December 3 - 4, 2019 • Ottawa, Ontario

Blockchain
in Government & the Public Sector

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

YOUR FACULTY

CONFIRMED PARTICIPANTS INCLUDE:

Mark MacDonald
Ernst & Young LLP

John Shannon
Industrial Research Assistance Programs (IRAP) National Research Council of Canada

Namir Anani
Information and Communications Technology Council (ICTC)

Usman M. Sheikh
Gowling WLG

Dan Cooper
Treasury Board Secretariat

... and more

INFONEX
Professional Development

Expert Advice and Guidance on all the Important Issues:

- Hear about use cases at Innovation, Science and Economic Development
- Use blockchain for faster access to government services
- Understand the "The Pan Canadian Identity Trust Framework"
- Learn how health care providers can benefit from a single shareable and immutable source of truth
- Hear how blockchain is empowering a new era of service delivery for governments using Artificial Intelligence, and Big Data
- Find out how the National Research Council of Canada is proactively disclosing permanent records of government grants and contributions
- Understand the impact of blockchain on managing financial relationships and public budgets
- See blockchain as the future business model of supply chain
- Create blockchain-enabled databases for intellectual property protection and strain validation in the cannabis industry
- Know what your audit committee should be asking
- Get governance of the blockchain right from the start!

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Blockchain in Government & the Public Sector

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DAY ONE PROGRAM AGENDA: TUESDAY, DECEMBER 3, 2019

08:00 - 09:00   Registration and Continental Breakfast

09:00 - 09:15

Welcome and Opening Remarks from the Chair

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

09:15 - 09:45

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

09:45 - 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

- What makes this technology different?
- Features of this very unique shared database
- 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   Break

DAY ONE PROGRAM AGENDA: TUESDAY, DECEMBER 3, 2019

10:45 - 11:30

Case Study

Use Case Studies at Innovation, Science and Economic Development

Pirthipal Singh, Senior Director, Innovation, Science and Economic Development Canada / Government of Canada

- Use case studies at Innovation, Science and Economic Development
- What problem are we trying to solve?
- How blockchain can enable trust in the digital economy?

11:30 - 12:30

Case Study

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 - 13:30   Luncheon

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13:30 - 14:15

Regulating More Effectively and Efficiently With Smart Contracts

Usman M. Sheikh, Partner, Gowling WLG

- Uses of blockchain and smart contracts in automating, verifying and time stamping completion of contractual steps
- Legal implications of integrating computer code in a contract to perform a set of instructions
- Strategies for when a smart contract must be changed due to a logic error or coding bug
- Benefits of smart contracts including less reliance on intermediaries, reducing costs, rendering transactions traceable, transparent and irreversible
- What about offer, acceptance, consideration and governing law?
- Complex jurisdictional issues

14:15 - 14:30   Break

14:30 - 15:30

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

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

- Opportunities for transforming the role of the patient in the complex health care environment
- Building trust through patient control and consent
- Medical records
- Asset usage
- How blockchain technology such as cryptocurrency, smart contracts, distributed databases, and public ledgers are, and will continue to transform the health sector
- Blockchain is the future business model of supply chain and can be applied to the entire healthcare value chain
- How blockchain can solve the HIPAA privacy and security issues

DAY ONE PROGRAM AGENDA: TUESDAY, DECEMBER 3, 2019

15:30 - 16:30
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

16:30   **End of Day One**

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09:00 - 09:15

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09:15 - 10:00

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

Keynote Address: Namir Anani, President & CEO, 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

Case Study

Case Study: Using Blockchain for Supply Chain Management

Warren Tomlin, Partner, Ernst & Young LLP

This important case study will demonstrate the value of blockchain in providing transparent, accurate end-to-end tracking in the supply chain

- DIgitizing physical assets and creating a decentralized immutable record of all transactions
- Tracking assets from production to delivery or use by end user
- Greater transparency
- Fraud reduction
- Reduction in communication or transfer data errors
- How blockchain enables an effective audit of supply chain data

10:45 - 11:00   Break

Blockchain in Government & the Public Sector

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11:00 - 12:00

Using Blockchain for Comprehensive Management of Public Budgets

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

Nowhere is the impact and value of blockchain better demonstrated than in the management of public budgets. Blockchain creates a reliable, transparent record of transactions with visibility across the network. The record is integrated with performance outcomes so the user can see how money spent impacts performance. This session will show you how blockchain:

