



# *Information Technology*

## *Version 2014-2016*

**STKI Summit 2014**

**Dr Jimmy Schwarzkopf**

STKI "IT Knowledge Integrators"

[jimmy@stki.info](mailto:jimmy@stki.info)

Inviting you to my office

and to my library.....



Since 1992

22th ~~META Group~~ STKI Summit

# Thank you to the great STKI team



# Thank you to all these companies (expo outside)



*Thank you to all of you  
for “being here”*



**over 1500 registered**

# What are you getting:

# stkIndex

Hardware -

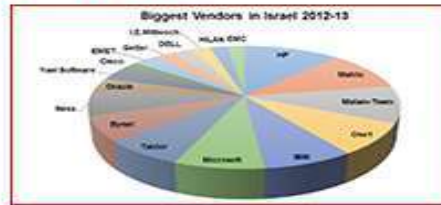
Software -

Value Added Services



1

## IT Tiering



2

» Read More

## Product Positioning



3

» Read More

## Trends



4

» Read More

## Round Tables



Round tables constitute a discussion between about ten – fifteenth organizational users that deal with similar issues. The target of the meeting is to enable an open discussion and an exchange of ideas in the specific round table topic and to also establish best practices, lessons and tips from this meeting to share with other user organizations who are STKI clients.

» Read More

5

## Newsletter



STKI Newsletter is a quarterly update on new products and services in the market. Each quarter STKI provides an informative update on these new offerings. The newsletter includes a short overview on new solutions, divided into categories, and combines a relevant analyst's insight and analysis. This service enables our customers to stay informed and up-to-date with the ever increasing market changes and new offerings.

» Read More

6

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*So what has happened here today (till now...)*



First day in the  
“new” position: Mrs. Israela Israeli

# So what has happened here today (till now...)

Second Presentation today

CIO (VPtech) takes a "seat" on the management table

Line of Business

utility pricing

Innovation

VP Tech

IT must deliver innovation

While delivering mainstream IT

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First Presentation today

CIO (VPtech) looks Inside her "kingdom"

Software House

Database Expertise

Microsoft Technology

are ned structure

es



# So what has happened here today (till now...)



CIO (VPtech) takes a "seat" on the management table

Second Presentation today

IT must deliver innovation

While delivering mainstream IT

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# So what has happened here today (till now...)



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## CIO steps for 2014-2015

Medium-term Trends  
Long-term Trends

## Israel Country Profile

National Relevant Data

## Characteristics of IT Market

IT Industry Markets  
IT Industry Growth Forecast  
IT Product Market  
Product Market Segmentation  
Product Growth Rates Forecast



## Vendor Landscape

Major Hardware Providers  
Major Software Providers  
Major IT Services Providers



*CIO steps for 2014-2015*

**CUSTOMER EXPERIENCE MANAGEMENT**  
**"SOCIAL BUSINESS STRATEGY"**  
**"MOBILITY STRATEGY"**  
**"DIGITAL STRATEGY"**  
**"CLOUD SERVICES STRATEGY"**  
**INFORMATION REPOSITORY**  
**FILTERS**  
**APIs**

stki.info 2014  
**"The IT Change: Better? Worse? No... Just Different!"**

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From:  
IT user

To:  
IT consumer

“APIs” and “filters”



“DECISION is a sharp knife that cuts clean and straight;  
INDECISION, a dull one that hacks and tears and  
leaves ragged edges behind it.”  
Gordon Graham

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# Era of great "HEAD SCRATCHING"



# Well to start:

## Political

Government intrusion :

- data and

## Economic (People)

- have less

## Social

- social networks

• online activities

• consumption



**Business needs are emerging so rapidly that tools don't exist to support them**



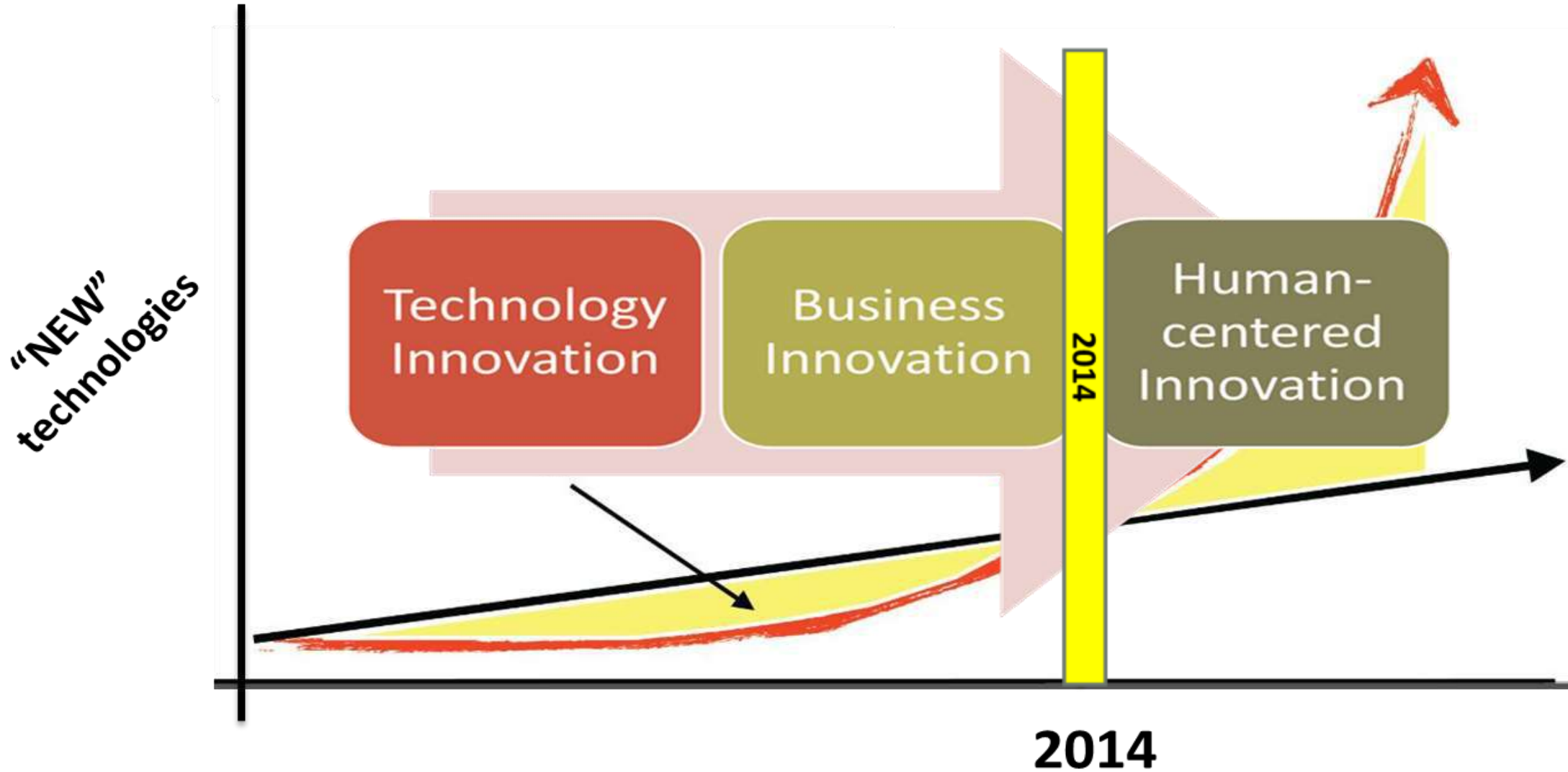
- security
- mobile
- cloud
- byo-everything
- internet of things
- advanced analytics

responsibility

- (green) sustainability

- Regulation

# 2014: "BOOM" For New Technologies' Implementations



# Technology and Human Centered Innovation



SundayReview | OP-ED COLUMNIST

## If I Had a Hammer

JAN. 11, 2014



Thomas L. Friedman

MY favorite story in Erik Brynjolfsson and Andrew McAfee's fascinating new book, "The Second Machine Age," is when the Dutch chess grandmaster Jan Hein Donner was asked how he'd prepare for a chess match against a computer, like I.B.M.'s Deep Blue. Donner replied: "I would bring a hammer."

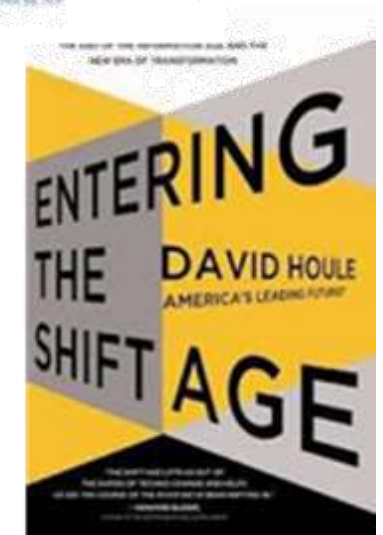
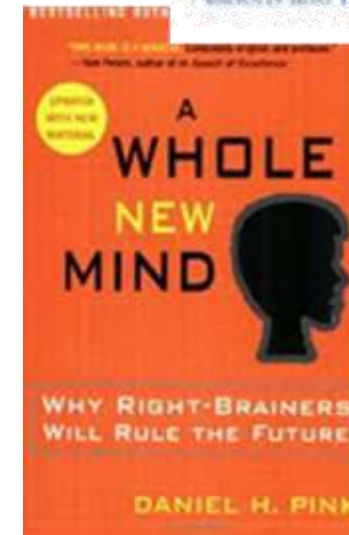


IN 1930, when the world was "suffering... from a bad attack of economic pessimism", John Maynard Keynes wrote a broadly optimistic essay, "Economic Possibilities for our Grandchildren". It imagined a middle way between revolution and stagnation that would leave the said grandchildren a great deal richer than their grandparents. But the path was not without dangers.

Eric Schmidt  
Executive Chairman, Google  
Jared Cohen  
Director, Google Miss

## The New Digital Age

Reshaping the Future of People, Nations and Business



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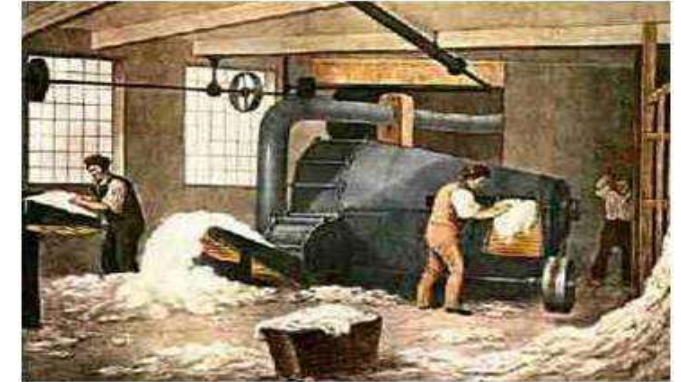


# Second Machine Age

## First Machine Age (Industrial Revolution; 1700s. )

- This period was all about power systems to augment human muscle, and each new invention delivered more and more power. But they all required humans to make decisions about them.
- Inventions of this era actually made human control and labor more valuable and important.

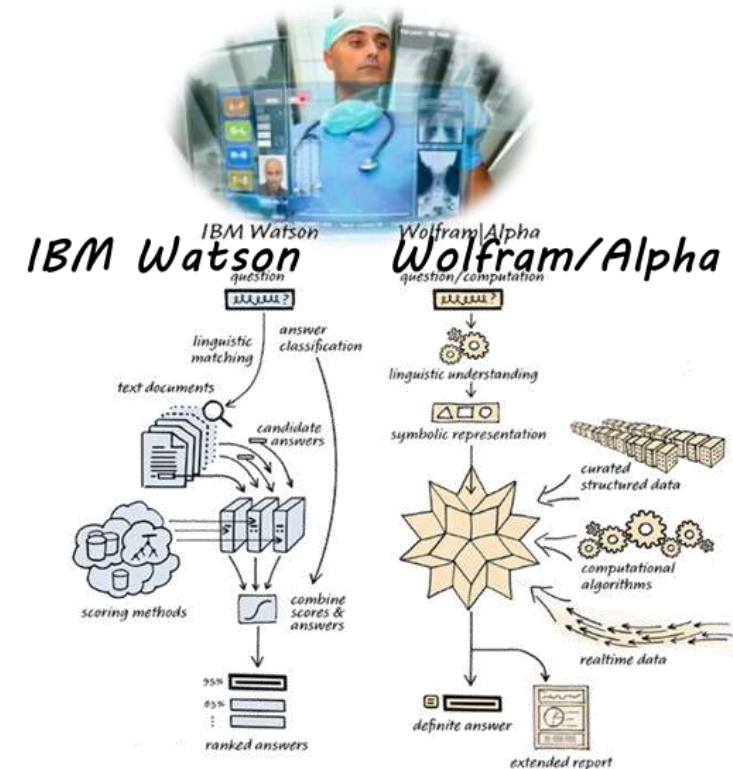
**Labor and machines were complementary**



## Second Machine Age (starting 2006-8)

- We automate a lot more cognitive tasks and machines can make better decisions than humans.
- Three advances:
  - **Exponential**: relentless increase of digital inventions
  - **Digital** : the internet, the APP and API economies
  - **Combinatorial**: take Google Maps and combine them with an app like Waze
- Our generation can rely on fewer people and more technology.

**Humans and software-driven machines may increasingly be substitutes, not complements**



# Entering SECOND Machine Age

## The First Machine Age

## Second Machine Age

through the introduction of mechanical production facilities with the help of water and

through the introduction of a division of labor and mass production with the help of electrical energy

through the use of electronic and IT systems that further automate production

through the use of cyber-physical systems

IT as a builder

- Programming
- Infrastructure Management
- Back office automation

IT as a factory

- Solution Integrator
- Service Provider
- Process automation & optimization

IT as digital innovator

- Digital Innovation
- Business Enabler
- Service Provider

First mechanical loom, 1784

First assembly line  
Cincinnati slaughter houses, 1870

logic controller  
Modicon 084, 1969

2014

Today

Degree of complexity



- Digital Innovation
- Business Enabler
- Service Provider

Time

1800

1900

2000

Today

# Why??????

## Moore's Law.

- Digital stuff gets 30% to 40% cheaper every year—at the same performance point.

## Andy and Bill's Law. "What Andy giveth, Bill taketh away."

- When Andy Grove (Intel) brought a new chip to market then Bill Gates (Microsoft) would upgrade his software and soak up the new chip's power. Moore's Law constantly enables new software.

## Metcalf's Law.

- usefulness of a network/application improves by the square of the number of nodes (consumers) on the network.

## Gilder's Law:

- The best business models waste the era's cheapest resources in order to conserve the era's most expensive resources.
- Today the cheapest resources are "computer power and bandwidth" and the most expensive "people"

## Drucker's Law:

- drop the word "achievement" and replace it with "contribution,"
- Contribution puts the focus where it should be—on your customers, employees and shareholders.

## Ogilvy's Law.

- If each of us hires people who are smaller than we are, we shall become a company of dwarfs. But if each of us hires people who are bigger than we are, we shall become a company of giants

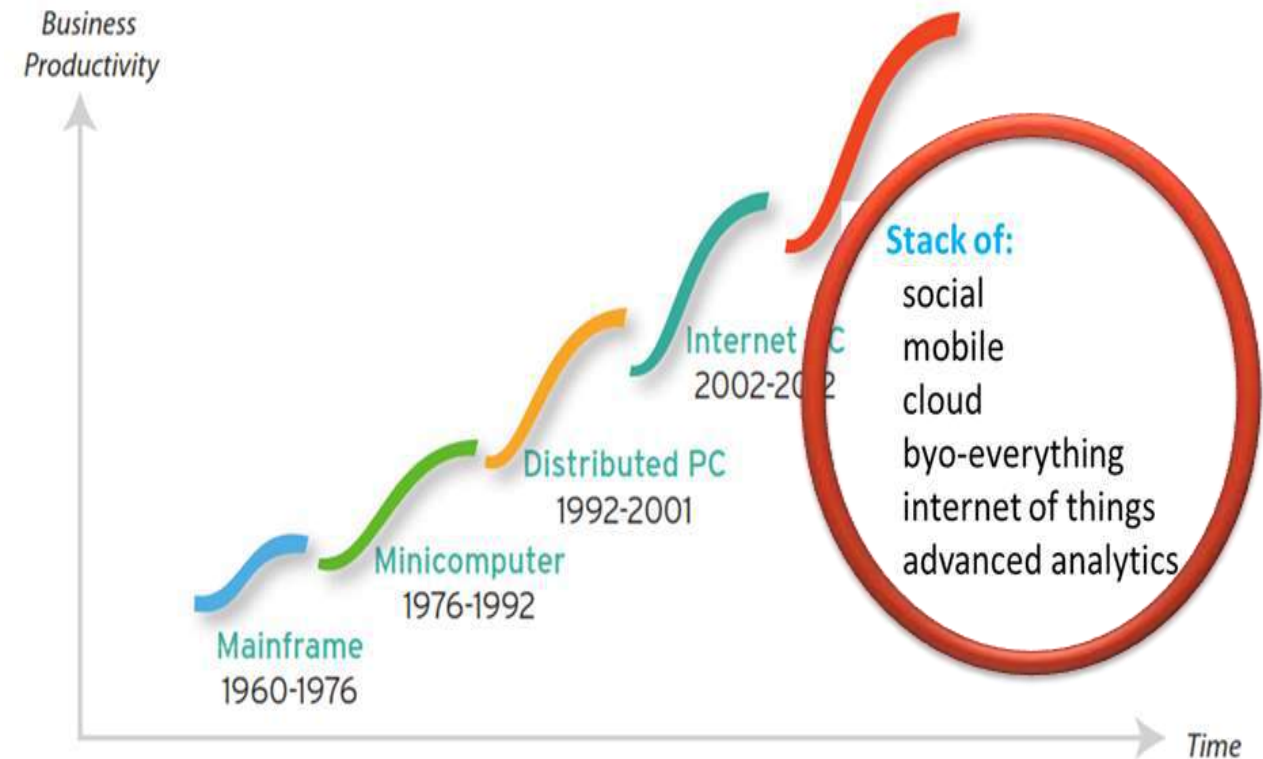
# Why??????

**For IT, tech change today is nearly unsustainable**

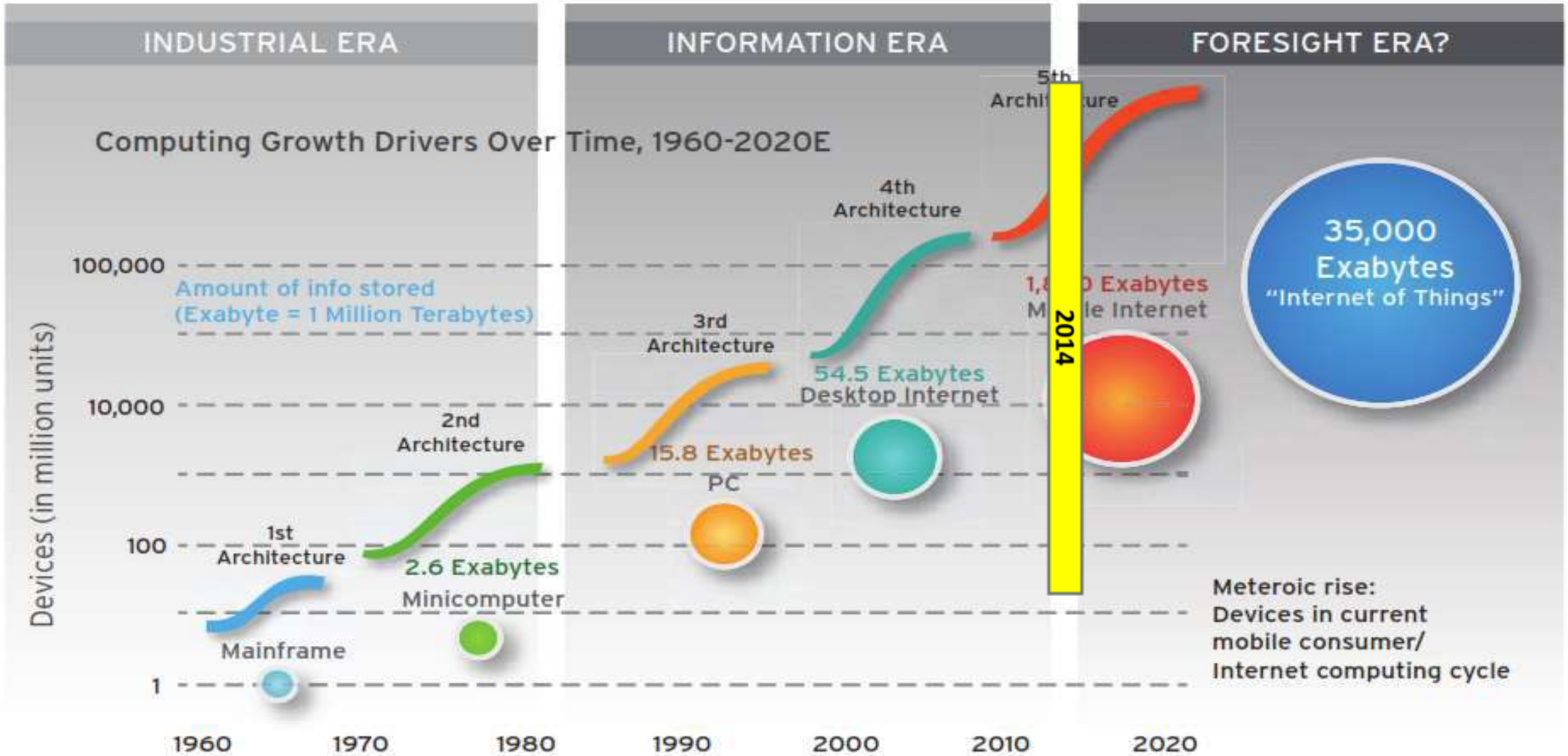


# The fifth wave of corporate IT

- **The GOOGLE effect:** separation of humans and information
- **The WHATSAPP effect:** Free communications, death of distance
- **The FACEBOOK effect:** Virtualization of human relationships
- **The LINKEDIN effect:** Virtualization of specialized knowledge
- **The AMAZON effect:** Virtualization of customer experience
- **The WAZE effect:** Virtualization and crowdsourcing of travel



# 2020: When Computers Outnumber Humans 10 to 1

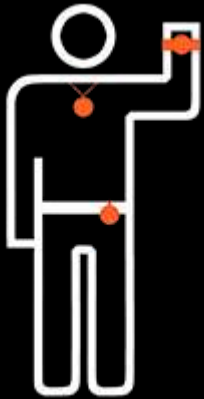


# Wearables and iBeacons

Wearables / iBeacons computing reshape how work gets done, how decisions are made, and how you engage with employees, customers, and partners.

Wearables / iBeacons introduce technology to previously prohibitive scenarios

While consumer are in the spotlight today, STKI expects business to drive acceptance and transformative products



# iBeacon : What is it, and what can we expect from it?

- ❖ **iBeacon** : iPhones **do not include NFC** (near field communications)
  - ❖ phone is able to pick the transmissions (**Bluetooth Low Energy**)
  - ❖ work a GPS in indoor locations (high degree of accuracy)
  - ❖ triggering (in the phone) more than a simple 'You are here' signal, it can be pretty much anything at all.
- ❖ **EXAMPLES:**
  - ❖ Get a request for payment in a **wallet APP**, use your fingerprint and/or a PIN to authorize payment on one of your preloaded cards and receive your receipt electronically.
  - ❖ In a iBeacon-equipped underground parking garage, park your car and have an **APP** direct you back to your exact parking space.
  - ❖ Passbook-like **APP** which user loads up with cards for the companies he **wants to hear** from, and **only those** companies can send offers.
    - ❖ Walking past a store and receive a discount coupon valid for that day.
    - ❖ CeBIT 2014, they're sending out critical messages such as "free coffee."





# Internet of Things: using "artificial intelligence"



# Internet of Things: using "artificial intelligence"



**Personal Analytics:** The commercial addiction to analytics will spill over into the personal space as we get more and more data about how we eat, sleep, travel, work and spend our money delivered directly to us.

