

Session I

Opportunities and Challenges in
Deploying Blockchain Solutions Globally



Global Landscape- Governments Using Blockchain

- North America:
 - Canada
 - US: DARPA, FinCEN, NDAA, Naval Air System, Air Force, HHS, USPS, Homeland Security, FDA, IRS
 - Arizona, Delaware, Wyoming, Illinois, Vermont
- South America: Mexico, Argentina
- Africa: Ghana, Kenya, Liberia, Mauritius, Nigeria, Rwanda, Sierra Leona, South Africa, Tanzania, Uganda, Zambia
- Asia: China, South Korea, Singapore, Hong Kong, India, Malaysia, Thailand, UAE,
- Australia
- Europe



Opportunities Universal

- Advocacy
- Literacy
- Privacy
- Cost reduction
- Financial Inclusion
- Digital Economy
- Purpose
- Sustainability



Opportunities

Unique by region/country (I)

- Countries with more advanced blockchain strategy & legislation:
 - Promote larger scale adoption for relevant industries/use cases
 - Enhance Interoperability
 - Performance Optimization
 - Development of certifications and quality control mechanisms
 - Creation of blockchain centers of excellence
 - Promote blockchain research
 - Promote blockchain certifications



Opportunities

Unique by region/country(II)

- Countries with no blockchain strategy:
 - Legal & Policy Advocacy
 - Digital Identity
 - Dynamic Consent
 - Blockchain Literacy & Fluency
 - Blockchain Education & Training
 - Encourage Pilot Blockchain Deployments for specific industries



Challenges Universal

- Resistance to change
- Lack of education
- Confusion between blockchain technology & cryptocurrencies
- Cost & Prove ROI/ROA
- Customized Cyber-Security
- Legal
- Policy
- Privacy
- Taxation
- Lack of trained professionals



Lessons Learned

- Don't use the *word* “ blockchain”
- Strict proactive data governance prior to deployment
- Address the crypto-myth
- Focus on industries where ROI is higher
- Focus on solving a major pain point for each industry
- Prove ROI
- Develop & Track KPIs real-time



Elements of Success

- Start with Advocacy
- Leverage Science Institutes and Technoparks
- Strict Feasibility Analysis
- Thorough Process & Failure Mode Analysis before accepting projects
- Human capital (training & development)
- Conservative Financial Projections
- Realistic timelines
- Involve largest or most vehement opponents early in the process...



Healthcare Specific Opportunities & Challenges

- Building Collaborative Healthcare Ecosystems Powered by Blockchain
 - Digital Identity
 - Informed Consent
 - Healthcare Exchange
 - Interoperability



Regulatory, Policy & Legislative Recommendations

- Overall harmonization healthcare ecosystem
- Data ownership
- Accountability/Liability for smart contracting
- Healthcare specific standards/certifications
- Healthcare specific architecture/infrastructure

