

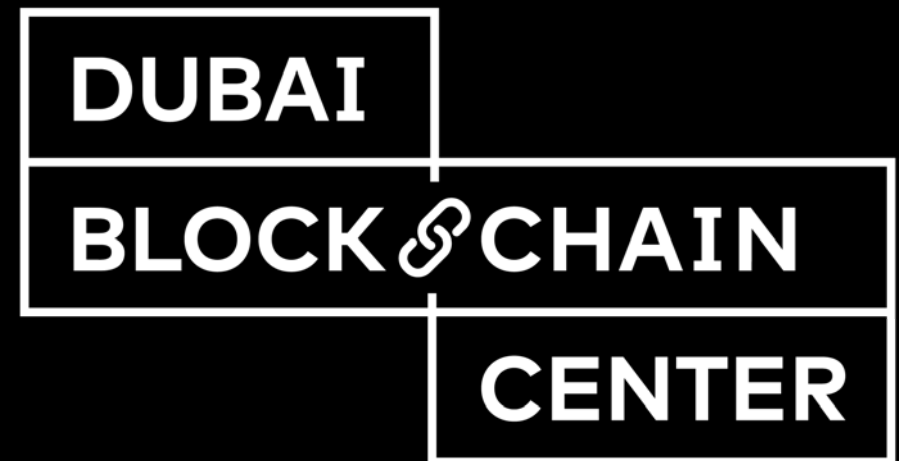
# **Blockchain insights** **From The** **United Arab Emirates**





The Dubai Future Councils are tasked to share knowledge and expertise to find solutions to various challenges, launch initiatives and national strategies to create future and current opportunities, with the participation of leading government and private sector's experts specialized in exploring the future.

The councils include groups for blockchain, Community Security, Education, Humanitarian Aids, Media, Transportation, Future Cities, Energy, Artificial Intelligence, Talents, Health & Wellbeing, Entrepreneurship & Innovation Ecosystem, and Logistics.





**HH Sheikh Mohammed** 🇦🇪 @HHShkMohd · Apr 23

We launched the world's first virtual "Ministry of Possibilities," a new government work system in the UAE. The virtual ministry, administered by the cabinet, will address pressing national portfolios and build future government systems.



**“Dubai government will issue its last paper transaction in 2021, we have instructed Smart Dubai Office to oversee this goal.”**

His Highness Sheikh Hamdan Bin Mohammed Al Maktoum  
Crown Prince of Dubai & Chairman of the Dubai Executive Council

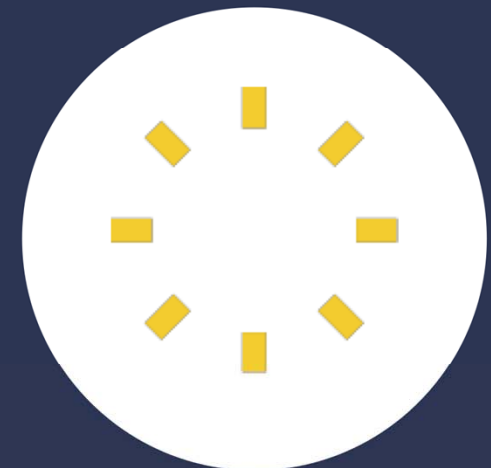


**WHAT TECHNOLOGIES  
WILL POWER THIS  
TRANSFORMATION?**



## BLOCKCHAIN

Unlocking the power of Blockchain to open the future economy from Dubai



## DIGITAL SERVICES

UAE PASS



### HIS EXCELLENCY OMAR BIN SULTAN AL OLAMA

Minister of State for Artificial Intelligence

His Excellency Omar bin Sultan Al Olama has been appointed as Minister of State for Artificial Intelligence following the Cabinet reshuffle of October 2017. His responsibilities include enhancing the government performance by investing the latest technologies and tools of artificial intelligence and applying them in various sectors.



## **BLOCKCHAIN**

Unlocking the power of  
Blockchain to open the  
future economy from  
Dubai



**“DUBAI WILL BE THE FIRST  
CITY FULLY POWERED BY  
BLOCKCHAIN BY 2020”**

His Highness Sheikh Hamdan Bin Mohammed Al Maktoum  
Crown Prince of Dubai & Chairman of the Dubai Executive Council  
On the launch of the Dubai Blockchain Strategy, 5 October 2016