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# M-commerce is moving at light-speed: shopping-by-camera



## E-commerce 2014

allows companies to provide their shoppers with the ability to find and buy the things that inspire them simply by snapping a photo



# CarPlay: iOS-based "infotainment" system for the car



Voice



Touch



Knobs and Controls



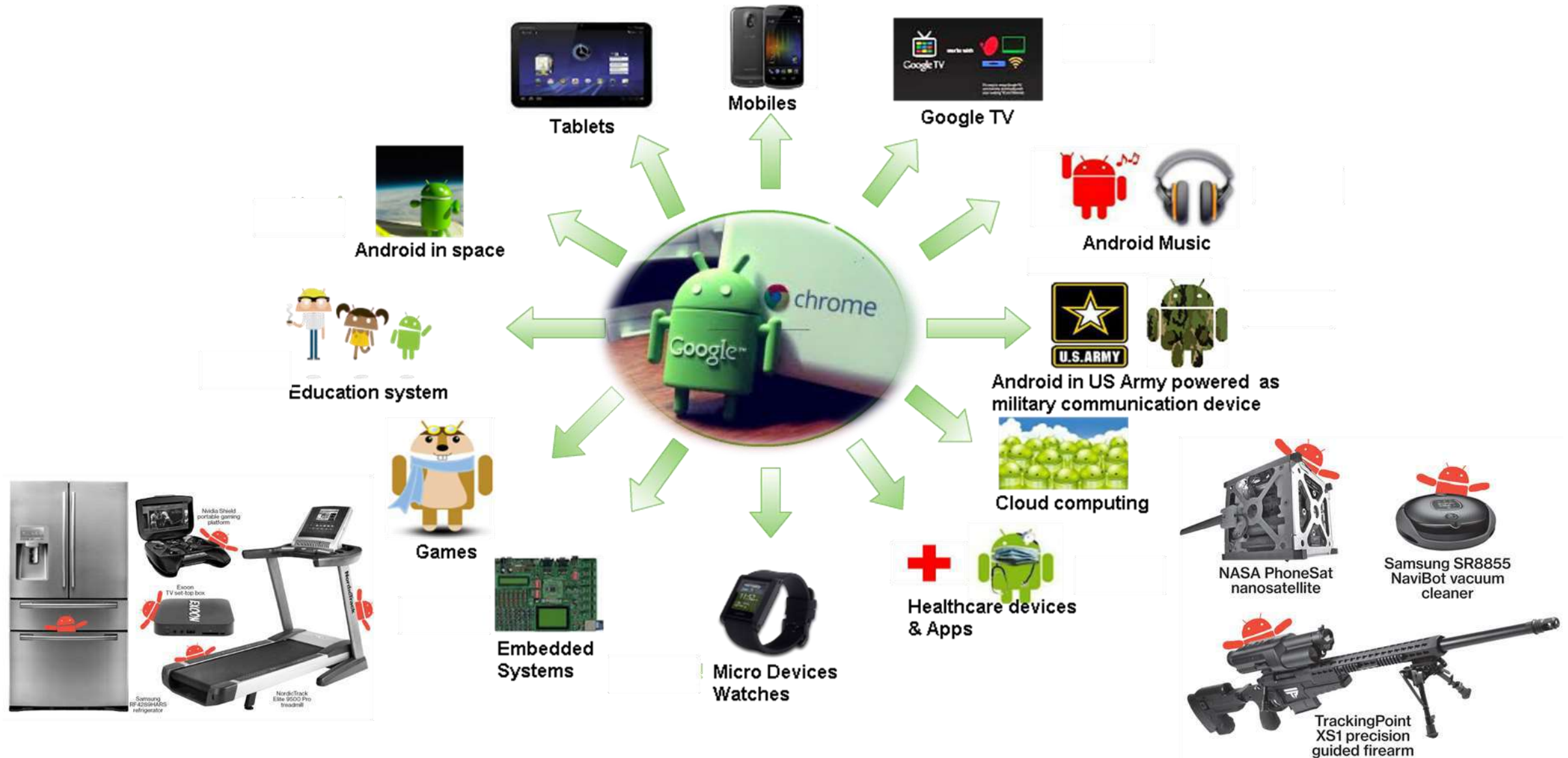
**2014 models**

Ferrari, HONDA The Power of Dreams, HYUNDAI, JAGUAR, Mercedes-Benz, VOLVO

**2015 models**

BMW GROUP, CHEVROLET, Ford, KIA, LAND-ROVER, MITSUBISHI MOTORS, NISSAN, PSA PEUGEOT CITROËN, SUBARU Confidence in Motion, SUZUKI, TOYOTA

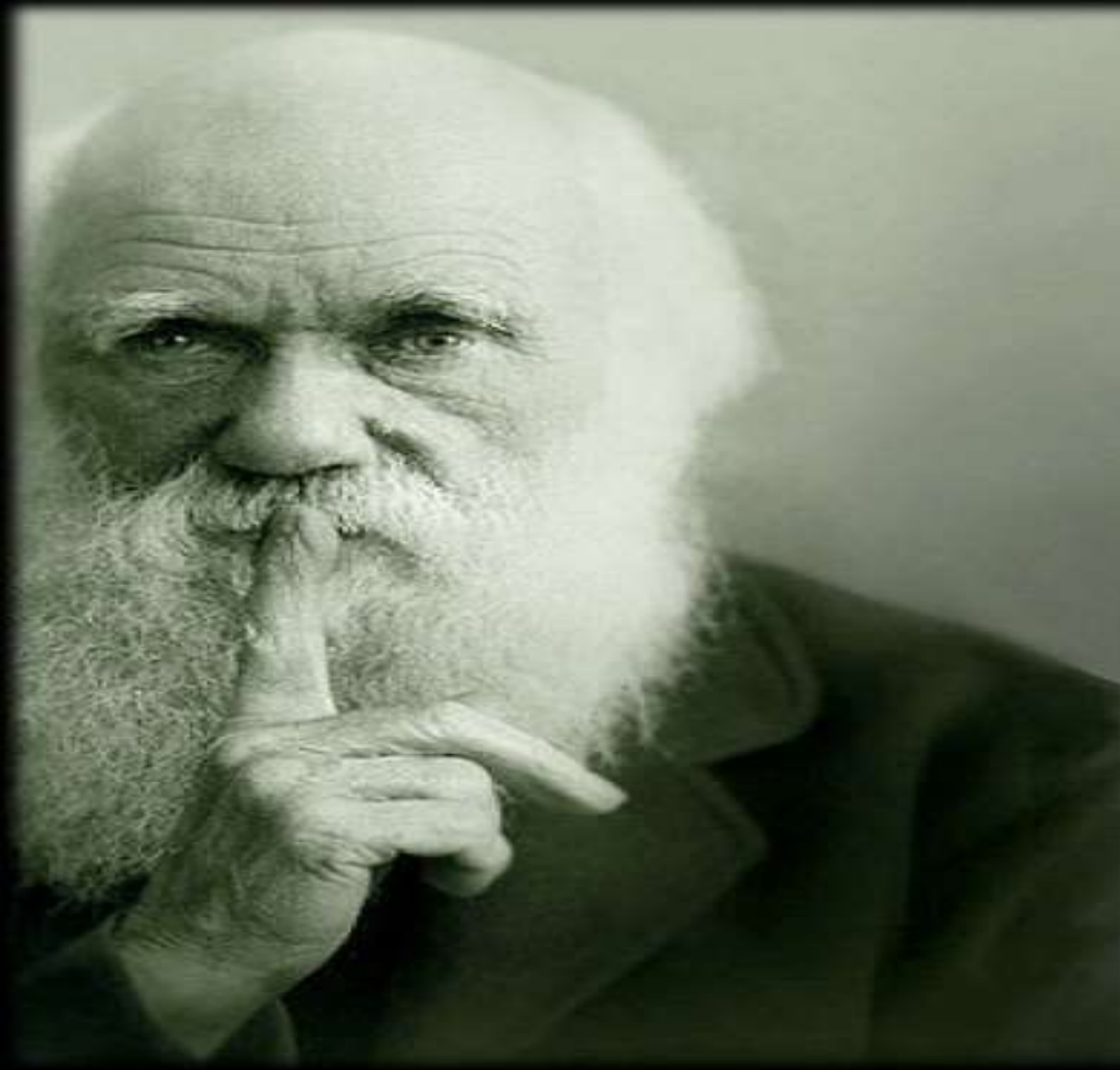
# New client/cloud winner ? Android/chrome everywhere ?



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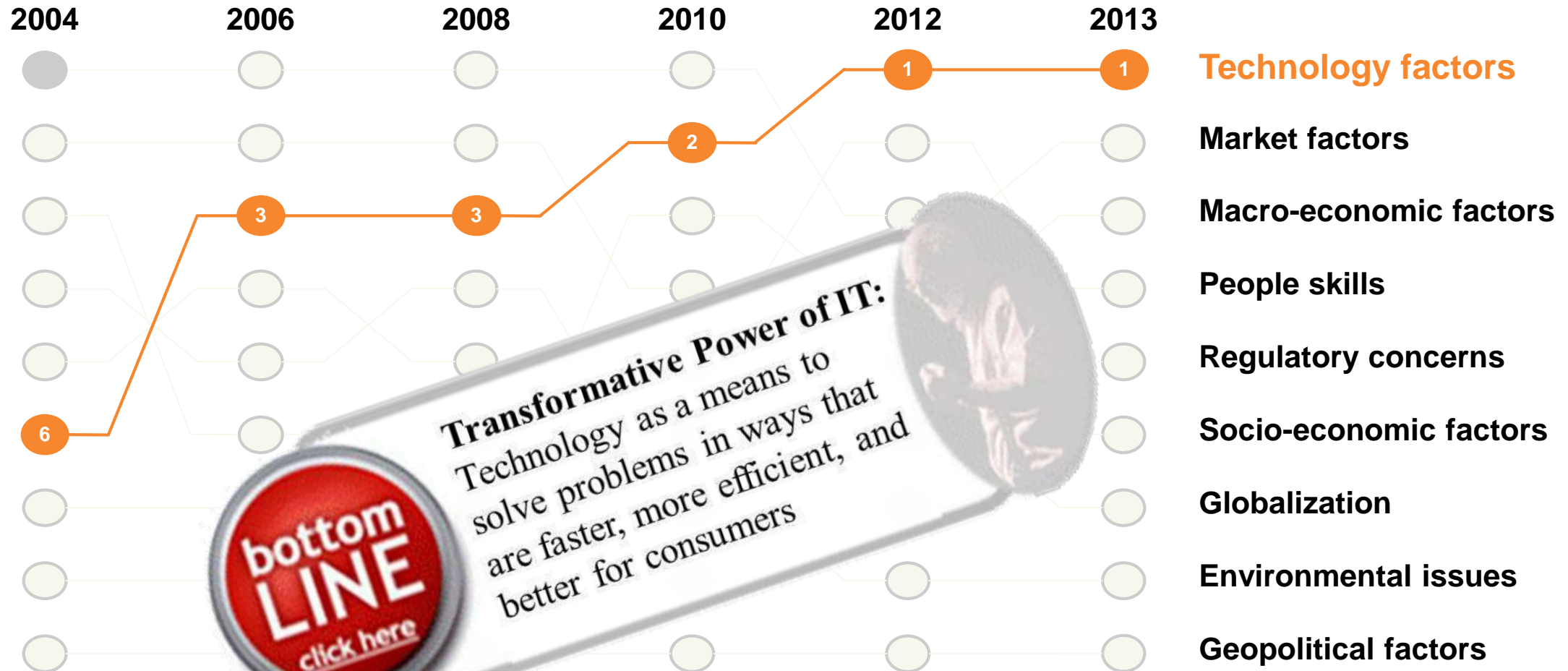


DIGITAL  
DARWINISM IS THE  
EVOLUTION OF  
CONSUMER  
BEHAVIOR WHEN  
SOCIETY &  
TECHNOLOGY  
EVOLVE FASTER  
THAN THE ABILITY  
TO ADAPT

# CEOs consider TECHNOLOGY the most important force

## CEO Studies 2004–2013

What are the most important external forces that will impact the enterprise over the next 3 to 5 years?



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**Transformative Power of IT:**  
Technology as a means to solve problems in ways that are faster, more efficient, and better for consumers

# What are the 5 things CEOs want to do in 2014

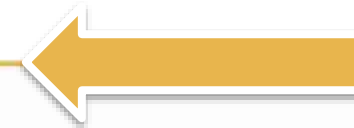
Help the company reach a specific revenue

Complete a major enterprise project

Support customer acquisition and retention

Simplify IT **NEW "CIO" ????**

Lead product innovation effort

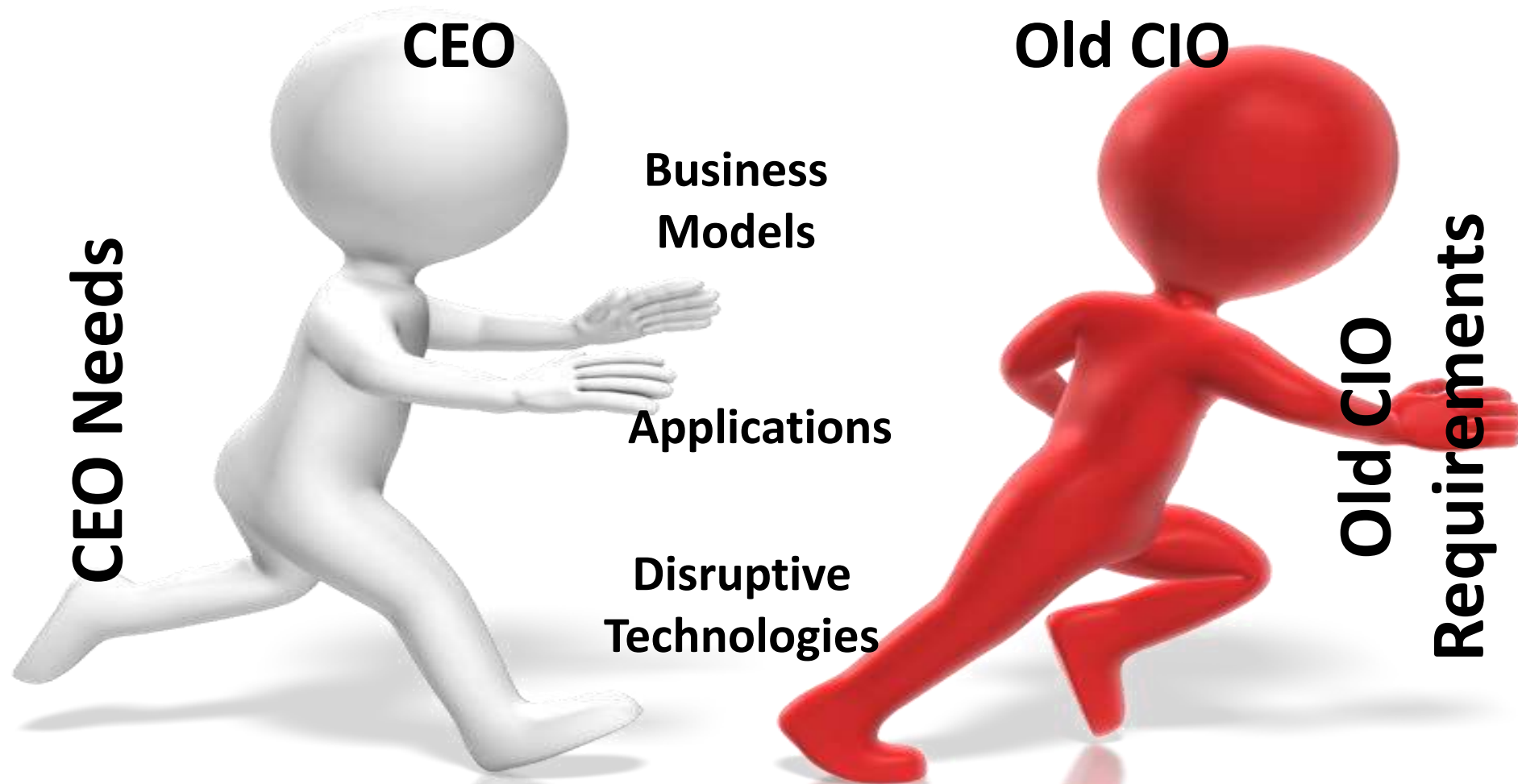


13th annual State of the CIO survey,  
<http://www.cio.com/>

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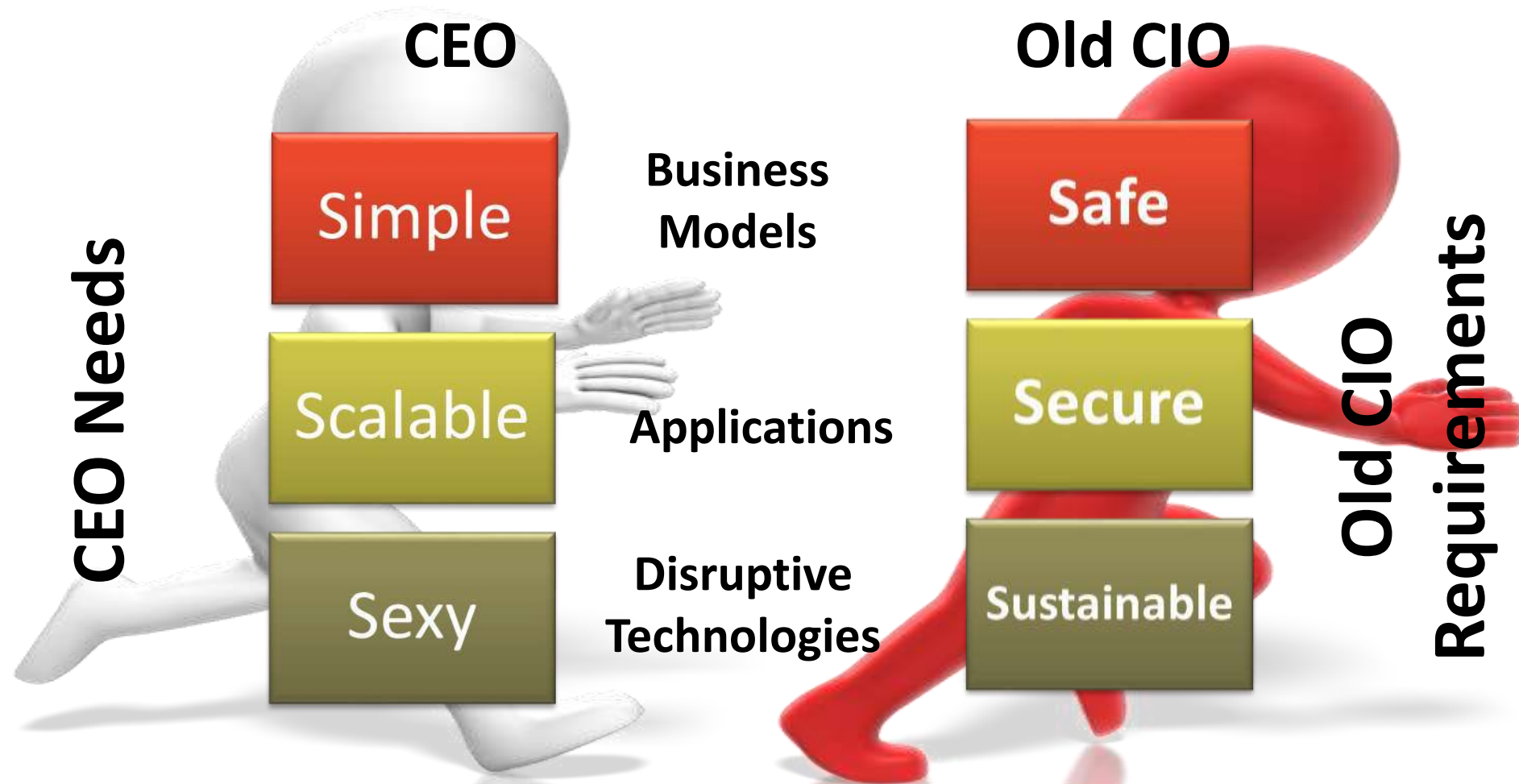


# What does the CEO mean with simplify IT and change CIO ??



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# What does the CEO mean with simplify IT and change CIO ??



# The new CIO



*External Focused*



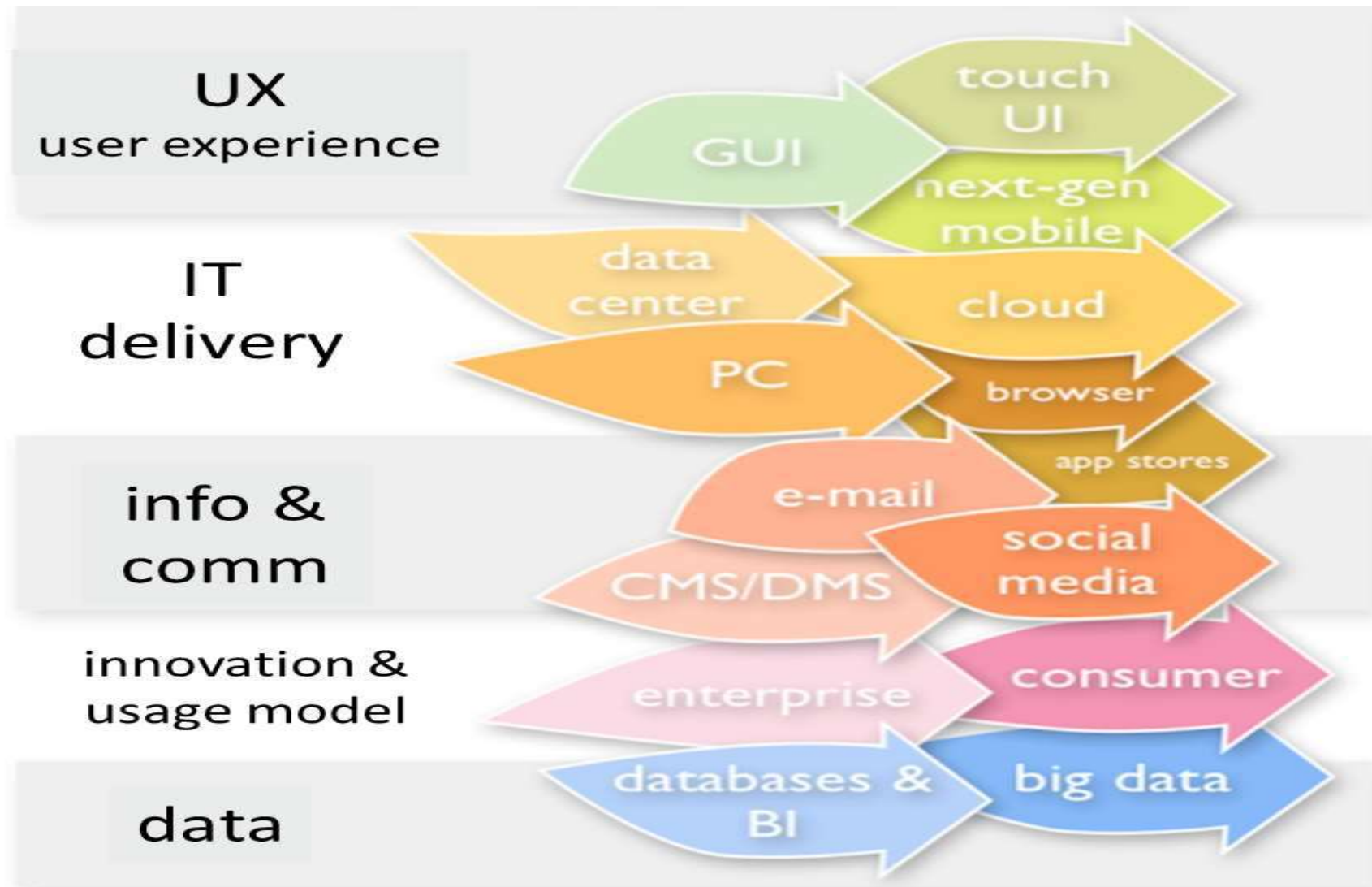
*Internal Focused*

# CIO Role As We Know It Is Under Attack



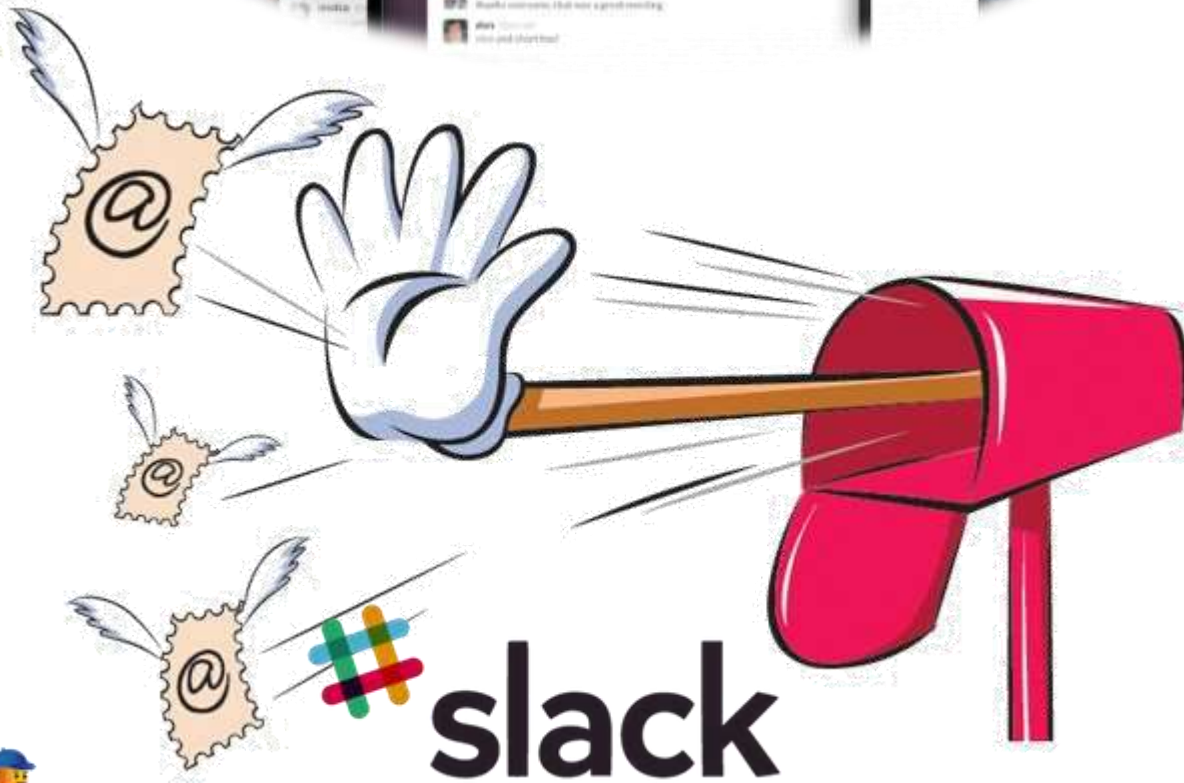
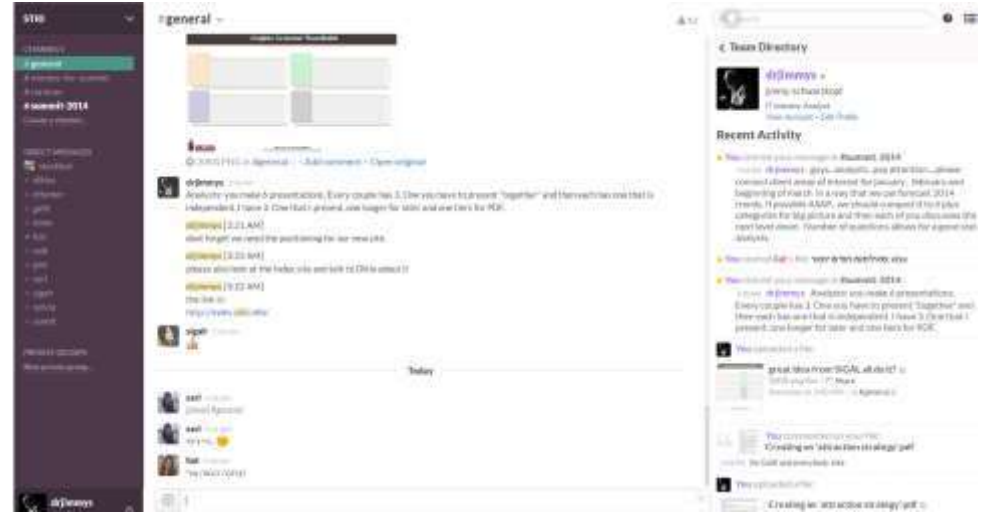
The difficulty lies not so much  
in developing new ideas  
as in escaping from old ones  
John Maynard Keynes

# An entire generation of technology is shifting...



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# Example of change: no more "enterprise" e-mail ?



