

CONFIRMED PARTICIPANTS INCLUDE:



Namir Anani, President & CEO, **THE INFORMATION AND COMMUNICATIONS TECHNOLOGY COUNCIL (ICTC)**



Abhishek Sinha, Canada Partner, Technology Consulting, FSO Advisory, **ERNST & YOUNG LLP**

Mark MacDonald, Leader, Government & Public Sector (Ontario), Public Finance Management (Global), **ERNST & YOUNG LLP**

Dan Cooper, Senior Director, Enterprise Technology, **TREASURY BOARD SECRETARIAT**

Vidya Shankarnarayan, Director General, Innovation, **SCIENCE AND ECONOMIC DEVELOPMENT CANADA**

Ken McMillan, Product Line Manager, Digital Identity, **TREASURY BOARD OF CANADA**

Dr. David Wiljer, Executive Director, Education, Technology & Innovation, **UNIVERSITY HEALTH NETWORK**

John Shannon, Industrial Technology Advisor, **NATIONAL RESEARCH COUNCIL OF CANADA**

Warren Tomlin, Partner, **ERNST & YOUNG LLP**

Andrea Johnson, Partner, **DENTONS CAN LLP**

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December 3 - 4, 2019 • Ottawa, Ontario

Blockchain for the Public Sector

Leveraging Key Application Opportunities, Strategies and Approaches for Blockchain in Government and The Public Sector

Expert Advice and Guidance on all the Important Issues:

- Learn the process for developing a use case
- Hear how blockchain is being used to manage identity and create permanent records
- Understand the impact of blockchain on managing financial relationships and public budgets
- Understand how blockchain based solutions wring costs out of the system
- Use blockchain to provide verified evidence of incorporation, government-issued digital licences, permits, credentials and more
- Use blockchain for faster access to government services through a unified login authentication service
- Understand the rules of the Canadian Identity Trust Framework to identify, authenticate and authorize users to access resources across public and private organizations
- See blockchain as the future business model of supply chain
- Learn how blockchain can solve the HIPAA privacy and security issues
- Learn why blockchain is part of the overall cyber security solution
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Blockchain for the Public Sector

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DAY ONE PROGRAM AGENDA: TUESDAY, DECEMBER 3, 2019

8:00 – 9:00 Registration and Continental Breakfast

9:00 – 9:15

Welcome and Opening Remarks from the Chair

Mark MacDonald, Leader, Government & Public Sector (Ontario), Public Finance Management (Global), Ernst & Young LLP

9:15 – 9:45

The Internet of Value and the Continuum of Blockchain Uses: Blockchain In the Mainstream

Keynote Address: Mark MacDonald, Leader, Government & Public Sector (Ontario), Public Finance Management (Global), Ernst & Young LLP

- Continuum of blockchain uses - from least to most impactful
- Proof of identity
- Sharing of information
- Creation of permanent and immutable records
- Supply chain management
- Fundamental changes in managing financial relationships
- Comprehensive public budget management
- Unintended consequences and relevant safeguards

9:45 – 10:30

Application Opportunities, Strategic Approaches: Understanding and Exploiting the Value of Blockchain in Government – Treasury Board Secretariat

Dan Cooper, Senior Director, Enterprise Technology, Treasury Board Secretariat, Office of the Chief Information Officer, Office of the Chief Technology Officer

- What makes this technology different?
- Features of this very unique shared data base
- Sharing with trusted strangers and the trust transfer protocol
- How to use blockchain for interdepartmental sharing of information and the creation of smart contracts
- Where and how to use smart contracts pre-programmed for action for greater efficiency

10:30 – 10:45

Networking Break



10:45 – 11:30

Criteria for Deciding on Blockchain: Use Case Studies at Innovation, Science and Economic Development:

Vidya Shankarnarayan, Director General, Innovation, Science and Economic Development Canada

- Use case studies at Innovation, Science and Economic Development including the Intellectual Property Office
- Questions that require answers
- What problem are we trying to solve?
- What is the asset?
- Usage criteria and pre-conditions for deciding on blockchain
- Who is using blockchain and how are they using it?
- How blockchain can enhance transparency, accountability and ongoing disclosure
- Importance of the agreement to exchange information over a network

11:30 – 12:30

CASE STUDY

Sign In Canada - Faster Access to Government Services through a Unified Login Authentication Service

Ken McMillan, Product Line Manager, Digital Identity, Treasury Board Of Canada

- Providing users with a foundational digital credential sufficient to prove their identity so that they can interact with government departments
- How Sign In Canada will make it easier for people across Canada to log into the roughly 100 federal portals using a range of authentications for a variety of services
- Working toward allowing access to services to users in all provinces, territories and international organizations based on foundational identification