- Allows tracking of financial output integrating data showing impact on performance
- Allows one government's procurement system to manage into another agency's budget system without being on the same global system
- Allows an original appropriation to be tokenized and tracked as it is transferred, subdivided and spent with integration of information on performance so users can see what was spent and what was achieved
- Allows tracking of procurement and spend management with each token being reconciled, consolidated and integrated for financial reporting as it moves through the system

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12:00 - 13:00　　　Luncheon

13:00 - 14:00

Case Study

Case Study: Blockchain-Secured Traceability for Medical Cannabis: Shoppers Drug Mart and TruTrace Technologies

Robert Galarza, CEO, TruTrace Technologies

- How the technology creates a central hub for identity management, asset tracking, validation, and product authentication
- Collection of plant testing data, performance of genomic verification in and registration in a blockchain-enabled database for intellectual property protection and strain validation
- Combining the power of big data with the security of blockchain to provide strain identification, registration and verification for cannabis at scale
- Modernized seed-to-sale tracking
- Standardizing cannabis treatment options

14:00 - 14:15　　　Break

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14:15 - 15:00

Governance of the Blockchain: What Should the Audit Committee Be Asking?

Lorraine Mastersmith, Partner, Gowling WLG's

- How much should the audit committee know about blockchain?
- Does management have a blockchain strategy?
- What are the risks that come with Blockchain?
- What internal controls does management have in place to ensure that every link along the chain is performing as expected?
- Does management have a well-established control environment and framework?
- Does management have clear guidelines on who can be added to the chain?
- What protocols will the organization employ?
- How will activity be monitored?
- How will information be added?
- Who has control and access?

15:00 - 16:00

The Government Regulator in a Blockchain World

Kevin Armstrong, Partner, Deloitte Digital, Canada

Laurent Féral-Pierssens, Leader, Blockchain & Digital Assets, Deloitte Digital, Canada

Louisa Bai, National Market Lead, Deloitte Canada

Blockchain technologies are touching all industries and around the world.   This means that government and regulators will see an impact as well from many sides.   This session will explore how government regulators should consider Blockchain from four different perspectives:

- How regulators can use Blockchain to deliver programs
- How regulators can harness Blockchain solutions being developed in their industries
- How regulators might need to regulate new Blockchain solutions
- How might regulatory programs be completely disrupted by Blockchain

The session will cover implications of each of the four perspectives including practical examples and case studies for each.

16:00   End of Day Two

Blockchain in Government & the Public Sector

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REGISTER BY PHONE, ON-LINE, OR IN THESE 3 EASY STEPS!

1 PRINT YOUR NAME AND CONTACT INFORMATION

Full Name _____ Title _____

Organization _____

Telephone (____)_____ Ext _____ Fax (____)_____

Email address _____

Name of Approving Manager _____ Title _____

Address _____

City _____ Province _____ Postal Code _____

Company's main line of business _____ Number of Employees _____

2 SELECT YOUR PREFERRED PAYMENT METHOD

Prices subject to GST / HST	Full Price	Register by November 29
Course for Groups of 3 +	$ 2,199 each	**$ 799 each**
Course for Groups of 2	$ 2,299 each	**$ 899 each**
Course for 1 Registrant	$ 2,399	**$ 999**

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off the regular
course fee

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330 Bay Street, Suite 1500
Toronto, ON M5H 2S8

LOCATION:

Blockchain in Government & 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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Contact our sponsorship department by telephone at 416.507.4202, or by email at sponsorship@infonex.com.

CANCELLATION POLICY:

Substitutions may be made at any time. If you are unable to attend, please make cancellations in writing and email to register@infonex.com or fax to 1.800.558.6520 **no later than December 3, 2019**. A credit voucher will be issued to you for the full amount, redeemable against any other INFONEX course and which is valid for twelve months (one year) from the date of issue.

Registrants who cancel after **December 3, 2019**, will not be eligible to receive any credits and are liable for the entire registration fee.

Confirmed registrants who do not cancel by **December 3, 2019** and fail to attend will be liable for the entire registration fee.

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