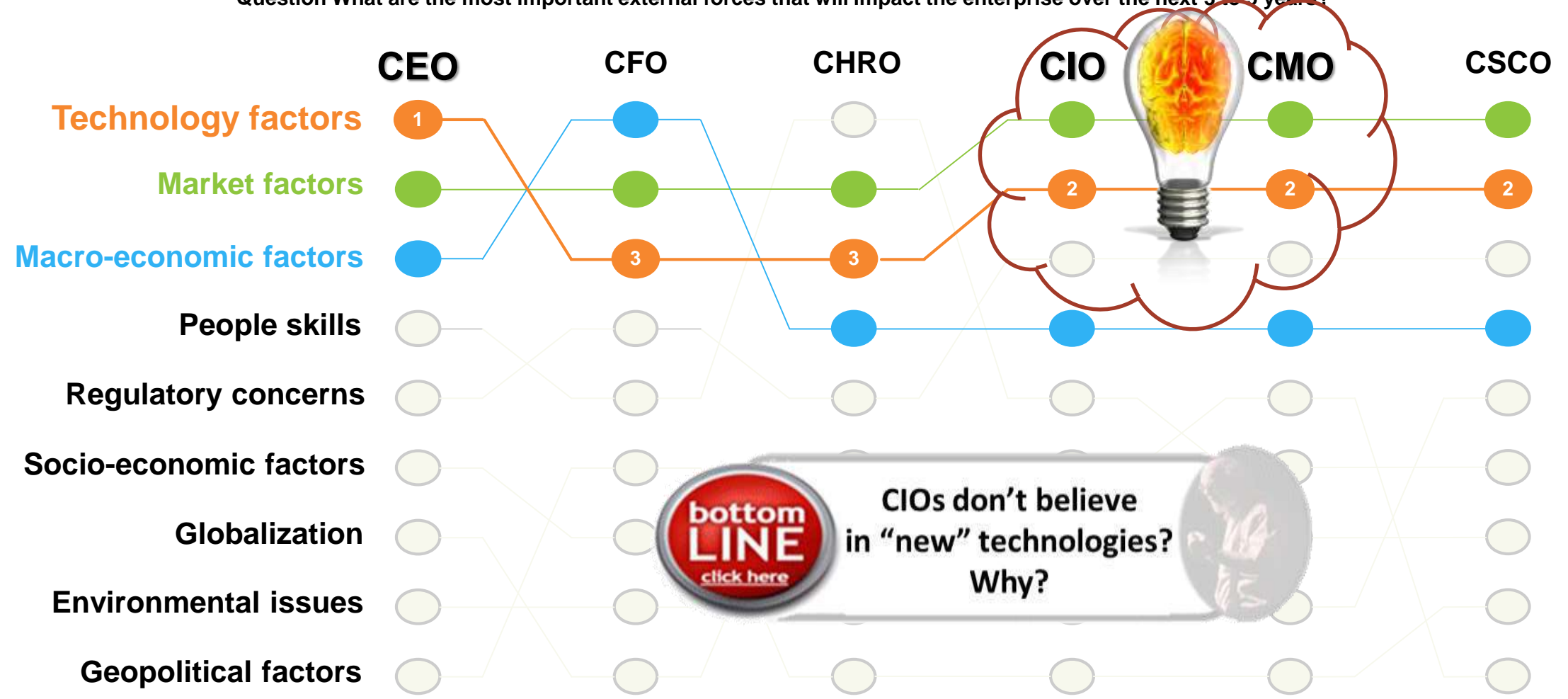
## Slack brings:

- All communication, messages and files together in one place (real-time messaging, archiving and search)
- Content integrated from twitter, DROPBOX, google docs and others services.
- Build for team work.

# CIOs ranking technology as number two?

## External forces impacting the enterprise (3–5 Years)

Question What are the most important external forces that will impact the enterprise over the next 3 to 5 years?



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CIOs don't believe in "new" technologies? Why?

Source: 2013 IBM global C-suite Study

# What should we do?

## Rethinking tech adoption

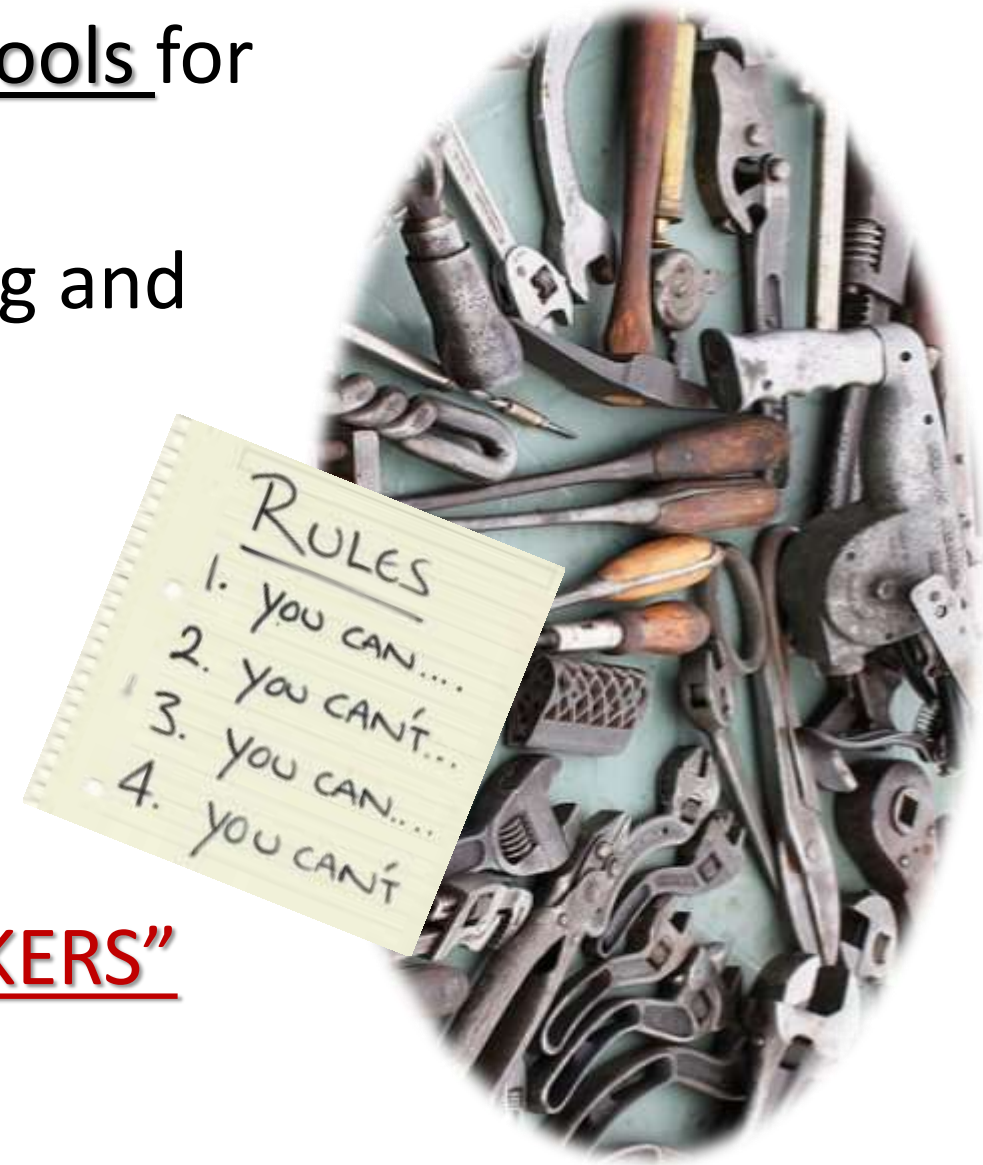
- Ignoring technology change isn't the answer
- Maintaining backlogs isn't the answer
- Giving up isn't the answer
- Proceeding in the same direction isn't the answer
- Letting everyone do whatever they want isn't the answer
- **Should we look at new models for IT?**



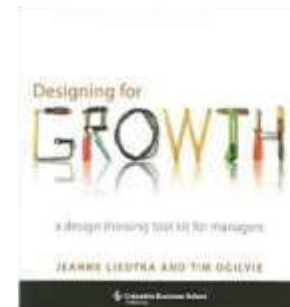
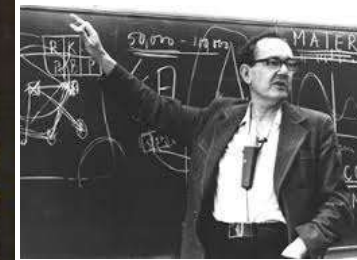
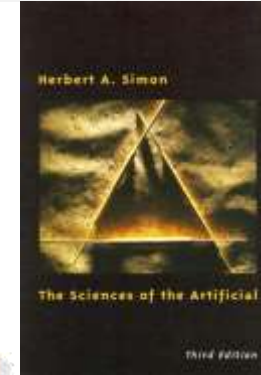
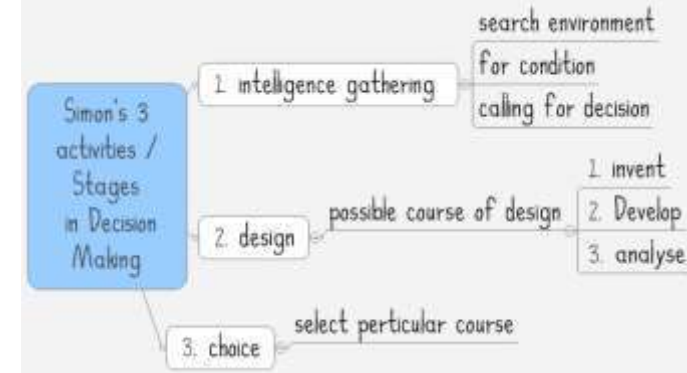
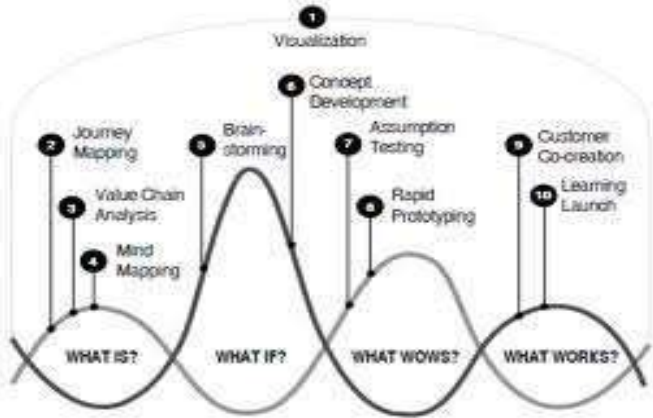


# CIOs rules and tools

- Provide “everyone” with **simple rules** and tools for social, mobile, big data and cloud
- Establish foundation and tools for managing and governing **10x-100x more IT and data**
- Throw out “traditional” IT playbook and go **“emergent”** technologies
- Become a **“change” agent** and an **IT “revolutionary”**
- IT & Business must become **“DESIGN THINKERS”**



# IT has become a "right-brain" science



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# CIO steps for 2014-2015

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**“DIGITAL STRATEGY”**

**bottom LINE** click here

**CUSTOMER EXPERIENCE MANAGEMENT**

**bottom LINE** click here

**INFORMATION REPOSITORY**

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**“SOCIAL BUSINESS STRATEGY”**

**bottom LINE** click here

**“CLOUD SERVICES STRATEGY”**

**bottom LINE** click here

**FILTERS**

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**“MOBILITY STRATEGY”**

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**APIs**

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**“The IT Change: Better? Worse? No... Just Different”.**

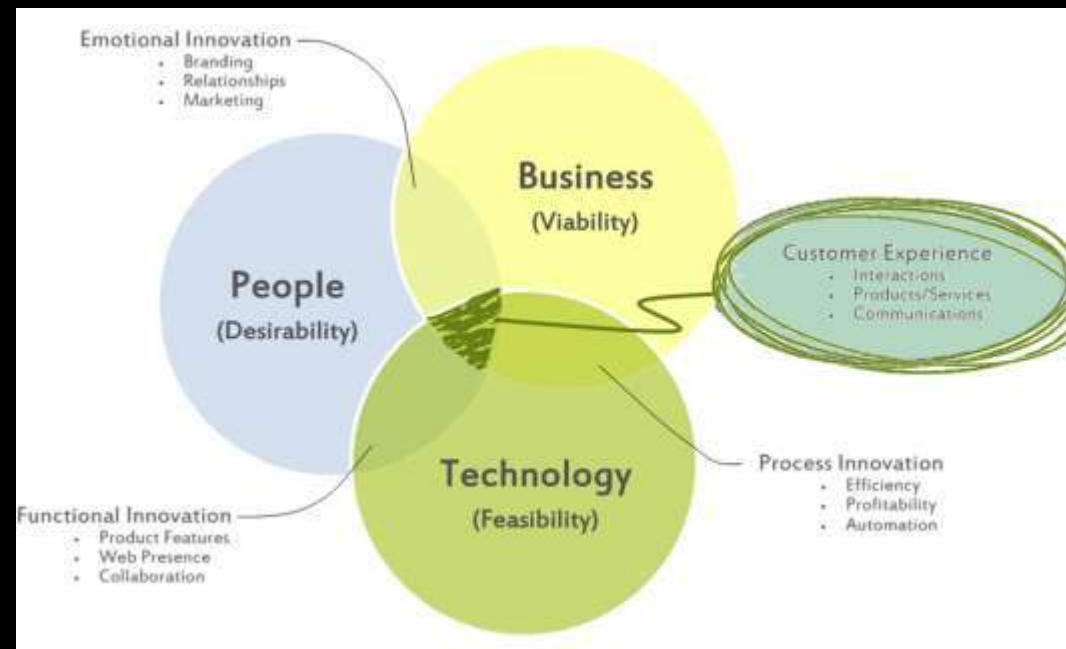
# View of digital strategy today (2014)



DG DachisGroup  
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# Customer Experience Management

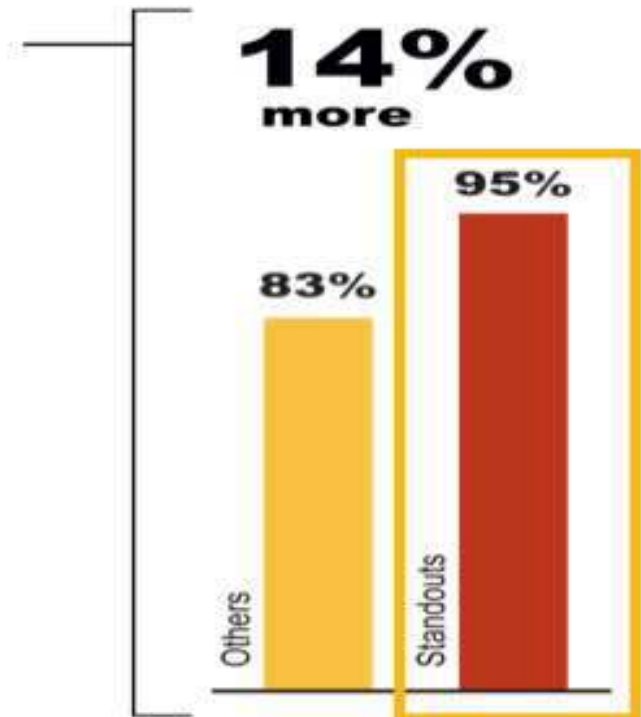
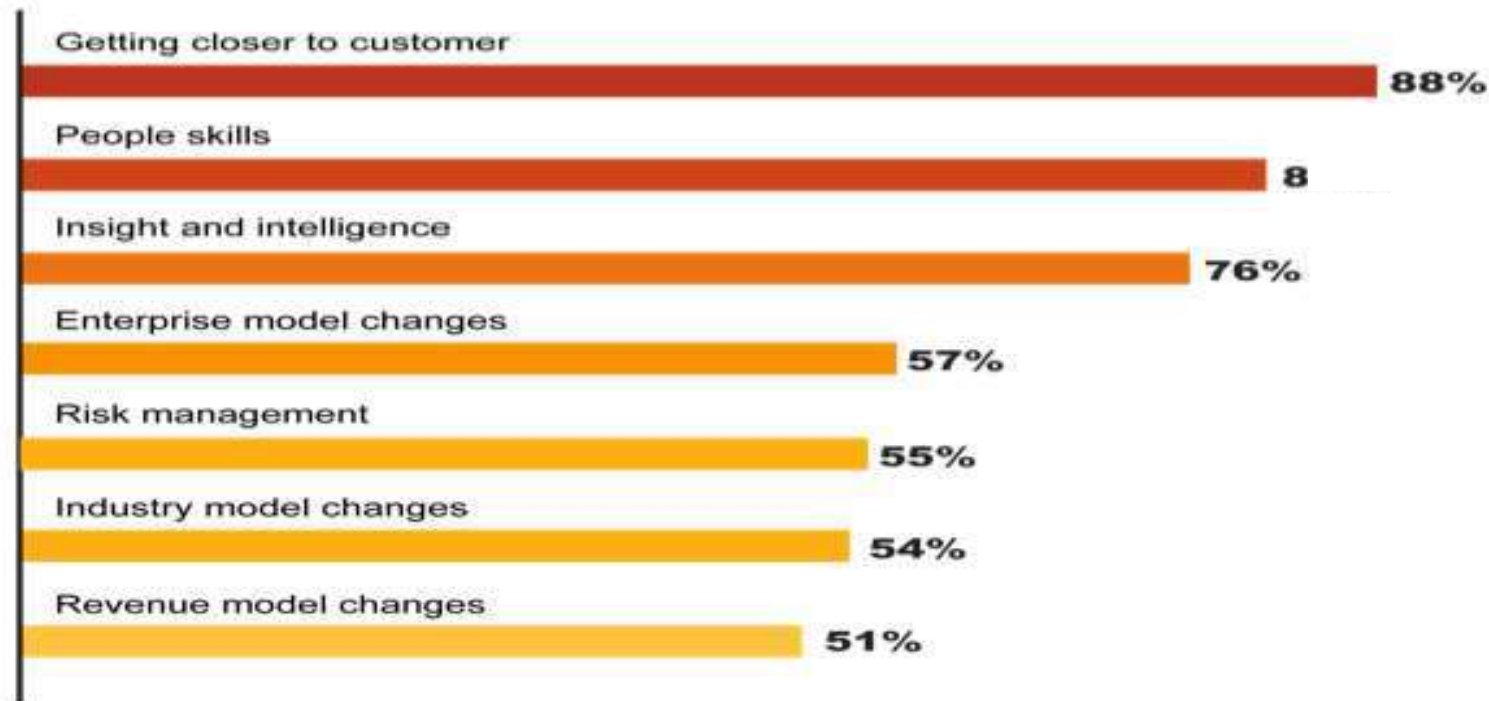


# CEO's are taking notice

Almost every CEO (95%) obsesses on customer intimacy

## Customer-Intimacy: Key CEO Focus

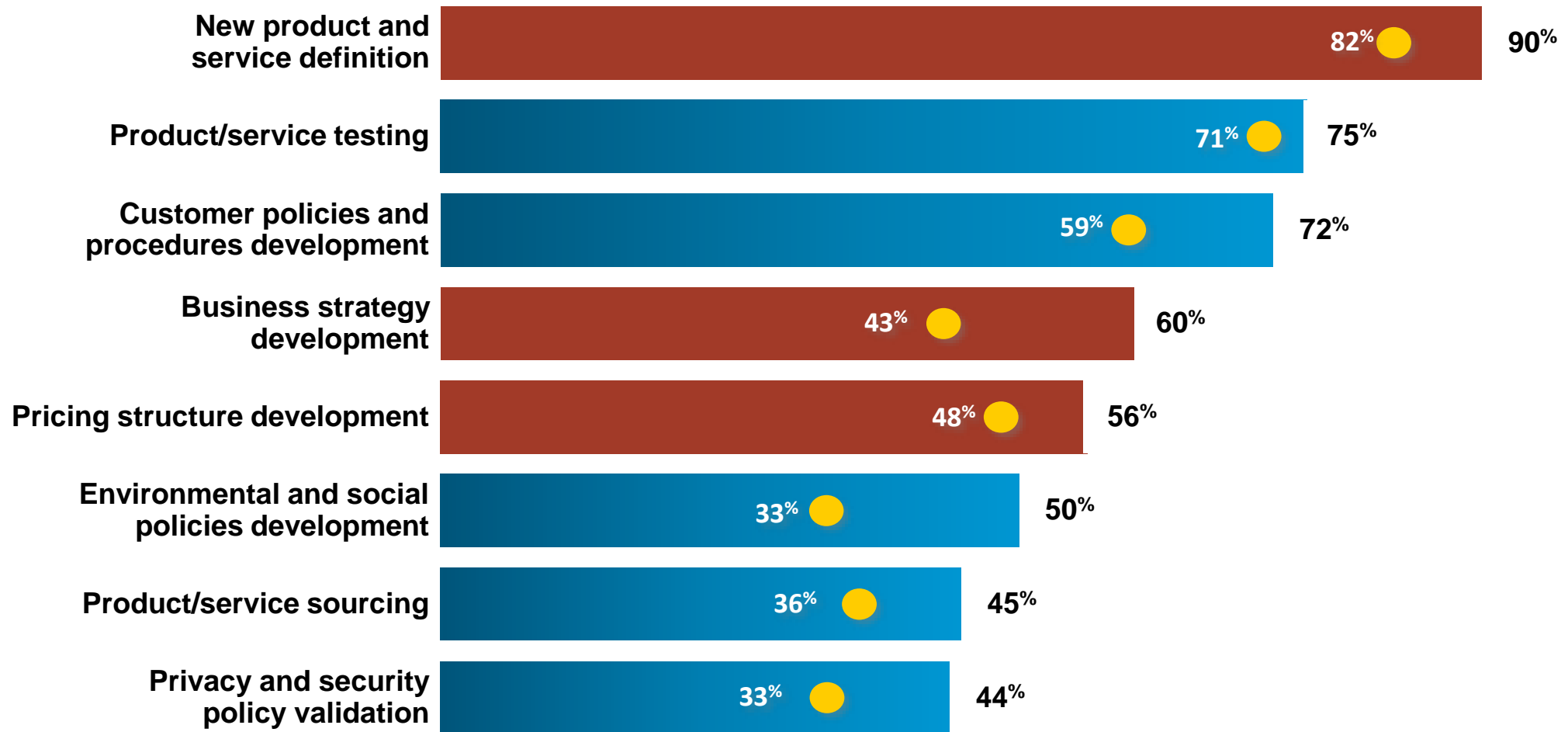
Top focus areas in next five year



Source: 2010 IBM Global CEO Study: Capitalizing on Complexity

# CEOs want to share control with customers

## Areas of the business where CEOs want to include customers



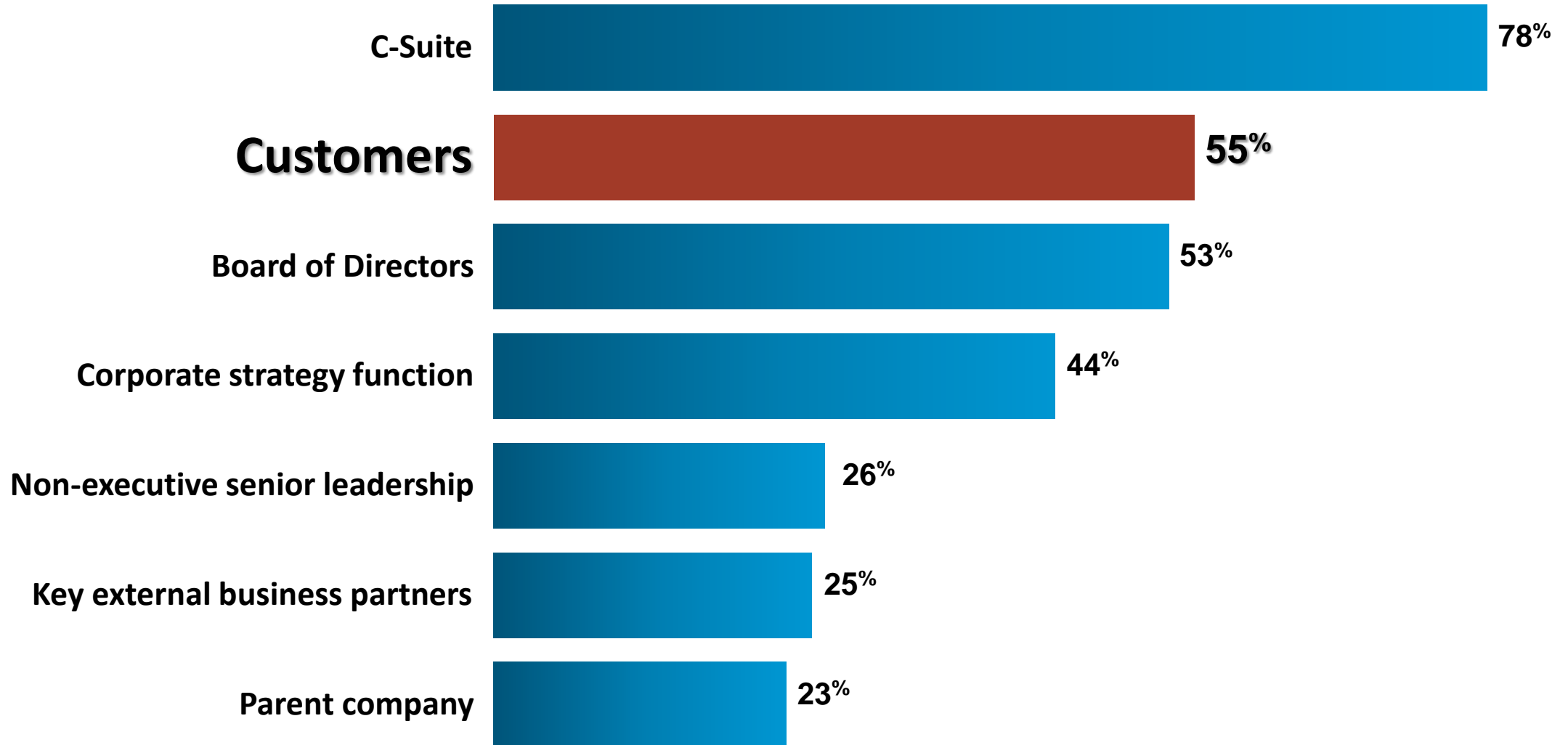
● Today ■ 3-5 Years

Source: 2013 IBM global C-suite Study

# CEOs say customers come second only to the C-suite

Voice in the board: key influencers on business strategy

Who has the most influence on your strategic vision and business strategy?



