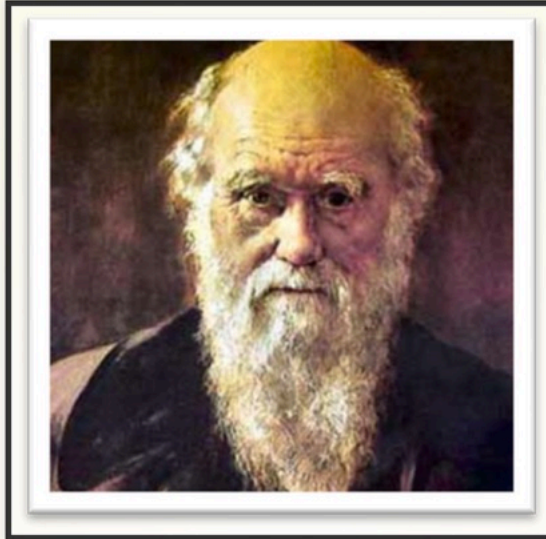


'NEXUS OF FORCES'

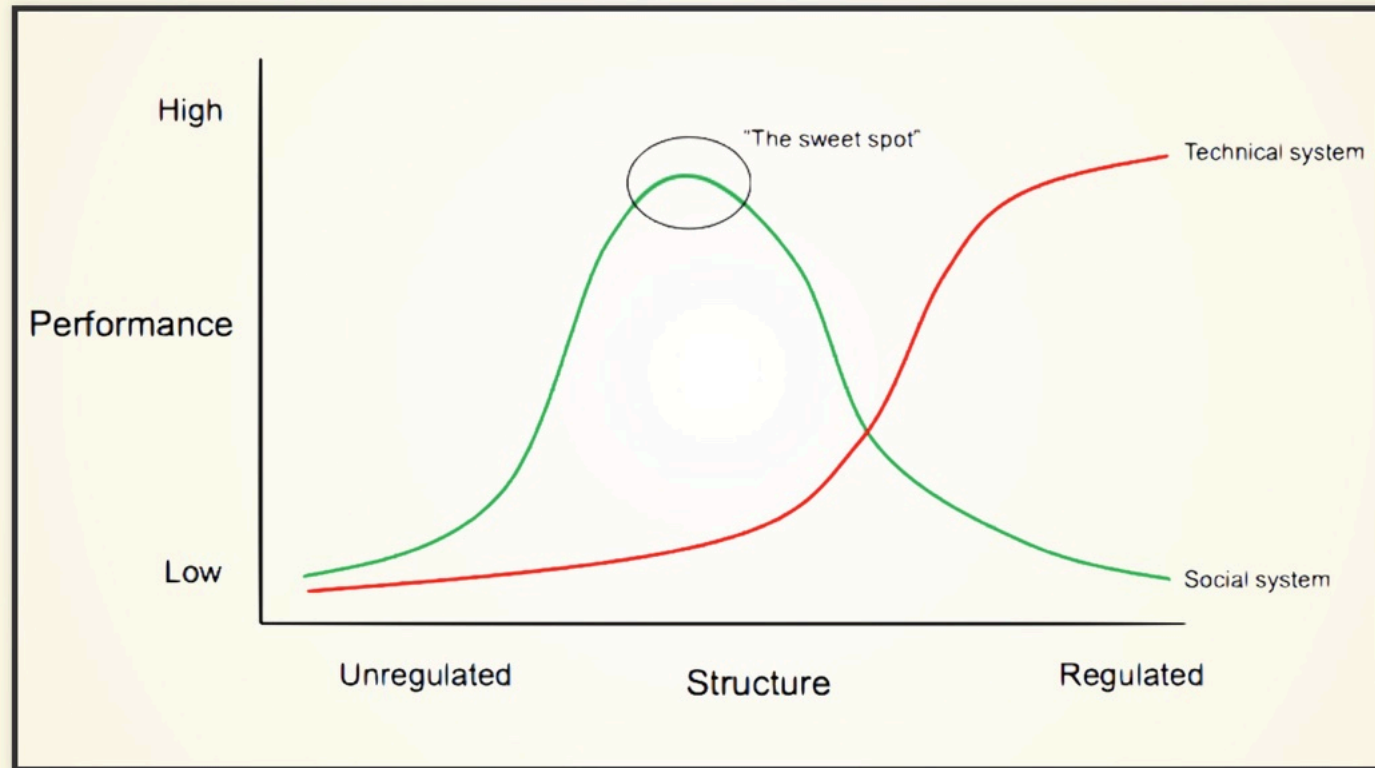
Heads up!



