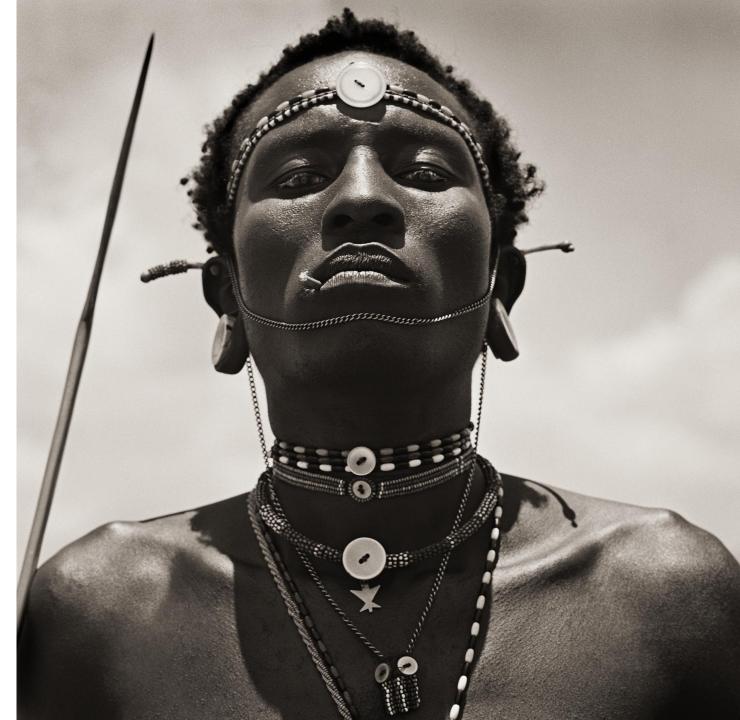


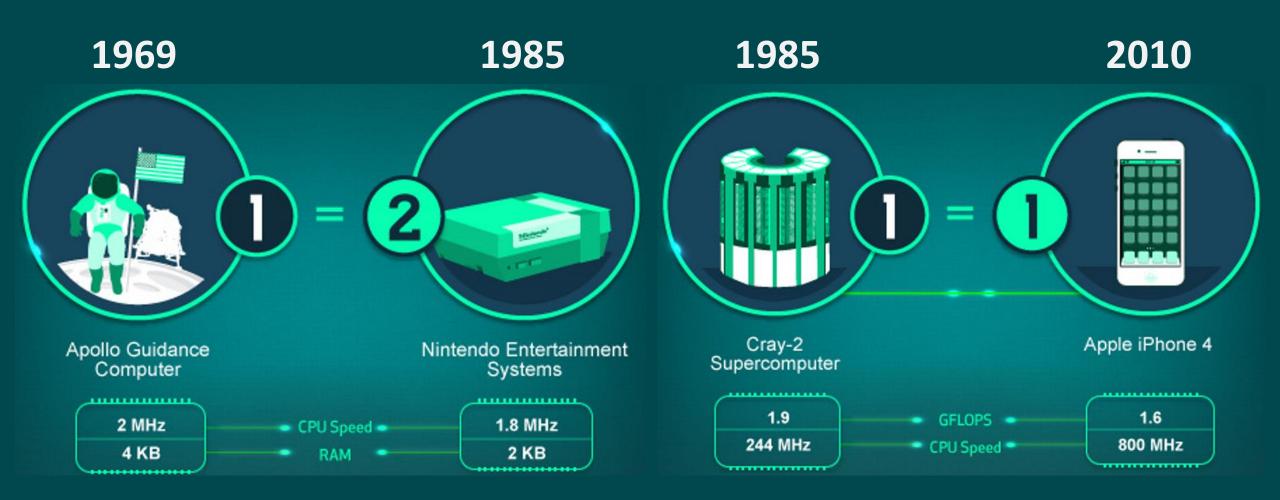
"Right now, a **Masai warrior** on a mobile phone in the middle of Kenya has better mobile communications than the **U.S. president** did 25 years ago.

If he's on a smart phone using Google, he has access to more information than the U.S. president did just 15 years ago."