Source: 2013 IBM global C-suite Study

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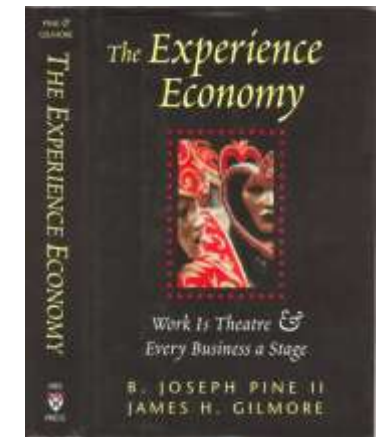
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# Chief Customer Officer (CCO): in charge of “Experience”

It is the **customer**:

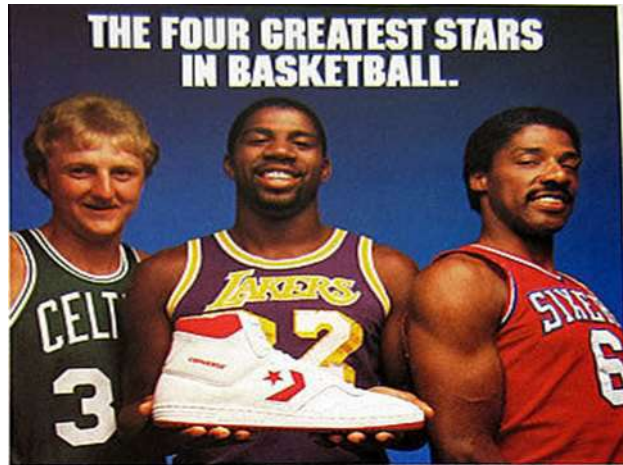
- who is **put on stage**
- he is the **main actor**
- the production, services, even bureaucracy takes place with his **active participation**
- all in order to create **memorable experiences.**



**Chief Customer Officer :**  
must be the voice of the customer  
in the organization, taking views  
and messages from the market  
and spreading them internally.



# From Products to Information Platforms



The StarTech's unique uni-saddle, designed in cooperation with our experienced biomechanics team, provides unparalleled midfoot, heel and ankle support. The upper is double stitched for added durability, and the outsole tread design has flex bars for increased flexibility. The superior shock absorbent sole is unbeatable for providing sustained comfort during extended play.

The Converse StarTech is designed with the dedication to biomechanics we put into all our shoes. That's why it's number one with basketball's greatest stars. It's why it will be number one with you, too.

**CONVERSE**  
Reach for the stars.

©1995 Converse Inc.



- Unique Uni-Saddle for Unparalleled Support
- Double-Stitched Upper For Durability
- Flex Bars For Increased Flexibility
- Superior Shock Absorbent Sole Provides Sustained Comfort
- Padded Collar for Comfort and Support



**Products '80s**

**Information Platform 2014**



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# The framework is the commodity, the experience is personal

- We can't commoditize the experience – that's the differentiating part – it's personal
- It is an emotional connection between the person, the interaction, and the brand
- Technology can only provide the framework (as a commodity) to enable the experience to happen



-“You’ve gotta start with the customer experience and work backwards to the technology”-

Steve Jobs

-“We need to become part of people’s lives and digital allows us to do that”-

Simon Pestrige, Nike

“...the world is changing, it is not about us doing something and customers agreeing, it is about the customer expecting us to do things differently and us delivering...”



CCO (client spokesman)  
not always  
CMO (company spokesman)

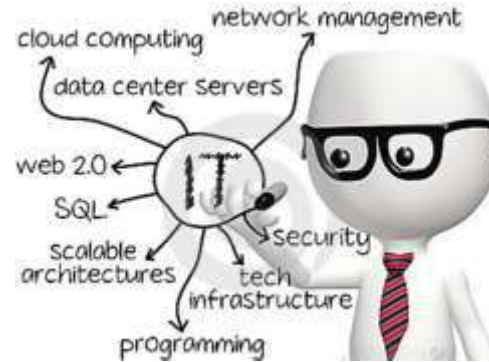


Prof. Peter Drucker

Prof. Peter Drucker wrote that a company has only two key functions:  
*marketing and innovation*

WE ARE MOVING FROM .....

company-centric where CIOs & CMOs rule



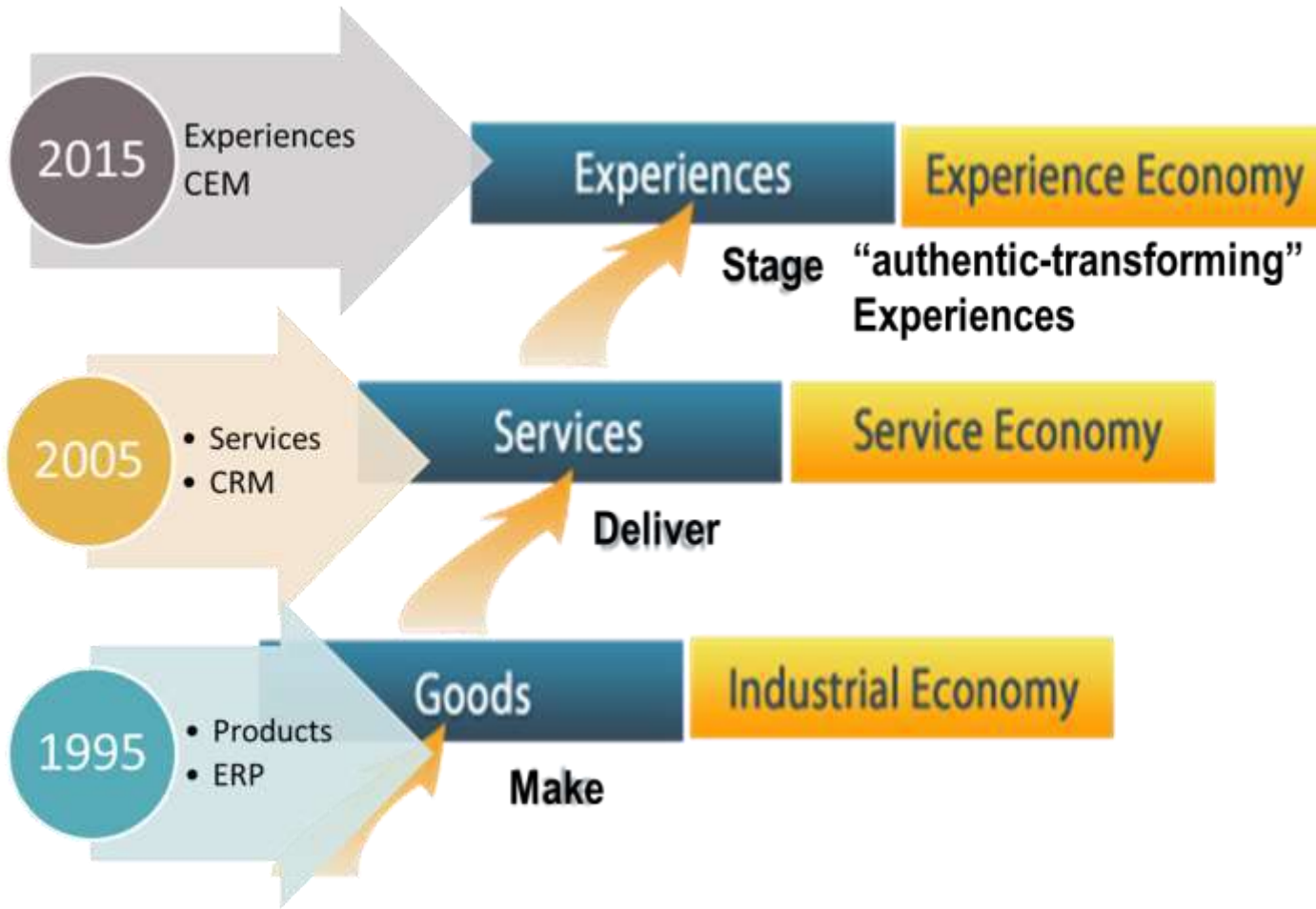
to customer-centric where CCOs rule



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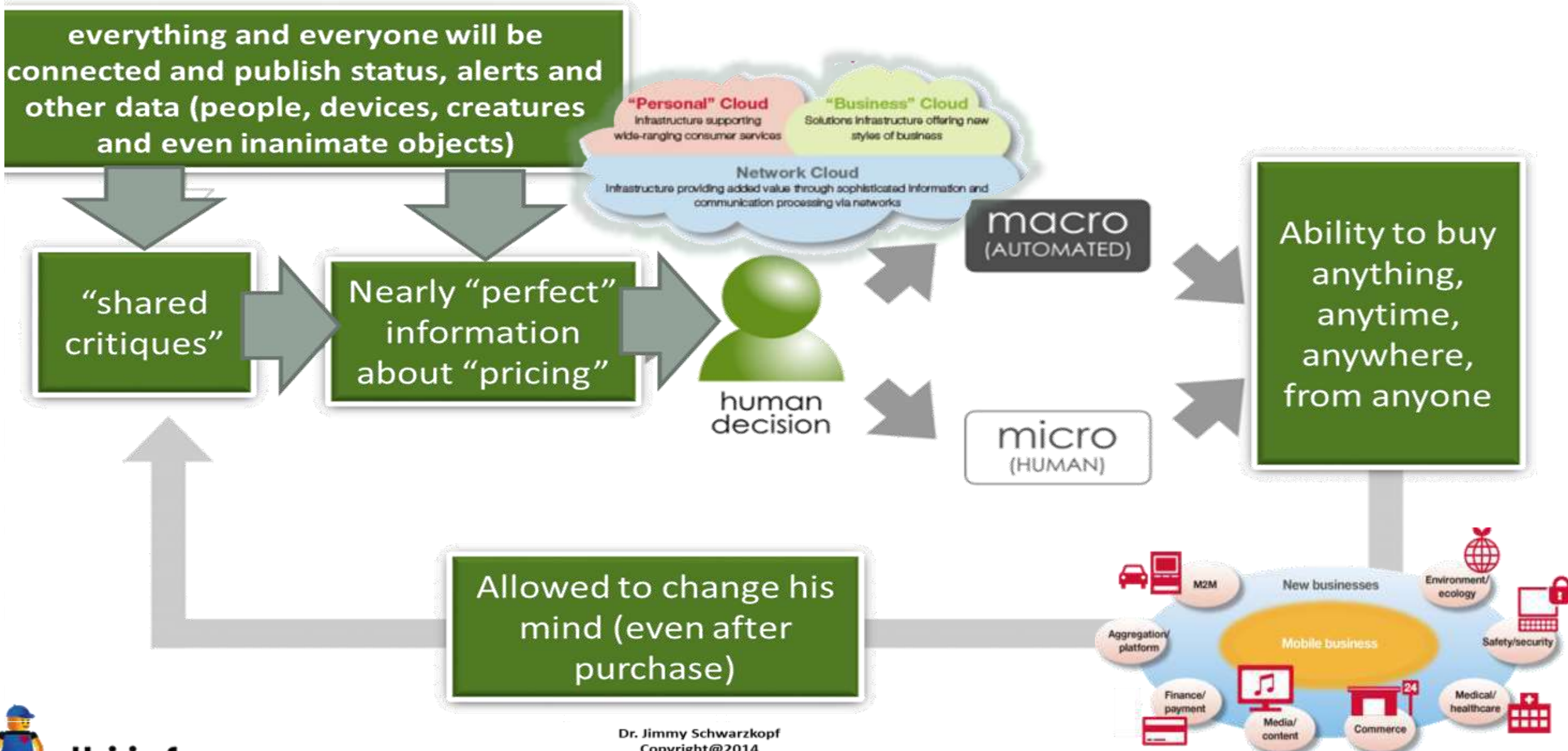
# Everything is about "authentic-transforming" RIGHT BRAIN experiences



Customer Experience Transformation  
For When CRM Is Not Enough



# Today's customer is VERY powerful (personal cloud)



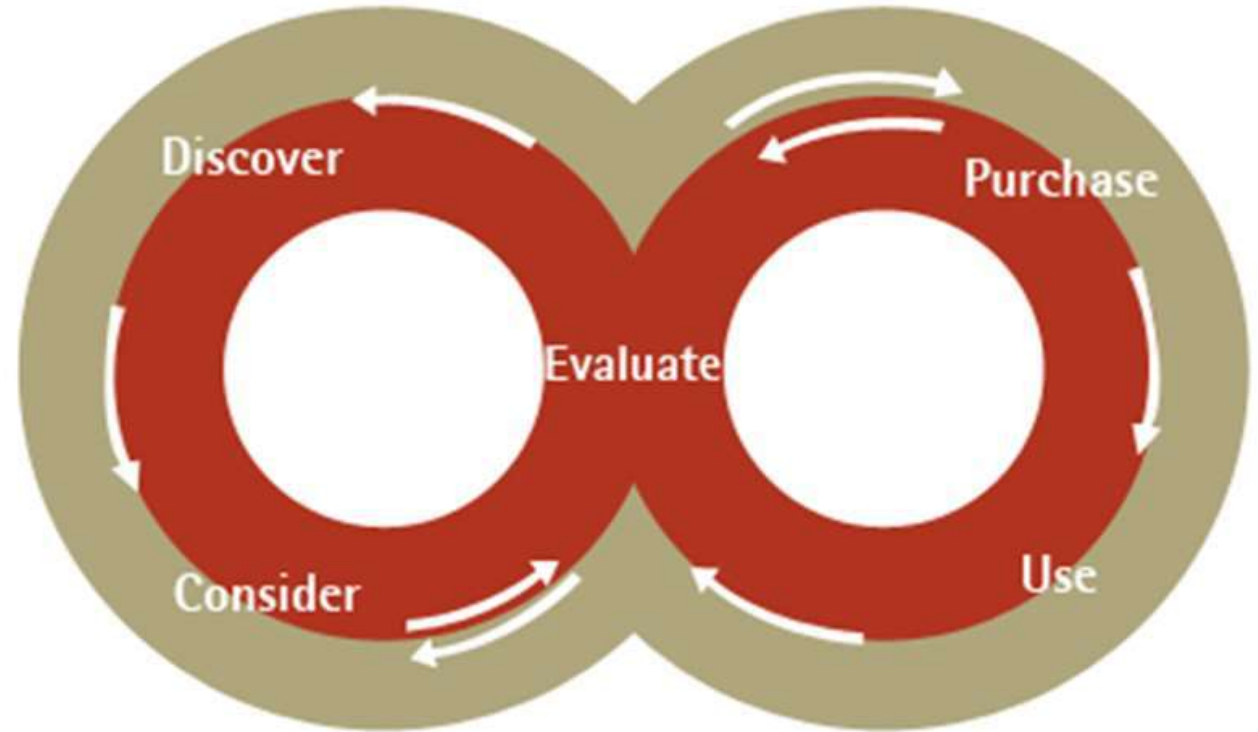
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# Non-stop Customer: so what changes

traditional funnel



Nonstop-Customer Experience Model





This shift has **profound** implications:

- ❖ how customers will **interact** with the marketplace at large?
- ❖ how customers will **interact** with specific organizations?
- ❖ how employees will **deliver goods and services**?
- ❖ how IT will **support both** of these groups?

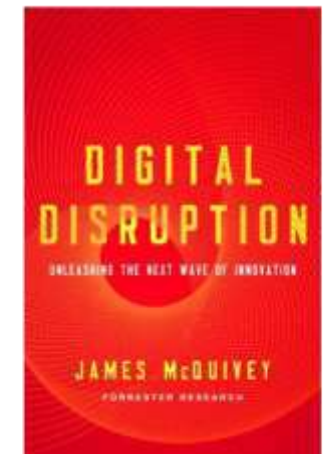


**“DIGITAL STRATEGY”**

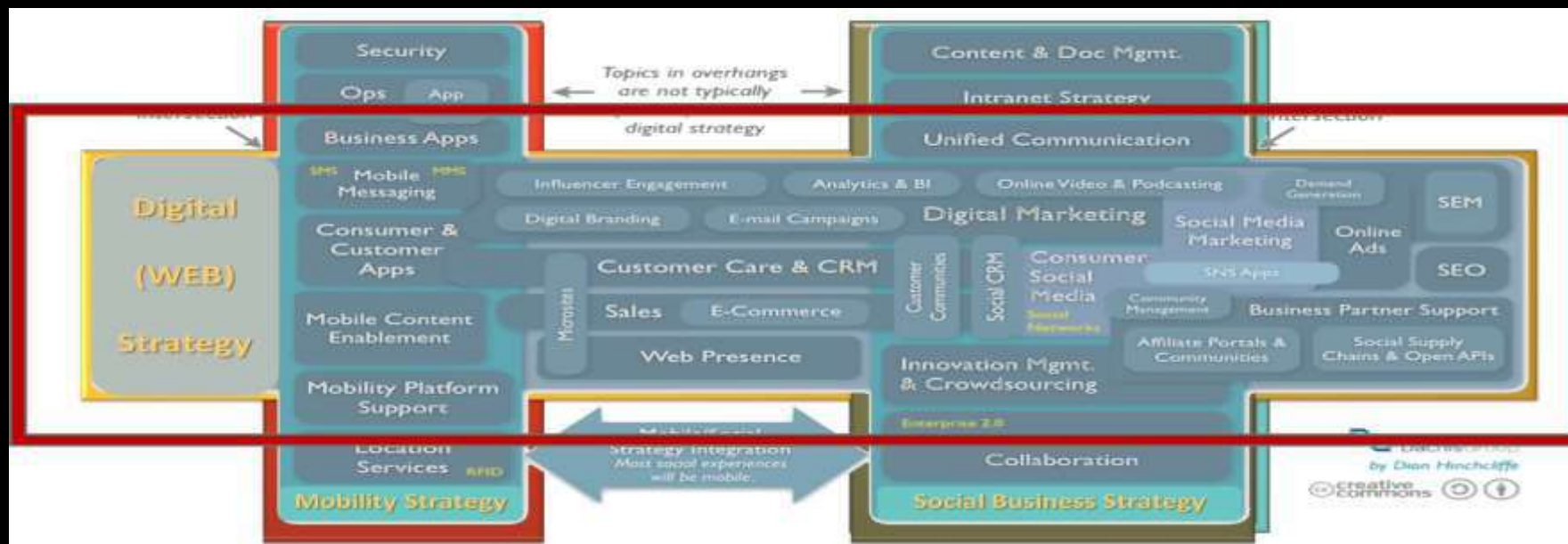


“To build the next generation of product experiences, you must digitally disrupt your own business.”

*James McQuivey, Ph.D.*



# Digital Strategy

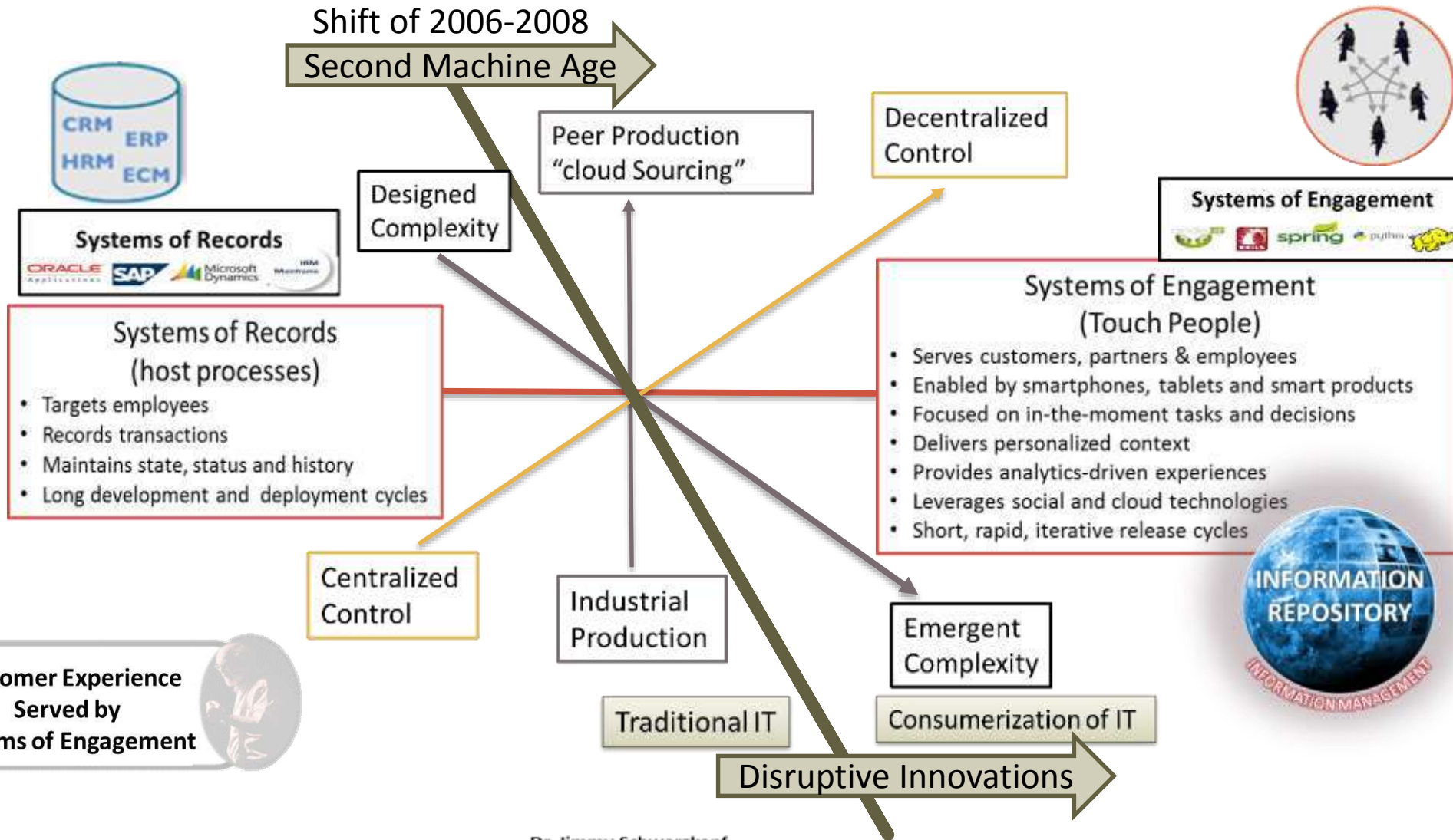


# So... What is changing?

	<b>2013</b>	<b>2020</b>
Lifespan of S&P 500 Company	<b>~15 years</b>	<b>~9 years</b>
Portion of Digital Natives in Workforce	<b>35%</b>	<b>75%</b>
Speed at which data in world doubles	<b>~2 years</b>	<b>3 months</b>
Core Focus of IT	<b>Systems of record</b>	<b>Systems of engagement</b>
Percentage of IT under CIO control	<b>66%</b>	<b>10%</b>

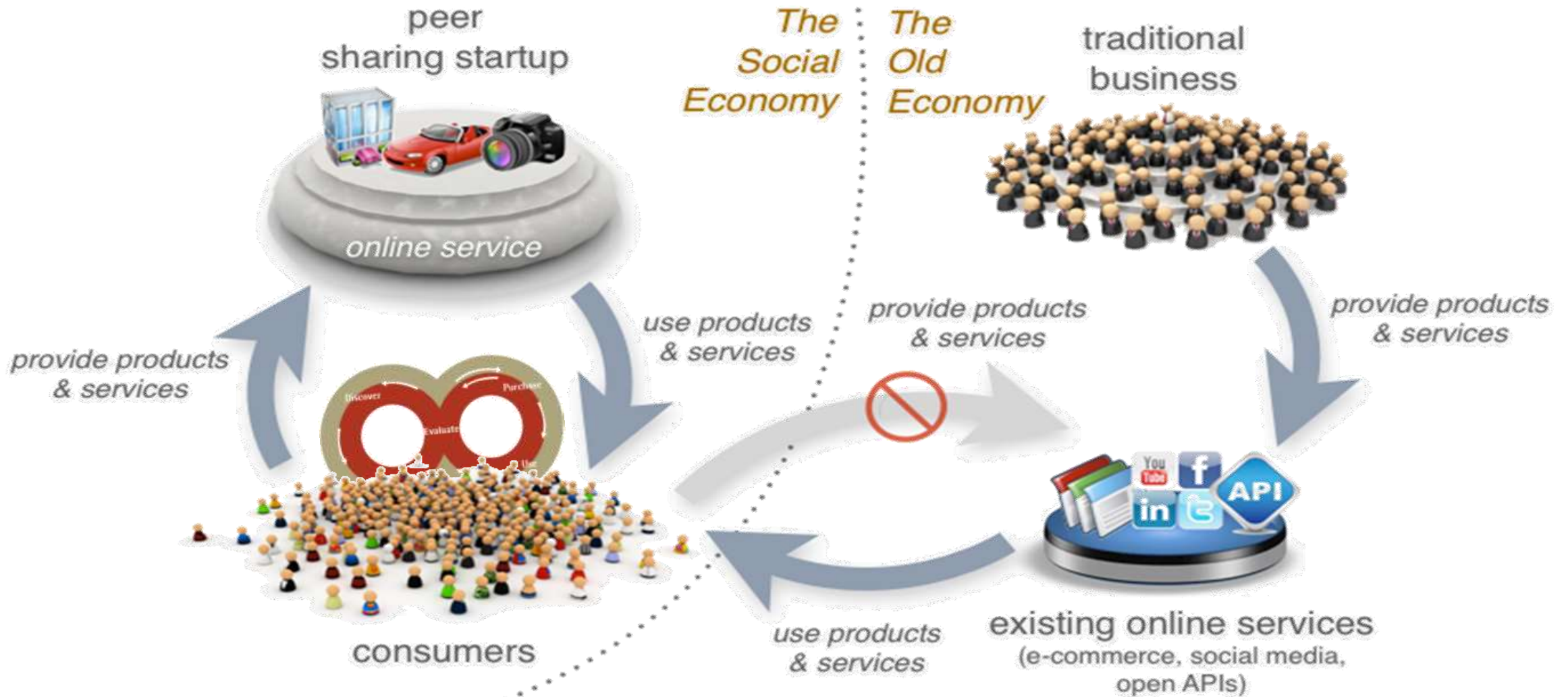
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# So.. What is changing?



