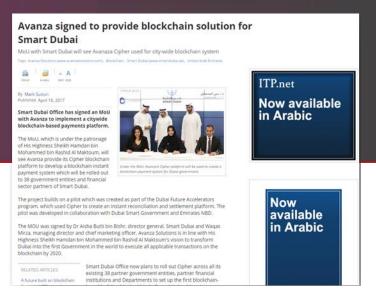
SDG/DOF City-wide Blockchain Project – Media Coverage

GULF NEWS X





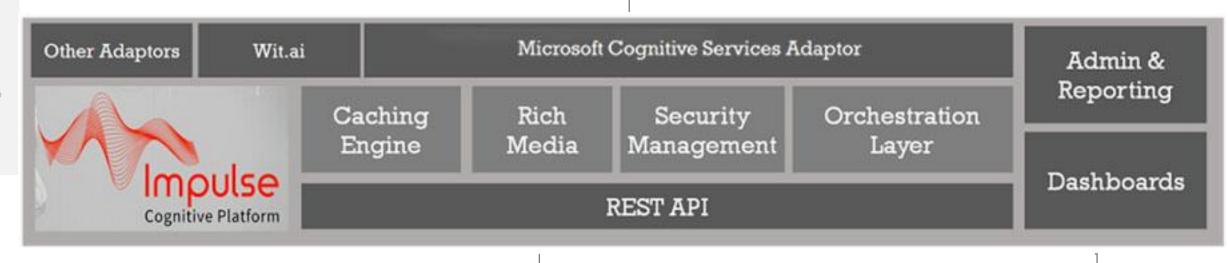
ITP.net





Product











Back office Dashboard KPIs **Performance Stats**



Product

Impulse rides on underlying Artificial Intelligence (AI) engines (cloud and on-prem) to deliver AI based solutions to organizations across a host of areas such NLP, Machine Learning and Deep Learning



- Following are the key advantages that organizations see in Impulse when implementing an AI based solutions:
 - In-built cache that has the capability to respond to customers' interactions without going back to the cloud AI platform.

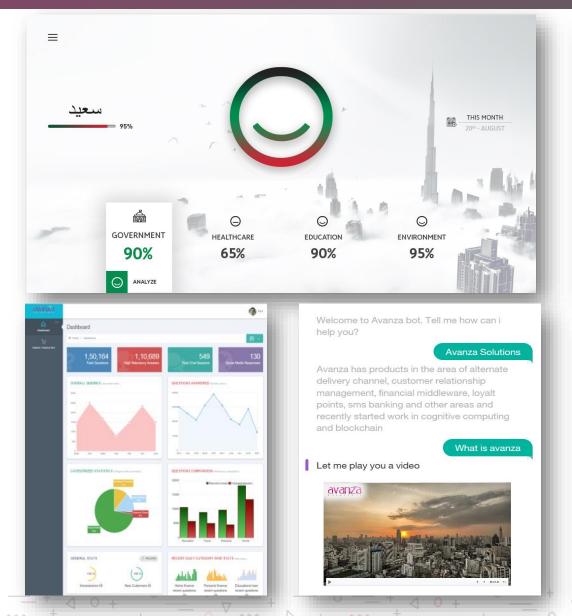
 This results in huge cost saving for organizations adopting MS Cognitive Services
 - Rich media support enables organizations to respond to customer queries not through just text but also through other media formats such as videos, images and PDF documents etc. Existing AI engines lack this ability
 - Abandonment rates and insights provided by Impulse exactly pin point where AI based interactions have failed with a customer and human involvement was required. This gives organizations clear insights on where and how to re-train the engine through a knowledge base

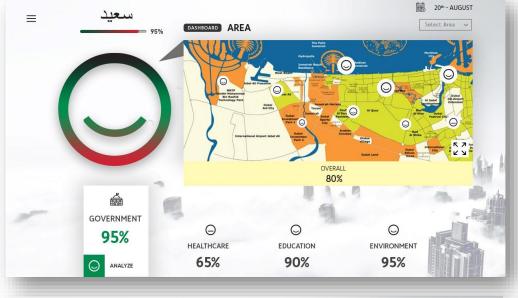


- Sentiment analysis from unstructured data is another areas where Impulse helps organization derive customer sentiment through Email and Chat Interactions as well as through Social Media posts and blogs.
- Avanza works closely with Microsoft jointly in our go-to-market and joint product development. Impulse rides on AI platforms provided by these organizations to deliver customer-ready AI solutions



Case Study











Avanza signs MOU for City-Wide Medical Emergency Management Solution



Avanza's Medical Emergency Management System makes cities disaster-ready and gives real time visibility to regulators around demand vs supply of emergency cases vs emergency facilities & equipment



