## Lean in the Digital Transformation

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 Jean-Francois Cote, Director for Operational Excellence at Bell John Drogosz, LEI Coach for LPPD
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Want Better Employees? Be a Better Employer.



## Lean in the Digital Transformation Forum

Moderator: **Steve Bell** *LEI Senior Advisor, Digital Lean Enterprise* 

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### **1. Product and Service Capabilities**

The boundaries of products and services are becoming fuzzy, physical and digital products are blending:

- Appliance with Smartphone interface, use of analytics to anticipate problems, and help service and designers
- Automobile with internet connection and systems monitoring - update in the garage overnight
- ✓ Professional services customer interfaces that learn your preferences and anticipates how they can help you





E Forbes EY, Deloitte and PwC Embrace Artificial Intelligence for Tax and Accounting Value: New capabilities that often redefine what the product or service is/does

Value Stream: Entire organization focused on all aspects of the product and service (cyber-physical) in a holistic way

**Flow/Pull:** Enterprise can observe changing customer preferences and uses in real time and respond to them

**CI & Learning:** Products, services, value streams and customers learn together, based on realtime data, observations and iteractions; continuously adapt, innovate and improve

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#### 2. Development, Production/Delivery and Service Value Streams

View of three core value streams - Development, Delivery & Service in a new way:

- ✓ 3D/Additive prototyping and service parts at point of use
- Data driven instrumentation (IoT) enable real-time alerts (Andon), analysis, innovation and improvement
- Automation Bots, robots, cobots, robotic process automation; machine learning to aid people
- Aircraft messages inflight maintenance issue, parts waiting at airside









**Value:** Speed, quality, cost, agility, mass customization

**Value Stream:** End-to-end value stream visibility, metrics, and collaboration. Physical and Virtual product development integrate and synchronize. Omnichannel integration.

**Flow/Pull:** Update virtual product continuously, modify product capabilities to meet changing customer preferences.

**Cl & Learning:** Continuous stream of data and analytics available to value stream/product team, real-time learning, rapid capability to improve product design, production and service delivery

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Transformation

#### 3. Customer Experience Lifecycle

Every step in the customer journey: identify need, select solution, acquire, use, upgrade, replace, retire:

- Mobile Self Service autonomy
- Always available to help and gather learning/feedback
- ✓ Augmented reality engineer assist
- ✓ More knowledge in customers' hands
- Predictive means less downtime, more safety







Value: New capabilities that often redefine what the product or service is/does

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#### 4. Business and Operating Models

New ways of thinking about value:

- ✓ Blurring industry boundaries
- ✓ Platform enterprises:
  - Products as platforms

- Customer networks as platforms

 Derivative data as value (we must protect privacy to maintain trust!!)







**Value:** Extend customer view from the product to the entire usable lifecycle of the generation, and the knowledge value of the enterprise and its network

Value Stream: Need for skilled data and automation so these complex, emergent networks can function without management overhead.

**Flow/Pull:** Flow can look very different in complex networked value streams. Traditional Value Stream mapping, measurement and analysis evolving accordingly.

**Cl & Learning:** Need to adopt lightweight, flexible Lean management systems and practices to create agile, extended enterprise

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Transformation

Nashville | March 25-28, 2018

Summit 2018

Lean



## Network 3.0

Transformation @ Bell Canada Networks

Jean-François Côté

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3,700,000	
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John Drogosz, PhD Lean Product & Process Dev. Coach

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# Lean IT at Nationwide: Establish a culture of continuous improvement to deliver IT operational excellence and business value

Systems	Lean Production Systems	
<ul><li>Lean Leadership</li><li>Visual Controls</li><li>Daily Accountability</li></ul>	Lean Delivery Continuous Improvement Problem Solving Value Creation	<b>Empowering</b> our associates to reach their potential
<ul> <li>Leader Standard</li> <li>Work</li> </ul>	Agile	
Gemba Walks	Lean Software DevelopmentXPKanbanFaster Build CyclesScrumEmbrace Change	<b>Enabling</b> our teams to quickly build solutions based on real time customer feedback
of leadership with the	DevOps	
know how of our associates	Lean Engineering     Continuous Deployment       Automation     Continuous Deployment       Continuous Delivery     Feedback Loops	<b>Optimizing</b> the whole value stream of IT by applying lean to all processes from idea to prod
Common Elements	· · · · · · · · · · · · · · · · · · ·	
<ul> <li>Visual Management</li> <li>Problem Solving</li> <li>Empowerment</li> </ul>	Continuous Improvement     Continuous Improvement     Reflection     Respect for People     Cu:	a-Driven ue Stream Focus stomer Focus
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# Lean Digital Transformation

Bruno Guicardi Co-founder, President

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# What next?

- Participate in Gemba interview for LEI's Digital Lean Enterprise (DLE)
- Reach out to us for a conversation
- Read handout/download and share what you learn with others (slides and videos from this session coming shortly)
- We'll be sharing our DLE Gemba findings soon