

# Recalibrating IT Strategies by Accelerating AI and Blockchain

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**BLOCKCHAIN SOLUTIONS WORLD**

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CONNECTED TRANSPORT

---

MANUFACTURING

---

HEALTHCARE

---

ENERGY AND UTILITIES

---

BUILDINGS & INFRASTRUCTURE

---

OPEN INDUSTRY

---

ENABLING IoT

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**Allan Mathison  
Turning**



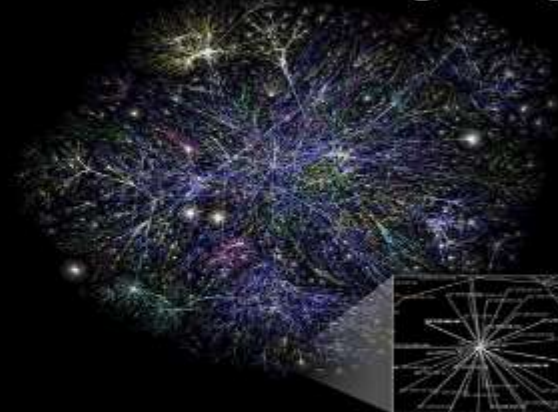
**Marvin Minsky  
Geoffrey Hinton**

2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017  
.05% .95%



<http://image-net.org>

## 4TH INDUSTRIAL REVOLUTION (4IR)

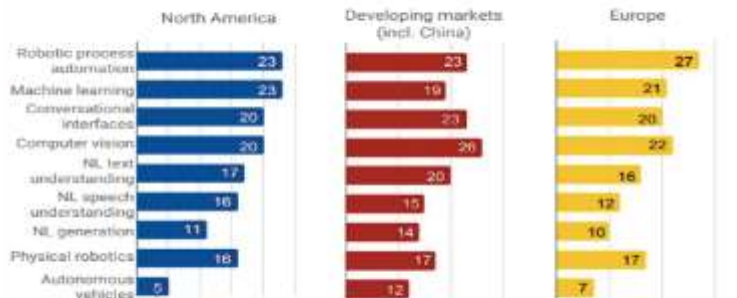


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php?title=11138544](https://commons.wikimedia.org/w/index.php?title=11138544) | Barrett Lyon



<http://aiindex.org/>

Capabilities embedded in at least one company function (2018)  
Source: McKinsey & Company



Note: The size of each bar is relative to Developing markets (incl. China); N = 71

**LDGR-CN** Coincatal Stoxx Blockchain Patents Innovation Index Fund

**20.7300** USD +0.0200 +0.10%

OPEN	PREV. CLOSE	WOL. LANE
20.7300	20.7100	108
GEOMARKETPLACE	DAY RANGE	52 WEEK RANGE
Global	20.7300-20.7300	17.9500-20.8100

# AI / DL INDEX



## Quantum Computing ETF Launches

September 05, 2018

Defiance ETFs launched today the *Defiance Quantum ETF (QTUM)*, a fund that invests in companies involved with quantum computing.

This pocket of technology is best defined as fast computers that solve complex problems by using principles of quantum mechanics, according to Defiance's founder and CEO Matt Bielski. It's a segment that's about computer speed, machine learning and fast data digestion.

QTUM, listed on the NYSE Arca, owns about 60 companies that are either helping develop quantum technology, or are involved with machine learning technology, or are in the business of artificial intelligence and big data management. The fund carries a 0.65%