> Peter Diamandis, author of "Abundance"

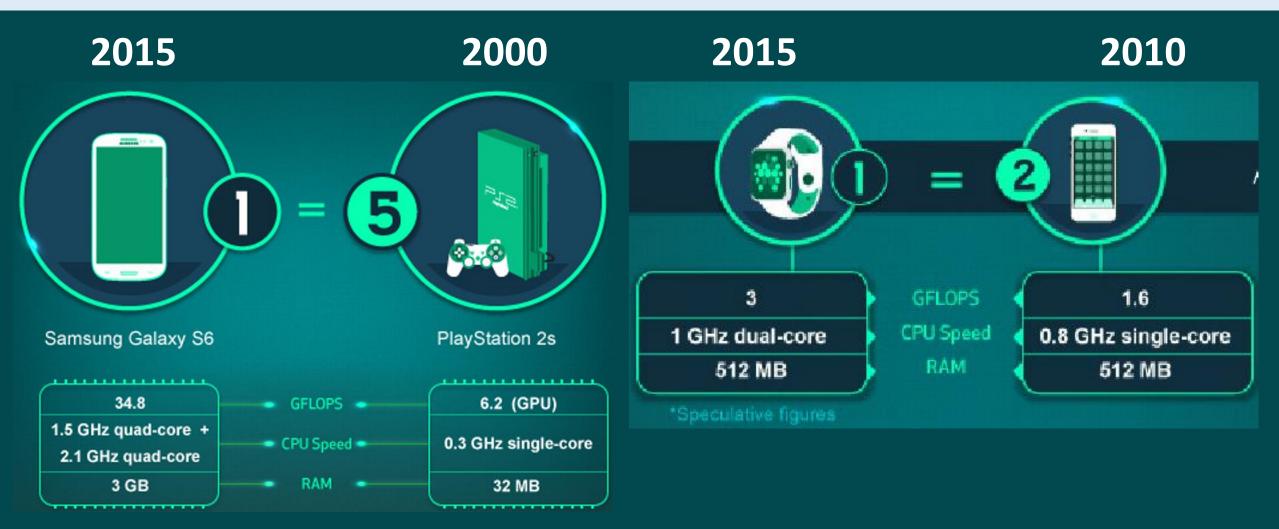


Processing Power Today's smartphones are what used to be considered supercomputers



Experts Exchange, Processing Power Compared

Processing Power | Today's supercomputers



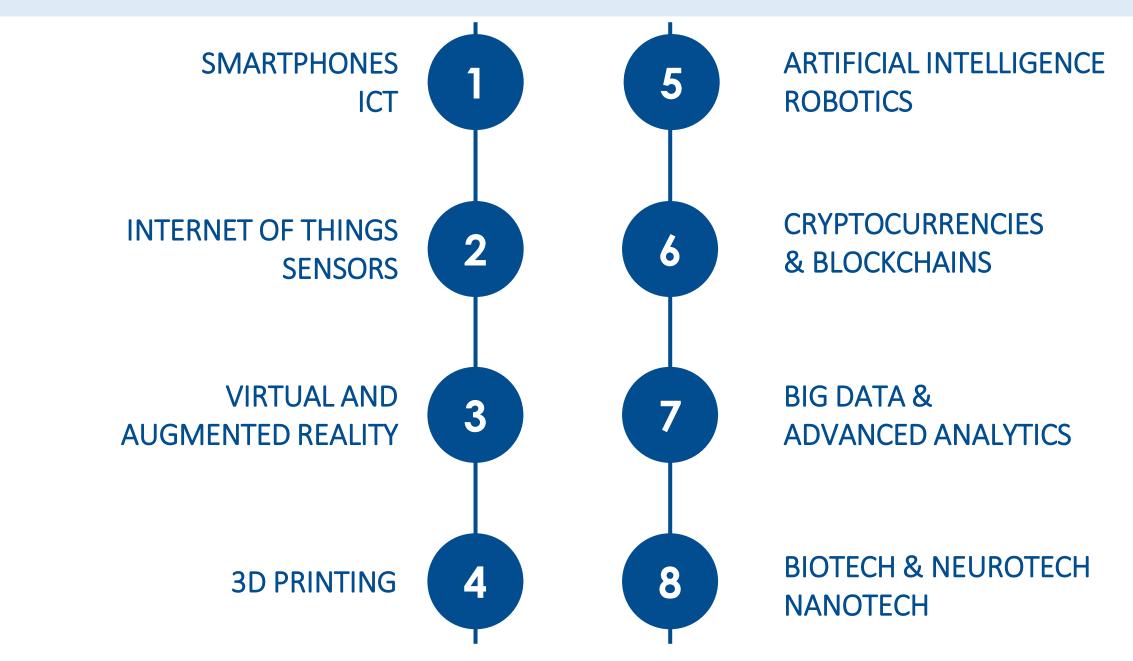
Experts Exchange, Processing Power Compared