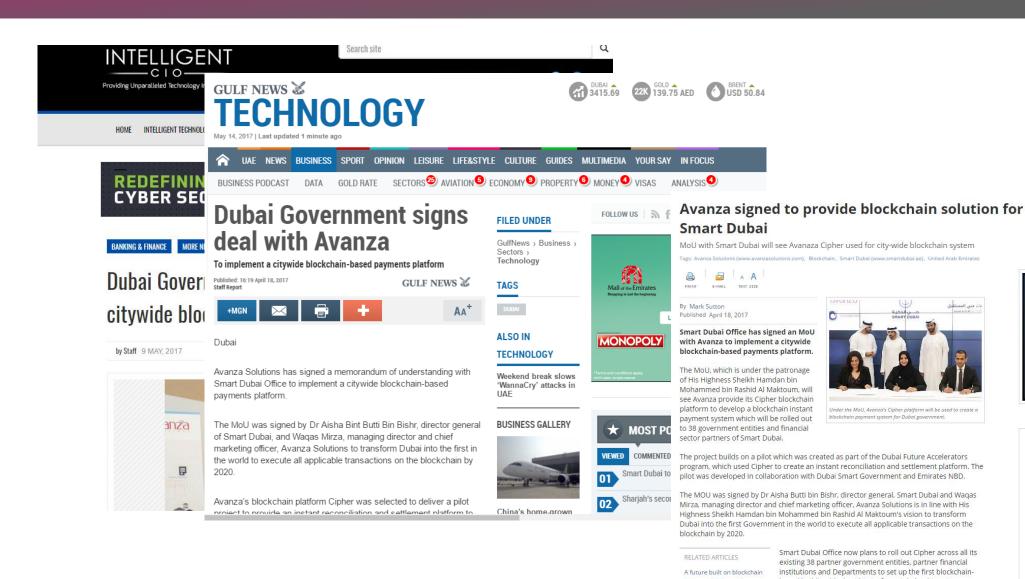


Reconciliation & Settlement



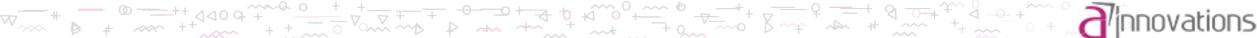


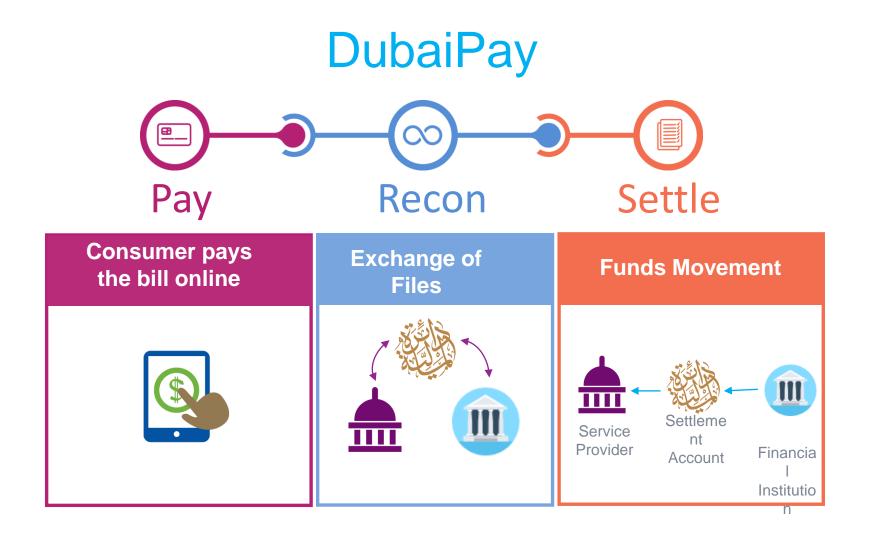








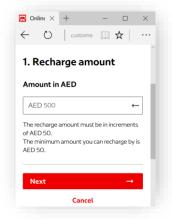






Payment Leg





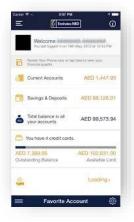
Consumer goes to top up his SALIK

DubaiPay STEP 2



Dubai Pay provides options for payments

Emirates NBD STEP 3

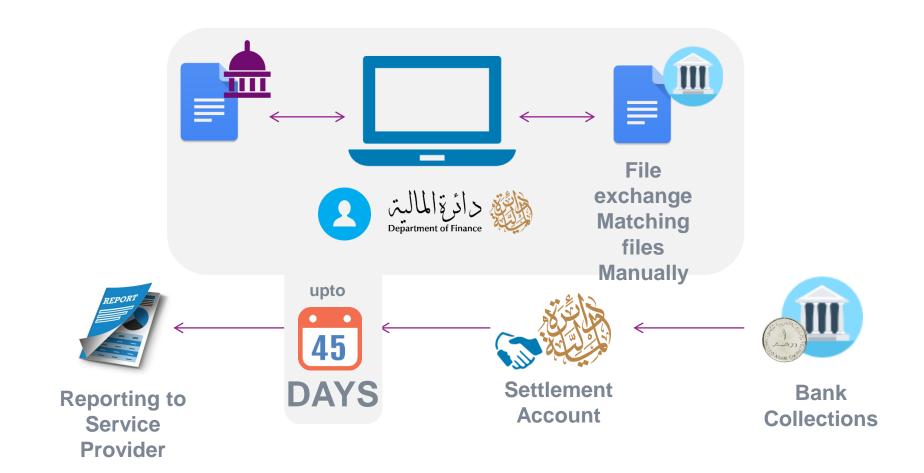


Consumer selects which account to pay from

Payment Done – Easy & Simple

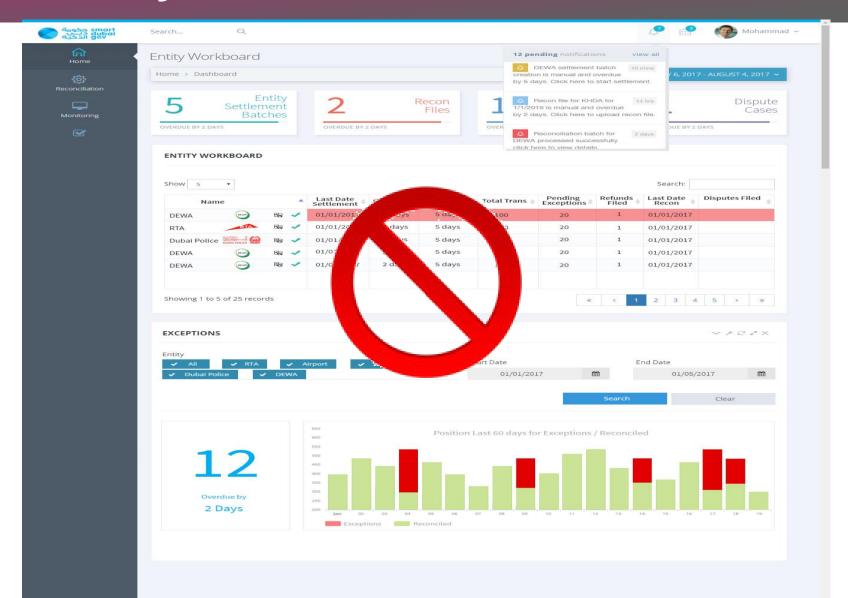


Tedious Recon & Settlement

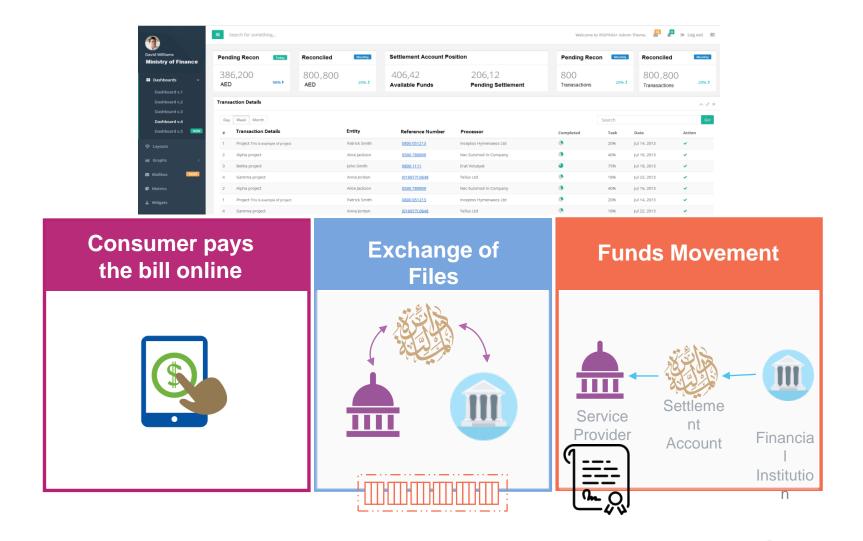




No Availability of Dashboard on Revenue Information

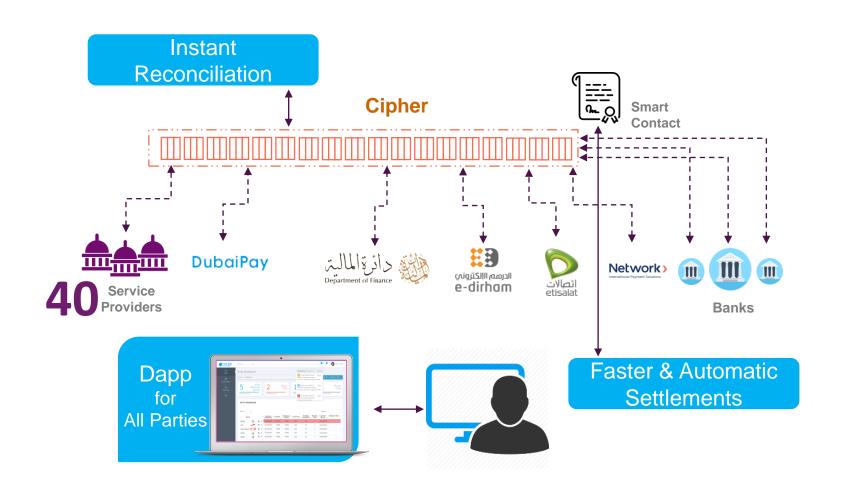






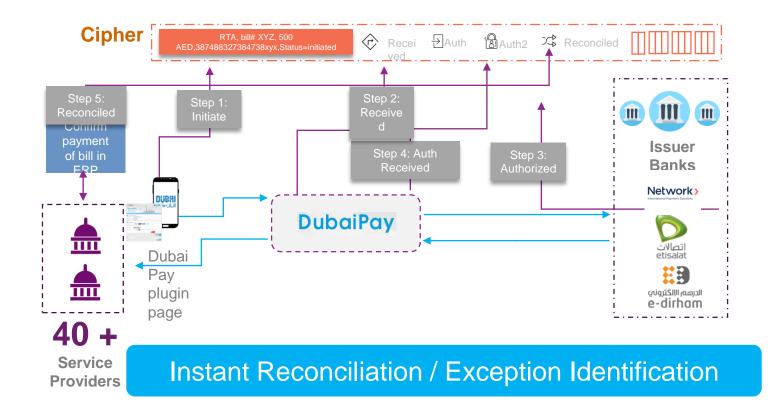


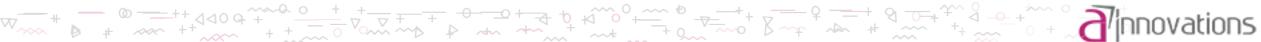
Blockchain Enablement



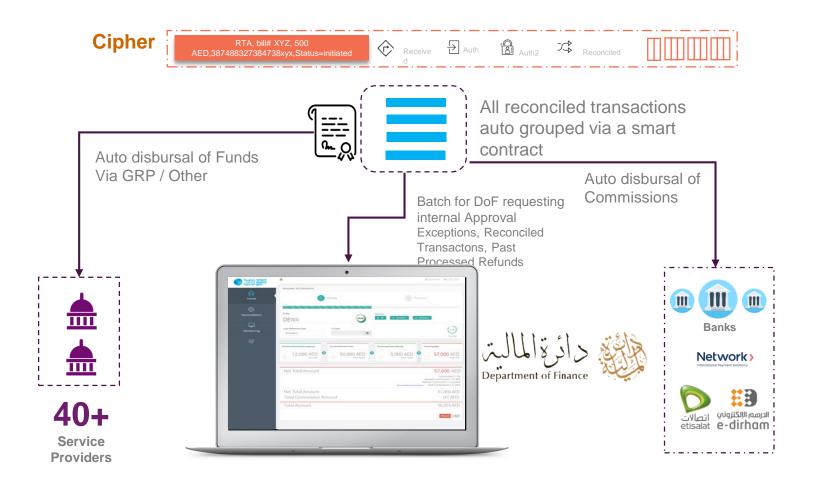


The Recon Leg



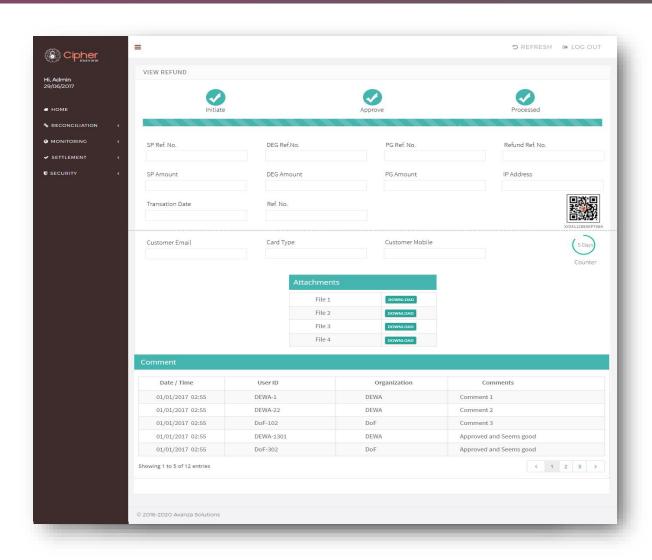


Settlements