## IT STRATEGY

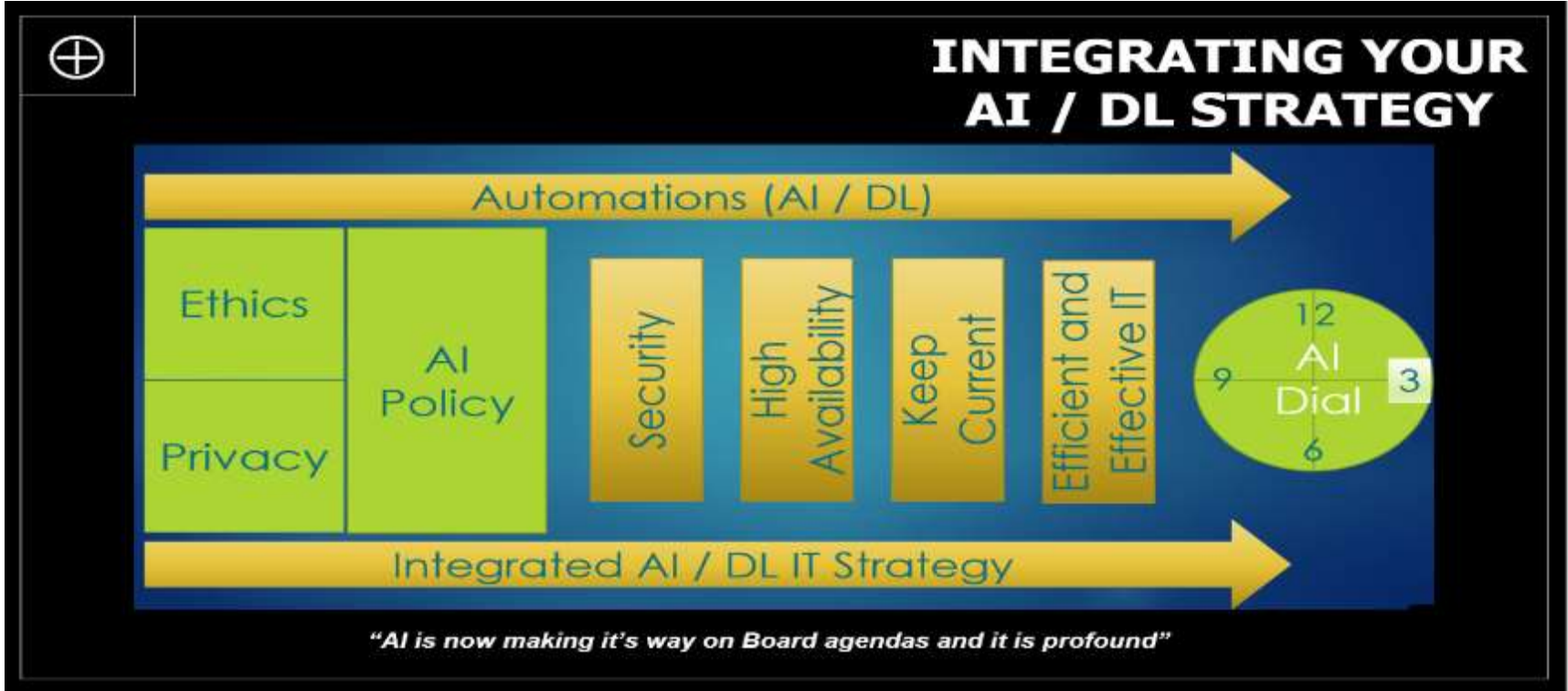
*“Enable LAO to respond to **priority Client needs** through a **responsive digital strategy**”*

**Ensure systems are:**

- **Secure**
- **Highly Available**
- **Kept Current**
- **Effective and Efficient**



*“it is the toughest questions that bring forward the most important perspectives, that will shape our future”*





# RECONSTRUCTING DIGITAL



Open Data

Smart Contracts

DAPPS

AI / ML

Quantum

Blockchain

Contact Center  
(Phone Channel)

Oracle Service Cloud – Multi-channel enablement  
Client Knowledge Supports | Client Policy Automation

PeopleSoft Client Portal

PeopleSoft CRM

PeopleSoft Supplier Portal

PeopleSoft Financials

Automations

Assistive  
Automated  
(Audited)

Measure IT Strategy Through LAO Client,  
Provider and Administration KPIs

***"A strong digital core allows you to access Open APIs to advance your AI and Blockchain Initiatives"***



# IDEATION CULTURE

HUMAN DESIGNED EXPERIENCES  
FOR HUMANS IN NEED, DESIGNING  
THROUGH THE CLIENT'S EYES  
INTEGRATING OUR EXPERTS  
ENSURING OUR DIGITAL  
CORE IS ALWAYS  
RESPONSIVE  
2019



