SMART DUBAI

DUBAI BLOCKCHAIN STRATEGY
THE WORLD IS WITNESSING RAPID ADOPTION OF BLOCKCHAIN TECHNOLOGY

$1.1 BILLION INVESTED BY PRIVATE SECTOR IN 2016 ALONE

600 NEW COMPANIES ACTIVE IN BLOCKCHAIN TODAY

$290 BILLION VALUE EXPECTED MARKET VALUE IN 2019

LEADING GOVERNMENTS EXPLORING BLOCKCHAIN TECHNOLOGY

UNITED STATES (DE) - Company incorporation records stored on Blockchain (Delaware)

SWEDEN - Real-estate transactions on Blockchain

SINGAPORE - Invoicing on Blockchain

UK - Blockchain used to monitor distribution of grants

ESTONIA - E-Citizen records, e-payment keys and medical records secured on Blockchain

GHANA - Land registry in Blockchain
BLOCKCHAIN WILL DO FOR TRANSACTIONS WHAT THE INTERNET DID FOR INFORMATION
WHAT IS BLOCKCHAIN?

Blockchain is a distributed database shared by every participant in a given system.

“Blockchain is the second revolution after the internet”
“It will do for transactions what the internet did for information”
TODAY’S CITIZEN INFO IS FRAGMENTED, PURCHASING A CAR REQUIRES AT LEAST 6 LOCATION VISITS

TRUSTED THIRD PARTIES
FRAGMENTED DATA
CENTRALIZED CONTROL
LIMITED SECURITY
MANUAL CONTRACTUAL TRANSACTIONS
WITH BLOCKCHAIN, A CLOUD BASED DATABASE OF CITIZEN INFO IS SHARED BY PARTICIPANTS

- **Government ID**  
  - Dealer  
  - Employer

- **Gov Registration**  
  - 1 Location (Dealer)  
  - 0 Paper

- **Insurance**

- **Bank**

**Key Features:**
- No Central Authority
- Shared Identical Data
- Joint Control
- Cryptographically Secure
- Smart Contracts Enabled
“DUBAI WILL BE THE FIRST CITY FULLY POWERED BY BLOCKCHAIN BY 2020”

His Highness Sheikh Hamdan Bin Mohammed Al Maktoum
On the launch of the Dubai Blockchain Strategy, October 5 2016
“Crowned the Blockchain capital”
Making Dubai the Global Capital of Blockchain

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 thinking and piloting of cross border blockchain use cases
DUBAI BLOCKCHAIN STRATEGY

GOVERNMENT EFFICIENCY
- USE CASES
- BLOCKCHAIN PAAS
- FOUNDATIONAL BLOCKS
- BLOCKCHAIN POLICY

INDUSTRY CREATION
- GLOBAL BLOCKCHAIN CHALLENGE
- SKILL DEVELOPMENT
- DUBAI SMART CITY ACCELERATOR
- SDO ACCELERATOR AT DFA

GLOBAL LEADERSHIP
- BLOCKCHAIN NETWORK
- GLOBAL RECOGNITION
- EVENTS
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THE DUBAI BLOCKCHAIN STRATEGY WILL IMPACT ALL SECTORS IN THE CITY
<table>
<thead>
<tr>
<th>21 GOV’T AND 10 PRIVATE SECTOR BLOCKCHAIN USE CASES IDENTIFIED SO FAR</th>
</tr>
</thead>
</table>
| **RENTING OR BUYING A PROPERTY**  
  OBTAINING HOUSING AS A LOCAL |
| **CHARGING ELECTRIC VEHICLES** |
| **MANAGING THE LIFECYCLE OF A VEHICLE**  
  OBTAINING NON OBJECTION CERTIFICATES (NOCS) |
| **OBTAINING A COMMERCIAL LICENSE**  
  RECONCILING PAYMENTS ON DUBAINOW |
| **OBTAINING NOTARY SERVICES**  
  PROCESSING CRIMINAL AND CIVIL CASES  
  ISSUING WILLS |
| ** LICENSING MEDICAL INSTITUTIONS AND DOCTORS**  
  AVAILING E-PRESCRIPTIONS |
| **ENSURING FOOD SAFETY**  
  (CHAIN OF CUSTODY) |
| **ENROLLING AND MANAGING STUDENTS IN SCHOOL**  
  DEVELOPING SKILLS VIA SMART CITY UNIVERSITY |
DUBAI BLOCKCHAIN STRATEGY