Sneak Preview of the System

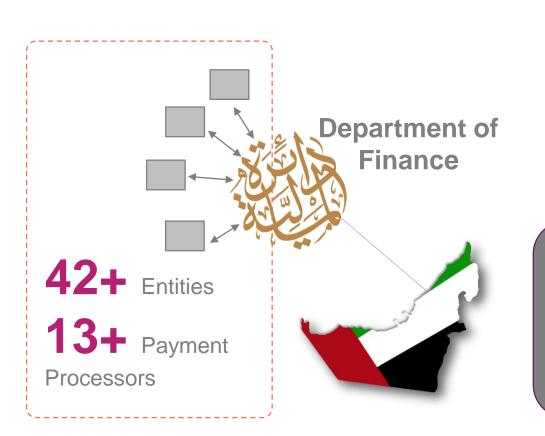


- √ Real time view of Funds
- ✓ Exception Management
- ✓ Automation and Real time visibility of Settlements
- ✓ Refund & Dispute Management



Current Progress

Recon & Settlement on Blockchain



KHDA DEWA

SDG

Stamping transactions live

Business Transactions

706,810

Chain Height

2 M+

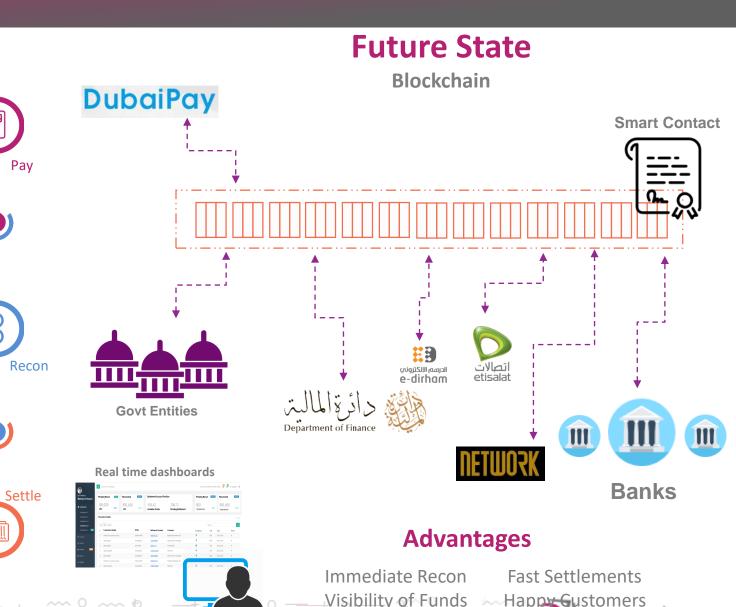


Dubai Pay – Future State



Current Issues

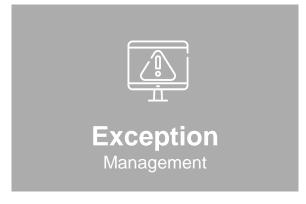
45 days for settlements, Reconciliation d-1 New Participant on-boarding time consuming Manual or semi-automated recon & Settlements



Solution Components



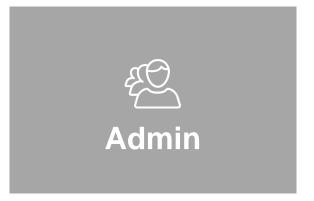












Reports & Dashboards

Integrations with Existing systems

Blockchain Viewer





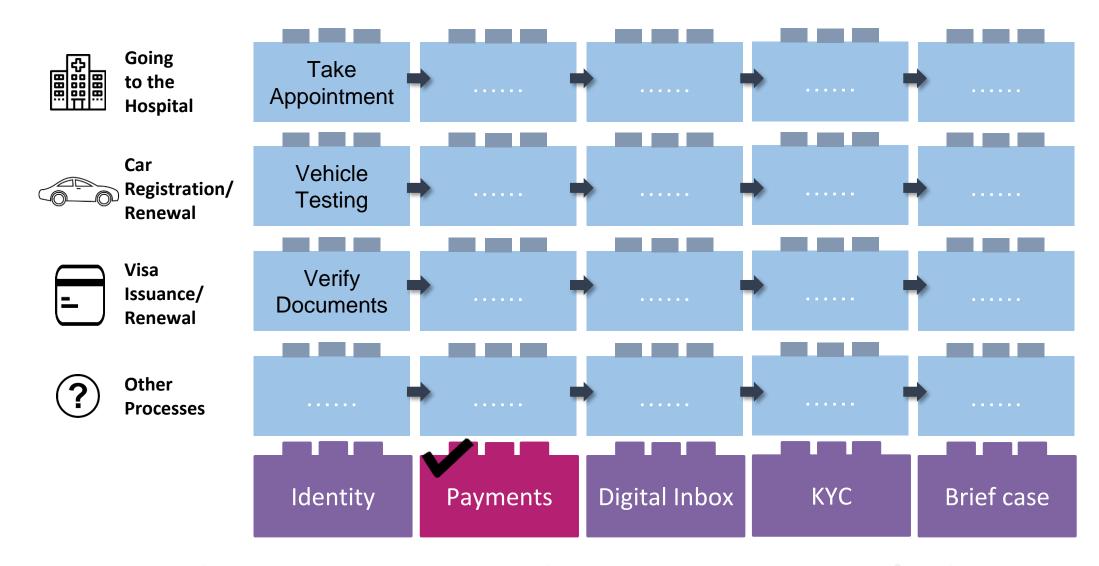
Dubai will be the 1st government in the world to execute all applicable transactions on the Blockchain by 2020.