SECURITY BY  
DESIGN

CLIENT CENTRIC  
DESIGNS

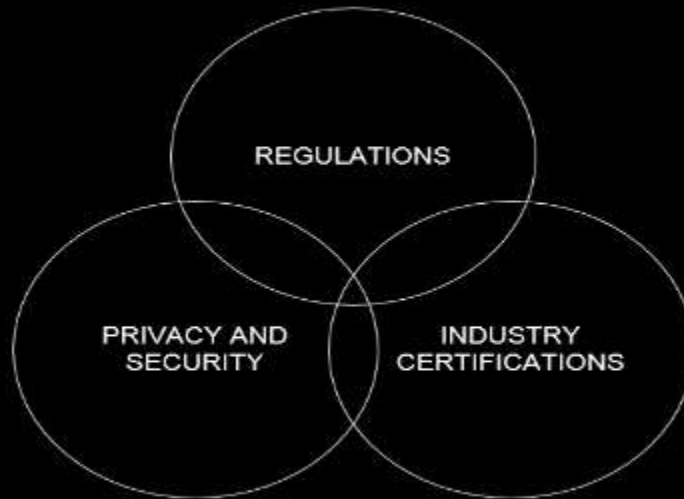
IMMUTABILITY &  
AUDITING

PRIVACY BY  
DESIGN

*"Automations deployed without proper due diligence may become adversary"*



# DUE DILLIGENCE



*"Until Industry standards and certifications mature for AI, risk tolerance remains low to nil"*



# AUTOMATIONS - TO DATE



*"The 10% automation that requires no human, is a major risk, without a blockchain transactional authority"*