“It is not the strongest of the species that survive, nor the most intelligent. It is the one that is most adaptable to change”

- Charles Darwin, 19th century

THE ART OF SURFING THE EDGE OF CHAOS



Source: Kathleen M. Eisenhardt, Stanford University

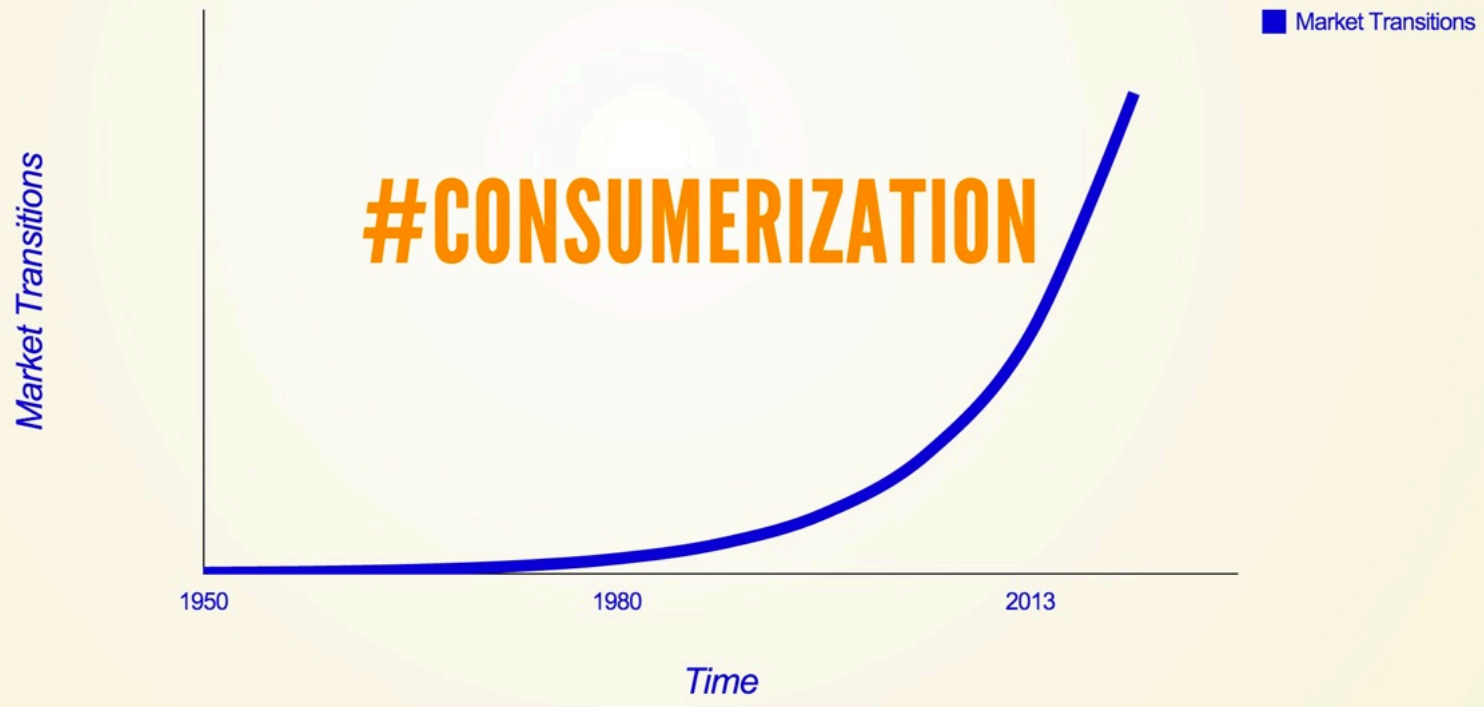
(Equilibrium == Death)