His Highness Sheikh Hamdan bin Mohammed Al Maktoum
On the launch of the Dubai Blockchain Strategy, October 5 2016





Dubai's Blockchain Journey



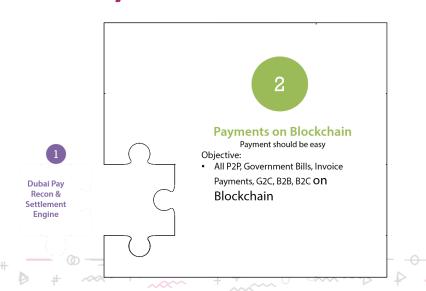


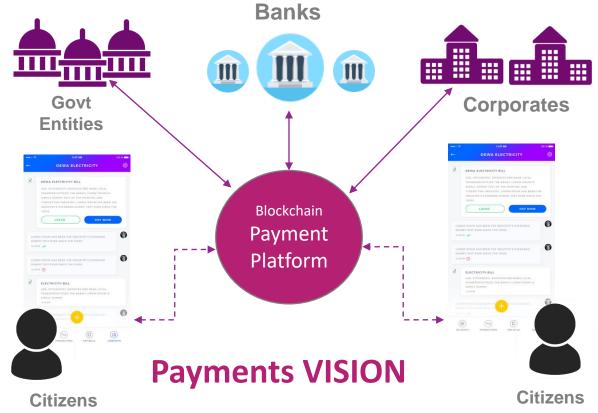
Dubai Payments - Vision 2020

Approach- Recon & Settlements



Payments on blockchain





Payments are easy like What's app
Nation Wide
P2P, G2P, P2G,B2C all sort of payments
Secure & Robust

Immediate Reconciliation & Settlements Extensible Framework on which Applications can be

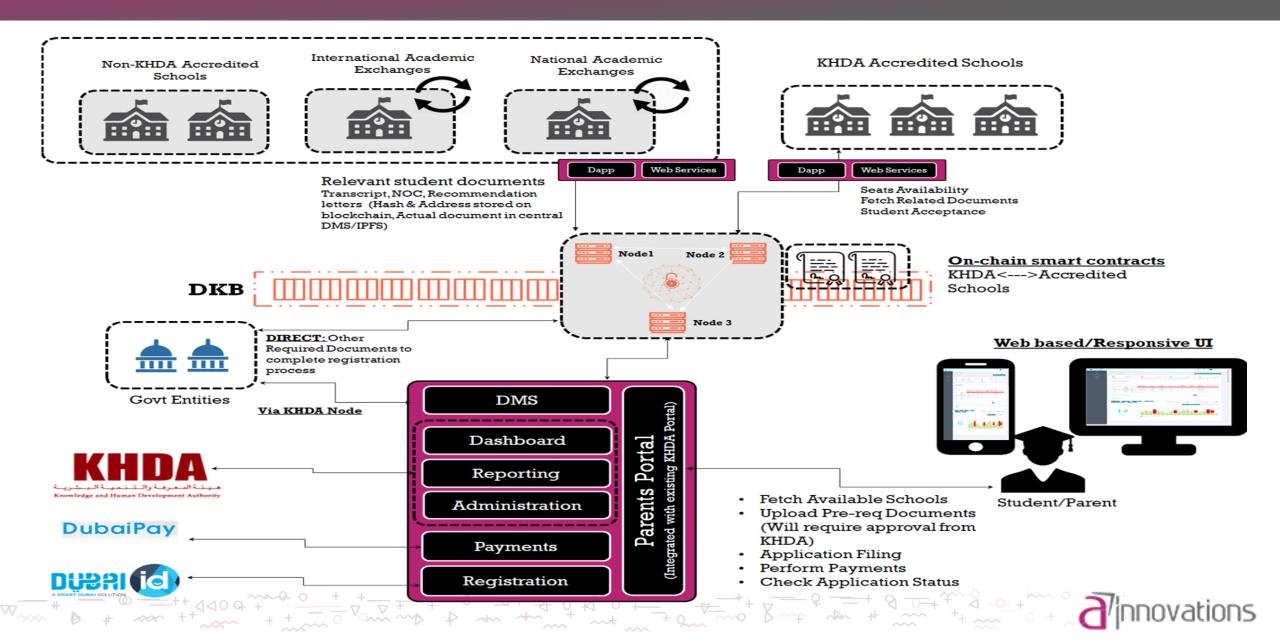
plumed





Dubai Knowledge Blockchain

Dubai Knowledge Blockchain (DKB)