- Reducing the time and work involved in obtaining licenses and permits
- The Pan Canadian Identity Trust Framework - rules to identify, authenticate and authorize users to access resources across public and private organizations – where is the committee in its work?
- How user can revoke permission and withdraw from the network
- Cost savings and efficiency

12:30 – 1:30

Luncheon Break

1:30 – 2:15

2:15 – 2:30

Networking Break



2:30 – 3:30

University Health Network: Blockchain and Health Care: Benefits of a Single Shareable and Immutable Source of Truth

Dr. David Wiljer, Executive Director, Education, Technology & Innovation, University Health Network

- Need for a single repository of patient healthcare history
- Opportunities for transforming the role of the patient in the complex health care environment
- Electronic book-keeping through automation and reduction of administration costs by consolidating paper trails and business operations
- Allows for a simple longitudinal look at an individual's history, fortifying patient-centred health care
- Universality of policies and interoperability between parties
- Linking a long-fragmented system into a system that is immutable, digital and powerful
- Impact on fraudulent claims
- Benefits for research and development with a moratorium on silos of information
- Curbing drug abuse and double-filling of prescriptions
- Preventing theft of medical data
- Improving privacy and security of confidential patient information

3:30 – 4:30

CASE STUDY

Case Study at National Research Council of Canada: Proactive Disclosure and Permanent Records of Government Grants and Contributions

John Shannon, Industrial Technology Advisor, Industrial Research Assistance Programs (IRAP) National Research Council of Canada; Former Acting Director General, Digital Technology Research Centre, National Research Council Canada

National Research Council of Canada uses blockchain technology to post contribution agreements with clients under the Industrial Research Assistance Program (IRAP) at the National Research Council. Topics will include:

- The use case
- Posting executed, immutable grant and contribution agreements on blockchain
- Use of Ethereum blockchain
- Is execution on the blockchain possible?
- Payment of transaction fees?
- The blockchain browser
- Challenges in implementation
- Results and continued progress to date

4:30

End of Day One

Blockchain for the Public Sector

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DAY TWO PROGRAM AGENDA: WEDNESDAY, DECEMBER 4, 2019

8:00 – 9:00 Registration and Continental Breakfast

9:00 – 9:15

Welcome and Opening Remarks from the Chair

*Mark MacDonald, Leader, Government & Public Sector (Ontario),
Public Finance Management (Global), Ernst & Young LLP*

9:15 – 10:00

At the Intersection of Artificial Intelligence, Big Data and Blockchain: The Transformative Nature of Blockchain Technology

Keynote Address: Namir Anani, President & CEO, The Information and Communications Technology Council (ICTC)

- The growing demand for instantaneous and unfettered exchange of value anchored in speed and trust
- Use of blockchain in turning massive amounts of data and algorithms into monetary gain
- How blockchain is empowering a new era of service delivery for governments and the private sector using Artificial Intelligence, and Big Data
- Why blockchain is emerging as an economic enabler with a key role in the implementation of government services
- Broader impacts and opportunities for governments and businesses in a global context

10:00 – 10:45

Warren Tomlin, Partner, Ernst & Young LLP

10:45 – 11:00

Networking Break



11:00 – 12:00

Using Blockchain for Comprehensive Management of Public Budgets

Abhishek Sinha, Canada Partner, Technology Consulting, FSO Advisory, Ernst & Young LLP

12:00 – 1:00

Luncheon Break

1:00 – 2:00

Regulating More Effectively and Efficiently With Smart Contracts

Andrea Johnson, Partner, Dentons Can LLP

- Uses of blockchain in automating, verifying and time stamping completion of contractual steps
- Implications of integrating computer code in a contract to perform a set of instructions
- Strategies and impacts for the case where a smart contract must be changed due to a logic error or coding bug
- Impact on need for intermediaries, reducing costs, rendering transactions traceable, transparent and irreversible
- What about offer, acceptance, consideration and governing law?
- Complex jurisdictional issues

2:00 – 2:15

Networking Break



2:15 – 3:00

3:00 – 4:00

4:00

End of Conference

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LOCATION:

Blockchain for the Public Sector will be held at a convenient location in Ottawa, Ontario. Detailed venue information will be forthcoming as it becomes available.

YOUR REGISTRATION INCLUDES:

Registration fees include all course materials, continental breakfast, lunch, and refreshments. **Parking and accommodation are not included.**

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