Use Cases Timeline

1. MAR. - APR. 
IDENTIFY CITY EXPERIENCES
Analyze existing services and experiences to identify challenges and determine opportunity for Blockchain

2. APR. - OCT 
SCOPE BLOCKCHAIN USE CASES WITH GOVERNMENT ENTITIES
Provide technical expertise to scope use cases and provide business and action plans

3. OCT - DEC 
BUILD ENTITY PROOF OF CONCEPTS
Meet entities regularly to review Proof of Concept progress to provide support

4. 2018 +
LIVE CITY IMPLEMENTATION

- 21 GOV’T USE CASES
- 10+ PRIVATE USE CASES
BLOCKCHAIN USE CASES
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<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 5</td>
<td>Launched the Global Blockchain Challenge</td>
</tr>
<tr>
<td>Apr 21</td>
<td>Finalists Selected</td>
</tr>
<tr>
<td>May 30</td>
<td>Pitch Event with 21 Start Ups from Around the World</td>
</tr>
<tr>
<td>May 26</td>
<td>Consensys Launched Blockchain Academy</td>
</tr>
<tr>
<td>Oct 22</td>
<td>56 Blockchain Developers Graduated from Dubai</td>
</tr>
<tr>
<td>May 31</td>
<td>Launched the Accelerator operated by Startupbootcamp</td>
</tr>
<tr>
<td>Oct 25</td>
<td>Selected 10 Start Ups for Cycle 1 from 1000 Applications</td>
</tr>
<tr>
<td>Feb 28</td>
<td>Start-up Demo Day and end of cohort 1</td>
</tr>
<tr>
<td>Feb 12</td>
<td>Launched with 3 Blockchain Start Ups</td>
</tr>
<tr>
<td>Feb 12 – Apr 9</td>
<td>Start Ups Explore PoCs</td>
</tr>
<tr>
<td>Apr 10</td>
<td>MoUs Signed with Avanza and Consensys</td>
</tr>
</tbody>
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INTERNATIONAL LEADERSHIP

GLOBAL RECOGNITION

BLOCKCHAIN NETWORK

EVENTS

Nov 16  Barcelona Global “City Award” for Blockchain
Jan 5  Dubai Blockchain United Nations Case Study Published
Nov 11  Dubai Blockchain World Economic Forum Case Study
Nov 26  CNN Blockchain Episode
Jan 31  Blockchain Report with 1776

Jan 2018  Smart Dubai joins Hyperledger Alliance

May 15, 2016  World Blockchain Forum
Feb 5  Global Blockchain Challenge Launch
Mar 6  World Blockchain Forum
Mar 15  Announcement of Dubai Blockchain Partners
Apr 10  MoUs with Blockchain Companies at SDO Accelerator
May 30  Global Blockchain Challenge Event
Sep 25  Blockchain Middle East Forum
Oct 24  World Blockchain Summit
Jan 14  Unlock Blockchain Event
May 2  Future Blockchain Summit (DWTC)
Implementing a nascent technology like blockchain on a city scale is like building a car and driving it at the same time.

ALL EFFORTS NEED TO BE ALIGNED AND COORDINATED
WE ARE BRINGING GLOBAL AWARENESS TO THE FULL POTENTIAL OF BLOCKCHAIN
DUBAI: THE BLOCKCHAIN CAPITAL OF THE WORLD