# Making Dubai the global capital of blockchain

- **DUBAI BLOCKCHAIN STRATEGY**

## GOVERNMENT EFFICIENCY



ACHIEVE EFFICIENCY BY  
USING BLOCKCHAIN IN  
100% OF APPLICABLE  
GOVERNMENT SERVICES

## INDUSTRY CREATION



CREATE AN ACTIVE AND  
ENABLING BLOCKCHAIN  
ECOSYSTEM FOR STARTUPS  
AND BUSINESSES

## INTERNATIONAL LEADERSHIP



LEAD THE STRATEGIC  
THINKING AND PROGRESS  
ON BLOCKCHAIN GLOBALLY

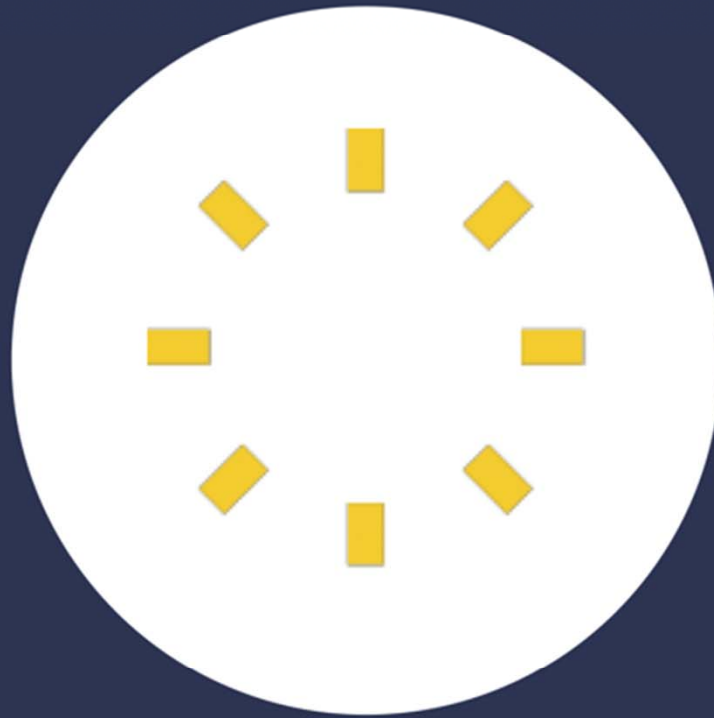


# UAE Blockchain Strategy 2021



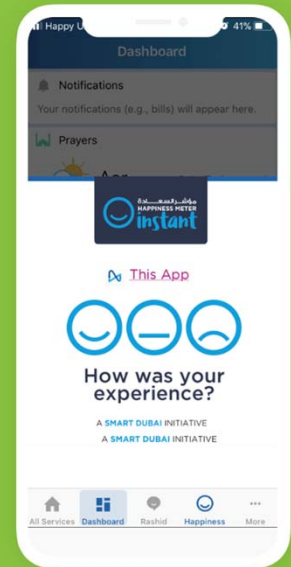
11 AED Billion translations and documents processed routinely  
398 million printed documents annually  
77 million work hours annually