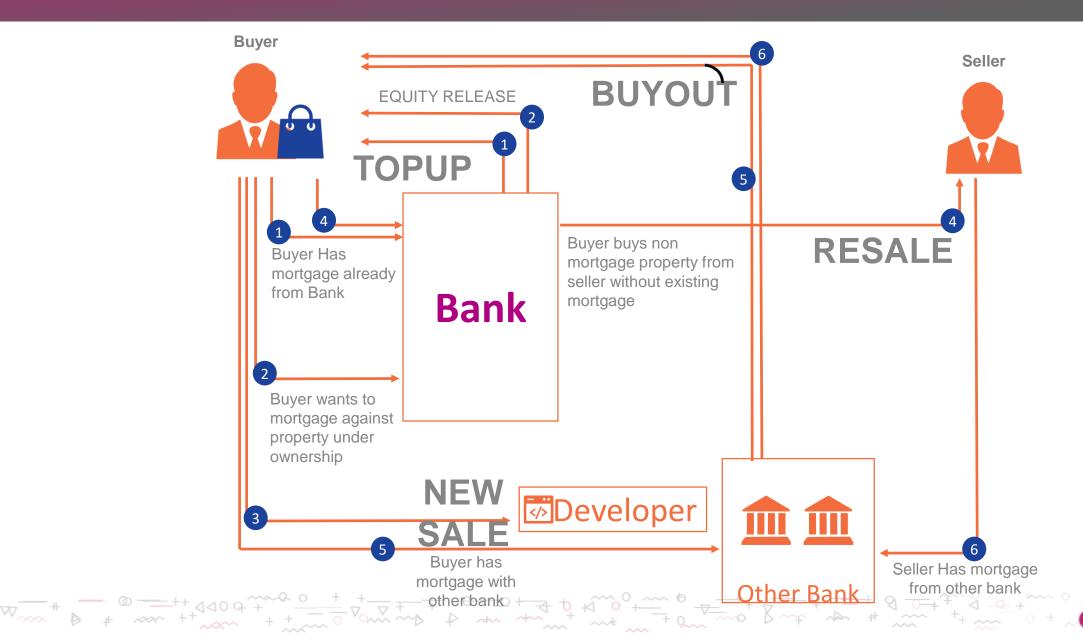




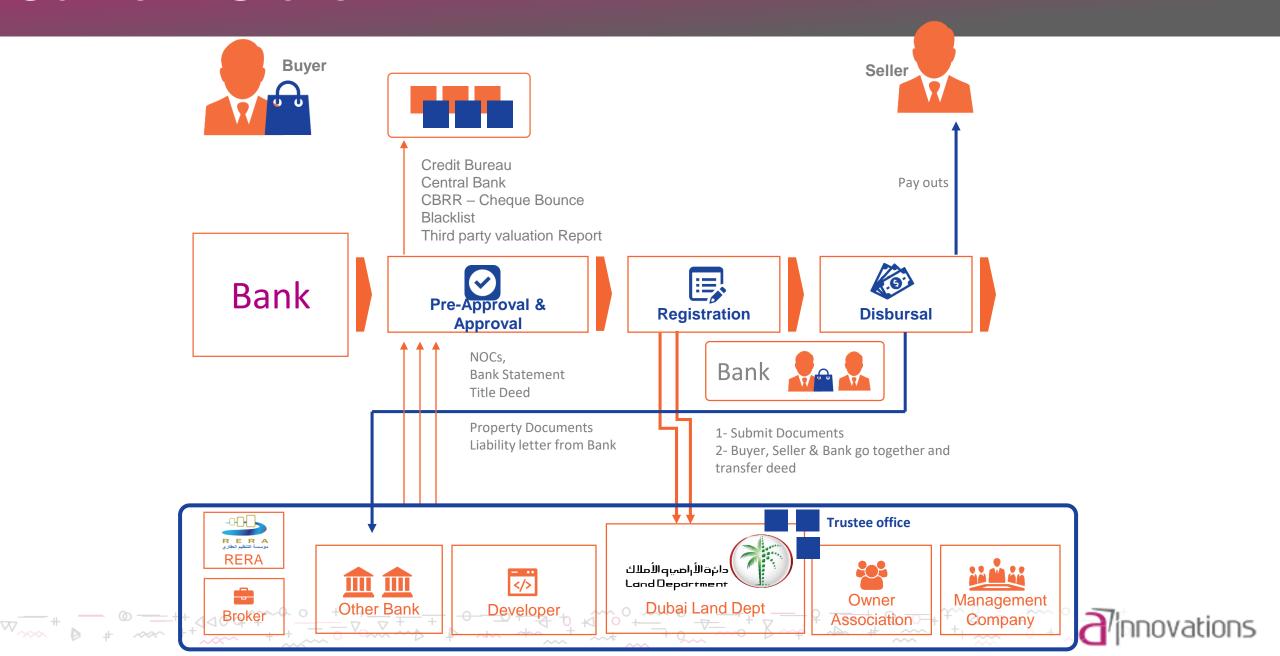
and this Dee

Smart Mortgages

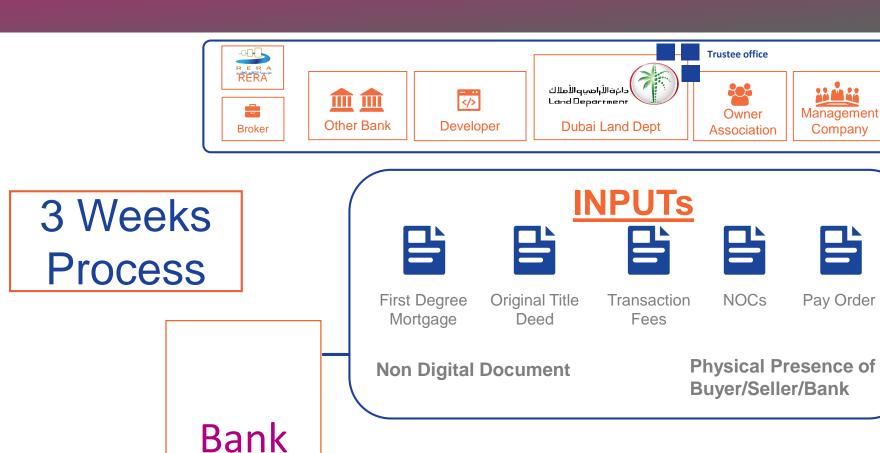
Mortgage Types – Retail [6 cases]