EDGE OF CHAOS

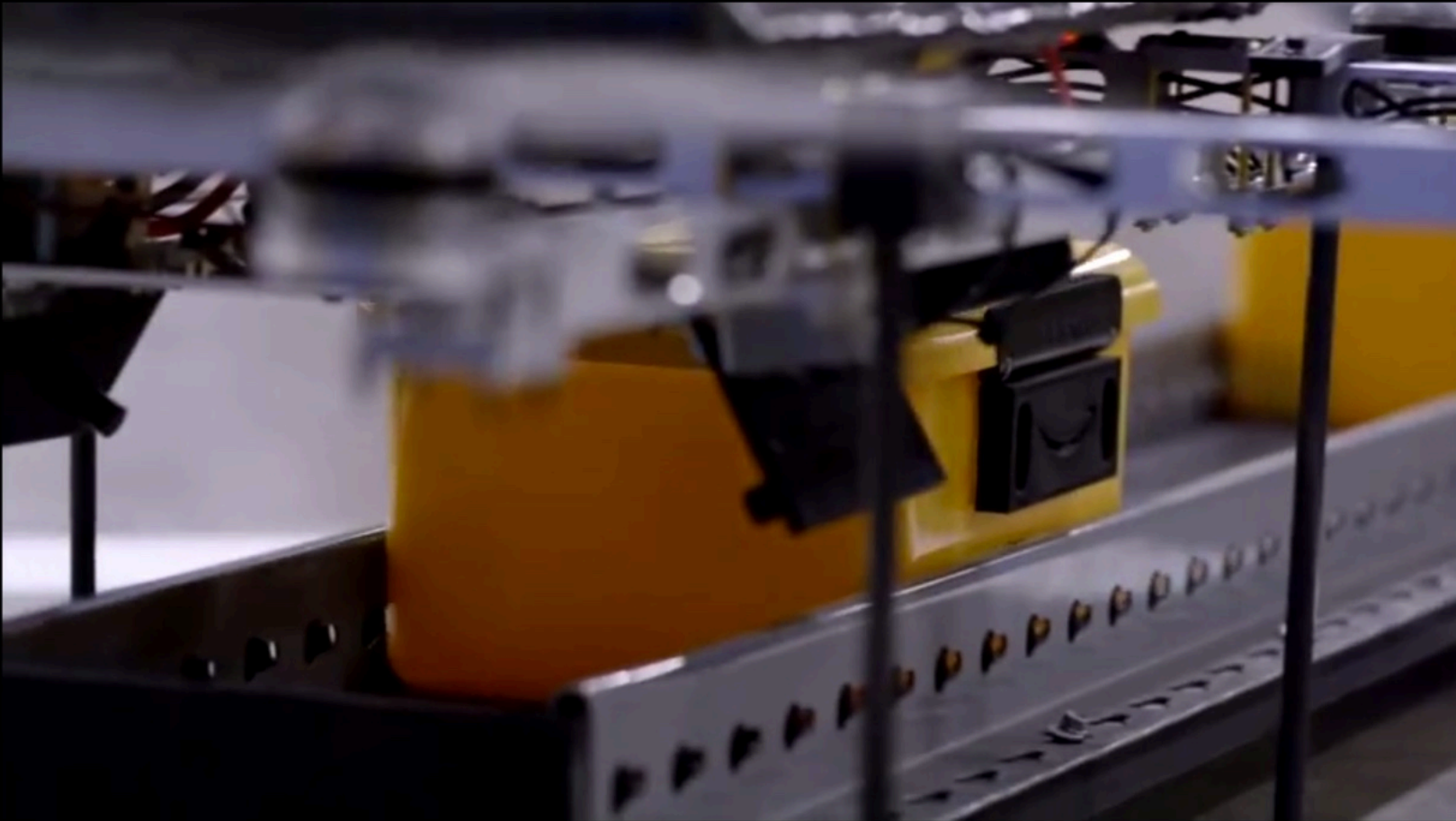
DISRUPTIVE CHANGE

Mean time between surprises (MTBS)