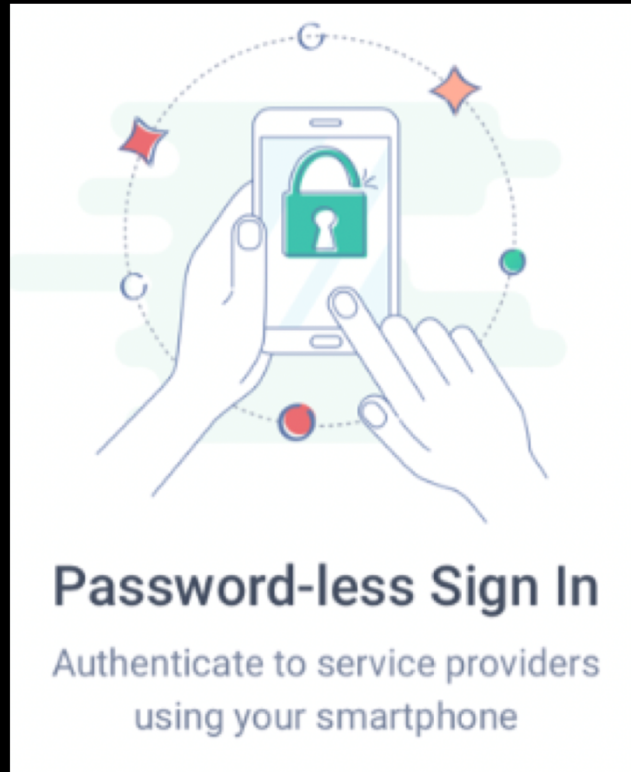
# Digital Identity



**DIGITAL SERVICES**

UAE PASS



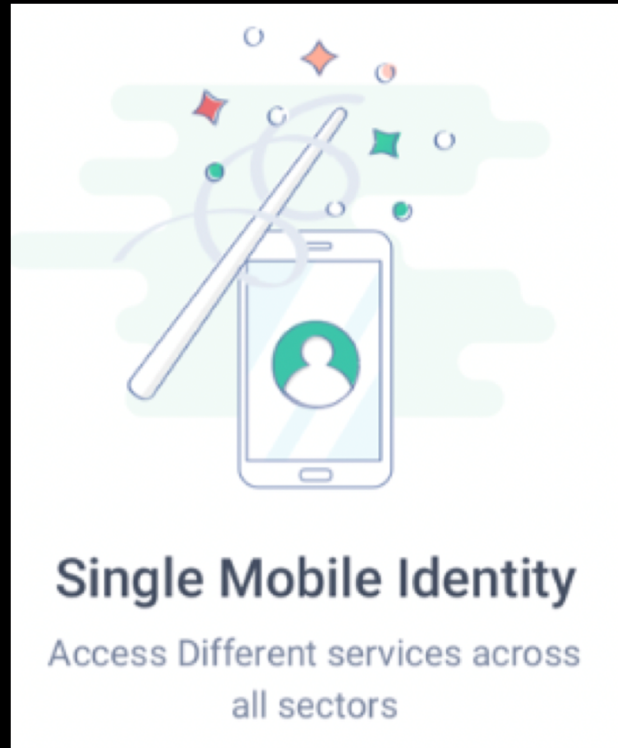


# Virtual Onboarding

**Self enrollment of biometrics**

**Seamless sharing of Identity across providers**

**Based on international standards**



# Sovereign Identity

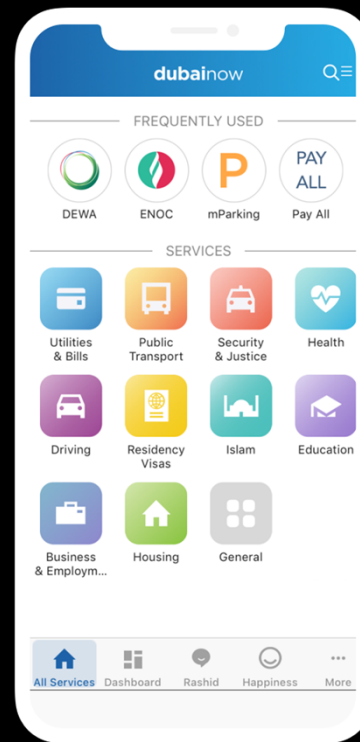
**Privacy controlled by users**  
**Based on PKI Technology**  
**Not only for humans but also things**  
**Humans are the first use case**





# Document Signing and Verification

**Digital Signatures and eSeals**  
**Dynamic Data Vaults**  
**Seamless and Intelligent**  
**Enables for Data Marketplaces and countless other use cases**



# Unified Wallets

Universal KYC/AML

AI and Machine learning can be used to establish reputation and credit building



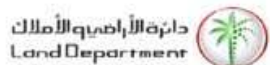
**Hamdan bin Mohammed** ✓

@HamdanMohammed



I have directed all government entities to provide their consumer services through the 'DubaiNow' app, which provides 88 government services and has already facilitated transactions worth AED4 billion. Our aim: the Dubai government to become 100% paperless by December 12, 2021.

## FEATURED DUBAI BLOCKCHAIN USE CASES



Renting or Buying a Property

Obtaining Housing as a Local



Obtaining a Commercial License

Reconciling Payments on Dubainow SDG



Enrolling and Managing Students in School

Developing Skills via Smart City University



Tracking Shipments (Dubai Customs & Dubai Trade)

Loyalty, Logistics Mngt & Spare Parts Prov. (Ek)



Purchasing Event Tickets

Interacting in the Tourism Industry Marketplace



Seeking Medical Treatment

Licensing Medical Institutions and Doctors



Obtaining a Residency as an Expat



Obtaining Notary Services



Managing the Lifecycle of a Vehicle



Processing Civil & Criminal Cases



Ensuring Food Safety (Chain of Custody)



Building a Charity Marketplace

Distributing Aid Regionally and Globally



Smart Cheques - Cheque Chain (ENBD)



Smart Cheques (Emirates Islamic Bank)



Bank Remittances (Enbd and Icici )



Banking Network (Enbd and Infosys)



Cryptocurrency Trading (BitOasis)



Transferring Titles (Dxmarkets and Dmcc)



Creating Digital Wills (DIFC DRA)



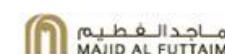
Securing Medical Records (Du and Guardtime)



Securing Kimberley Certificates (DMCC)



Offering Dubaipoints Loyalty Program (Loyal)



