Gartner Program & Portfolio Management Summit Summit 2018

06 - 07 June 2018 / London, UK



Keynote: Become a Leader and Not a Casualty in the Digital Age

Mike J. Walker

Opening Video (Script on Next Slide)



Disrupt or...

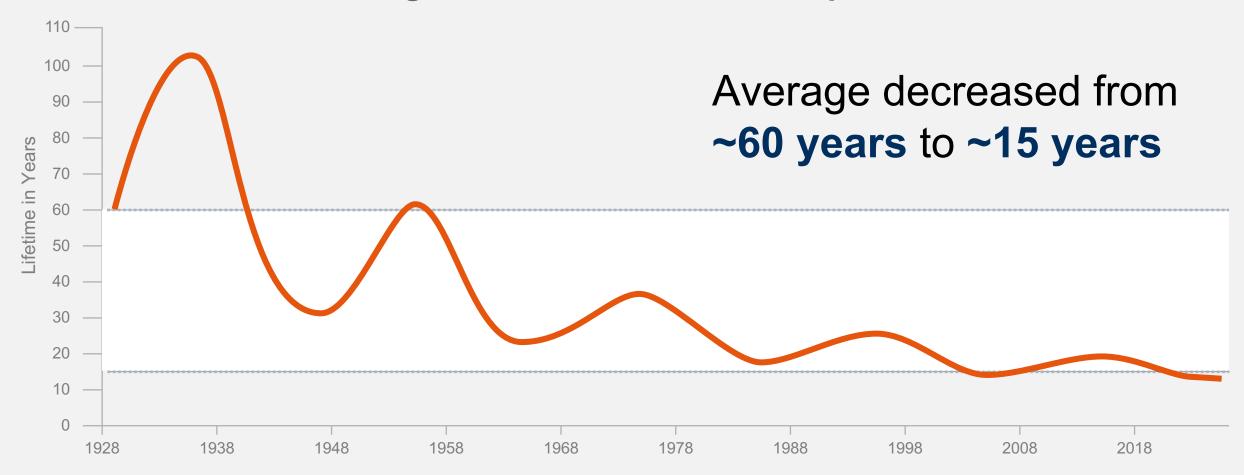


Next Decade Introduces New Business Landscape



Corporate Vitality Is Plummeting

Average Lifetime of S&P 500 Companies





Digital Age Success Is Skyrocketing

20-Year Net Returns

U.S. Venture Capital (Early Stage Index)

51.9

SAP 500 Index

7.9



Techtronic Shifts

Stores	Specialized & Integrated		
Music	Streamed Everywhere		
TV	Smart & Interactive		
Hotels	Robotic Helpers & Cooks		
Transportation	Self-Driving Shared Economy		
Movies	Virtual Reality		



Top 10 Companies With Having the Greatest Market Capitalization

Apple Inc.

▲868,880

Alphabet Inc.

▲727,040

Microsoft

▲659,910

Amazon.com

▲563,540

Facebook

▲512,760

Tencent

▲493,340

Berkshire Hathaway

▲489,490

Alibaba Group

▲440,712

Johnson & Johnson

▲375,360

JPMorgan Chase

▲371,050



Top 10 Companies With Having the Greatest Market Capitalization: 2007

Rank	Name	Headquarters	Primary industry	Market value (USD million)
^ 1	Petrochina	China	Oil and gas	▲ 723,952
▼ 2	Exxon Mobil	United States	Oil and gas	▼511,887
V 3	General Electric	United States	Conglomerate	▼374,637
V 4	China Mobile	Hong Kong	Telecommunications	▲ 354,120
▼5	Industrial and Commercial Bank of China	China	Banking	▲ 338,989
▼ 6	Microsoft	United States	Software industry	333,054
- 7	Gazprom	Russia	Oil and gas	A 329,591
▼ 8	Royal Dutch Shell	The Netherlands	Oil and gas	▲ 269,544
V 9	AT&T	United States	Telecommunications	V 252,051
1 0	Sinopec	China	Oil and gas	2 49,645



Will You?

Roll the Dice With the Status Quo

Take the Leap With the Status Quo







3

Top Emerging Technology MEGA TRENDS



Emerging Technologies

Transformative Impact

1 to 10 Years Viable



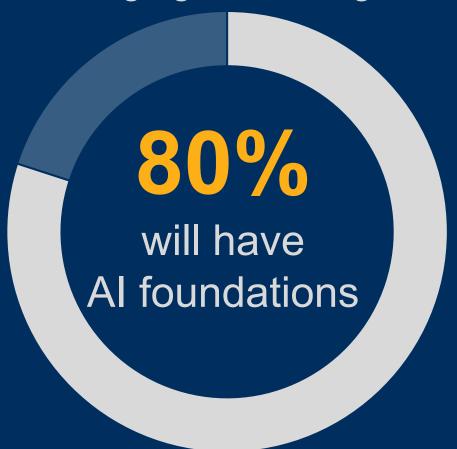


Artificial Intelligence Everywhere



By 2020

Emerging Technologies



Organizations

50%

will lack sufficient Al and data literacy skills to achieve business value



Machine Learning





Technologies of Al Everywhere



Deep Learning



Deep Reinforcement Learning



Artificial General Intelligence



Enterprise Taxonomy & Ontology Management



Cognitive Computing



Smart Dust



Virtual **Assistants**



Conversational UI



Smart Workspace



Conversational **User Interfaces**



Machine Learning



Autonomous Vehicles



Smart Robots



Commercial **UAVs** (Drones)





