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.

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

HIS EXCELLENCY OMAR BIN SULTAN AL OLAMA
Minister of State for Artificial Intelligence
His Excellency Omer 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.

DIGITAL SERVICES
UAE PASS
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
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.
<table>
<thead>
<tr>
<th>Featured Dubai Blockchain Use Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renting or Buying a Property</td>
</tr>
<tr>
<td>Obtaining a Commercial License</td>
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<tr>
<td>Enrolling and Managing Students in School</td>
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<tr>
<td>Developing Skills via Smart City University</td>
</tr>
<tr>
<td>Tracking Shipments (Dubai Customs &amp; Dubai Trade)</td>
</tr>
<tr>
<td>Loyalty, Logistics Mgmt &amp; Spare Parts Prov. (Ek)</td>
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<tr>
<td>Purchasing Event Tickets</td>
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<tr>
<td>Interacting in the Tourism Industry Marketplace</td>
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<tr>
<td>Seeking Medical Treatment</td>
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<tr>
<td>Licensing Medical Institutions and Doctors</td>
</tr>
<tr>
<td>Obtaining a Residency as an Expat</td>
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<tr>
<td>Obtaining Notary Services</td>
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<tr>
<td>Managing the Lifecycle of a Vehicle</td>
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<tr>
<td>Processing Civil &amp; Criminal Cases</td>
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<tr>
<td>Ensuring Food Safety (Chain of Custody)</td>
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<tr>
<td>Building a Charity Marketplace</td>
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<tr>
<td>Distributing Aid Regionally and Globally</td>
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<tr>
<td>Emirates NBD</td>
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<tr>
<td>Emirates Islamic</td>
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<tr>
<td>ICICI Bank</td>
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<tr>
<td>Emirates NBD</td>
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<tr>
<td>Infosys</td>
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<tr>
<td>BitOasis</td>
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<tr>
<td>dxmarkets</td>
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<tr>
<td>DMCC</td>
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<tr>
<td>Banking Network (Emis and Infosys)</td>
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<tr>
<td>Cryptocurrency Trading (BitOasis)</td>
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<tr>
<td>Transferring Titles (Dxmarkets and DMCC)</td>
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<tr>
<td>Creating Digital Wills (DIFC DRA)</td>
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<tr>
<td>Securing Medical Records (Du and Guardtime)</td>
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<tr>
<td>Securing Kimberley Certificates (DMCC)</td>
</tr>
<tr>
<td>Offering Dubaipoints Loyalty Program (Loyal)</td>
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<tr>
<td>MAF Blockchain Use Cases</td>
</tr>
<tr>
<td>Charging Electric Vehicles</td>
</tr>
</tbody>
</table>
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.
<table>
<thead>
<tr>
<th>Industry</th>
<th>Records &amp; Data Notarization</th>
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<th>Value Exchange</th>
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<tbody>
<tr>
<td>Agriculture</td>
<td>Medium</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Education</td>
<td>High</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Energy &amp; Utilities</td>
<td>Medium</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Financial Services</td>
<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Government</td>
<td>High</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>Healthcare</td>
<td>High</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>High</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Media &amp; Entertainment</td>
<td>Medium</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Real Estate</td>
<td>High</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>Telecommunication</td>
<td>Medium</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Tourism</td>
<td>Medium</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Transportation &amp; Logistics</td>
<td>High</td>
<td>High</td>
<td>Medium</td>
</tr>
<tr>
<td>Retail</td>
<td>High</td>
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PHASE 1:
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Preparation for exploration and defining the blockchain engagement strategy.
Core challenges:
- Understanding
- Engagement
- Trust

PHASE 2:
IMPLEMENTATION
Actively launching and executing selected blockchain initiatives and projects.
Core challenges:
- Expectations
- Collaboration
- Capabilities

PHASE 3:
POST-IMPLEMENTATION
Aligning on questions around continued advancement of blockchain projects.
Core challenges:
- Interoperability
- Governance
- Regulation
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Simplifying Logistics for Cross Border Trade

Distichain Technology Automates Commerce Process Linking Users & Service Providers

Traditional B2B Commerce  Versus  Distichain
What is Area 2071?
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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