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# Non-stop customer in the NEW Social Economy



From <http://zdnet.com/blog/line/ciffie>

# Non-stop customer in the NEW Social Economy



From <http://zdnet.com/blog/line/ctiff>

# emergence of the experience continuum

competitive advantage



operational advantage



Systems of Engagement



Systems of Records



Source :McKinsey  
[http://www.slideshare.net/McK\\_CMSOForum/big-data-and-big-profits](http://www.slideshare.net/McK_CMSOForum/big-data-and-big-profits)

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# CIO has 2 faces

operational  
advantage



competitive  
advantage





# IT is divided into two distinct "worlds"

Today's Data Center

Systems of Records



System of Records (transactions)

80-85% of Budget  
20-30% of CIO time

Productivity Optimization Processes  
Long Life Cycles

Long development and deployment cycles

Reduce Operating Expenses

operational advantage



competitive advantage



Software-Defined Data Center

Systems of Engagement



System of Engagement

15-20% of Budget  
70-80% of CIO time

Touch people  
In-moment decisions  
Personalized & in-context  
Social and analytics driven

short & rapid releases

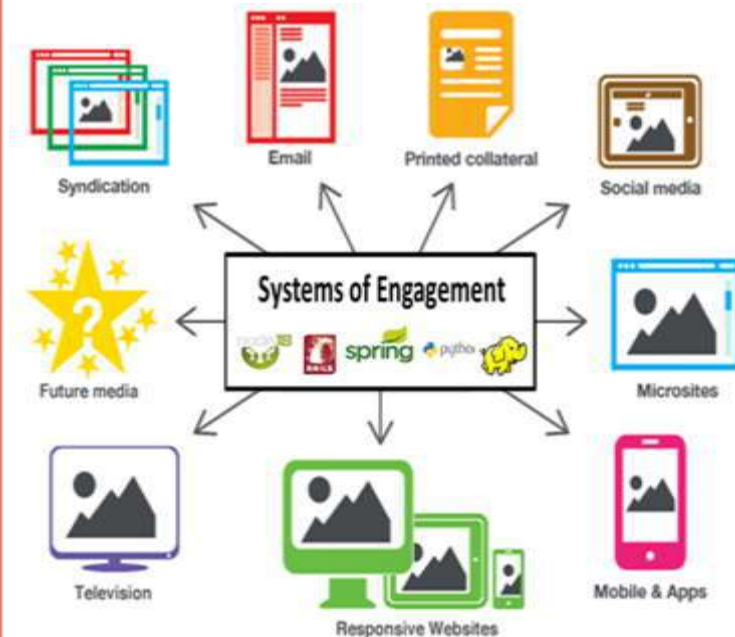
Invest in new systems

# Systems of Engagement: “Engaging and influencing “



## Systems of Engagement (Touch People)

- Serves customers, partners & employees
- Enabled by smartphones, tablets and smart products
- Focused on in-the-moment tasks and decisions
- Delivers personalized context
- Provides analytics-driven experiences
- Leverages social and cloud technologies
- Short, rapid, iterative release cycles



# Why APIs and Filters ???



# Goals of the “engagement systems”

Deliver “best of class” customer experience

Focus on personalization “push” mode

Design for people to people interaction models

Drive relevancy with context not content

Deliver value for customers (time is the constraint for customers)

Move mobile strategies from campaign to e-commerce

Address big and small data (from BI through streaming analytics)

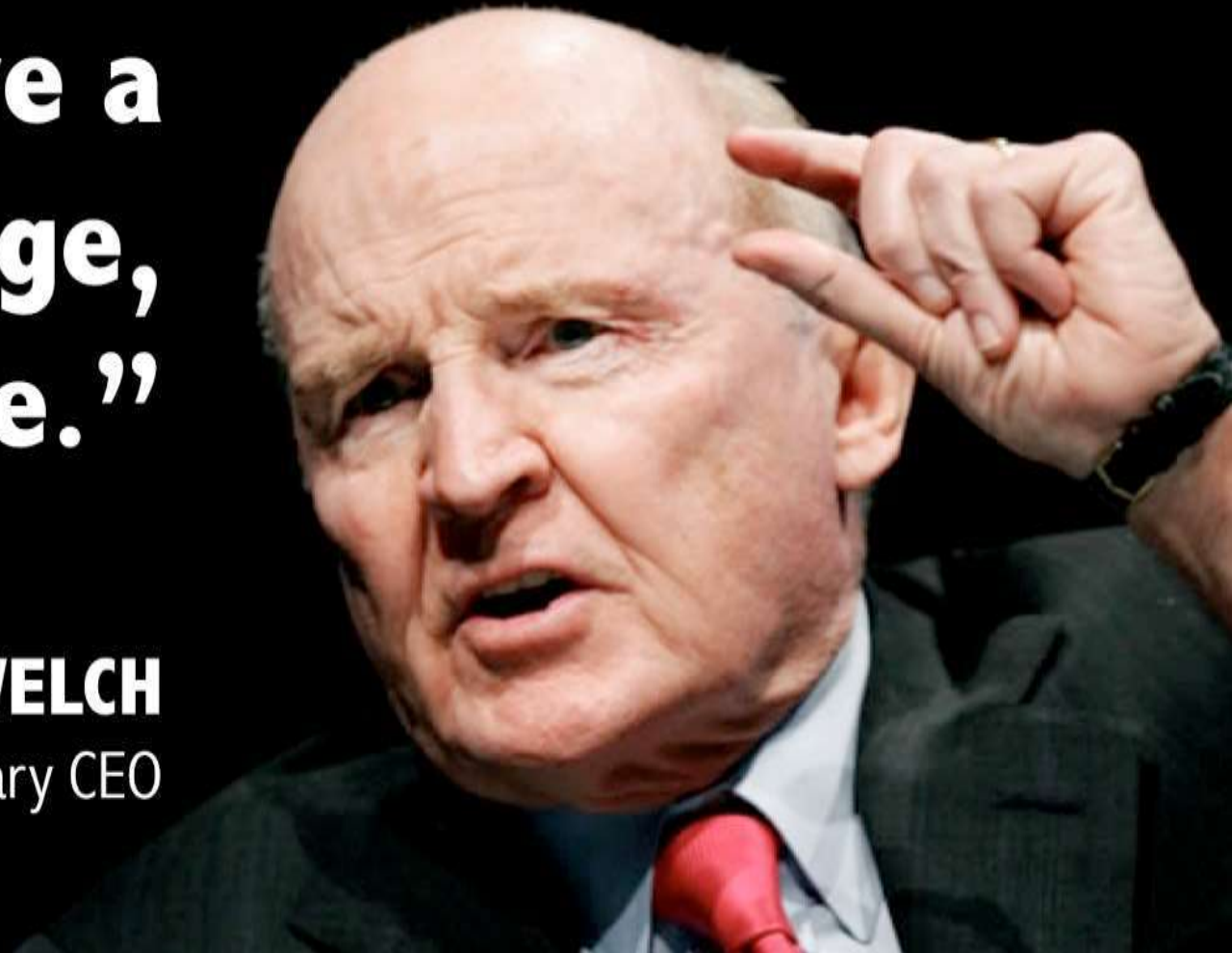
competitive  
advantage



*Engagement systems = competitive advantages*

**“If you don’t have a competitive advantage, don’t compete.”**

**JACK WELCH**  
legendary CEO

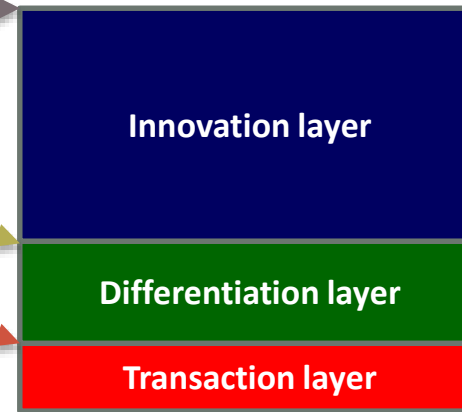
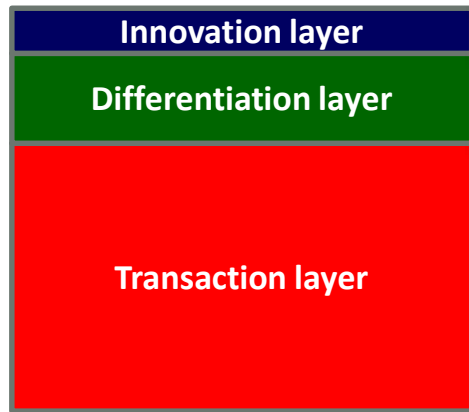


# CIO's priorities have to change !!!!!!!

IT department up to 2014



IT department after 2014



operational advantage

competitive advantage



IT as productivity tool

IT helps the enterprise "brand with software"

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# Mobility

siki.info **siki Summit 2014**

## "The IT Change: Better? Worse? No... Just Different".



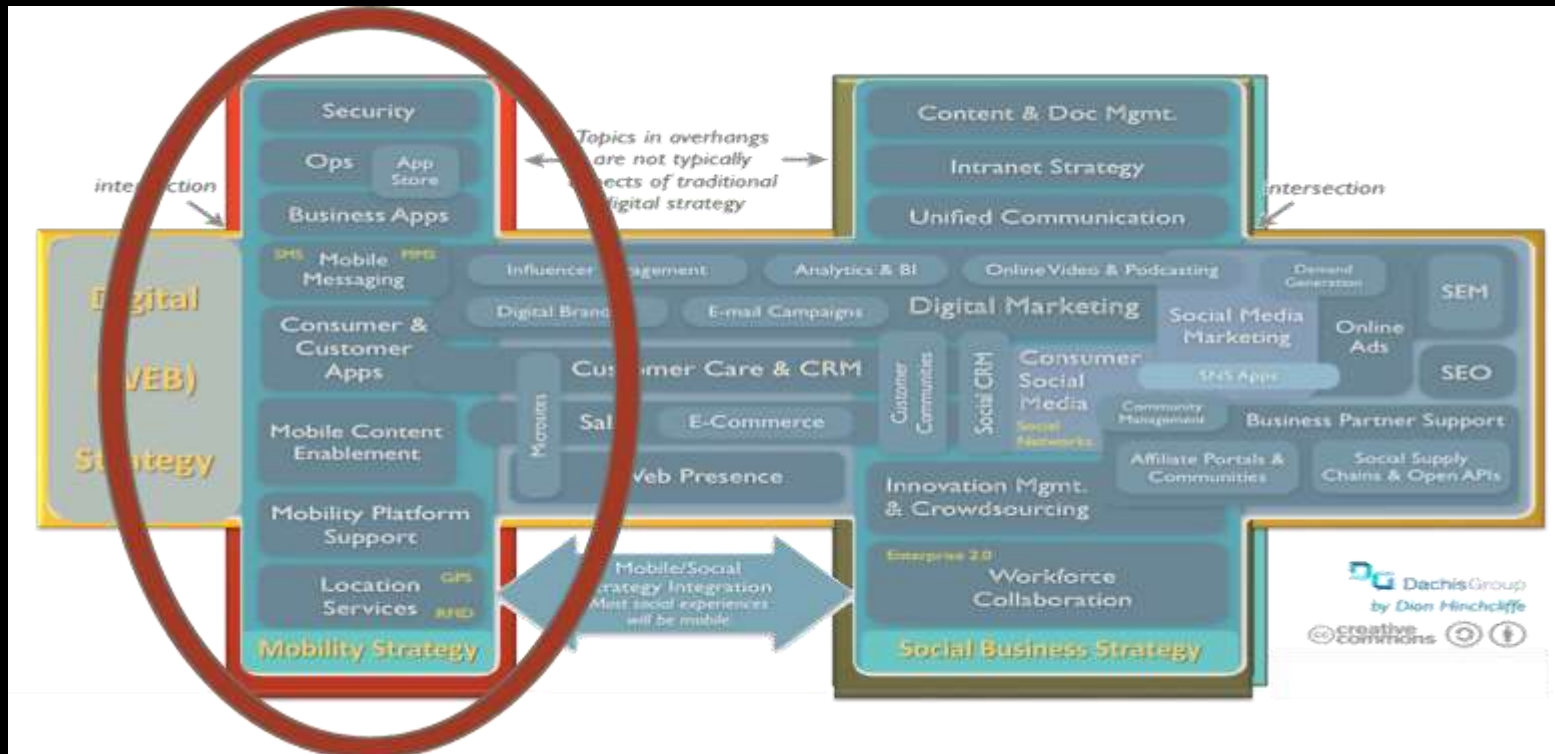
**bottom LINE**  
click here

## "MOBILITY STRATEGY"



**bottom LINE**  
click here

## CUSTOMER EXPERIENCE MANAGEMENT



# CUSTOMER EXPERIENCE based on "inaction" in mobile APPs ?

*If  
Mobility is  
The future of  
Service  
Delivery ?*



Why CIOs think that MOBILITY is not important?



*Smart mobile out-shipped PCs in 2011.  
Tablets alone will outsell PCs this year.*



# CUSTOMER EXPERIENCE based on "inaction" in mobile APPs ?

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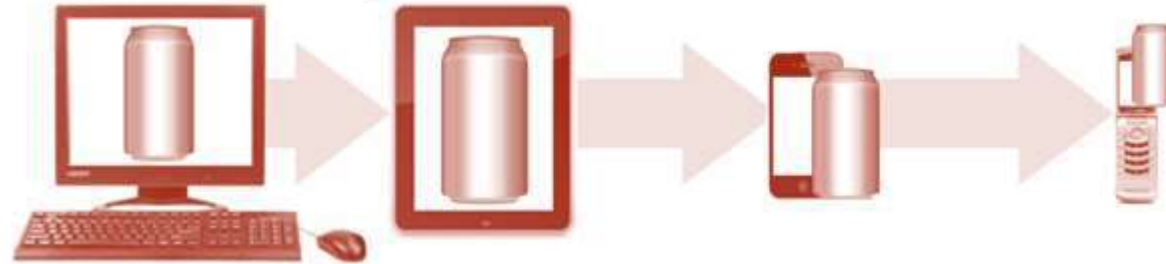
customers always have an experience  
(good, bad, or indifferent)



# Mobile isn't the future, it's the present!



## Graceful Degradation



In **GRACEFUL DEGRADATION** we start with:

1. Desktop site that takes advantage of every possible technology
2. We start finding workarounds and alternatives for scaling down for mobile APPs.

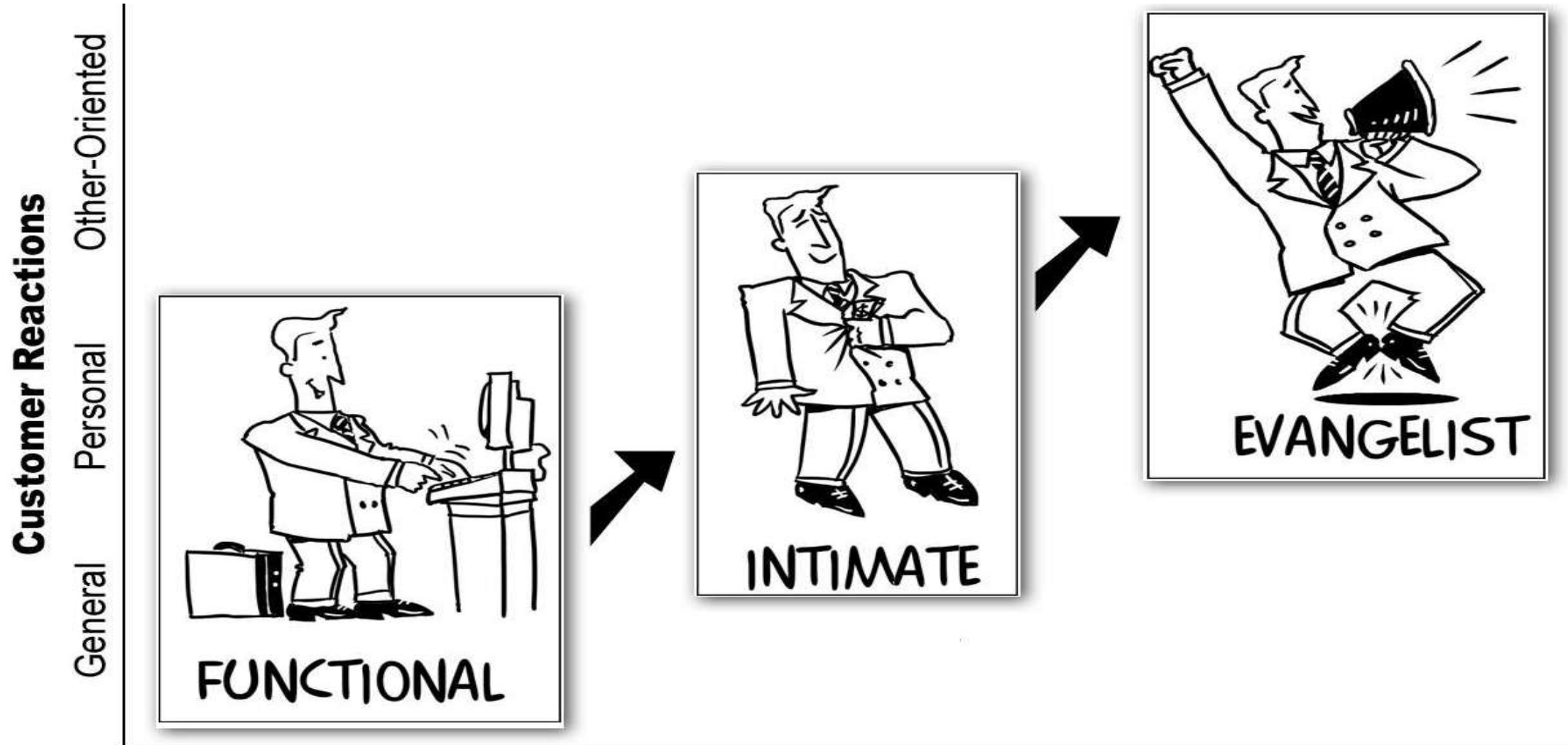
## Progressive Enhancement



In **PROGRESSIVE ENHANCEMENT** we start with:

1. minimal design for “mobile-phones”
2. make really impressive smartphone APPs
3. add technologies and platforms on an as-needed basis until we build a “full feature” desktop site

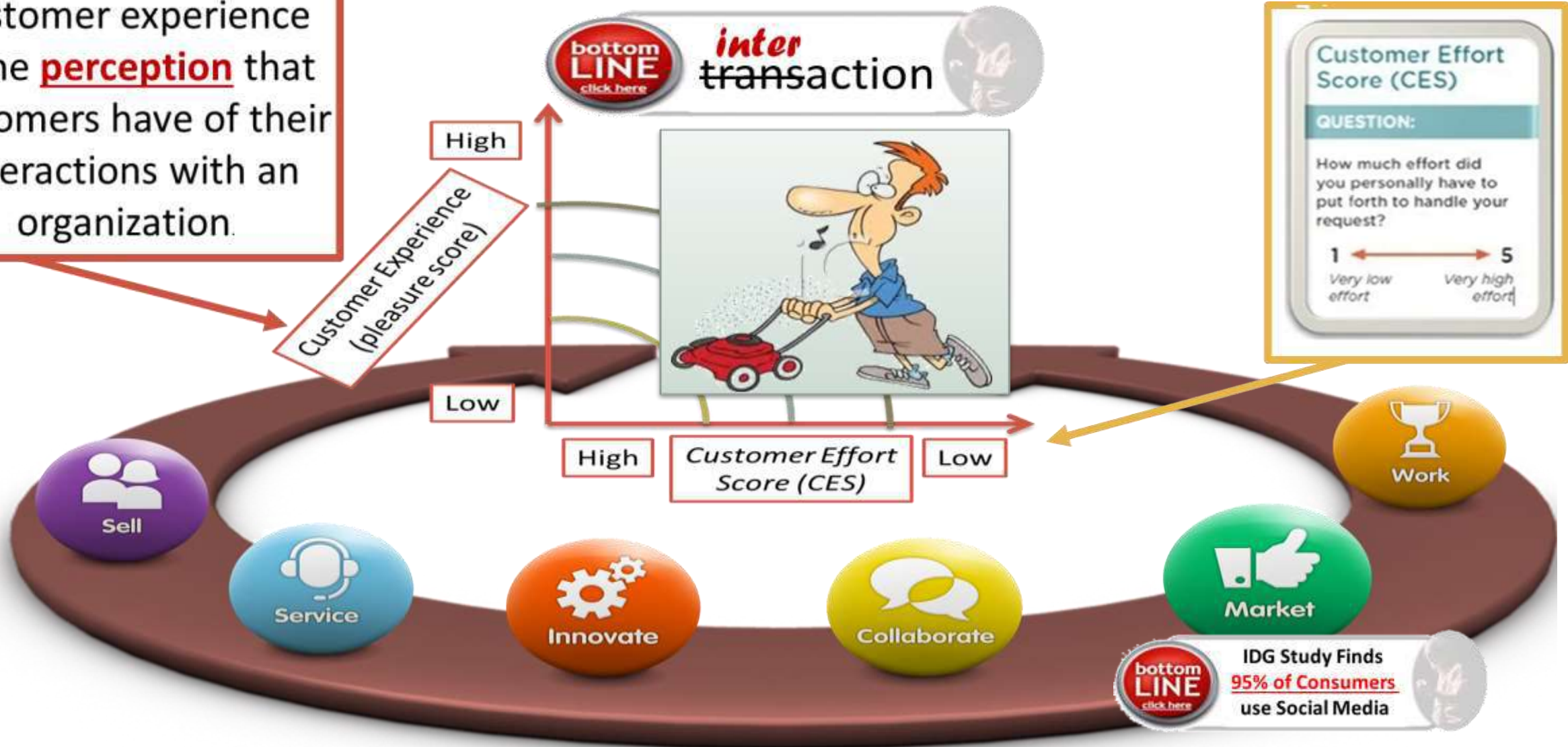
# Goals of "MOBILITY" applications



Copyright © 2013 by Marketspace LLC

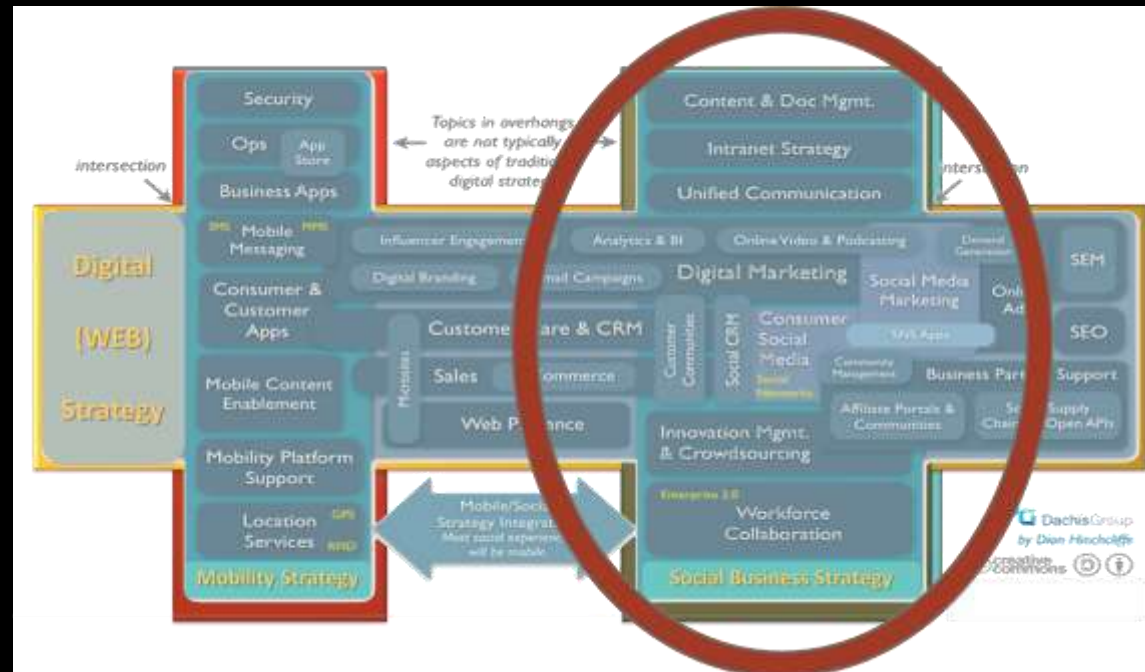
# How can you "Engage and influence" if you don't ask

Customer experience is the **perception** that customers have of their interactions with an organization.



bottom LINE click here IDG Study Finds 95% of Consumers use Social Media

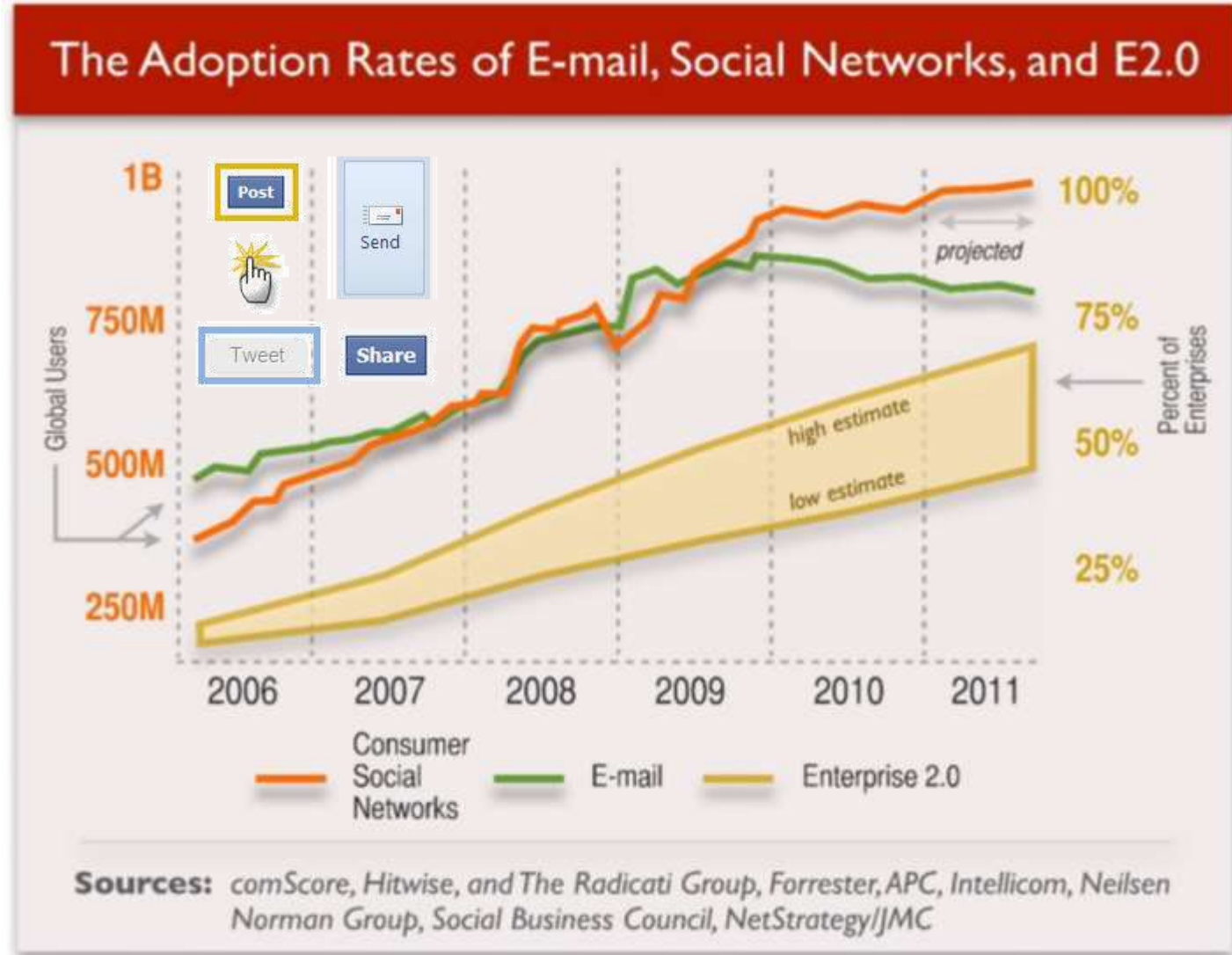
# Social Business



# Social World



**“SOCIAL”** is the **dominant** form of **“internet communication”**



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# *Social Economy & Crowd-sourcing*

The application of Open Source principles to fields outside of software

(act of taking a job traditionally performed by a designated agent and outsourcing it to an undefined, generally large group of people in the form of an open call)

CREATE

DESTROY

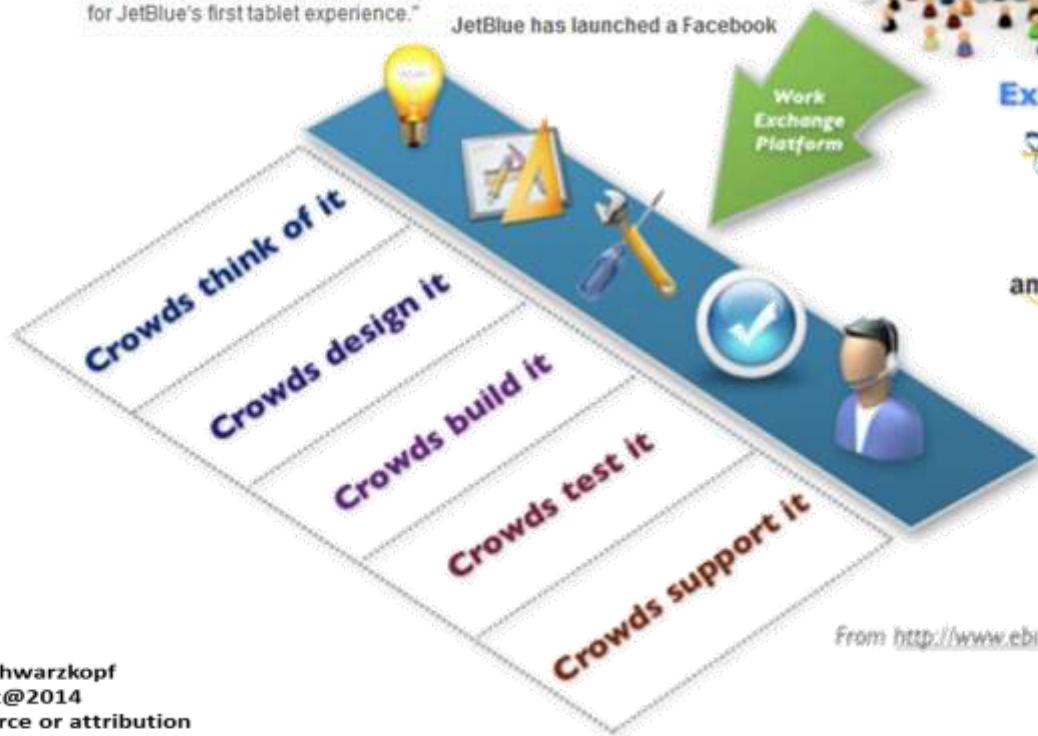
something that has or can have both favorable and unfavorable consequences



# Social Economy & Crowd-sourcing



for enterprises



From <http://www.ebizq.net/blogs/enterprise>

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# DANGER ?? Share secretly

## Secret – Speak Freely

By Secret, Inc.