Current State



Current State



دائرة الأراضي والأملاك Land Department **Dubai Land Depart**



Company

出



Reprinted Title Deed with Mortgage By = Bank

Stamped First Degree Mortgage

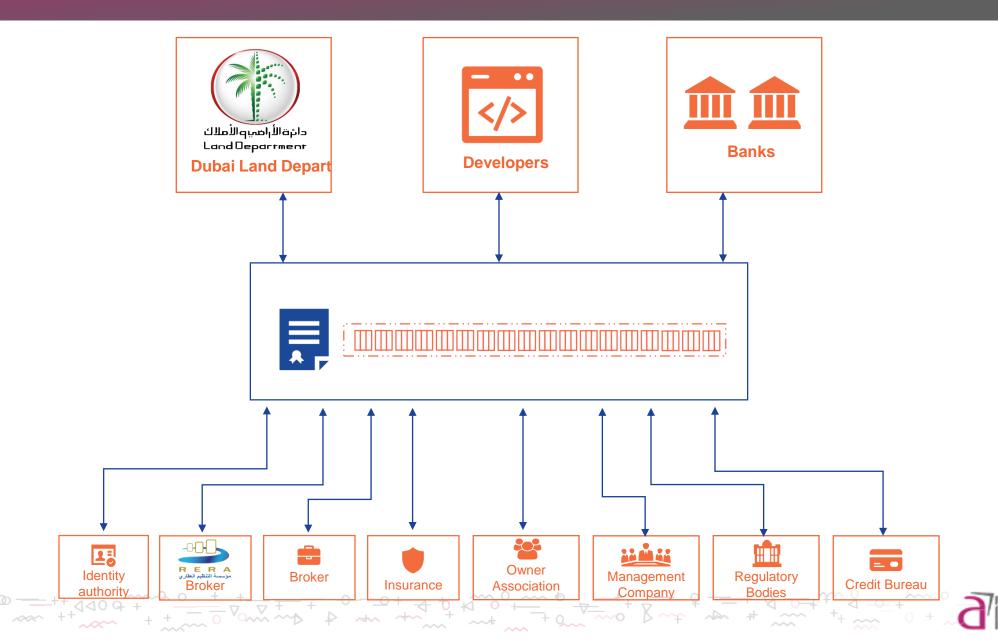
Non Digital Document



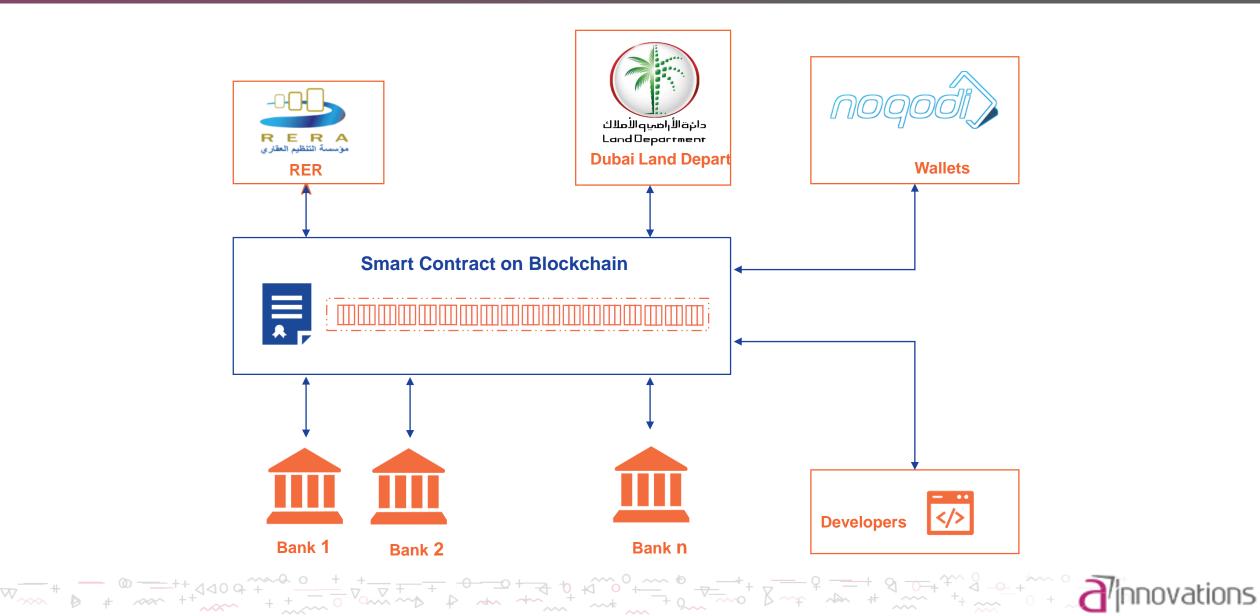
Dubai Land Department



The Mortgage Chain



Smart Mortgage





Objectives



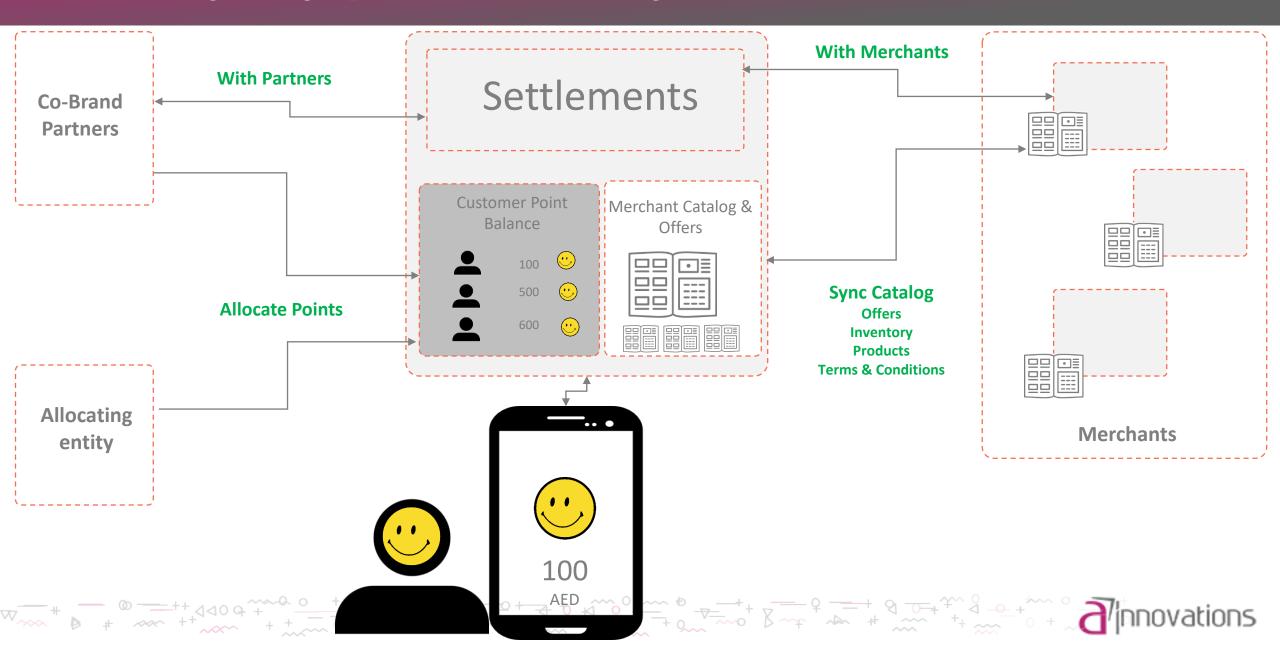
- increased efficiency for Banking sector
- Increased efficiency for Dubai Land Department
- Increased Mortgage volumes in UAE
- Increased customer happiness with instant digital process
- in line with Dubai 2020 vision
- © Robust 360 regulatory oversight
- Interbank efficiencies are increased



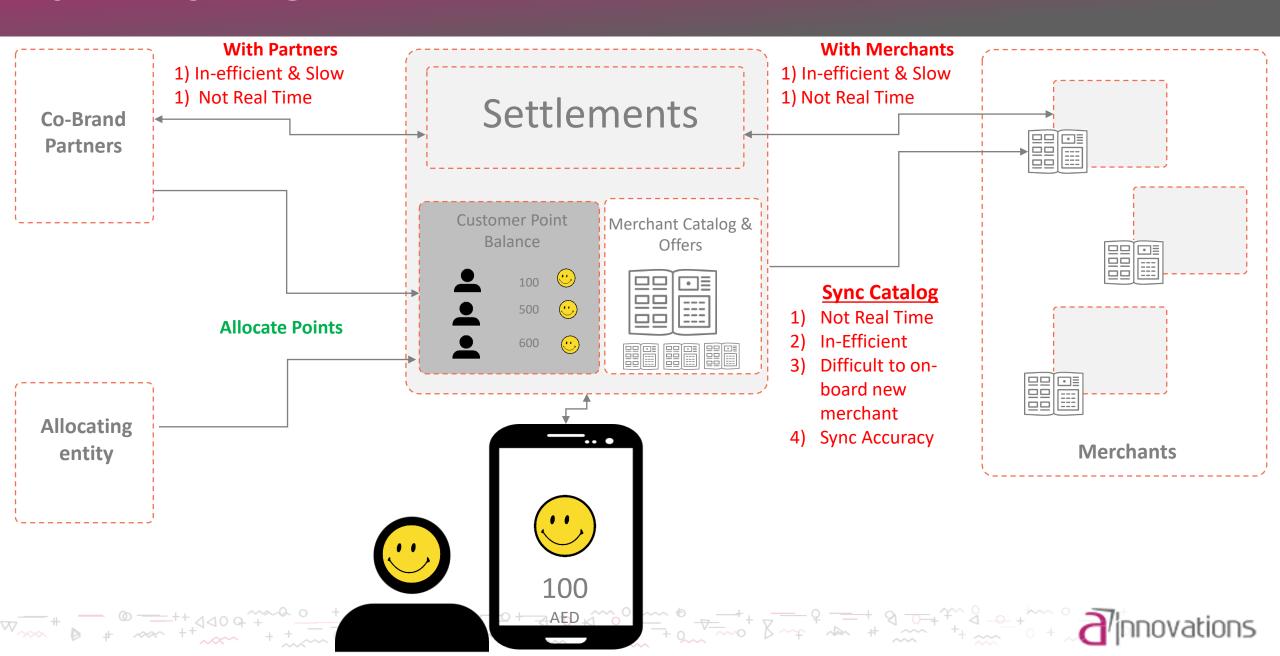


Tokenization of Loyalty Points

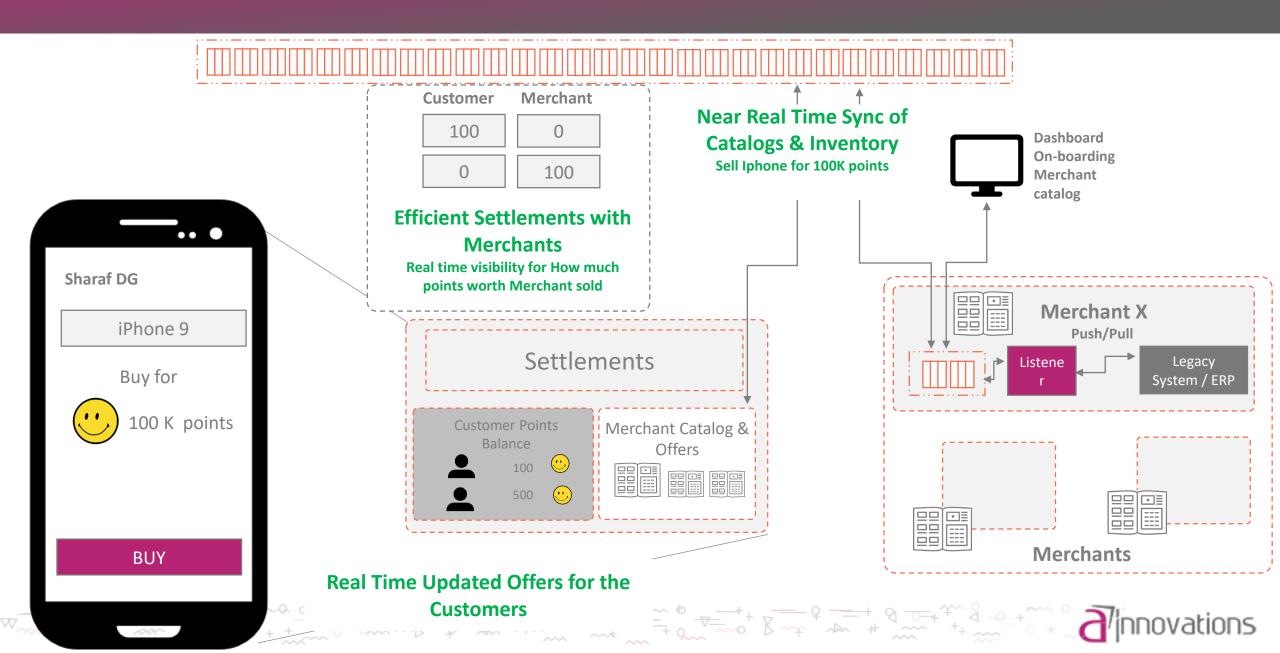
As-is loyalty points ecosystem



Pain Points



Enable Blockchain



Advantages

For Merchants

- Ability to update Catalog and Inventory on Blockchain
 Push Mechanism
 Pull using ERP Adaptors
 A Dapp (Portal) to update Catalog & Inventory
- Real Time view of which Products are being purchased / viewed more
- Real Time visibility of pending Settlements
- Ability to define own rules e.g Product X =

