Show Me the Money! Justifying Investments in IoT Technology

(When Traditional ROI Methods Let You Down)

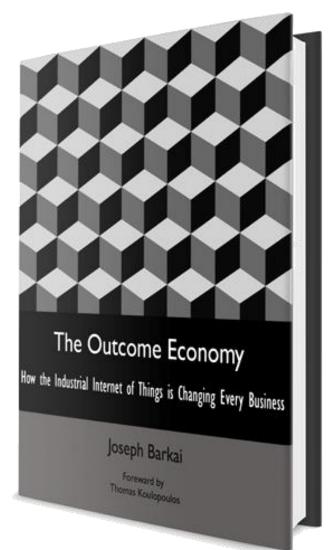




The Outcome Economy: How the Industrial Internet of Things is Transforming Every Business













"Bluetooth-enabled smart toaster controlled by a smartphone app to offer personalized settings for the perfect slice, every time."

Connected Toaster (available Q2 2017)
Connected Coffee Maker (available Q2 2017)
Connected Mirror (available late 2017)

\$99.99

\$99.99

\$999.99

Every time you describe a frivolous IoT application, a fairy dies!



- Connected...
- Watching over your milk
- ... And hackable



In Search of The Killer Application





The Outcome Economy

- Connected devices, enable ...
- New business and customer engagement models, drive ...
- User-defined outcomes

People do not want a quarter-inch drill bit; they want quarter-inch holes.

— Theodore Levitt

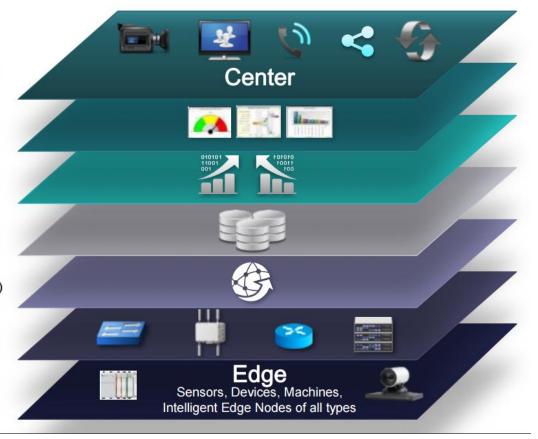




Value Realization

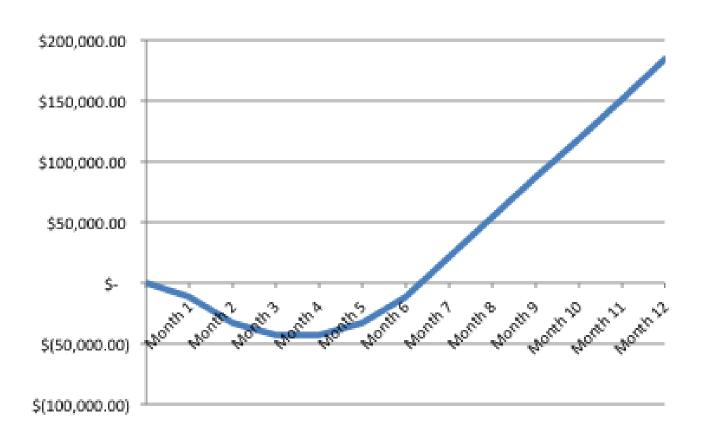
Levels

- 7 Collaboration & Processes
 (Involving People & Business Processes)
- Application
 (Reporting, Analytics, Control)
- Data Abstraction
 (Aggregation & Access)
- Data Accumulation (Storage)
- Edge Computing
 (Data Element Analysis & Transformation)
- Connectivity
 (Communication & Processing Units)
- Physical Devices & Controllers (The "Things" in IoT)



Assessing the Future Value a Technology Investment

Traditional Return on Investment Methods



To improve ROI:

- Lower R&D cost
- Accelerate time to market
- Improve profitability

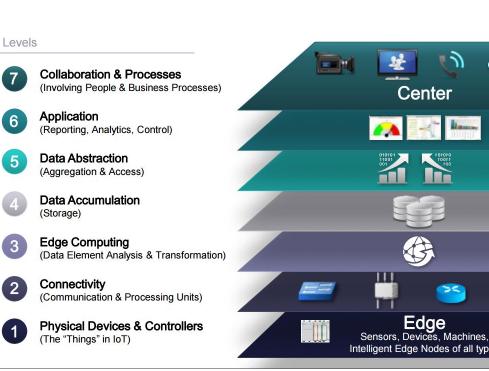
But It Isn't Easy...

Product Organization

- Design / redesign products
- Field retrofit
- Security and privacy
- ...