Open iTunes to buy and download apps.

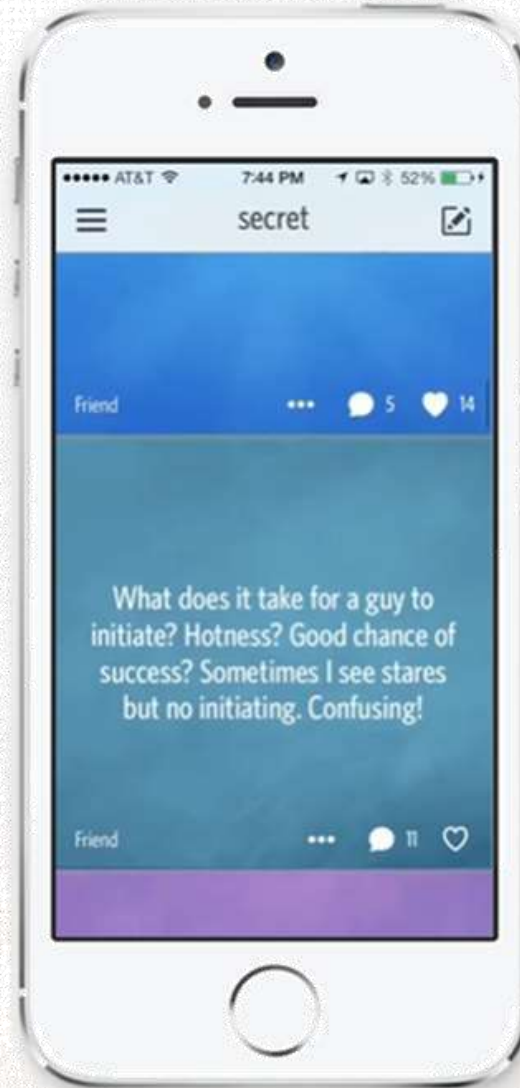


Share with friends  
anonymously.



### Be yourself.

Secret is a space to openly share what you're thinking and feeling with your friends. Speak freely, share anything.



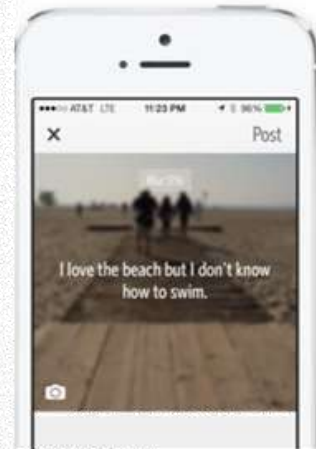
### Write beautifully.

Make your words stand out by adding a photo or color backdrop. Swipe to adjust until it feels right. Every post is unique.



### No names or profiles.

It's not about who you are — it's about what you say. It's not about bragging — it's about sharing, free of judgment.



### Great ideas spread.

The more people love your posts, the further they spread. Your thoughts can travel worldwide.

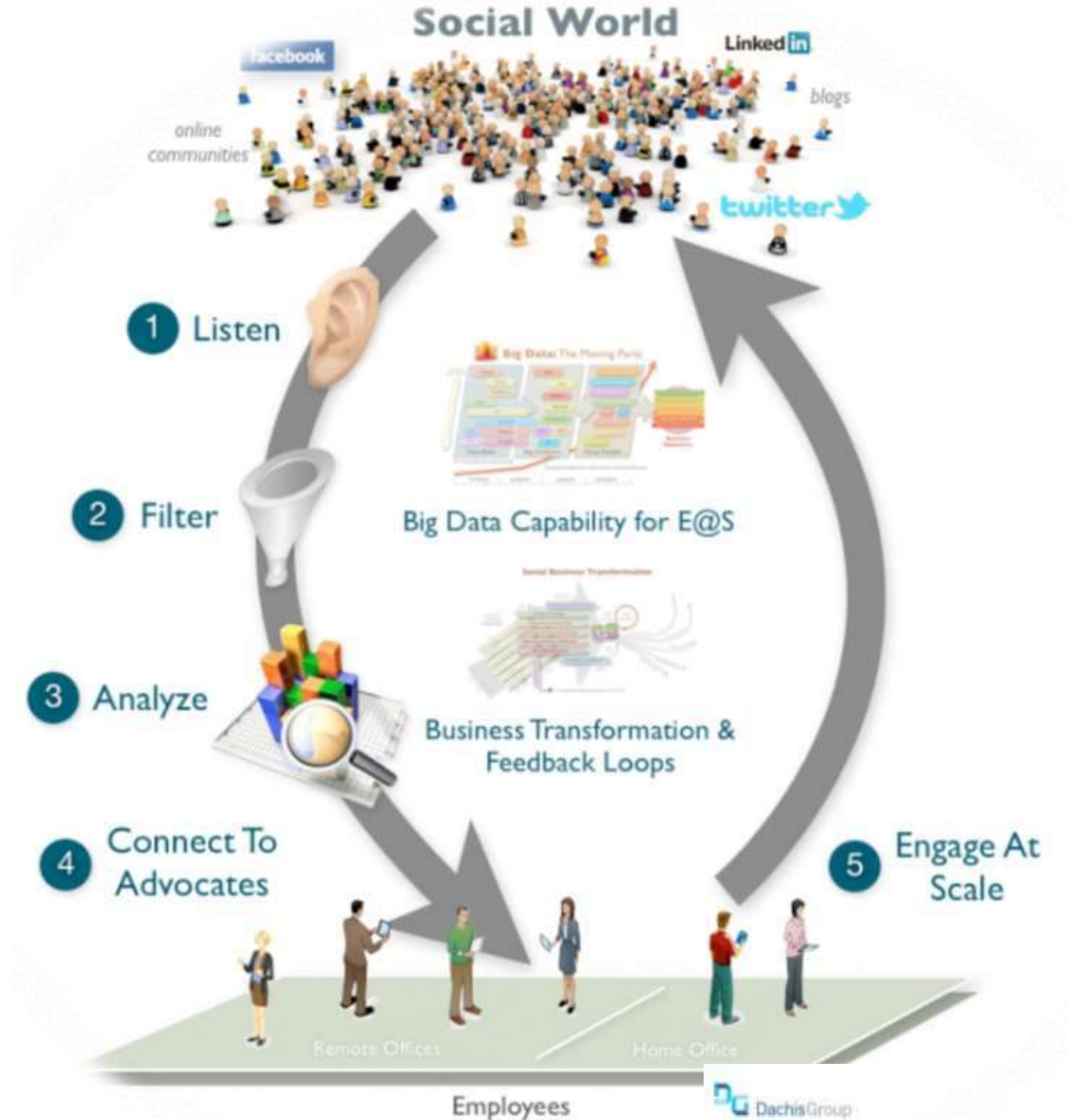
# Biggest challenge: engage at scale

-“social enterprises” show **higher**  
**(20%++) revenues and profit”**

- McKinsey and Frost & Sullivan

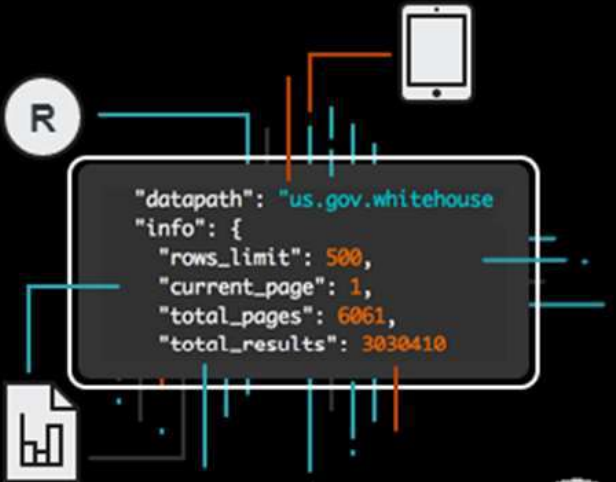


Israeli Enterprises are  
**2-4 years behind**  
the rest of the world






INFORMATION  
REPOSITORY



 **FILTERS** 

 **APIs** 

 **INFORMATION  
REPOSITORY** 

 **stki.info**  **stki Summer 2014** 

**"The IT Change:  
Better? Worse? No... Just Different".**

“When something online is free, you’re not the customer, you’re the product.”

“When something online is free, you’re not the customer, you’re the product.”

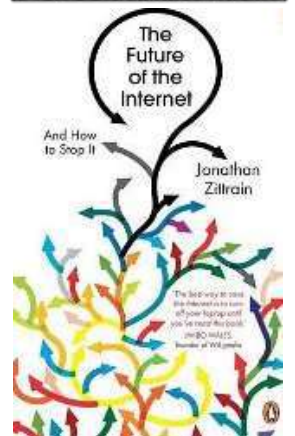


(advertisers are the clients, and the users enjoying free content are what’s being sold)

Online free services usually make money by extracting lots of data from users — and then selling that data, or using it for targeted availability of those users for advertising, to advertisers.



Prof. Jonathan Zittrain





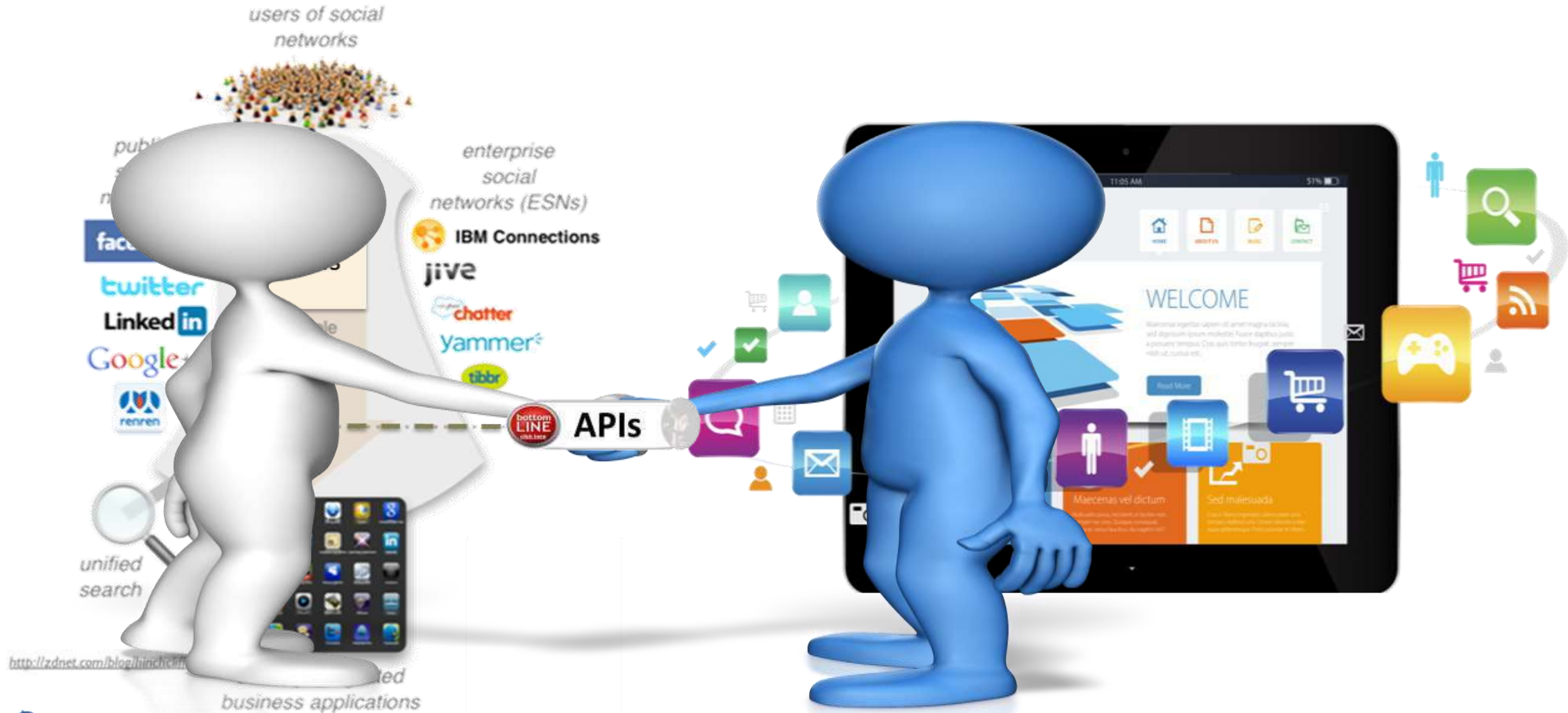
# Navigate the world of public data

largest collection of public data produced by governments,  
universities, companies, and organizations..

[Enigma.io](https://enigma.io)

Data that provides new insights into economies,  
companies, places and individuals

# APIs, APIs, APIs, APIs (an example)



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# APIs, APIs, APIs, APIs (an example)



<http://zdnet.com/blog/hinchcliffe>



# Information Repository why?

A **monetization strategy** looks at the ability to leverage the information repository developed or owned by an enterprise, and builds solutions around information for interested internal and external parties.

**EXTERNAL MONETIZATION** strategy leverages the information repository to create new revenue streams through APIs (API Economy)

## APIs & FILTERS

**INTERNAL MONETIZATION** strategy focuses on using the information repository through APIs and FILTERS to:

- enhance customer experience
- cross-selling and loyalty
- improve performance
- drive down working capital costs
- etc.



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# DATA as an ASSET (CAPEX)

## ALL organizations create information assets

Take data from being siloed and unmanaged  
to become an

Information Repository managed end-to-end through a Data Supply Chain



DATA is a premier IT asset

INFORMATION is a premier business asset

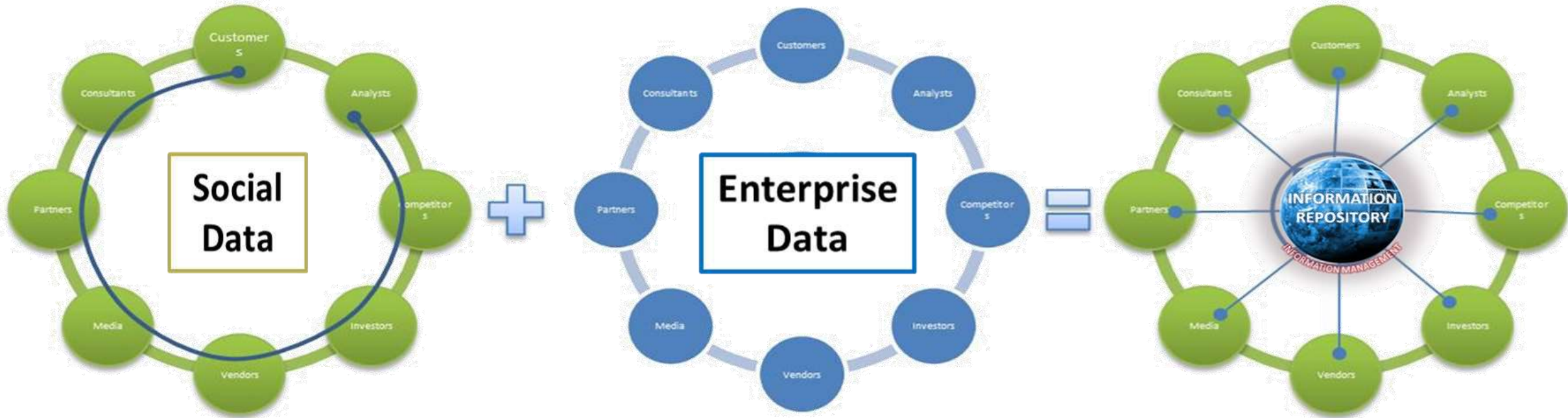
## “What’s the difference between information and data?”

It’s like the difference between  
**knowing Julia Roberts’ phone number**  
and  
**Knowing Julia Roberts”**

- Woody Allen



# Social + Enterprise = Information Repository (Big Data)



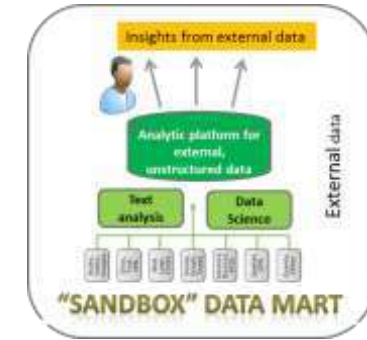
**Unstructured** content including Text, Audio, Video, Images on the Web, Social Media and other public channels

**Structured** within the Enterprise that helps run business today e.g. Client, Product, Trade or Transaction

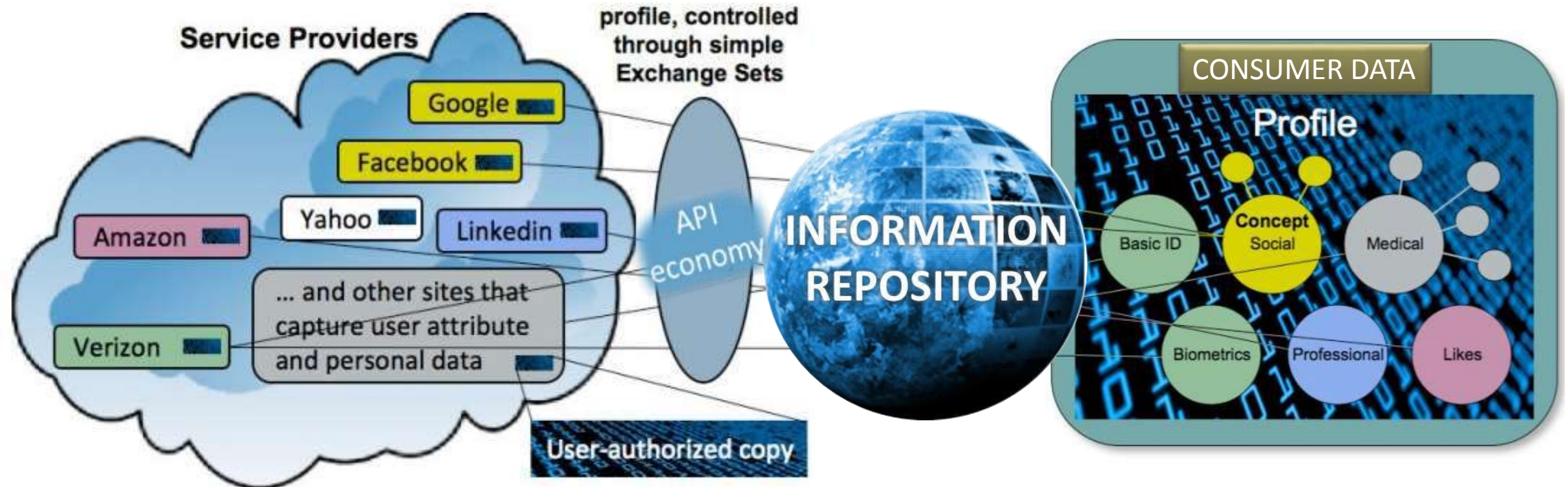
**Tying together** your Enterprise Data Models with the value that lies in the Unstructured Data around your firm

# Building an Information Repository

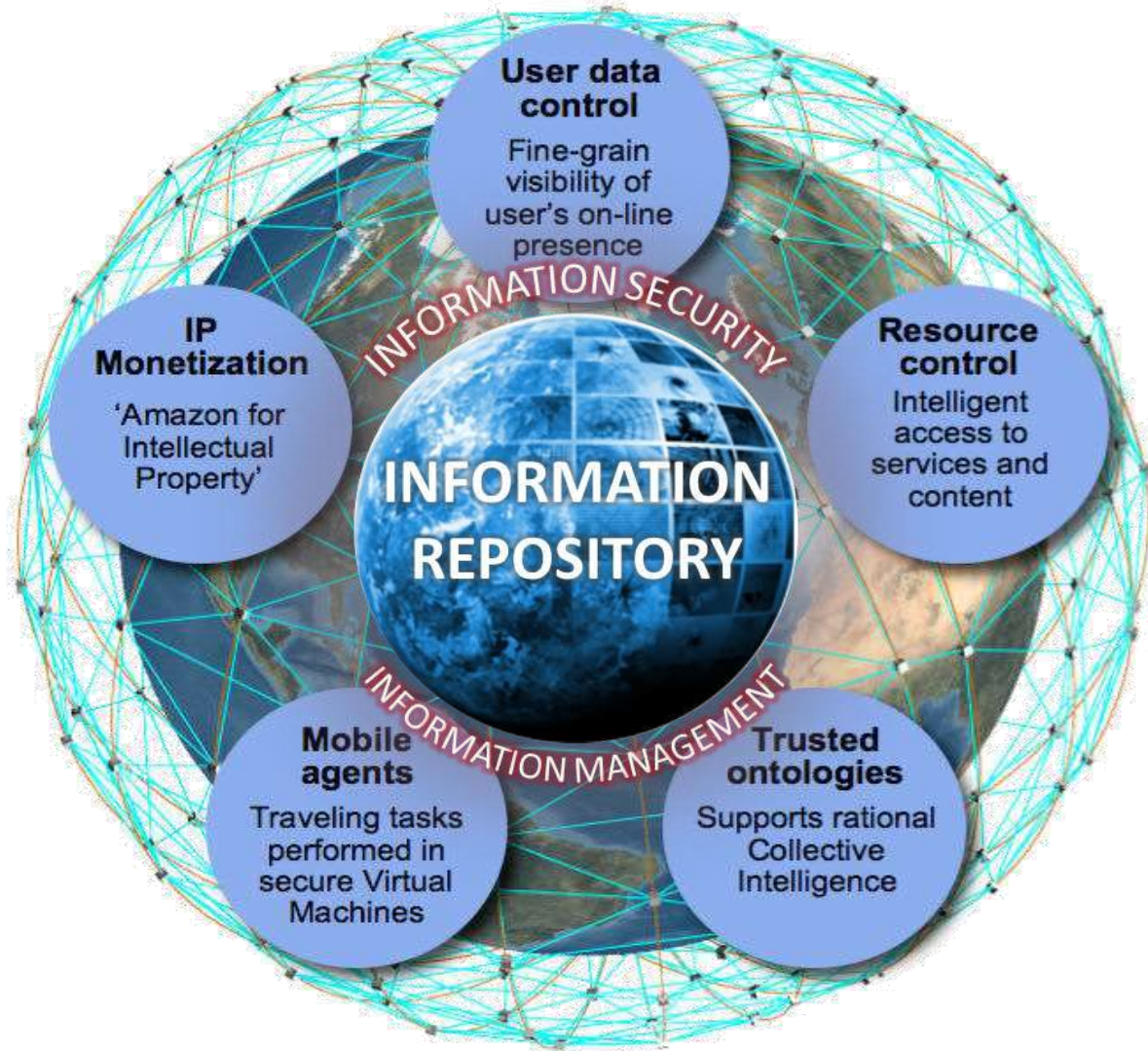
## APIs & FILTERS



# API economy enables the context aware internet



# Context-aware internet based on "Bring your own ID" (BYOID)



## Bring Your Own ID (BYOID)

will bring consumerization into enterprise security

Great to have you with us!