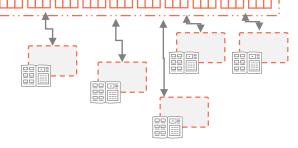
100 POINTS

For Entity

Scale out Merchants eco-system with ease.

FAST on-boarding
Efficient & auto settlements

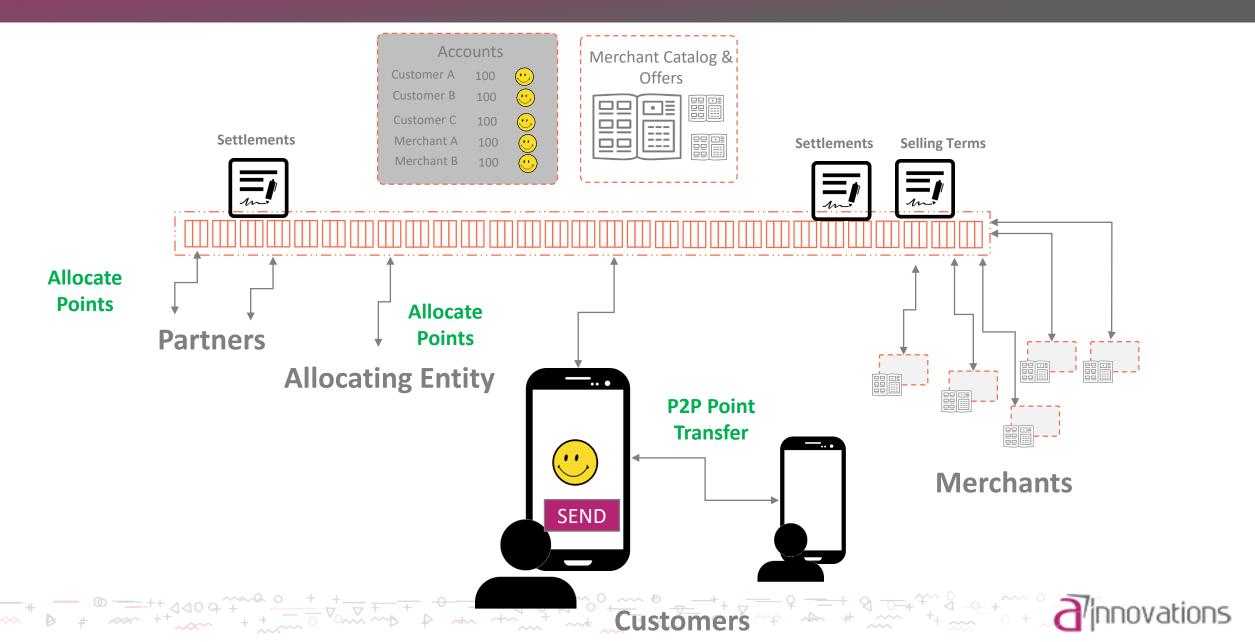
- Near Real time catalog update with TRUST.
- Which merchants are more profitable?
- Customer Accessing new offers without house keeping from ENTITY (but with Governance control)