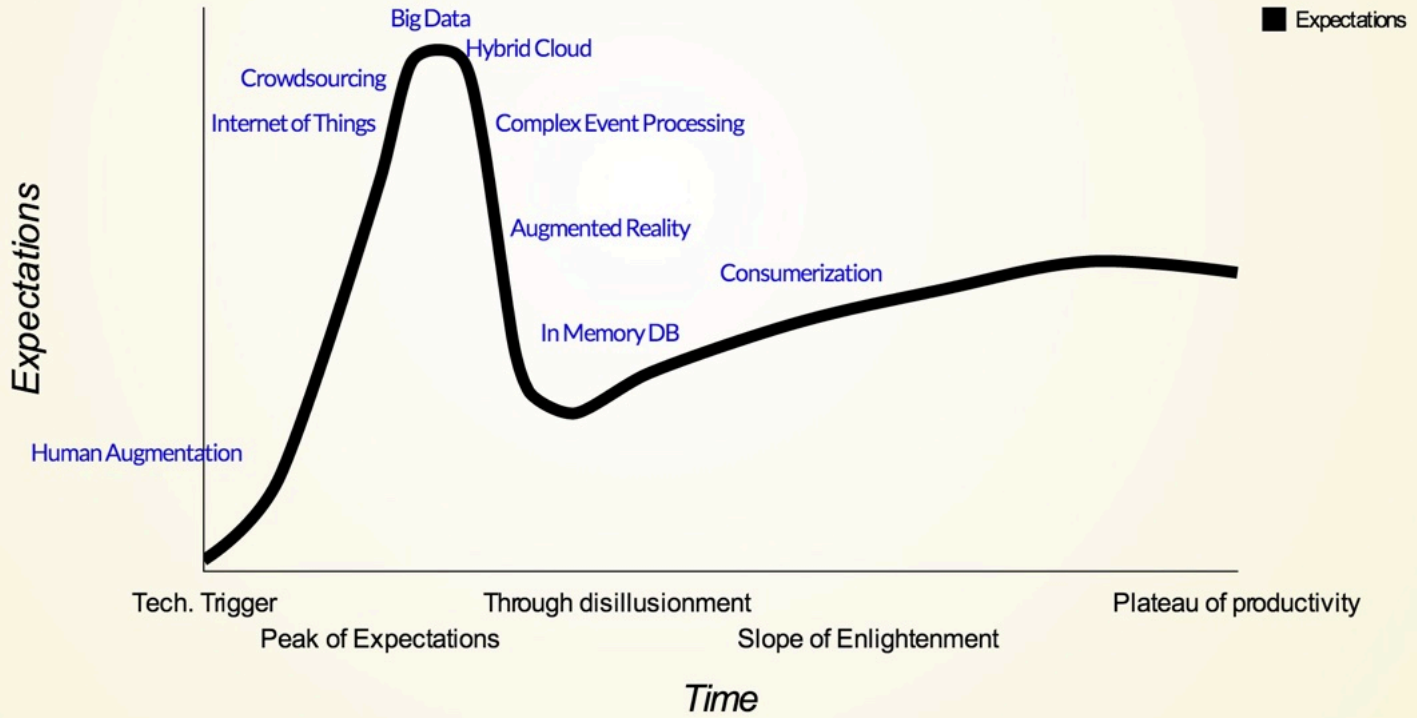


SNOOP DOGG AND TUPAC, LIVE 2012



AMAZON PRIME AIR

CANONICAL HYPE CURVE



Source: Gartner, Inc

INTERNET OF THINGS

Google Glass



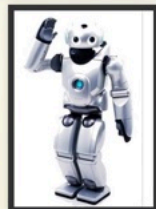
Google Car



Pebble Watch

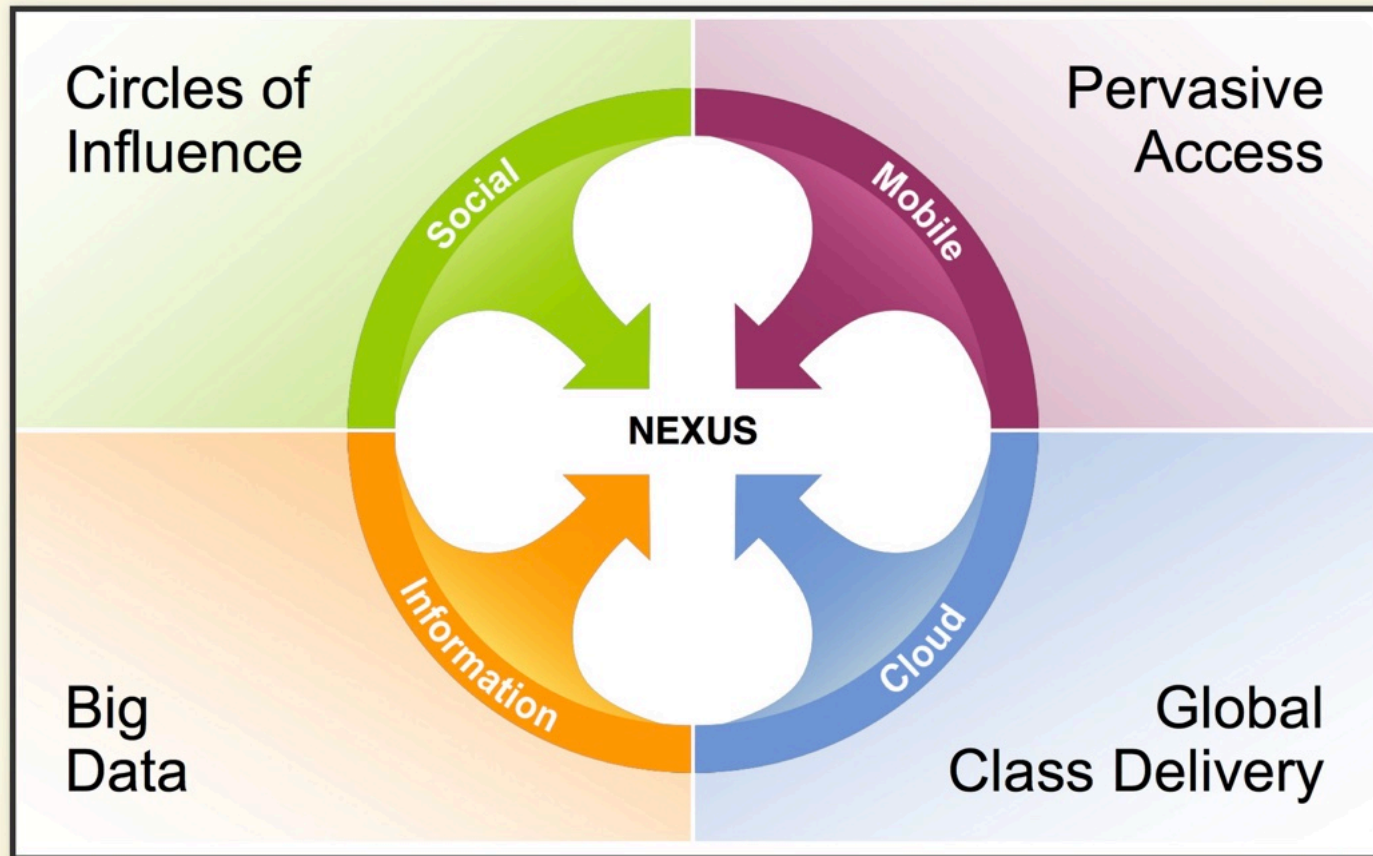


Amazon Prime Air



'NEXUS OF FORCES'

Imperative for all Enterprise Architectures



Pervasive Access

FIRST!

Mobile

MOBILE FIRST!

- Mobile is the application platform
- Time to forget the monolithic 3 tier application architecture
 - Applications must deal with several kinds of devices and data sources
 - Applications must integrate with public cloud services as well as private enterprise services
- Contemporary applications are reactive
 - Responsive, event-driven, resilient, scalable
 - Embrace emerging technology

The Reactive Manifesto - <http://www.reactivemanifesto.org>

Circles of Influence

ENGAGEMENT!

Social

SOCIAL ENGAGES PEOPLE!

- Consumer driven ecosystem of modern computing
- We are consumers at work and not just enterprise "users"
- Social links people to their work and each other in new and unexpected ways

CONTEXT!

**Big
Data**

Information

BIG DATA CREATES CONTEXT!

“Big data” are high-volume, high-velocity and high-variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making.”

Source: The Importance of 'Big Data': A Definition, Mark Beyer, Douglas Laney

-
- What's going on?
 - What should I do?