MAF Blockchain Use Cases

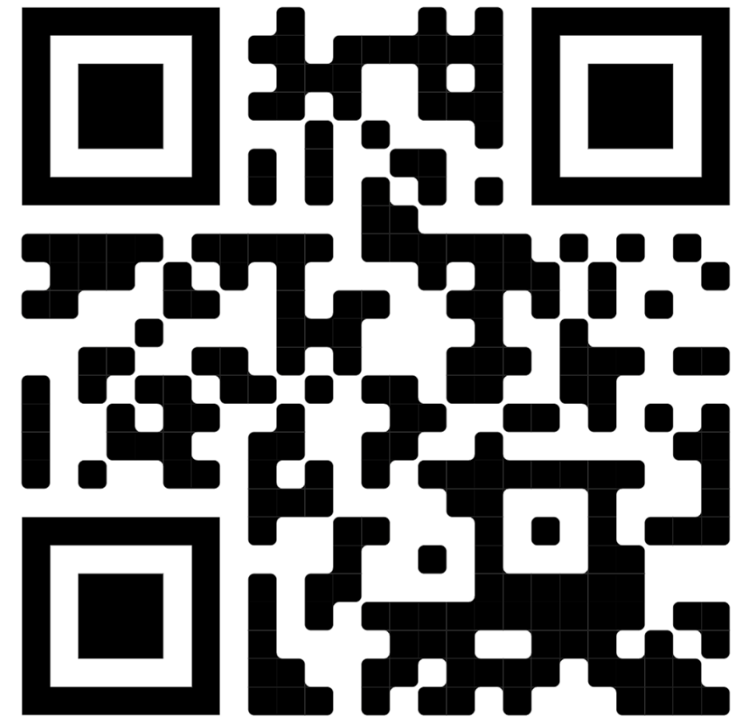


Charging Electric Vehicles

BLOCKCHAIN INSIGHTS

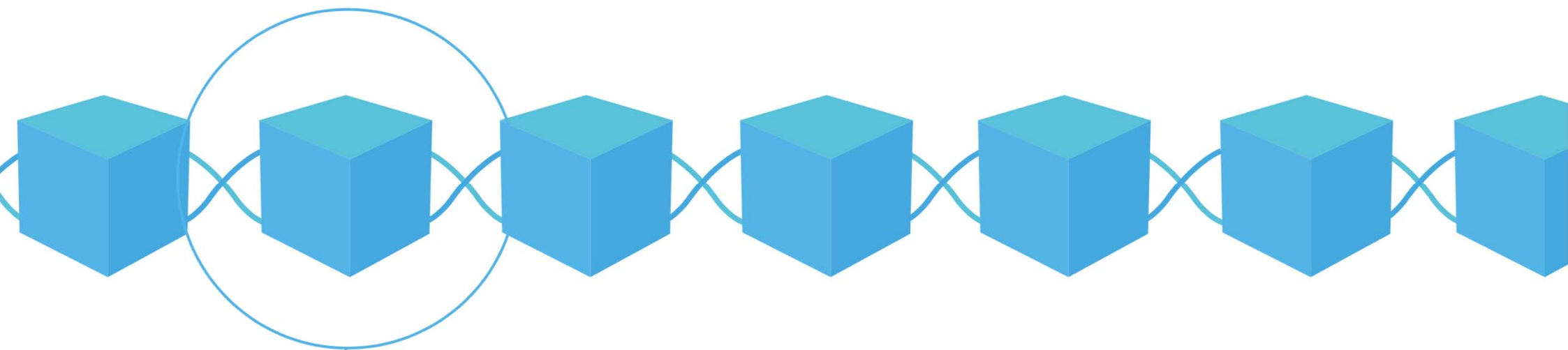
# HOW TO NAVIGATE BLOCKCHAIN PROJECT IMPLEMENTATION

AN EXPLORATION OF COMMON CHALLENGES WITH LEARNINGS AND  
RECOMMENDATIONS FOR SUCCESSFUL EXECUTION



**<http://i.dr.mw/wto>**





## WHAT BLOCKCHAIN CAN BE USED FOR?

### **Records & Data Notarization**

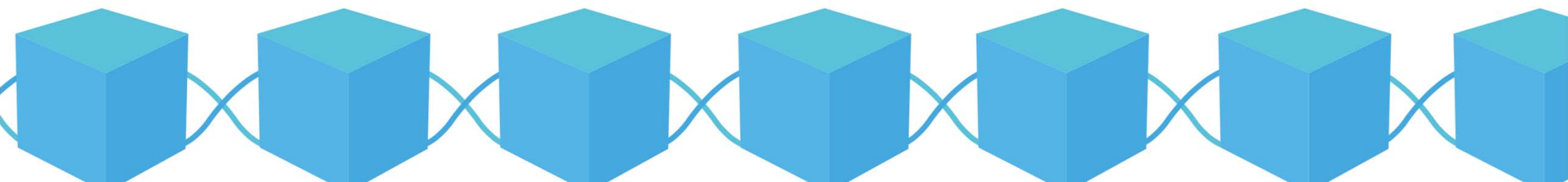
Blocks can be used as decentralized notaries to store the origin and validity of data and claims.