	CONNECT WITH FACEBOOK
	CONNECT WITH GOOGLE+
	CONNECT WITH LINKEDIN

OR

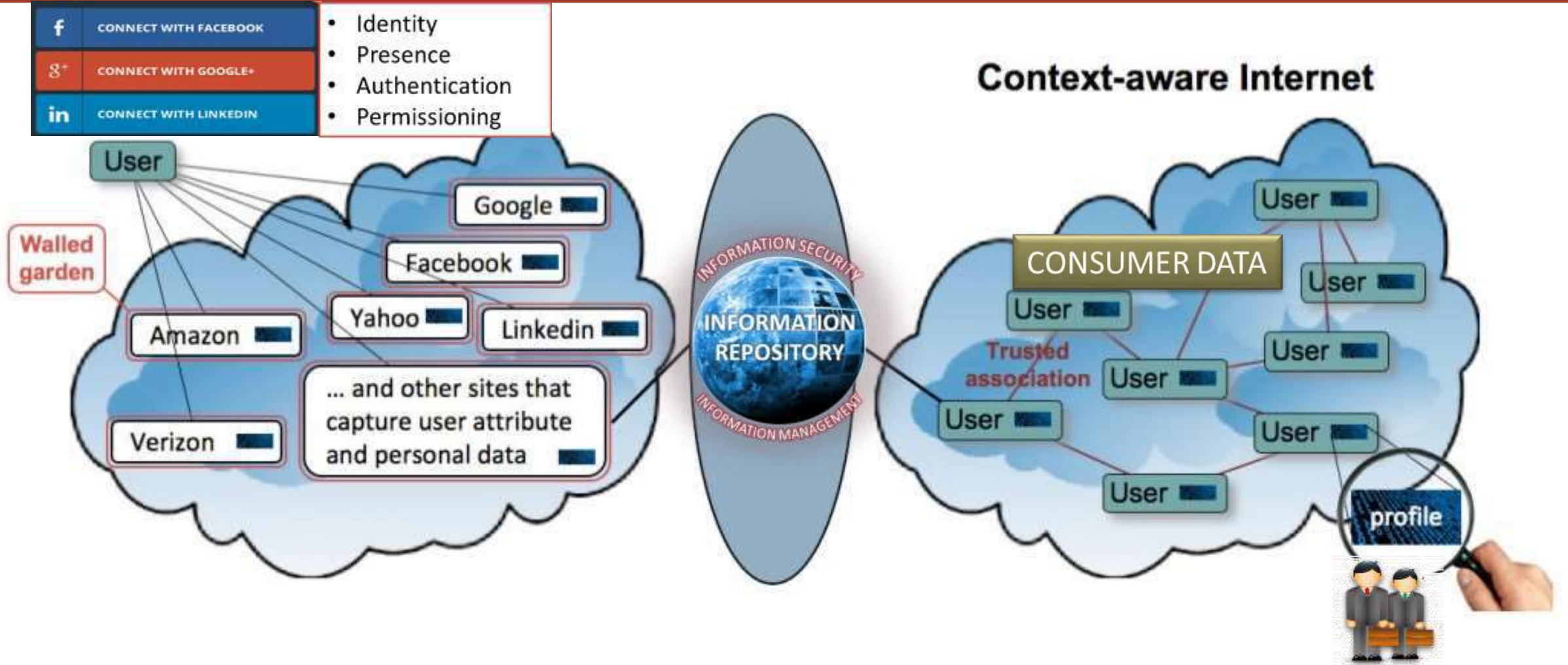
Email	<input type="text"/>
Password	<input type="password"/>
Display name	<input type="text"/>
	<input type="text" value="n/Username"/>
Age	<input type="text"/>
<input type="checkbox"/> I accept the <a href="#">terms of service</a> .	

Easily sign up for an account using your pre-existing Facebook, Google+ or LinkedIn accounts. Your profile name from those accounts will become your username.

Sign up for an account using your email address. You can choose your display name as Username with this option.

- Identity
- Presence
- Authentication
- Permissioning

# Context-aware (based on a Information Repository) internet



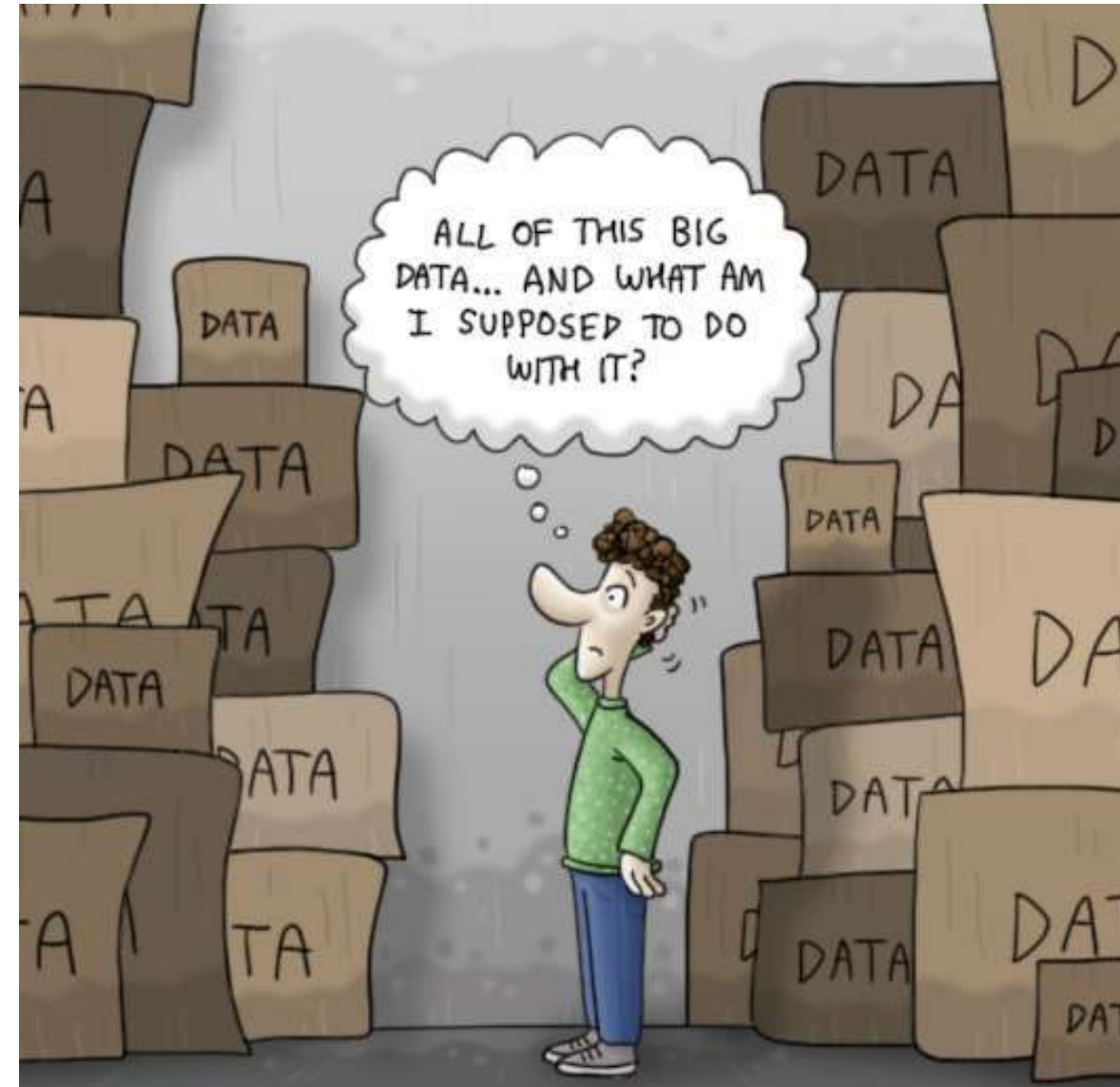


# Consumer Data



**“Consumer data will be the biggest differentiator in the next two to three years. Whoever unlocks the reams of data and uses it strategically will win.”**

Angela Ahrendts, CEO of Burberry



# Fire hose effect: in “information repository”

“Information overload is not the problem. It’s filter failure.” - Clay Shirky

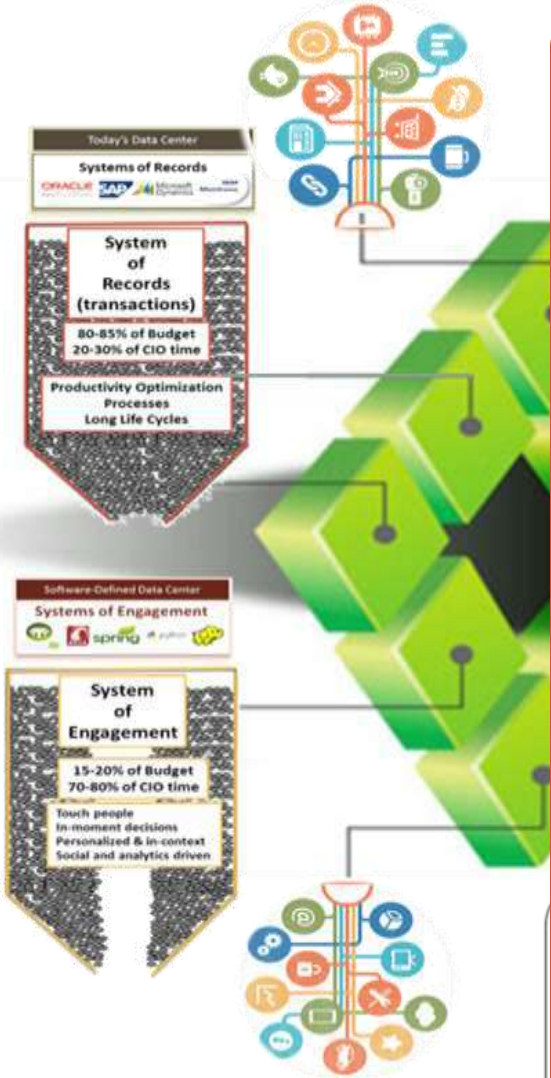


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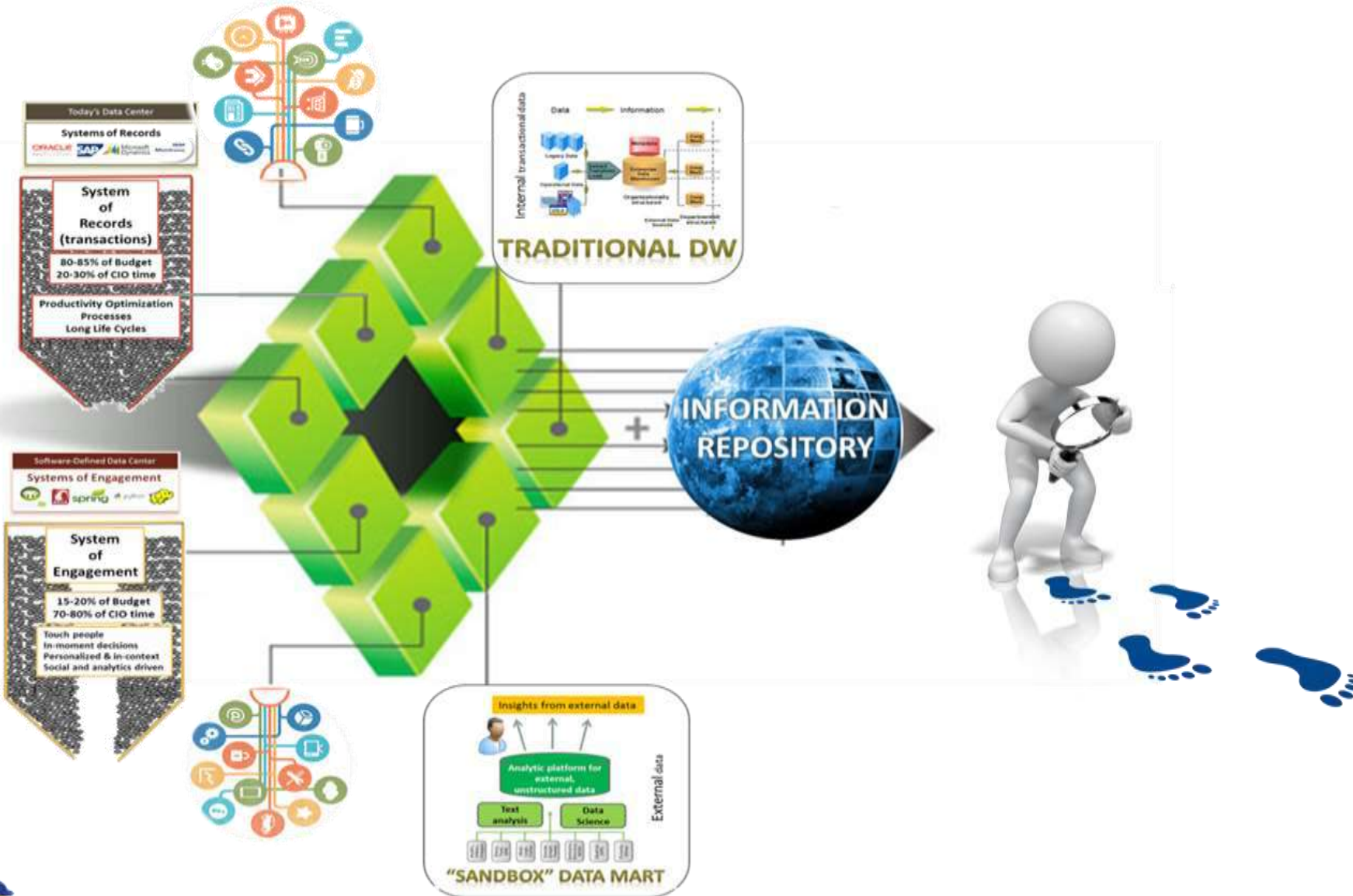
# What do we do with the "Information Repository"

**"To attain knowledge, add things everyday.**  
**To attain wisdom, remove things every day."**

Lao Tzu  
Laozi



# What do we do with the "Information Repository"



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# What do we do with the "Information Repository"



## Tools

- Publishing
- Search
- Fulfillment
- conversation

## Engagement Systems

- Portals
- Mobile
- Web
- others

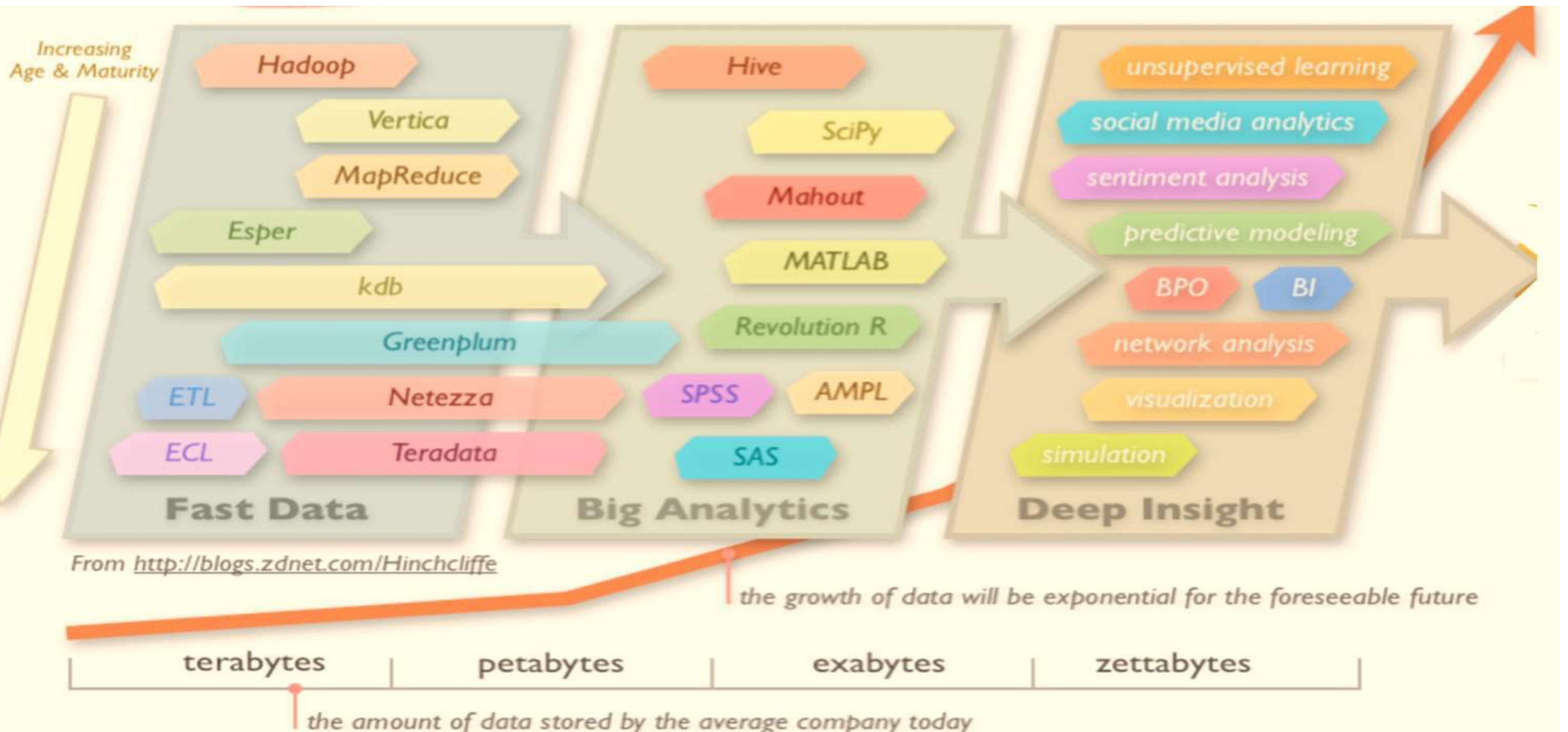
## Analytical Systems

- BI
- Data Mining
- others

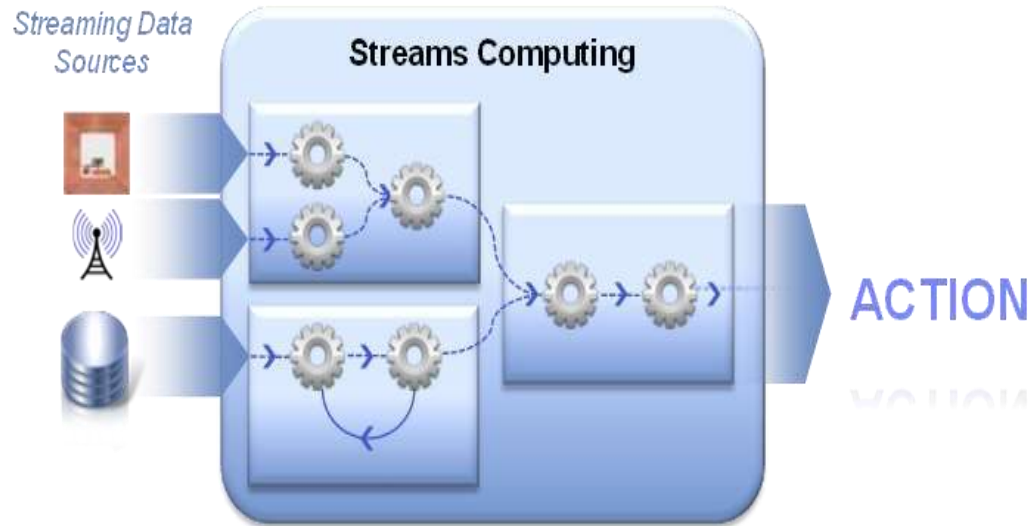
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# BIG DATA: the Moving Parts



# Streaming Analytics with Big Data Technology



Streaming analytics tools harness the natural resource of streaming data and turn it into actionable insight.

Many sources of streaming data, but unable to take full advantage of them:

- ❖ simply too much data to collect and store before analyzing it
- ❖ timing – by the time they store data on disk, analyze it, and respond – it's too late.

The benefits of streaming analytics are :

- ❖ cost savings by analyzing all the data and only storing what is necessary
- ❖ ability to detect and make real-time decisions

# CLOUD

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stki Summit 2014

**“The IT Change:  
Better? Worse? No... Just Different”.**



## “CLOUD SERVICES STRATEGY”





# New Platforms are client/cloud models

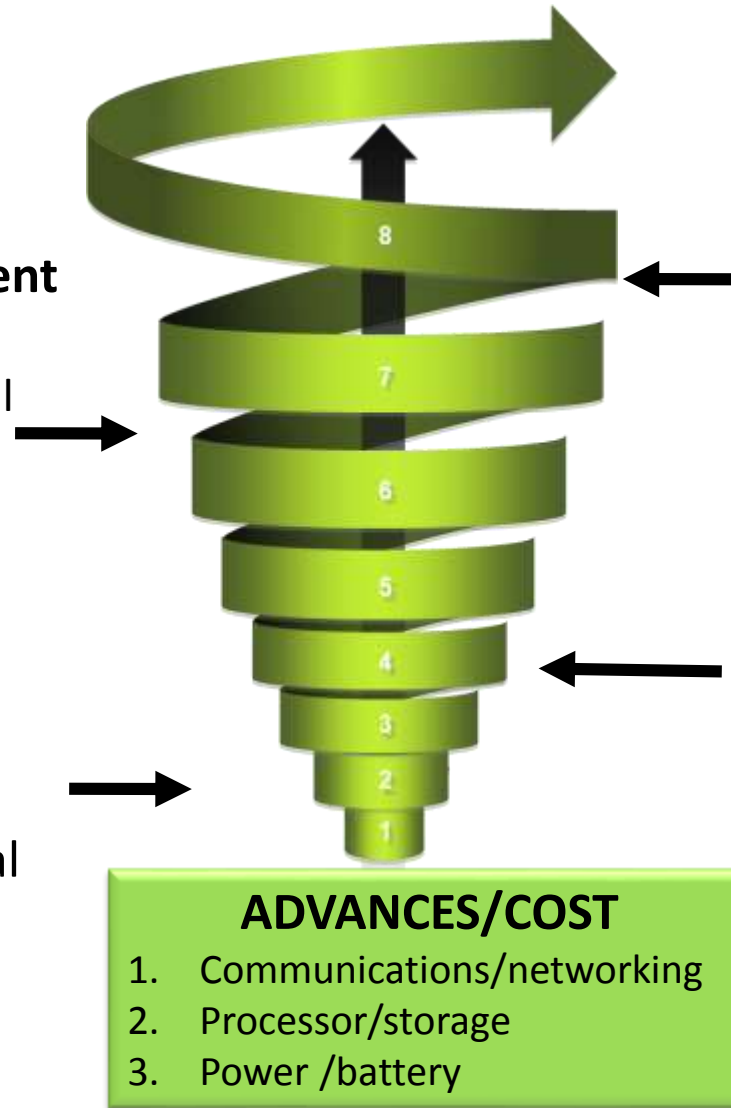
## Terminals V 2 WEB/Browser client

2 types of applications:

1. **Off-line:** processing and storage local (*not apps*)
2. **Always connected:** browser based applications

## Terminals V1

Always connected  
I/O only at the local



## Client/Cloud

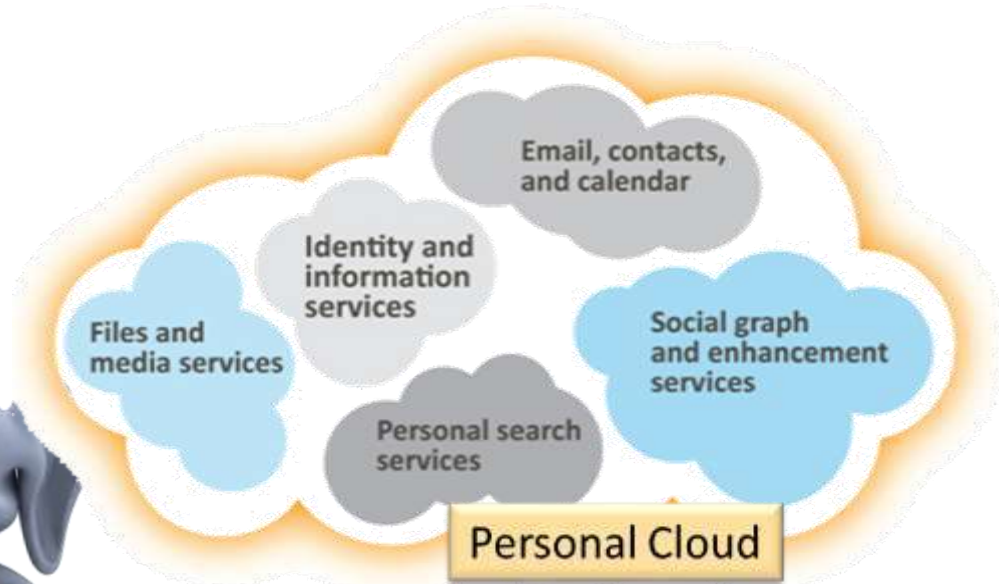
- ❖ User most of the time connected
- ❖ **APP server** is on the cloud
- ❖ APP used by multiple clients devices
- ❖ **APP client** installed on all devices
- ❖ Some work **off line**
- ❖ Move from APP to **SERVICE**

## Client/Server

2 types of applications:

1. **Off-line:** processing and storage local
2. **Always connected :** data moves; processing@server; GUI@client

# Personalization and "personal" cloud



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# New Computer Services Form ?