BIG DATA - ARCHITECTURE

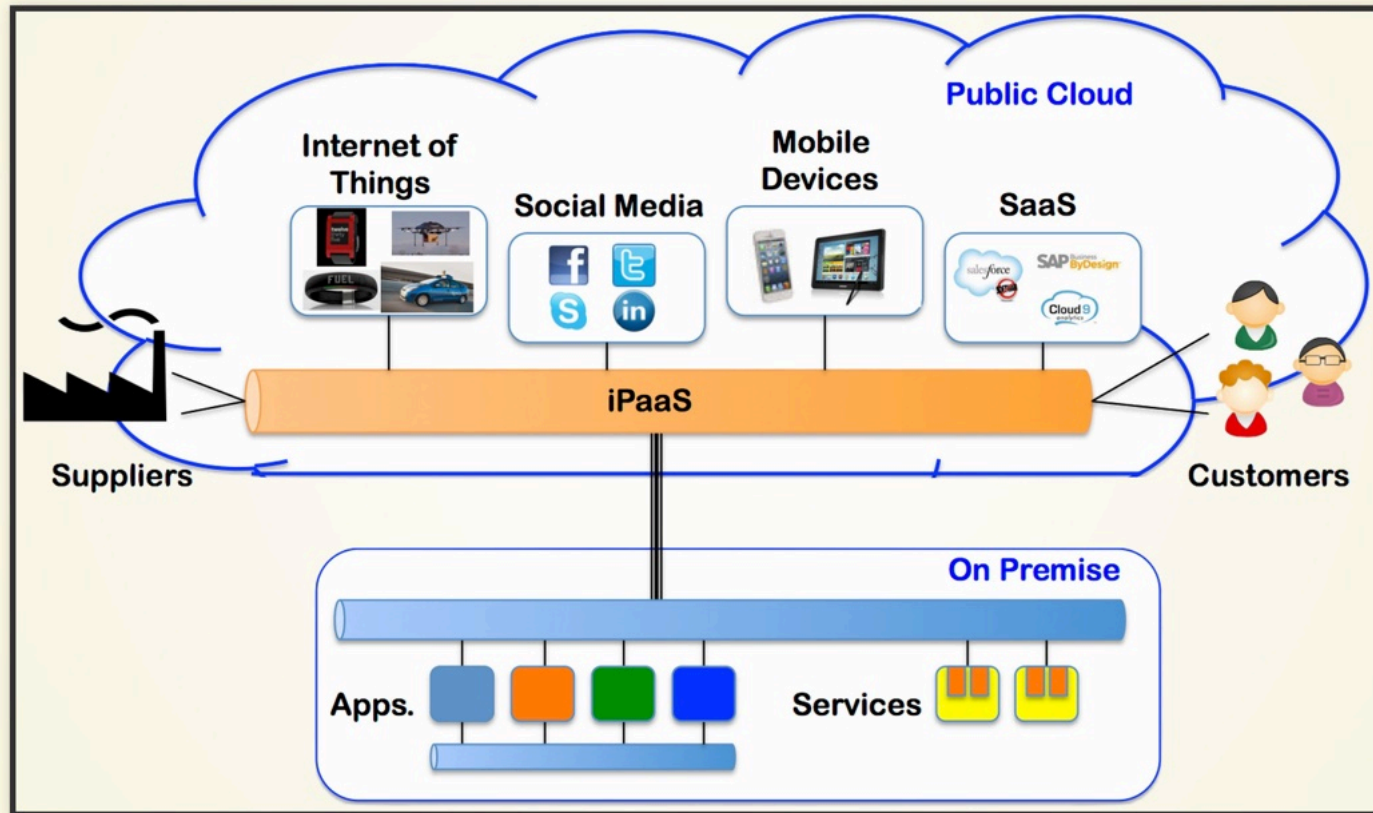
- Use High performance data movement infrastructure when appropriate
 - More than 10.000 persistent messages per second or 20MB of data per second and instance
 - Latency < 0.1 μ s in-memory, < 10 μ s in-cluster, < 50 μ s in-lan
 - Parallel and in-memory computing to manage high volumes
 - Event driven asynchronous patterns to manage high velocity data streams
- Stateless applications supporting parallelization and cloud deployment
- Multiple data models, large scale data federation

Cloud

ENABLE!

Global Class Delivery

CLOUD ENABLES!



API Exposure & Economy

REQUIRED PLATFORM FEATURES

- Business Process Management Suite
 - Business Rules Management Suite
 - Complex Event Processing
 - Active Analysis
 - Data Integration Tooling
-
- Enterprise Service Bus
 - In-memory Data Grids



LEAD OR FOLLOW ...OR GET OUT OF THE WAY!

STUDY ALL OPPORTUNITIES THROUGH THE NEXUS LENS



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