

Commercializing Number 8 Innovation for Energy Management

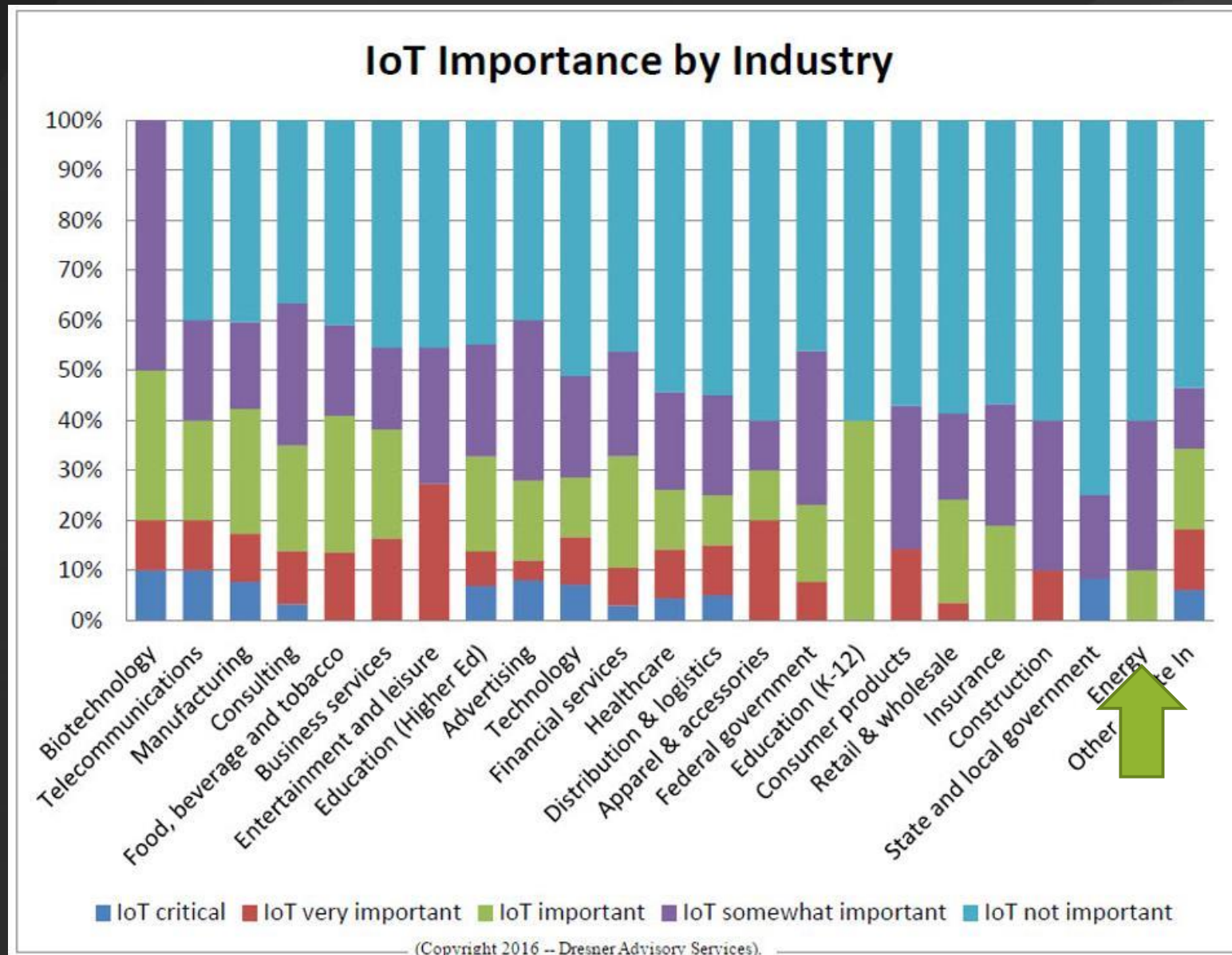
James Muir

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How important is the Internet of Things for the energy sector?

- A. Not important or somewhat important
- B. Important, very important or critical

Energy is lagging other sectors in Internet of Things



Next wave of tech is disrupting energy and its management

Blockchain			
Internet of Things			 
Cloud analytics			 
Machine Learning			
	Seed	Start Up	Growth

Our Inspiration

Rukuhia te wāhi ngaro
hei maunga tātai whetū

Explore the unknown,
Pursue excellence

Sir Paul Callaghan
(1947–2012)



Our Purpose

To grow New Zealand's economy by helping businesses succeed through technology





Rocket Lab



Innovative companies absorb a diet of desperation & inspiration

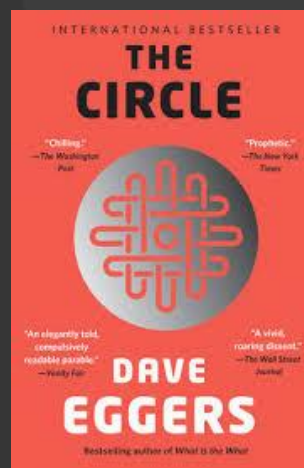
McKinsey: 45% of work activities people do in US could be automated with current tech



Fast adopter competitors

Sector reviews

Vanishing intermediaries



Technology cost curves



Smart Grid USA mission



Distributed Generation and Storage*

Networked Vehicles

Grid Optimization and Distribution Automation/Comms.