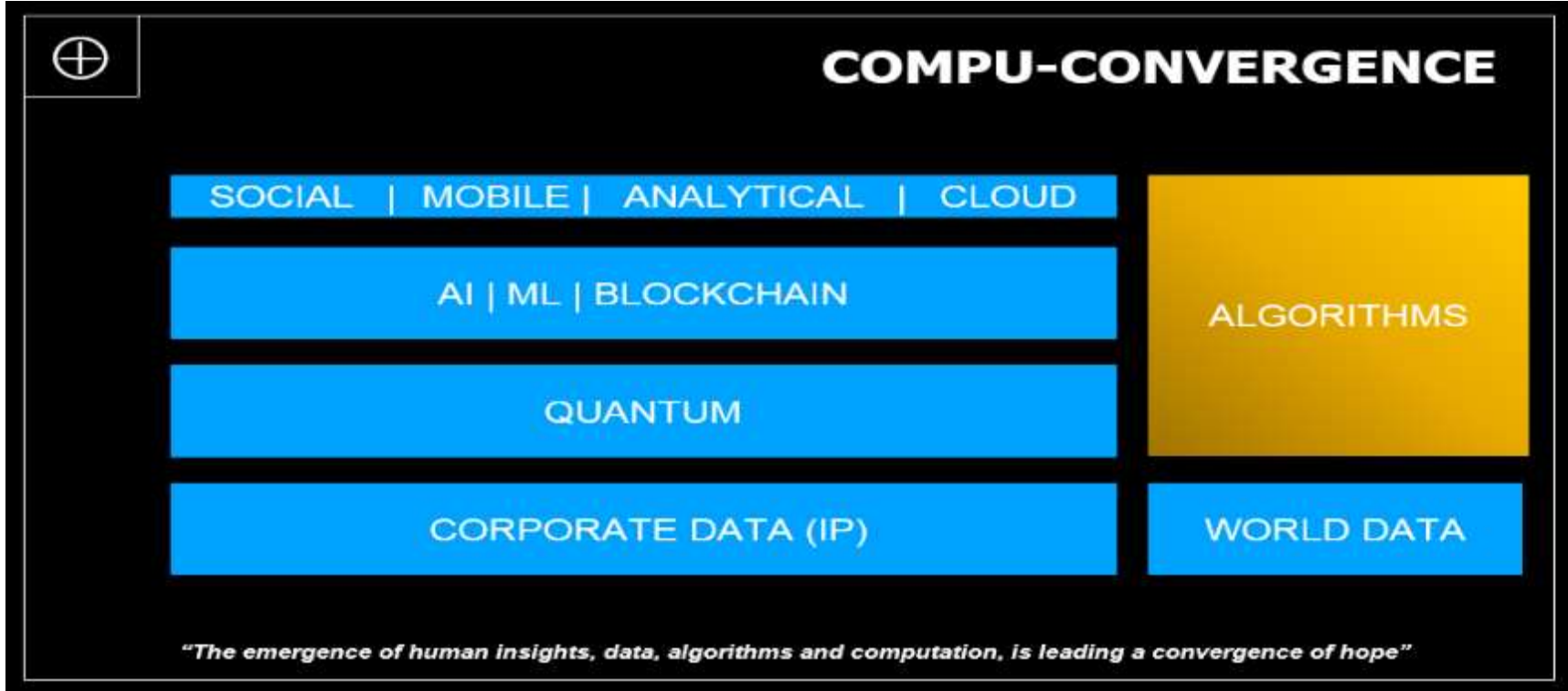
## AUTOMATIONS - NEXT

CUSTOMER | BUSINESS RULES | COMPLIANCE

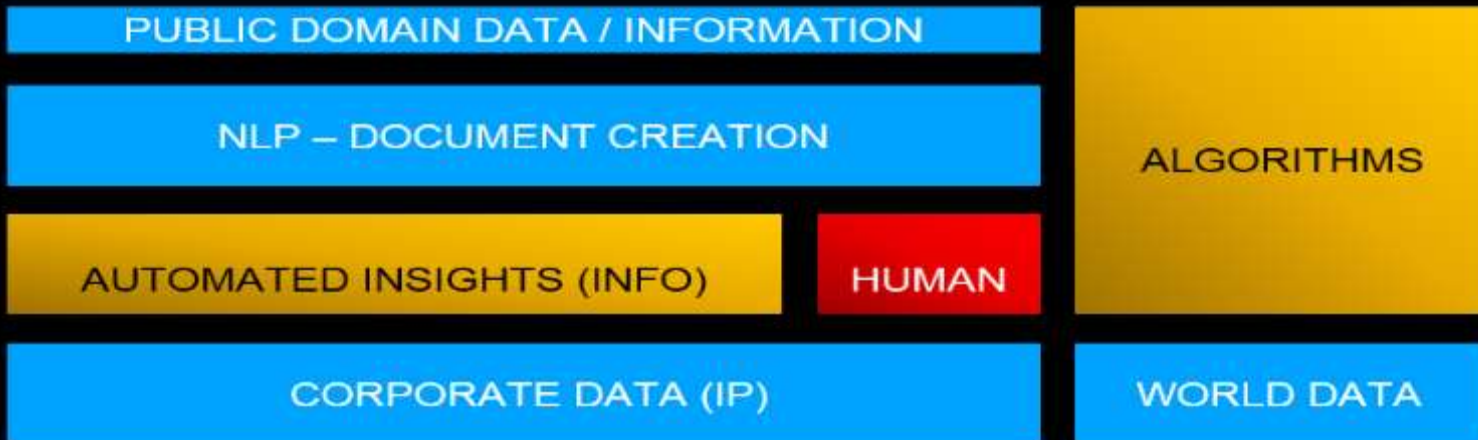
HUMAN MANAGE THE LOOP (POLICY/ RULES / AUDITS)

100% AUTOMATION (BLOCKCHAIN, AI NLP+ APIs)

*"blockchain enables transactional authority and immutability to AI models & transactions, humans set policy, rules and audit"*



## AI – OPERATING MODELS



*"SAAS AI is emerging as a disruptive force allowing organizations to introduce AI quickly"*



## AI – BUSINESS APP

DECISION SUPPORT DOCUMENT

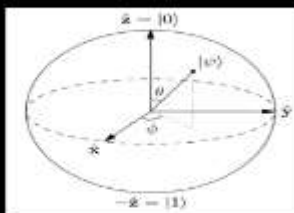
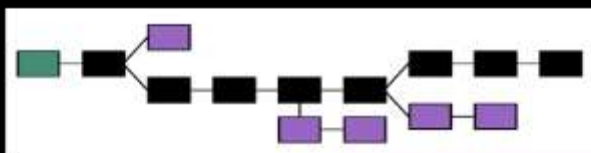
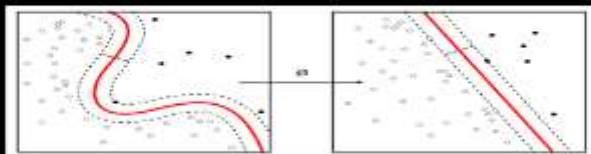
MARKET DATA