### **Smart Contracts**

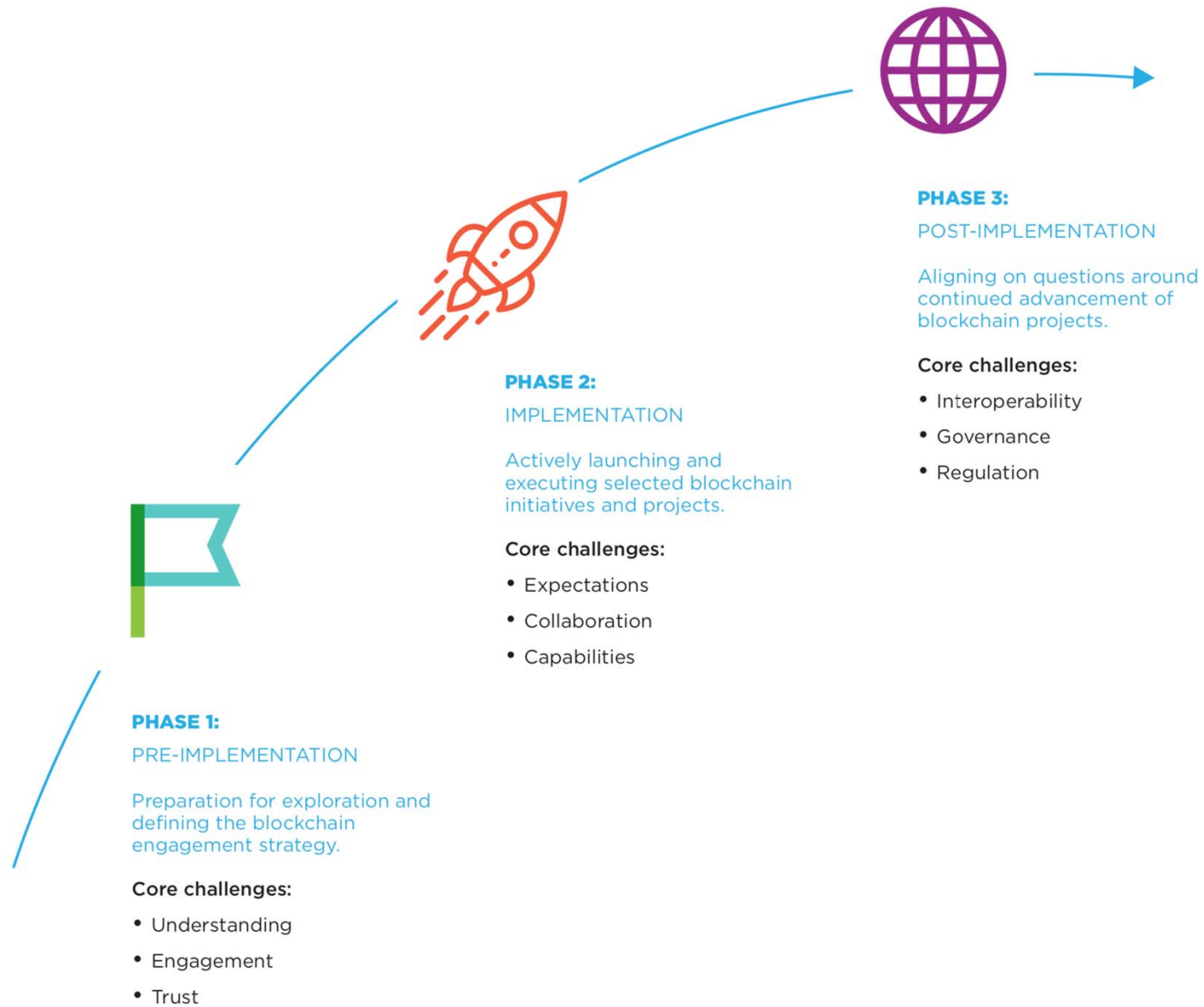
Smart Contracts can automate execution of business logic for exchange of data, value, and enforcing rules.