*Every decade a new, lower priced computer class forms with new programming platform, network, and interface resulting in new usage and industry.*

Gordon Bell



## What's new in the "cloud" model ?

### Acquisition Model:

Based on purchasing of services

### Business Model:

Based on pay for use

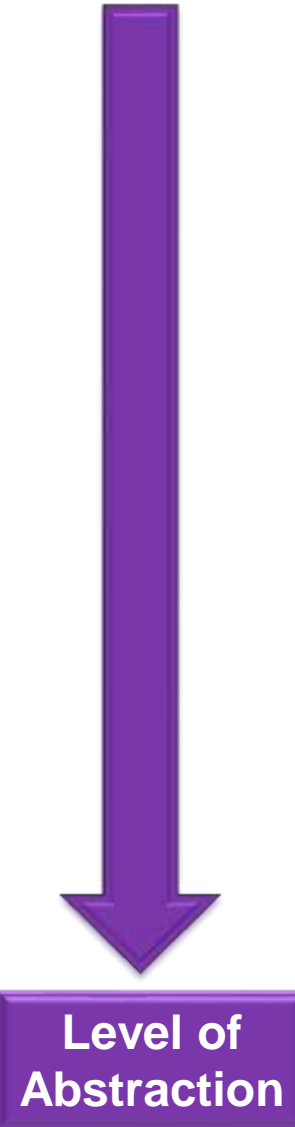
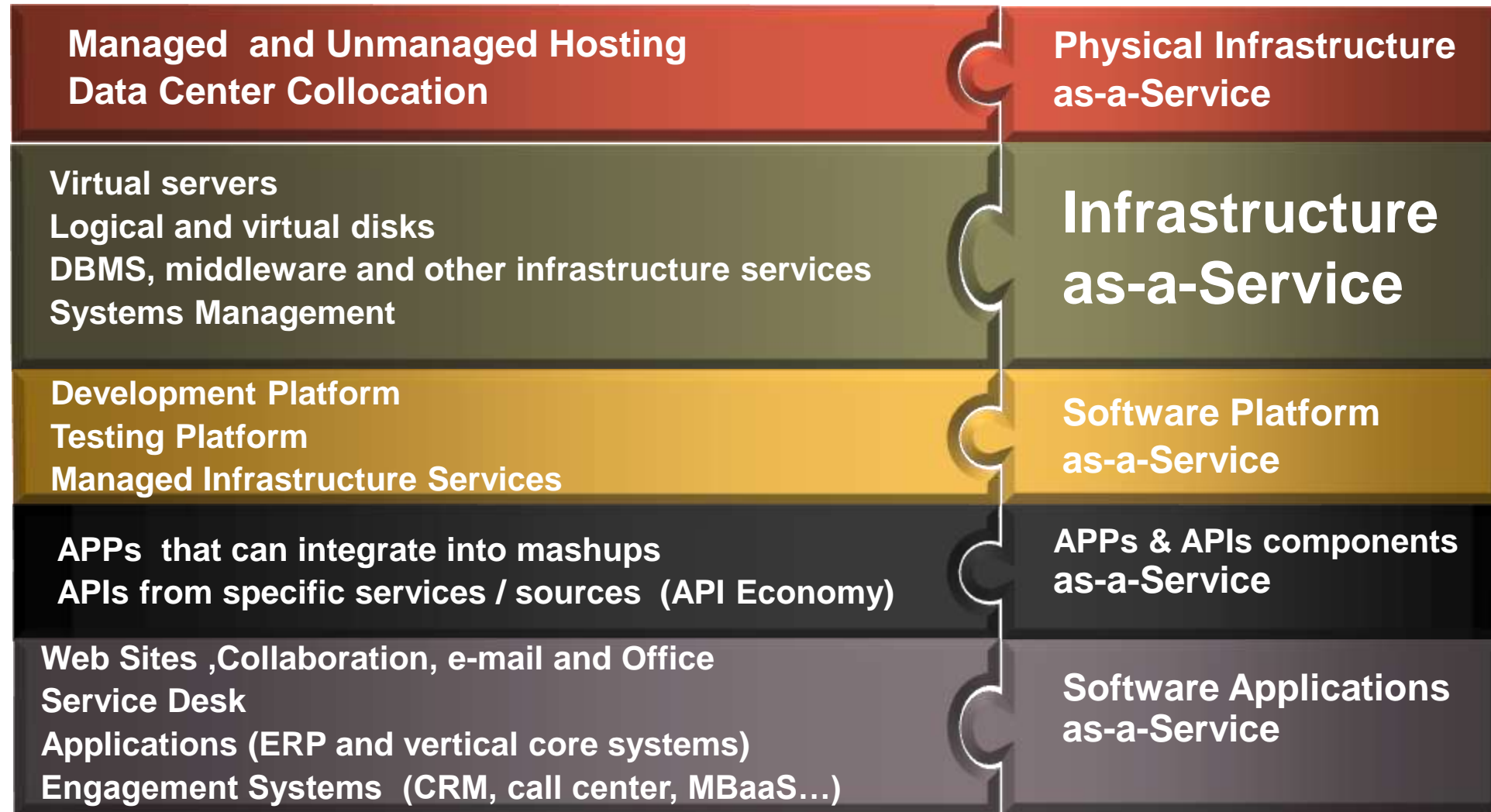
### Access Model:

Over the Internet to ANY device

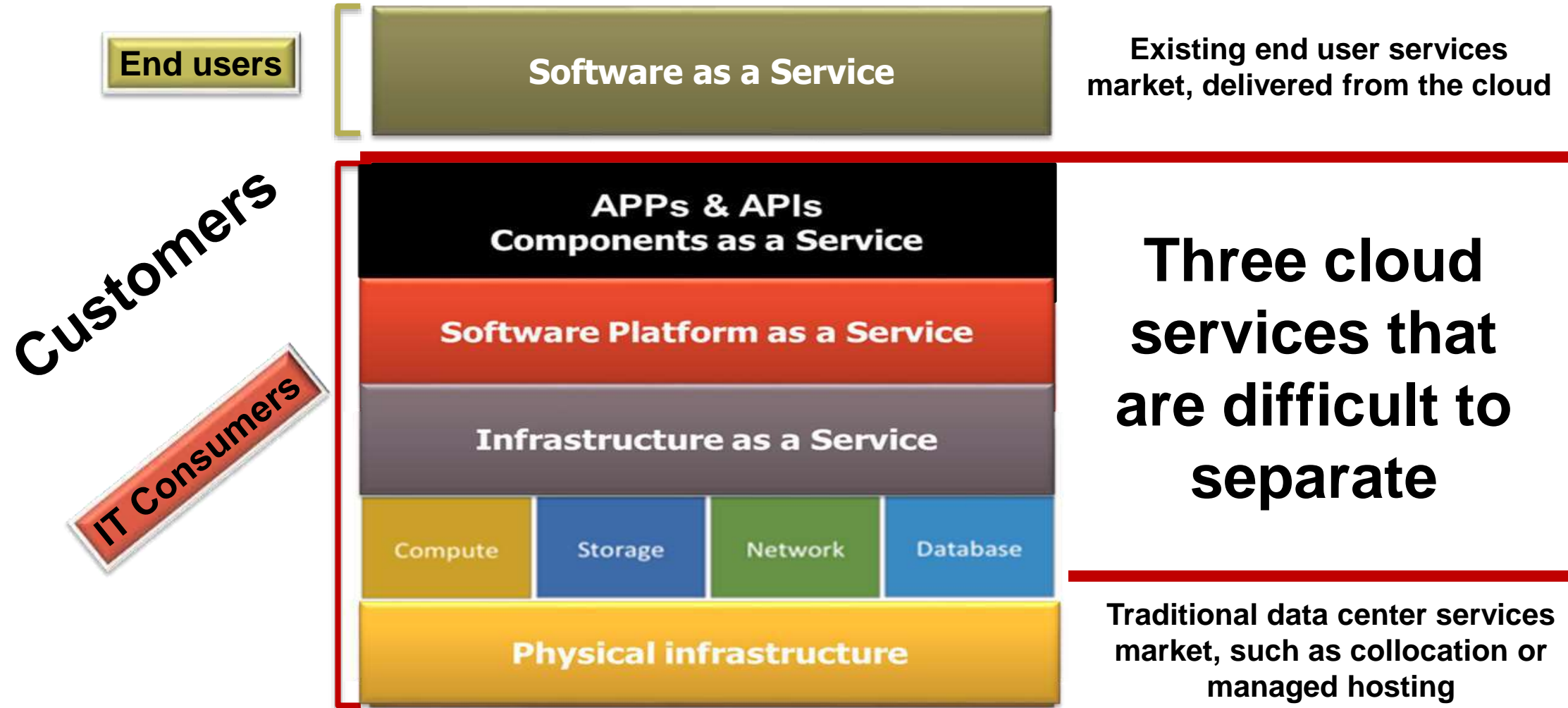
### Technical Model:

Scalable, elastic, dynamic, multi-tenant, & sharable

# 5 XXXX as a Service



# Where IT's Cloud Focus? Infrastructure/Platform Capabilities



# Cloud Deployment Models

The cloud infrastructure is operated within the consumer's organization.

*Internal  
(private) cloud*

The cloud infrastructure is jointly owned by several organizations and supports a specific community that has shared concerns (e.g., mission, security requirements, policy, and compliance considerations)..

*Community  
cloud*

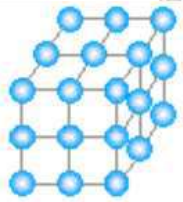
The cloud infrastructure is owned by an organization selling cloud services to the general public or to a large industry group.

*Public cloud*

The cloud infrastructure is a composition of two or more clouds (internal, community, or public) that remain unique entities but are bound together by standardized or proprietary technology that enables data and application portability.

*Hybrid cloud*

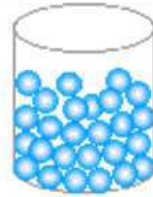
# INSTANCES of "hybrid services"



**SOLID**

Hybrid Services  
always together  
capacity/performance  
instances and defined  
service combinations

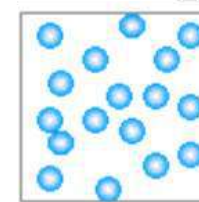
Static Cloud Services



**LIQUID**

Composition of  
Hybrid Services  
based on pre-defined  
events and service  
combinations

Ad-Hoc Cloud Services



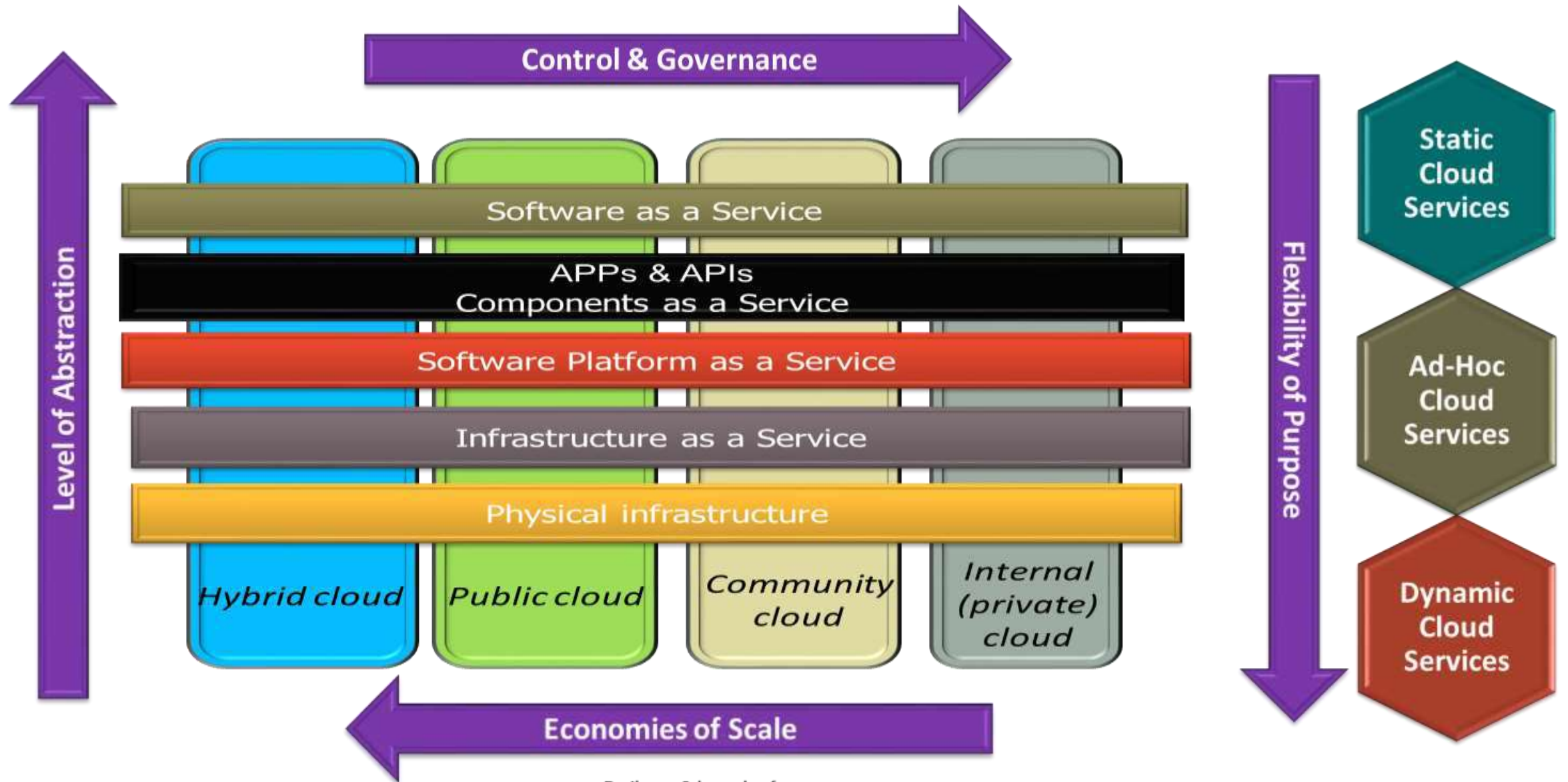
**GAS**

Composition of  
Hybrid Services  
based on runtime  
dynamic processing  
needs and pricing

Dynamic Cloud Services



# Cloud Computing Service Models



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# From STKI Summit 2013 (last year)

**Collectivism**  
*man must be connected to a collective and collective thought for the sake of **'the common good'***

**Individualism**  
*The pursuit of his **own rational self-interest** and of his **own happiness** is the highest moral purpose of his life.*

CoIT "consumerization" of IT services

CoIT: old "IT Centric" vs. "ME" Centric

IT User	PERSONALIZED	IT Consumer
<b>Dependent</b>	WORK STYLE	<b>Self-Service</b>
<b>The Office</b>	LOCATION	<b>Anywhere</b>
<b>Sunday to Thursday 9:00 - 17:00</b>	WORK HOURS	<b>24/7</b>
<b>Devices</b>	NEEDS	<b>Flexibility Scalability</b>

**IT USERS** have matured to become **IT CONSUMERS**

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**IT User** → **IT Consumer**

**IT is KING** (IT User) vs. **Individual is KING** (IT Consumer)

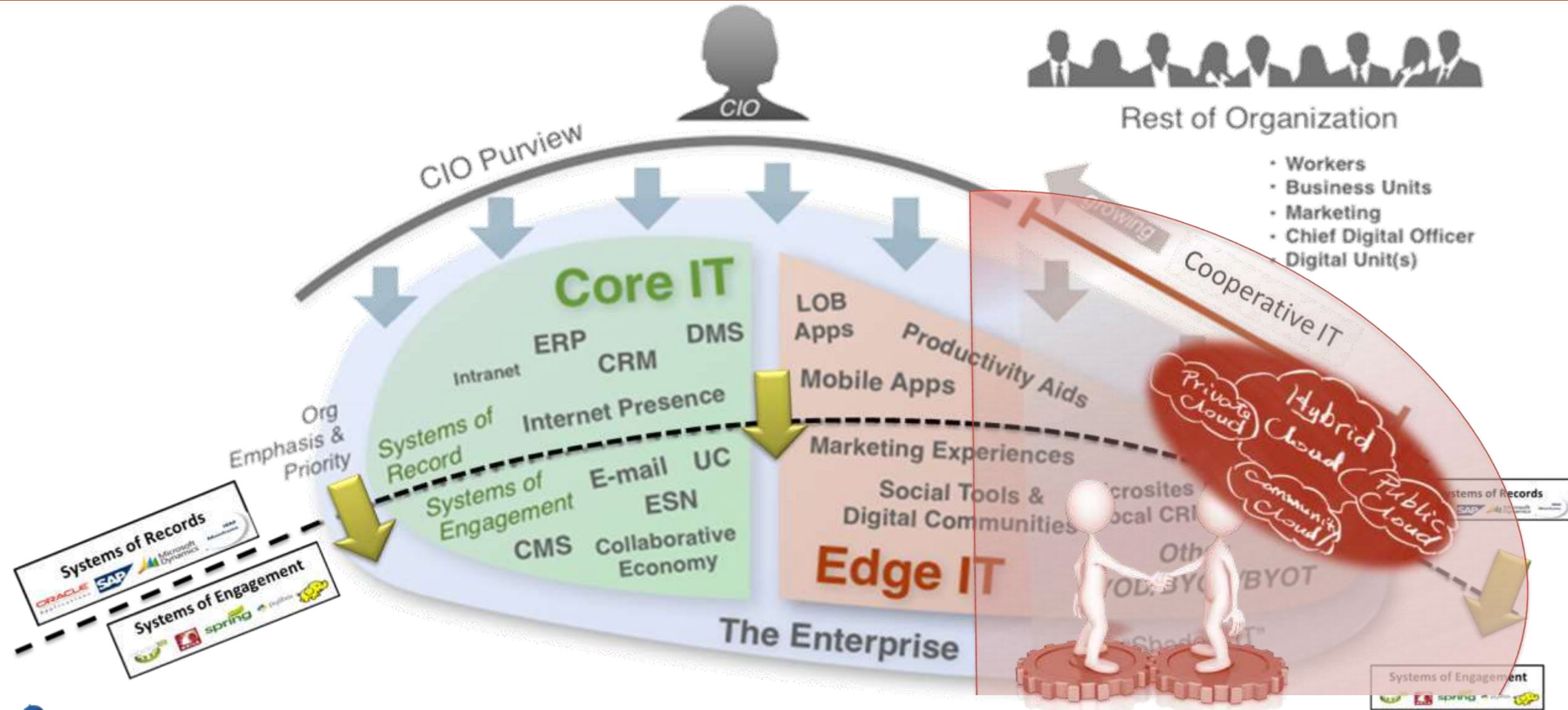
**IT is a "monopoly"** vs. **FULL of choices**

**NO choices** vs. **cloud** (Software as a Service, APPs & APIs, Community cloud, Internet (private) cloud)

**bottom LINE click here** (on both sides)

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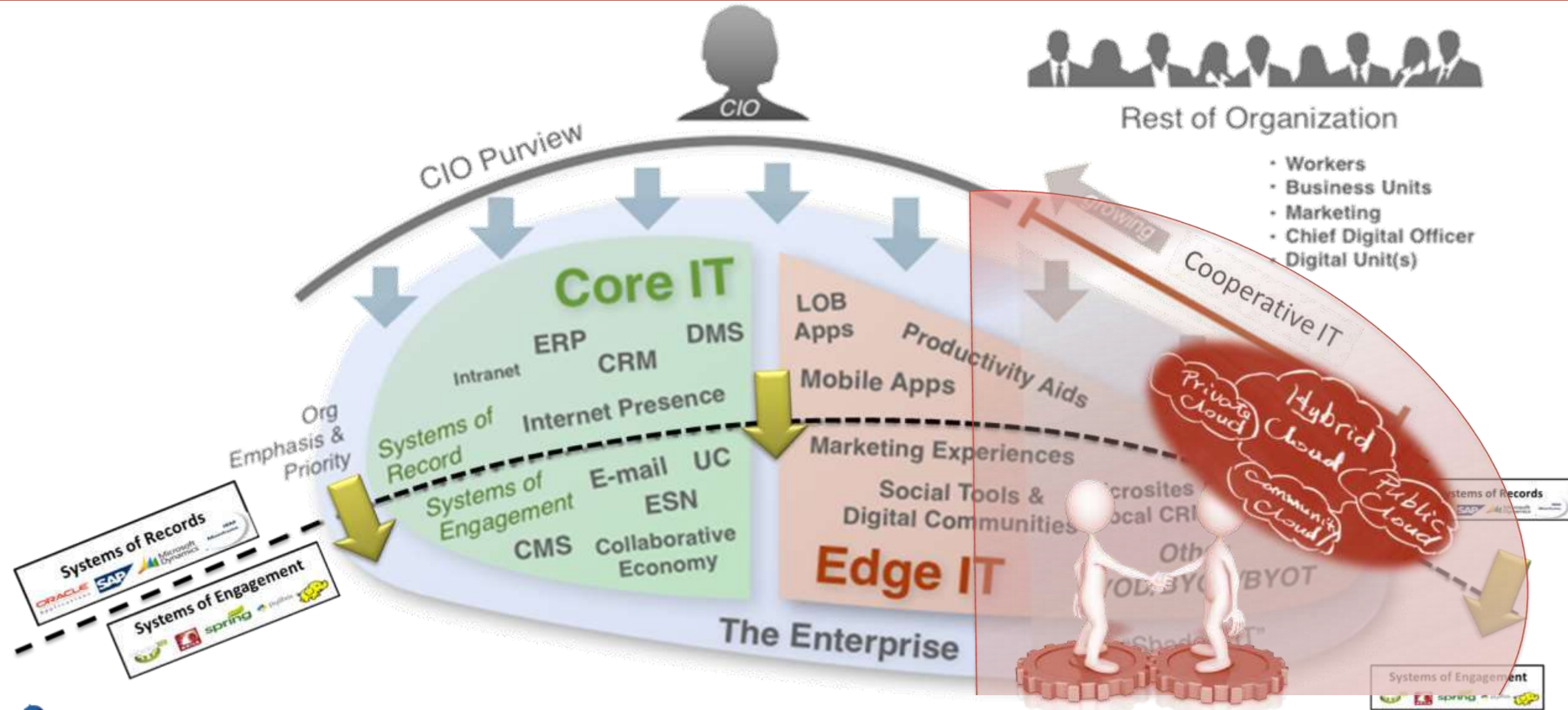
# Shadow IT should move to Cooperative IT (mostly in the cloud)



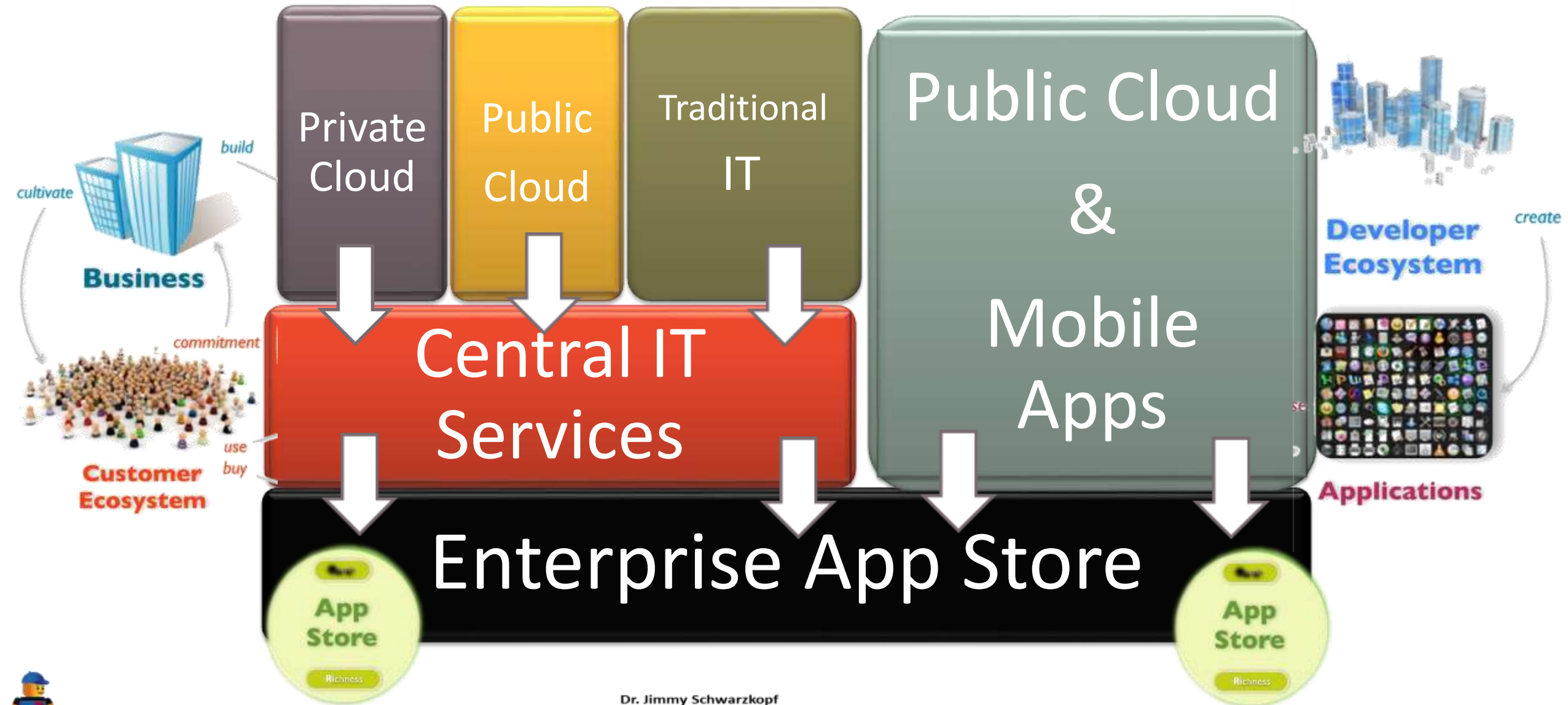
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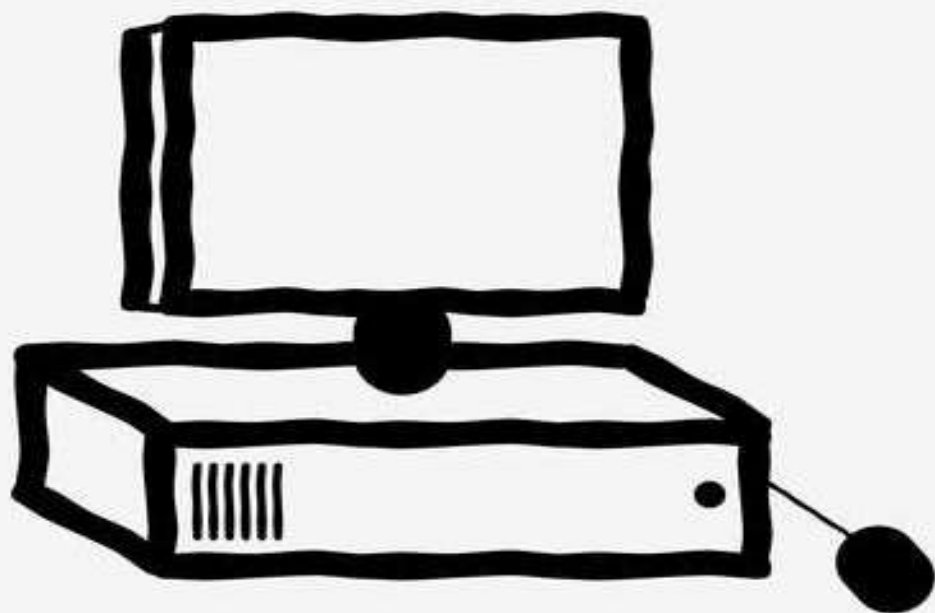
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# Shadow IT should move to Cooperative IT (mostly in the cloud)



# Modern IT Department





THAT'S  
ALL  
FOLKS!



END of PART  
ONE