TRANSACTIONAL AUTHORITY AND AUDIT

*"AI platforms that include blockchain for security and audit of the transactions and algorithms will compete with ERPs"*



# DEVELOPING YOUR PROOFS – TECH IDEATION



**DIGITAL  
TWIN**



**CANADA'S DIGITAL  
TECHNOLOGY  
SUPERCLUSTER**

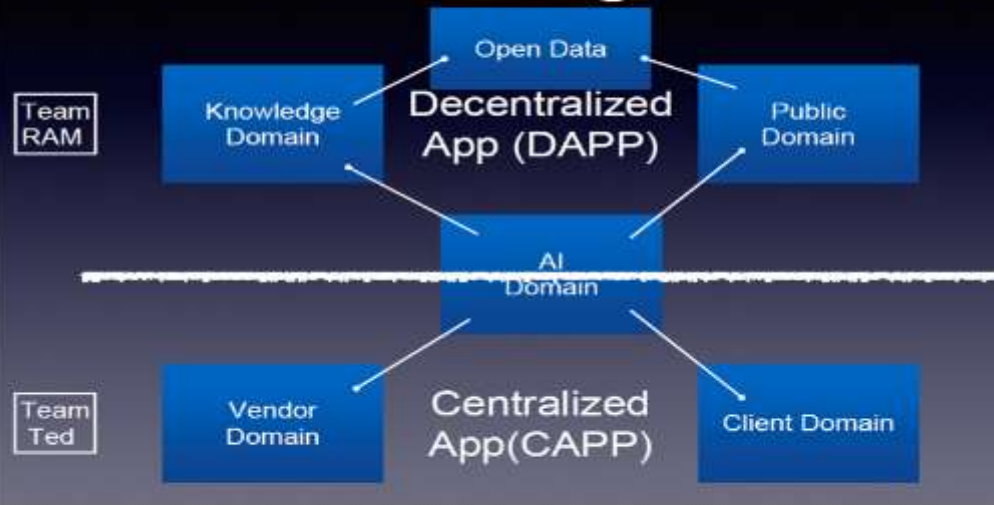
Innovation  
Funding  
Grants  
(Various Sources  
Being Explored)

*"In order to validate your proofs, you need to get outside of your corporate tent, you must create the connections"*