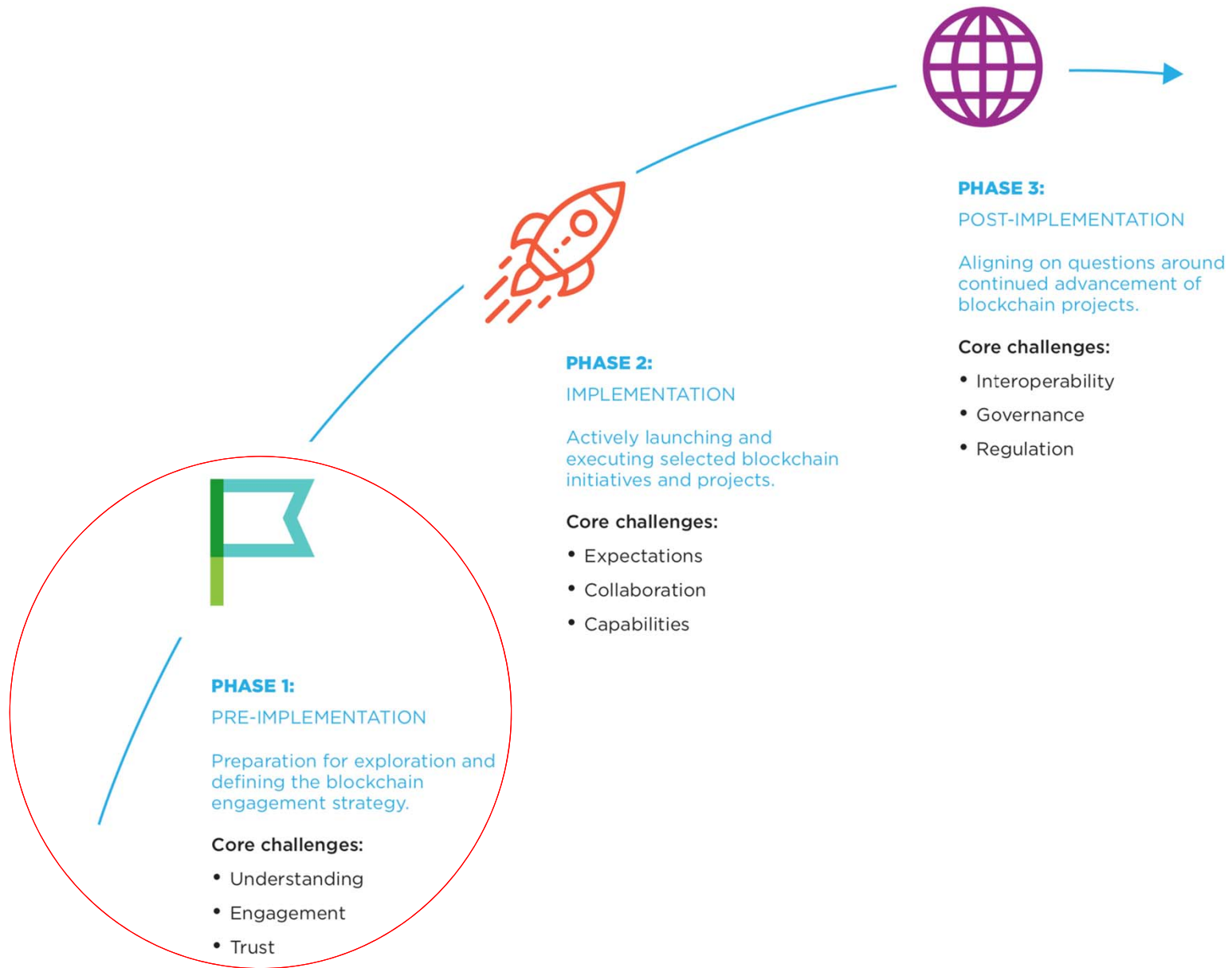
### **Value Exchange**

Transactions occur directly peer-to-peer between transacting entities, saving time and costs related to intermediaries as well as eliminating data asymmetry and reconciliation.



	Records & Data Notarization	Smart Contracts	Value Exchange
Agriculture	Medium	Medium	Low
Education	High	Medium	Low
Energy & Utilities	Medium	High	High
Financial Services	High	High	High
Government	High	High	Medium
Healthcare	High	Medium	Low
Manufacturing	High	Medium	Low
Media & Entertainment	Medium	Medium	Medium
Real Estate	High	Medium	Medium
Telecommunication	Medium	High	Low
Tourism	Medium	High	High
Transportation & Logistics	High	High	Medium
Retail	High	Medium	High