Solution Provider

- Stand up an IoT infrastructure
- New customer engagement model
- Analytics, biz process/BPM
- Ecosystem development
- ..



IoT is

- A platform, that enables....
- Future opportunities, of yet ...
- Unknown future value

Uncertainty and Volatility: Risk or Opportunity?



If you don't know where you are going, any road can take you there.

Cheshire Cat

Traditional ROI Methods Are Risk Averse

- A single "best guess" scenario
- Project goes to completion and must be paid off
- Uncertainties must be resolved at the outset
- Flexibility to redirect (or terminate) a project does not have future value

• Platform-type initiatives tend to be under-valued

Real Options

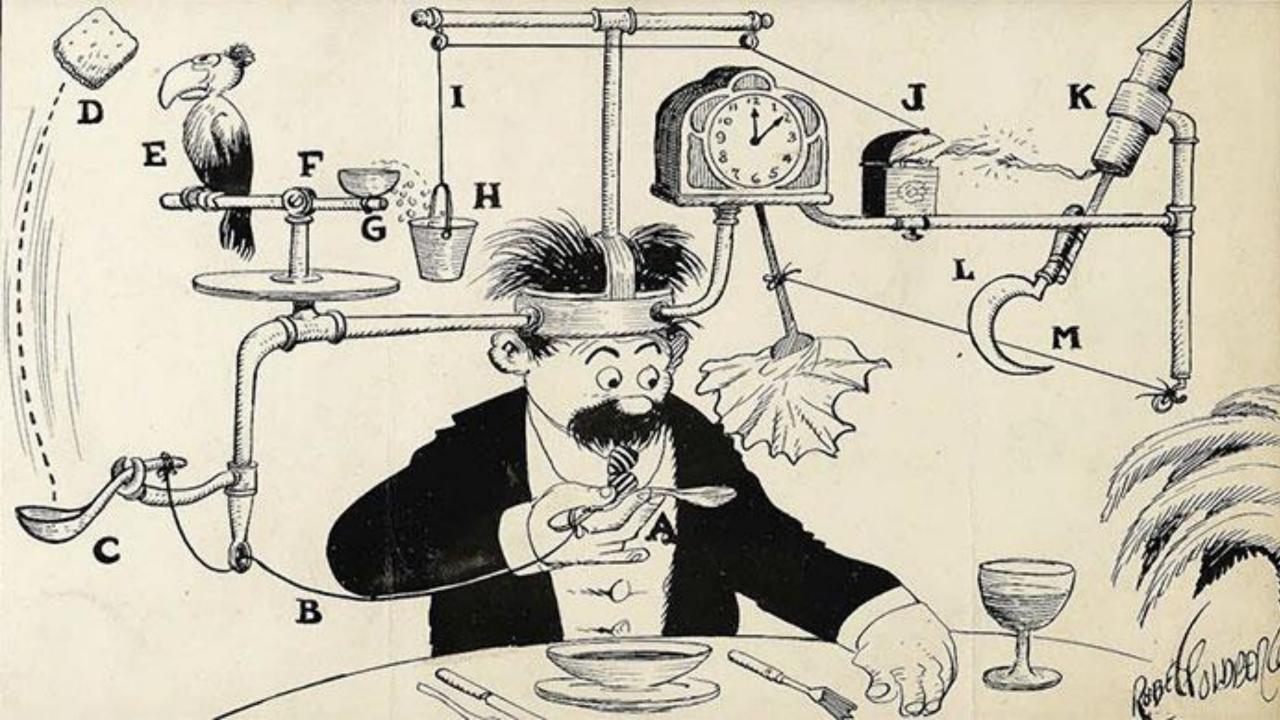
A real option is the right — but not the obligation — to undertake certain business initiatives, such as deferring, abandoning [or] expanding ... a capital investment project.

Source: Wikipedia









Real Options and IT Platform Adoption: Implications for Theory and Practice

Robert G. Fichman Boston College May, 2004

Embracing Uncertainty

- If all goes well continue to invest in new IoT solutions
- If there's a change adapt and build a new solution
- If things go poorly kill the project (but not the platform)

If you don't know where you are going, any road can take you there.

Cheshire Cat



Guidance

- Forget the forecasts about connected devices they are not reliable indicators of business potential
- Reimagine industry models
- Redesign business and operating models to support new productservice hybrids and customer engagement models
- Articulate the role of data to generate new insights from "things", enterprise systems, and humans to drive better, faster decisions
- Prepare for the future of work

Remember

- An IoT platform does not deliver a business outcome it only enables it
- IoT solutions require investment in new skills, develop an ecosystem, modernize customer engagement models, ...
- IoT is a strategic platform, not a technology project, and must be evaluated accordingly

Stay in Touch

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