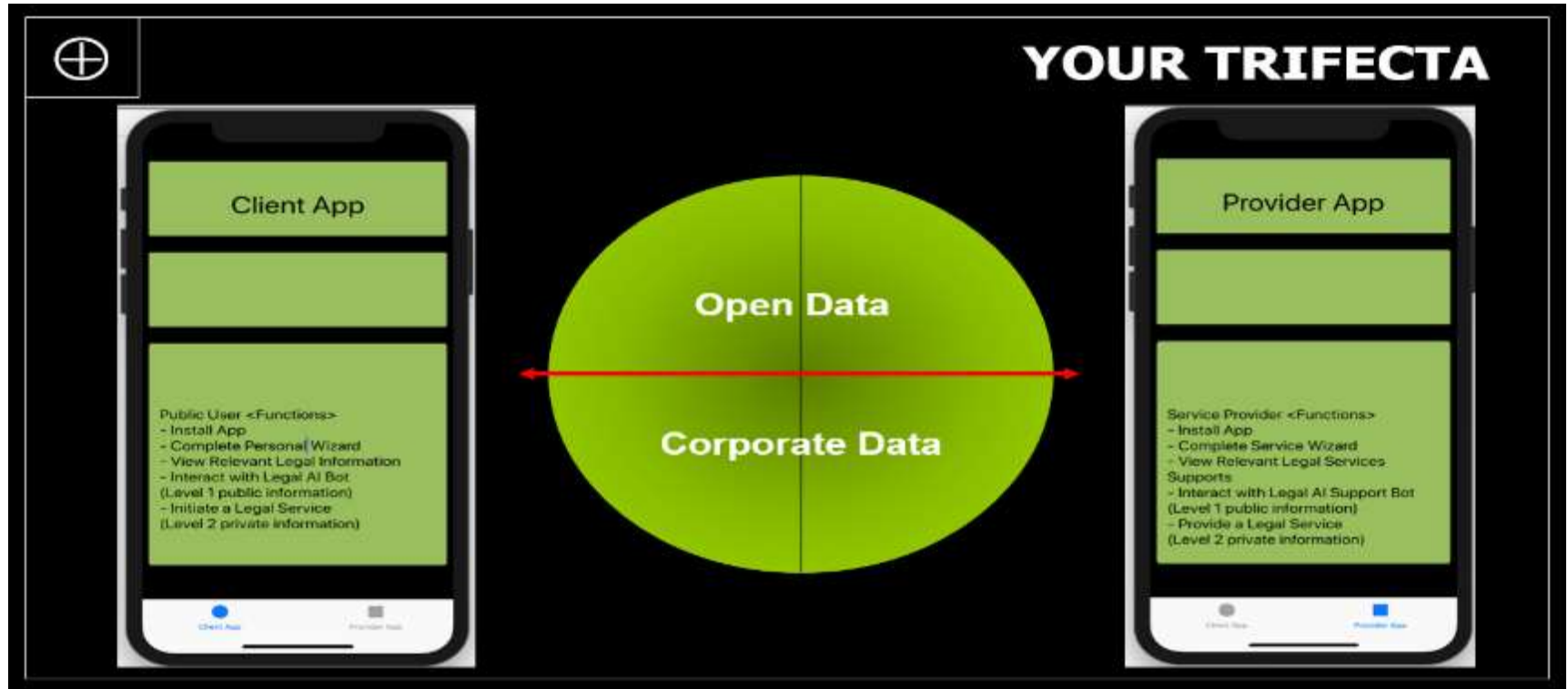




# Research Segmentation



*"Hire a student and explore uncharted business models and create orderly disruption"*





# Citizen Driven Digital Future

**Citizen (AI)**

**Mobile by default  
And Predictive**

**Expect simplicity,  
compatibility and  
responsiveness**

**Anytime  
Access**



**Blockchain / Truth & Trust**



**Provider (AI)**

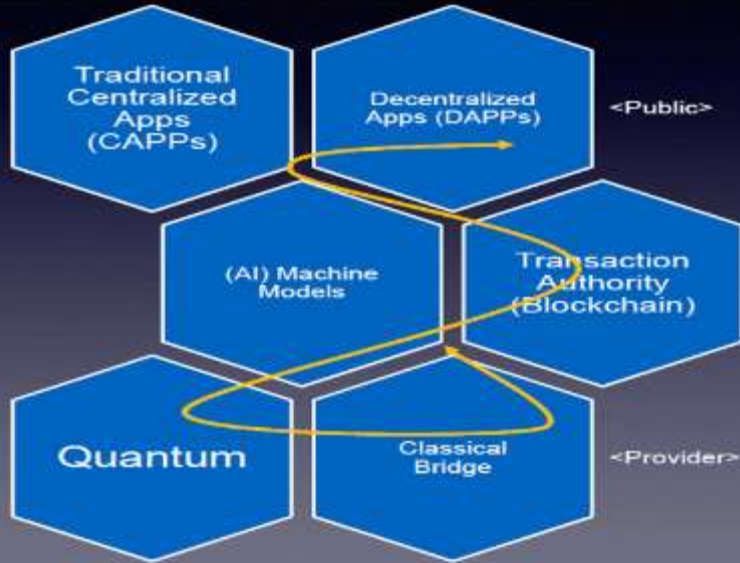
**Service channel  
agility  
by default**

**7x24 Responsive  
customer edge**

**Expertise to  
transform and  
measure  
is key to success**

**Platform Vision**

*"Responsive Client Supports  
Responsive Provider Supports  
Privacy, Transparency, Predictive  
And Immutability"*



- Public uses DAPP
- Integrations where applicable per Centralized apps
- ML/DL used to reconstitute key services data + Open Data
- Quantum used to generate insights that classic computing cannot
- Quantum data sets transverse into Classical Bridge and inform ML/DL model



**THANK-YOU**  
**KARL MARTINEAU (CIO)**  
**LEGAL AID ONTARIO**



# DIGITALIZING INDUSTRIES

COME JOIN US!



SAVE THE DATE  
**29 - 31 October 2019**



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**#IOTSWC19**



FOR MORE INFO VISIT  
[www.iotsworldcongress.com](http://www.iotsworldcongress.com)