Demand Response

Meter Data Management (MDM)

Communication Layer (H/W, S/W, Control)

Power Layer Infrastructure

Security

IOActive

REVERE

SECURITY

Utility Systems Development/ Integration and Consulting

IBM

SAP

ORACLE

ABB

accenture

Capgemini

Battelle

KEMA

BRIDGE

ENERNOC

BLACK & VEATCH

ENERNOC

ENERNOC

ENERNOC

PETRA SOLAR

A123 SYSTEMS

[e]nphase ENERGY

Satcon

Beacon POWER

Balance Energy

SPARQ

Powerd

Direct Grid

SMA

Note: Scope of chart does not include grid storage and renewable energy vendors, but focuses on the integration for these technologies with the smart grid

Y

Schneider Electric

better place

GRIDPOINT

ALV

Coulomb Technologies

ecotality

ABB

SEL

Power Tagging

TELVENT

COOPER Power Systems

ECHELON

RUGGEDCOM

Sixnet

SIEMENS

SAC ELECTRIC COMPANY

CISCO

GE

AREVA

Schneider Electric

current

tollgrade

GridSense

comverge

Honeywell

cpower

ABB

viridityenergy

SureGrid

WorldEnergy

ENERNOC

GRIDPOINT

Ventyx

ENERNOC

ENERNOC

ENERNOC

ENERNOC

ENERNOC

ENERNOC

ENERNOC

ENERNOC

ENERNOC

Smart Meter Manufacturers (AMI)

comverge

Honeywell

cpower

ABB

viridityenergy

SureGrid

WorldEnergy

ENERNOC

GRIDPOINT

Ventyx

ENERNOC

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T-Mobile

Sprint

at&t

Smart/Synch

CISCO

verizon

clearw're

ARCADIAN

TROPOS

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Tantulus

current

ARCADIAN

Trilliant

Trilliant

GRIDNET

FAN/NAN (AMI)

SILVERSPRING

CISCO

Itron

GRIDNET

ambient

COOPER Power Systems

Smart/Synch

GRIDNET

GRIDNET

GRIDNET

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GREENLET

exegin

ecobee

green made easy

LS RESEARCH

GREENLET

ecobee

green made easy

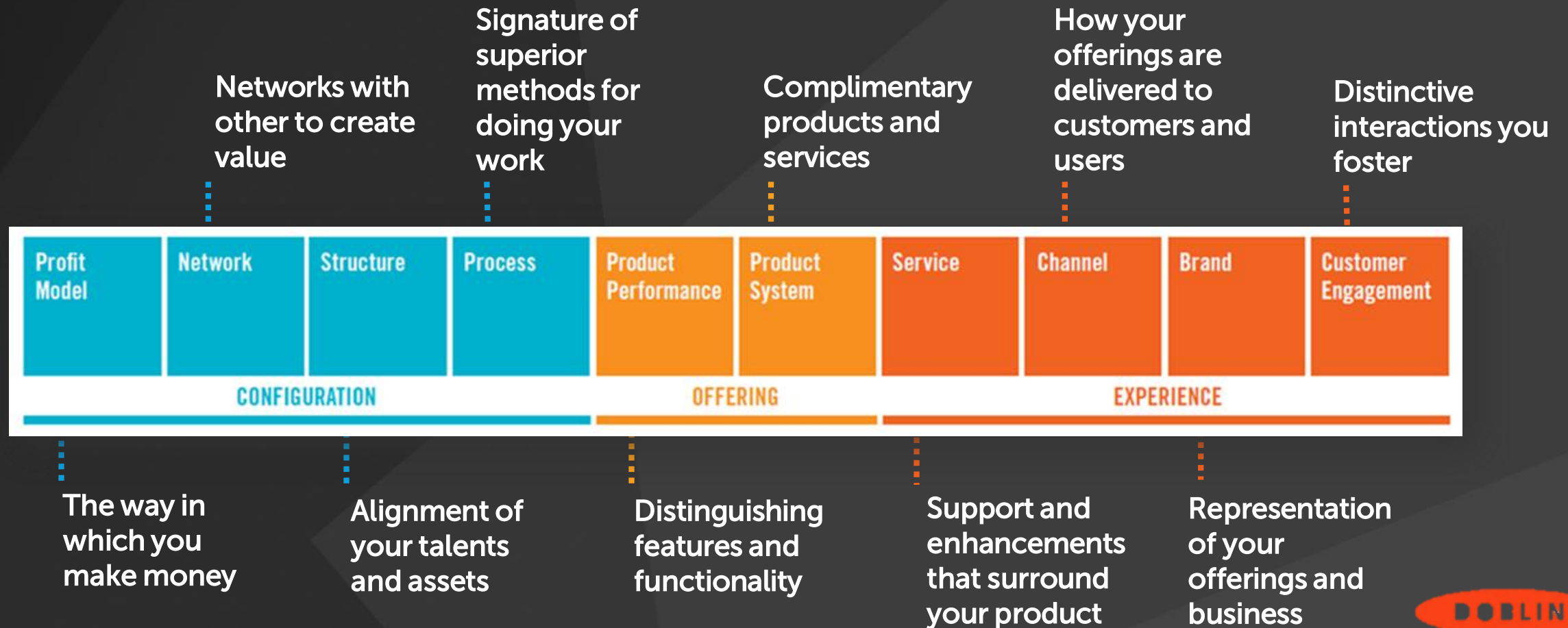
green made easy

Network Gateway

Smart Meter



... and know it's more than product performance





They also execute

Innovation Challenge and Lightning Lab Electric are bringing great business ideas for products and services to life



Innovation Challenge winners: emhLabs



Lightning Lab Electric sponsors



Sarah Hindle @_sarahhindle · May 10

Talk tech all u like but it's only useful if it delivers personalisation, relevance, efficiency #datacomtechweek #twnz17 #ai @TechFuturesLab



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