TECHNOLOGY

"The strongest force propelling human progress has been the swift advance and wide diffusion of technology."

The Economist

8 exciting technologies that will change banking (and the world)





Mobile Devices

Pocket Supercomputers





ARTIFICIAL INTELLIGENCE

By 2020, the average person will have more conversations with bots than with their spouse

Gartner Assumption, Nov. 2016

Apple Siri, the early days...



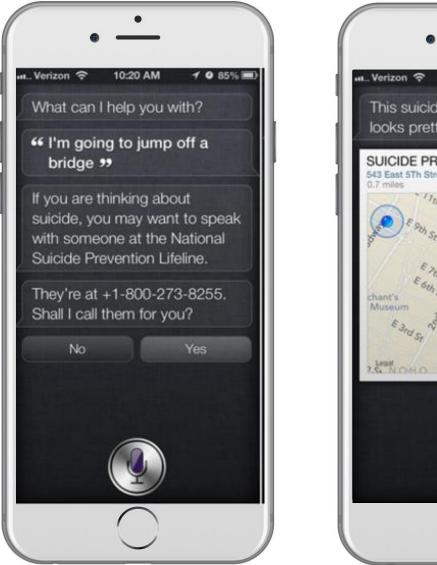
Apple Siri, the early days...





Sotiris Syrmakezis

Apple Siri, mature version...





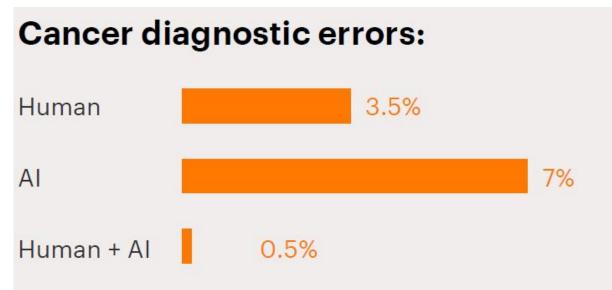
Artificial Intelligence | Artistic Style Transfer



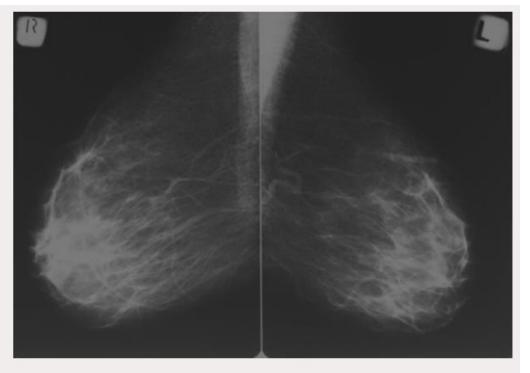
Computer Vision Foundation, Image Style Transfer Using Convolutional Neural Networks, 2016

Artificial Intelligence in Medical Diagnosis

The smartest thing on the planet today is neither man nor machine; it's the combination of the two



Combining artificial intelligence with a human pathologist can boost the accuracy of cancer diagnosis to nearly 100%



Source: https://www.livescience.com/55145-ai-boosts-cancer-screen-accuracy.html via Daniela Rus MIT CSAIL