Transparently Immersive Experiences



By 2020



The market for head-mounted display devices will exceed

35M devices and generate

\$75B in revenue



The Context Switch

Humans Learn and Adapt to Technology

Technology Learns and Adapts to Humans





Nanodrops Correcting Human Vision







Getting Physical With Exoskeletons







Augmented and Mixed Reality Making Its Debut





Technologies of Transparently Immersive Experiences



4D **Printing**



Augmented Reality



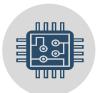
Connected Home



Brain-Computer Interface



Human Augmentation



Nanotube **Electronics**



Virtual Reality



Volumetric **Displays**



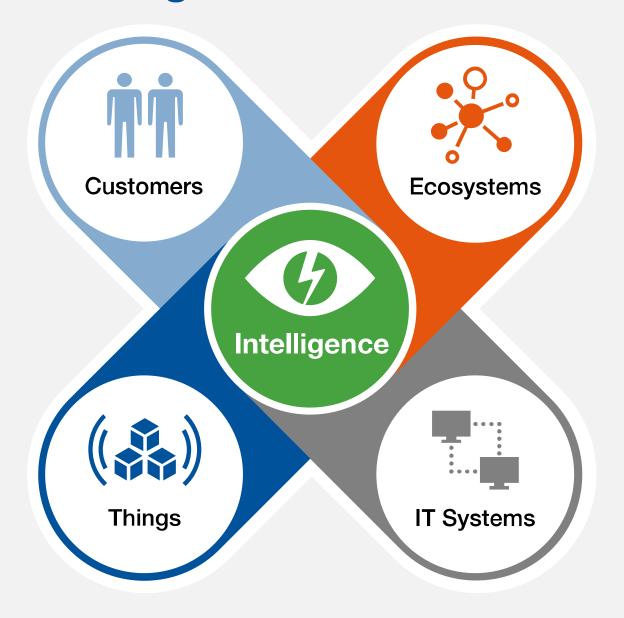


3

Digital Platforms



It All Starts With the Digital Business Platform





By 2022



The Internet of Things (IoT) will save consumers and businesses

\$1 Trillion/Year

in maintenance, services and consumables.



Mixed Reality Making Its Debut





Technologies of Digital Platforms



5G



Digital Twin



Edge Computing



Blockchain



IoT **Platform**



Neuromorphic Hardware



Quantum Computing



Serverless PaaS



Software-Defined Security





Artificial Intelligence Everywhere



By 2030

of today's intensive PPM work 800 will be eliminated by Human and Al/smart machine partnerships in 2030



PPM Action Item:

Be **bold enough** to test the advantages of re-thinking PPM.

Data Lakes

Robotic Process **Automation**

Conversational AI

Machine-Based Learning





Transparently Immersive Experiences



By 2021

30%

of large enterprises will evaluate and adopt virtual reality immersive solutions as part of their digital transformation strategy.



PPM Action Item:

Provide immersive experiences at every opportunity to drive quality, engagement, and more-predictable and higher levels of customer satisfaction.

Training & Education

Collaboration

Stakeholder Engagement & Experience





3

Digital Platforms



PPM & Digital Platform Value:

The **metrics** used to determine the success of digital platform-based programs will focus on the platform's ability to **enable value exchanges** between the providers and the consumers.



PPM Action Item:

Build a metrics framework using leading indicators of future platform value and effectiveness.

Liquidity Matching **Trust**





Gartner Recommended Research

- ► Hype Cycle for Emerging Technologies, 2017
 Mike J. Walker (G00314560)
- ► How Leading Enterprise Architects Prepare Business Leaders for Business Transformation Through Ideation Workshops

 Derek Miers and Mike J. Walker (G00345229)
- ► Toolkit: An Enterprise Architect's Guide to Ideation Mike J. Walker (G00326184)
- Maximize Digital Business Value Creation Through Al Algorithms Mike J. Walker (G00344426)



Gartner Recommended Research

- ► Top 10 Strategic Technology Trends for 2018: Al Foundation Mike J. Walker, Whit Andrews and David W. Cearley (G00345512)
- ► <u>Top 10 Strategic Technology Trends for 2018: Intelligent Things</u> Mike J. Walker, Whit Andrews and David W. Cearley (G00345514)
- ► Top 10 Strategic Technology Trends for 2018: Intelligent Apps and Analytics
 - Mike J. Walker, Whit Andrews and David W. Cearley (G00345513)