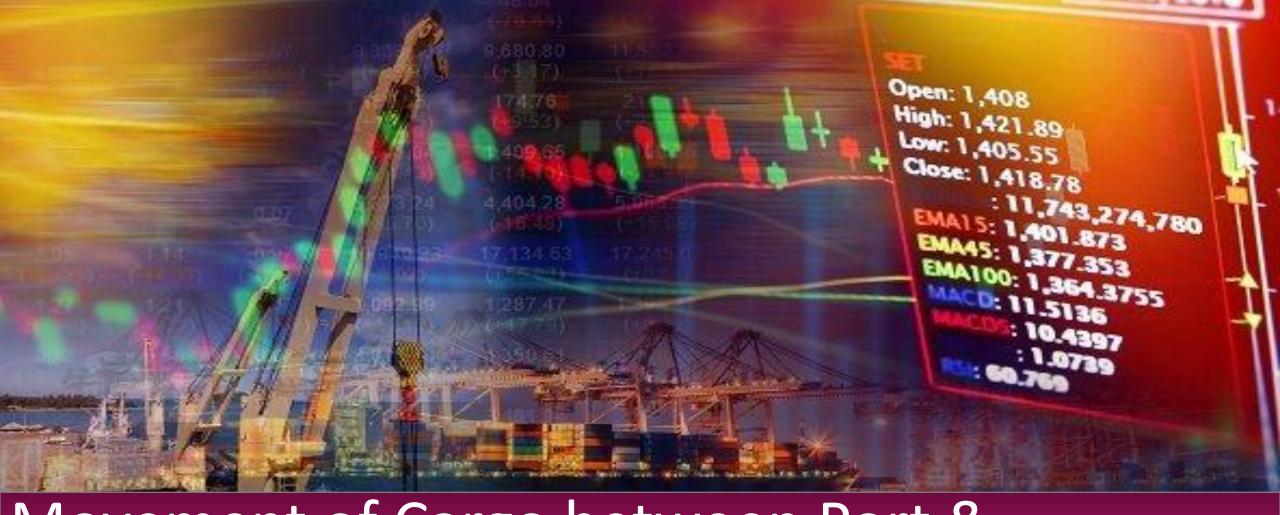


Merchants

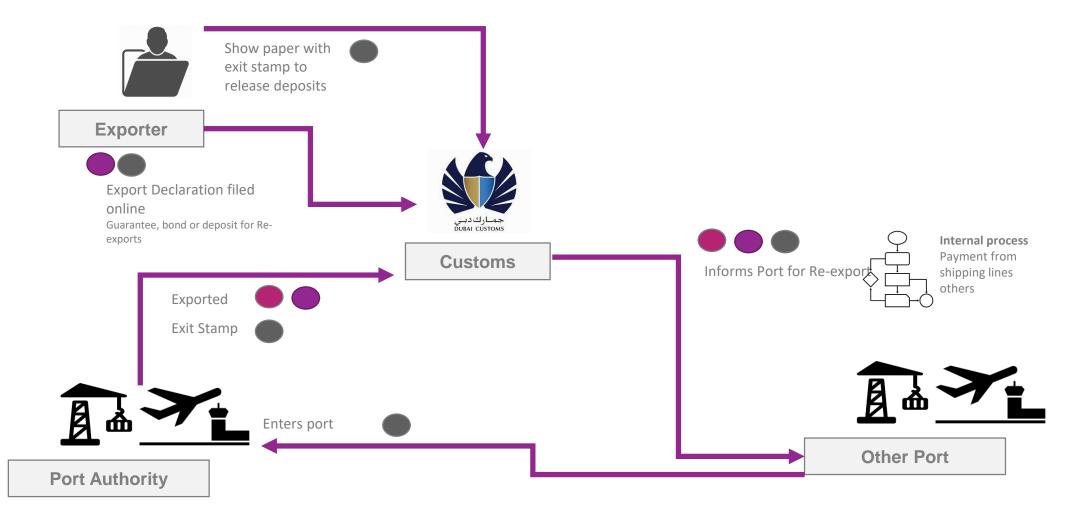


Completing the Eco-system



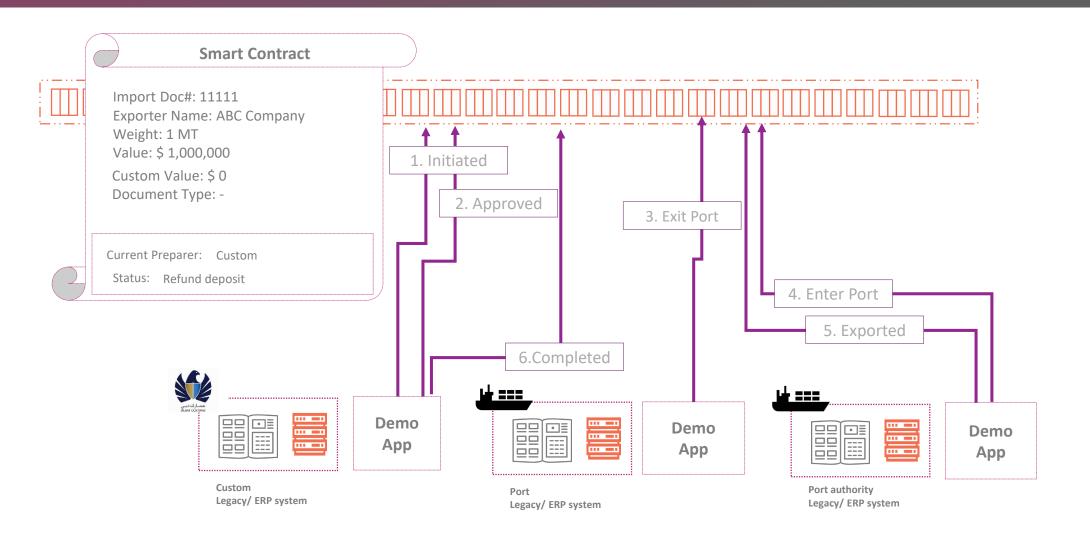


Movement of Cargo between Port & Freezones



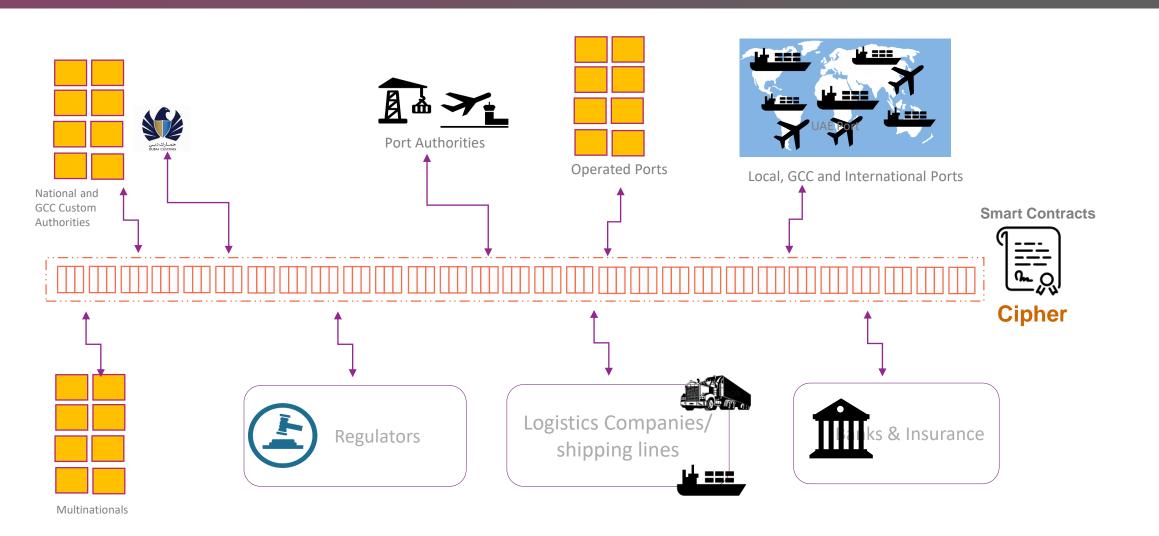


Blockchain Enabled to-be Process



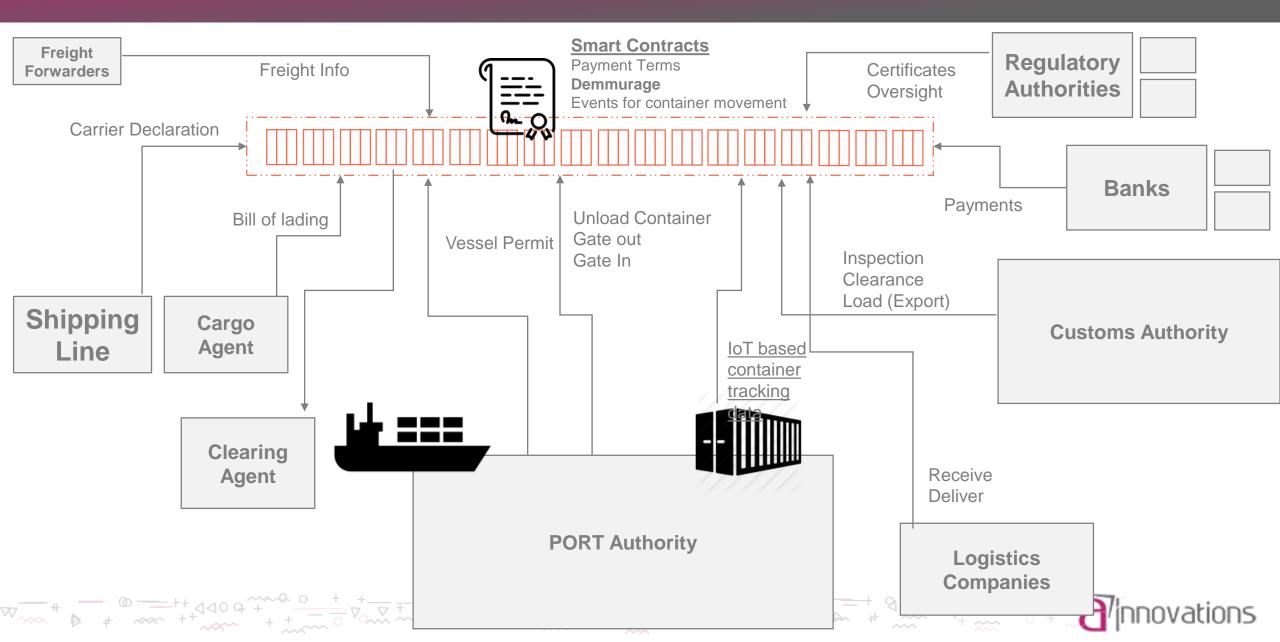


Evolution – Trusted Information Backbone





Efficient & Transparent Port Operations



Ports & Blockchain

Dutch port of Rotterdam -to investigate blockhain's potential in organising port logistics and cargo flows more efficiently.

Port of Antwerp— a secure system for collecting containers in the port by the drivers on blockchain.

Singapore Port Pilot – The goal of the trial is to automate the flow of documents between trading partners, providing transparency along the way..





Blockchain Adoption by Banks Globally



Banking Use Cases

Asset creation and transfer Assets can be created or

Assets can be created or represented on a blockchain, and securely transferred between parties.

Data reconciliation

Because parties to a transaction share an entry on the blockchain, transaction records are automatically reconciled u front.

Unique identification

Each participant in the network is assigned a public-facing address & a private key unique to the participant.

- Trade Finance
 - Bank Guarantee
 - Letter of Credit
 - Credit Cheques
- Mortgages
 - Asset-Liability management
 - Securitization
- Trading
- Securities & Commodities transfer
- Payments

- Reconciliations & Settlement
- Interbank Payments
- Dispute management
- Post trade netting
- Master data management

- Know your customer (KYC)
- Customer On-boarding
- Contract Management
- Audit Enablers
- Compliance management