GOOGLE AUTONOMOUS FLEET

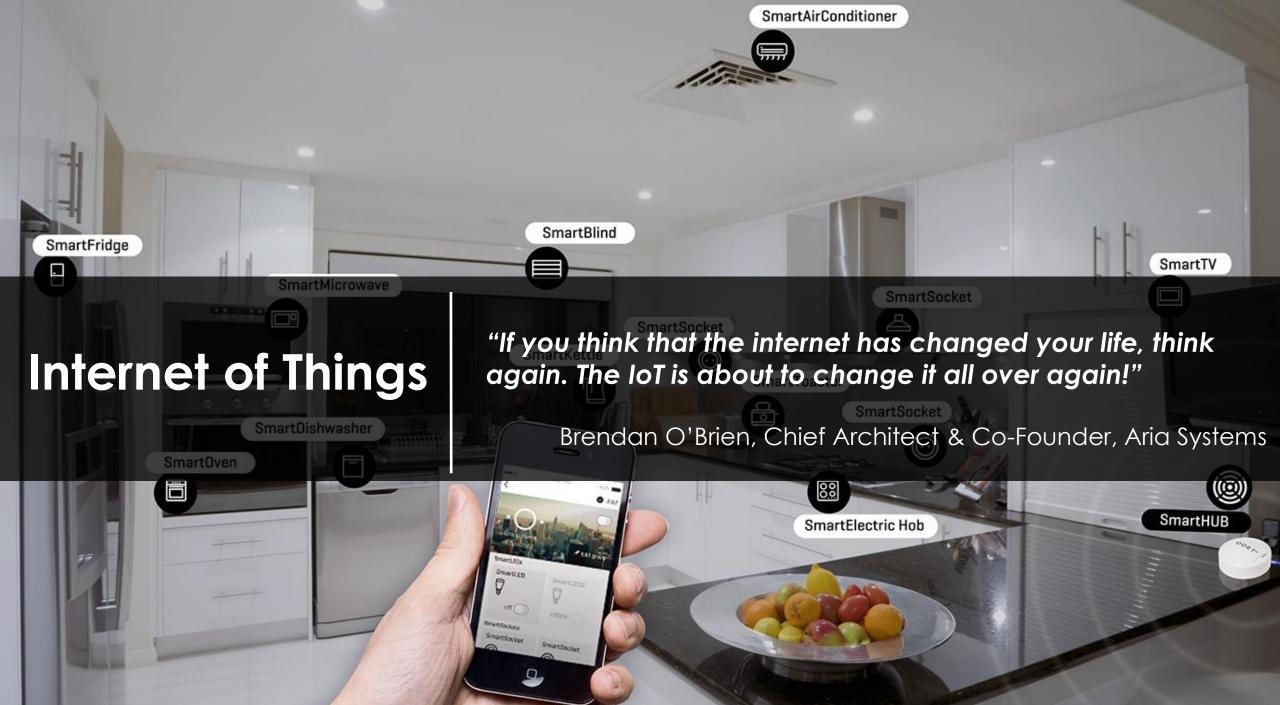
torv



self-driving o

RX450h

APR California Maria



The Internet of Things is on our body

WATCH