الإمارات العربية المتحدة  
مركز الثورة الصناعية الرابعة



شريك لشبكة المنتدى الاقتصادي العالمي  
في قطاع حوكمة التكنولوجيا العالمية

United Arab Emirates

CENTRE FOR THE FOURTH INDUSTRIAL REVOLUTION



A Partner of the World Economic Forum Network  
for Global Technology Governance

مؤسسة دبي للمستقبل  
DUBAI FUTURE FOUNDATION



DUBAI  
BLOCK & CHAIN  
CENTER

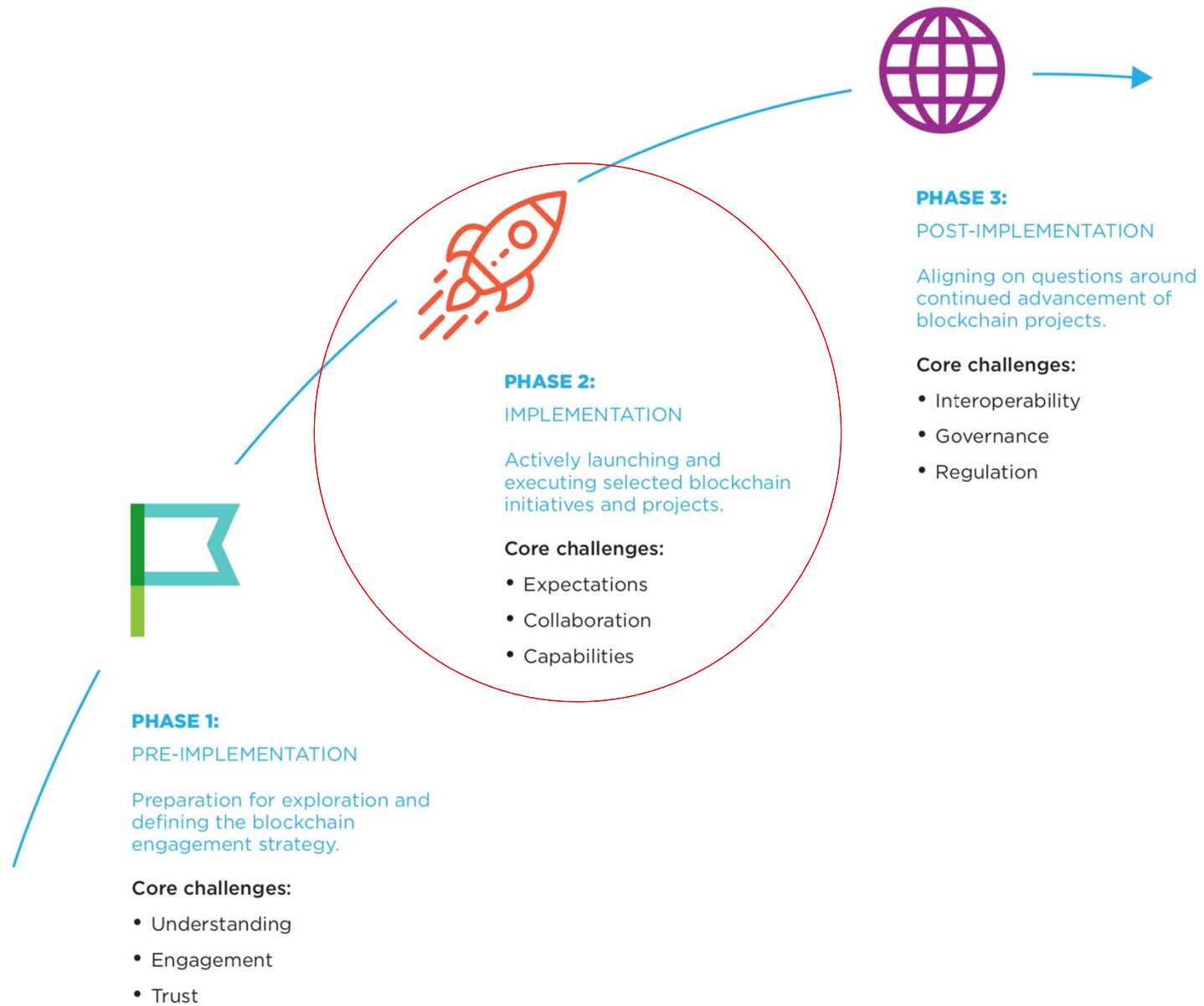


دبي الذكية  
SMART DUBAI







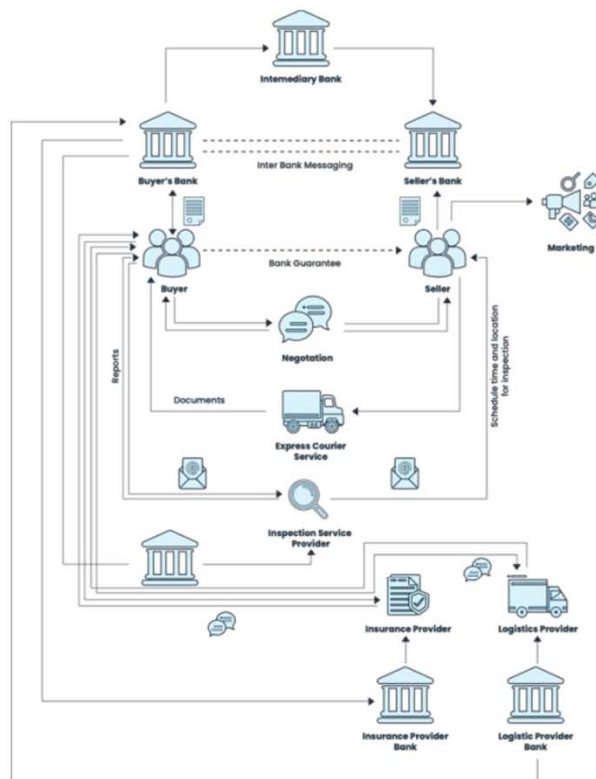




# Simplifying Logistics for Cross Border Trade



Distichain Technology Automates Commerce Process Linking Users & Service Providers



Traditional B2B Commerce

Versus



Distichain

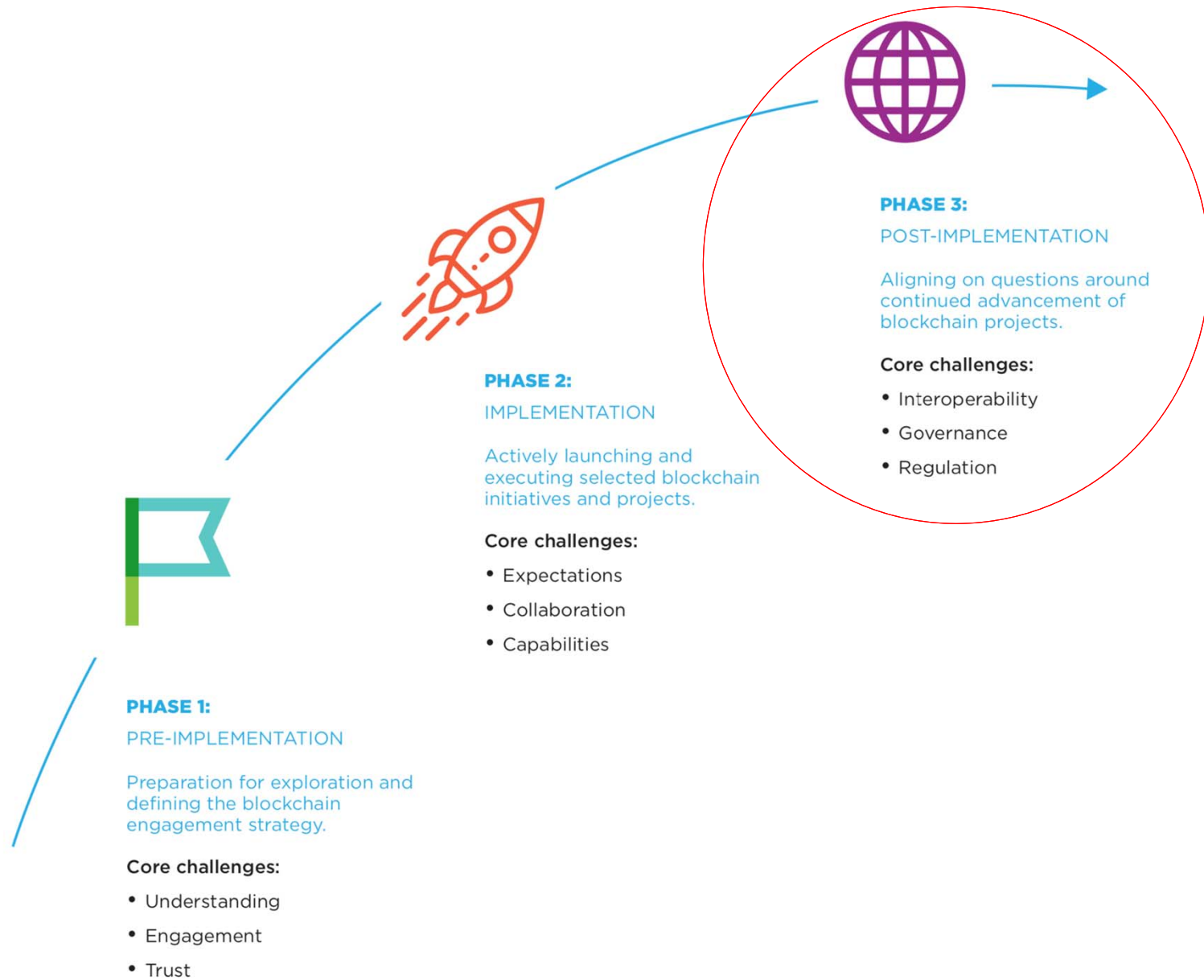


# What is Area 2071?

What if education could harness the strength of every child by being accessible and personalized?











Dhonor  
Healthtech

# Organ Donation Verification

Eradicating Organ Trafficking





# Experimentation



### **RegLab**

...is a test platform in a regulatory regime for FinTech participants to foster innovation within the UAE financial services market



### **Guidance on ICOs**

...sets out the FSRA's regulatory approach to issuers seeking to raise funds through ICOs

# **ABU DHABI**

Abu Dhabi Global Markets  
(ADGM) initiatives



### **ADGM Digital Sandbox**

...allows financial institutions and startups to collaborate on products and solutions in a digital platform environment



### **Hub71**

... is an accelerator / incubator hosted by ADGM and supported by Mubadala, Microsoft and SoftBank



# FUTURE BLOCKCHAIN SUMMIT

قمة مستقبل البلوك تشين

**BLOCKCHAIN  
IS GOING  
TO UNITE  
THE UNITED  
NATIONS.**

**BAN KI-MOON**  
8<sup>th</sup> Secretary General  
United Nations

[www.futureblockchainsummit.com](http://www.futureblockchainsummit.com)

Organised by



مركز دبي التجاري العالمي  
DUBAI WORLD TRADE CENTRE

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دبي الذكية  
SMART DUBAI

**April 7 – 8 2020**

**#DXBONTHEBLOCK**



**DUBAI**

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