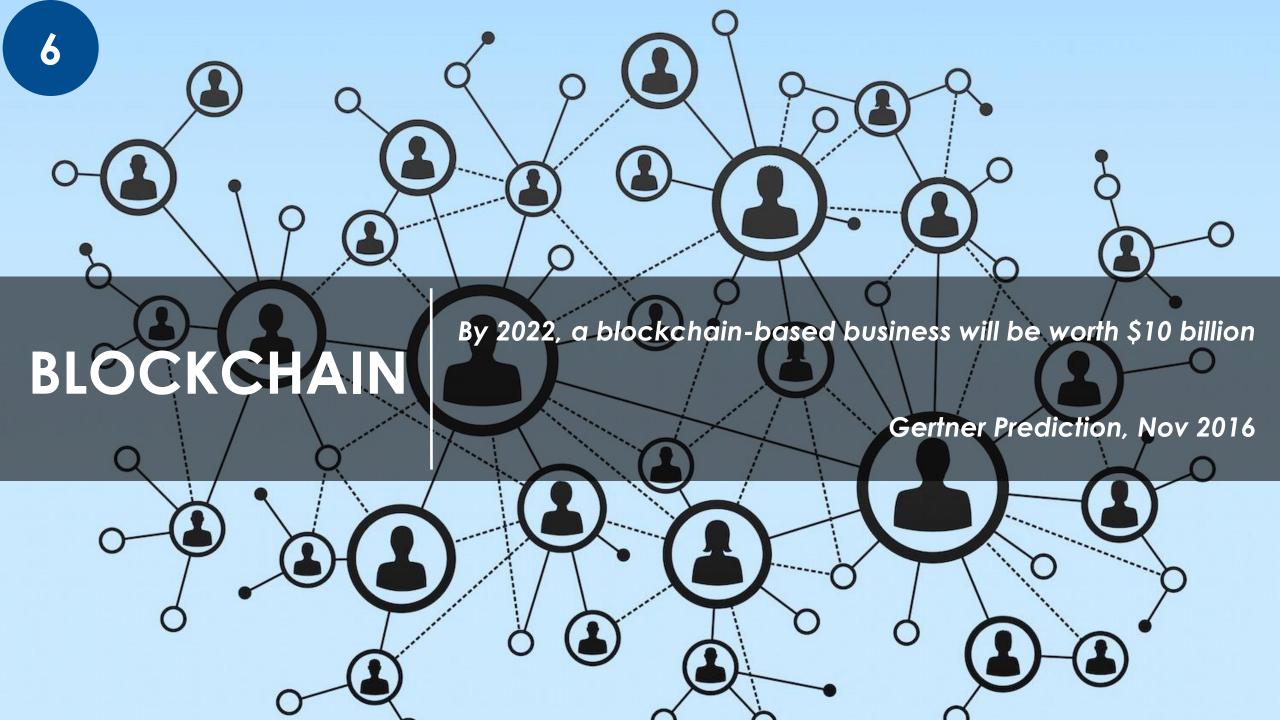
The Internet of Things is in our homes



Sotiris Syrmakezis

The human body is the next computer interface

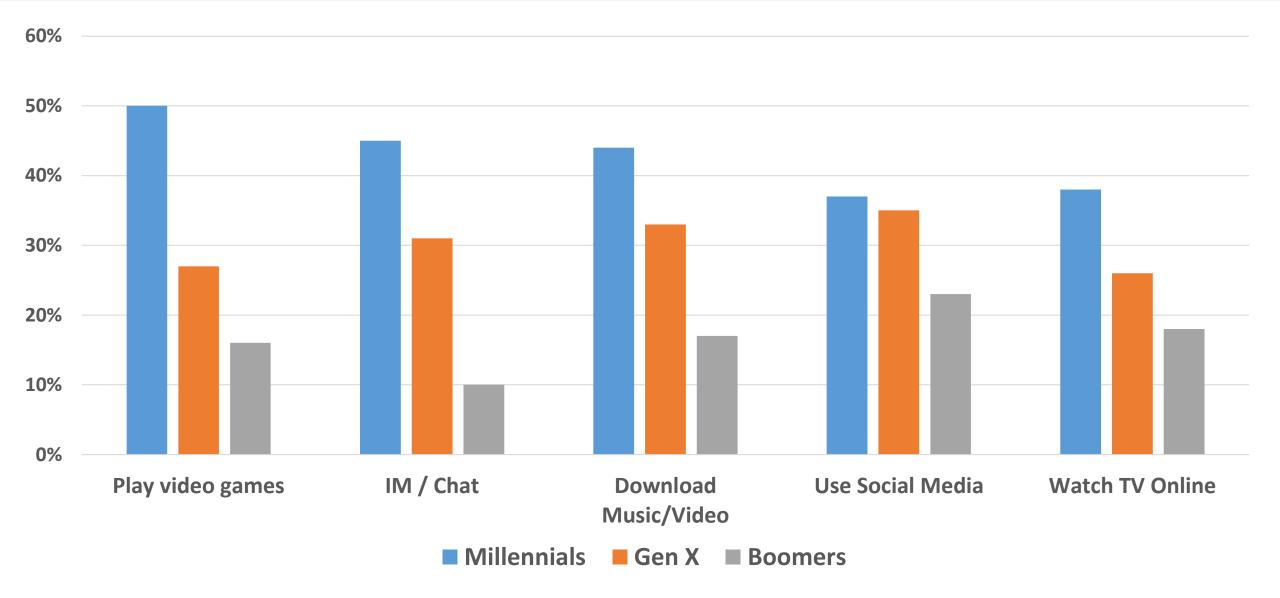






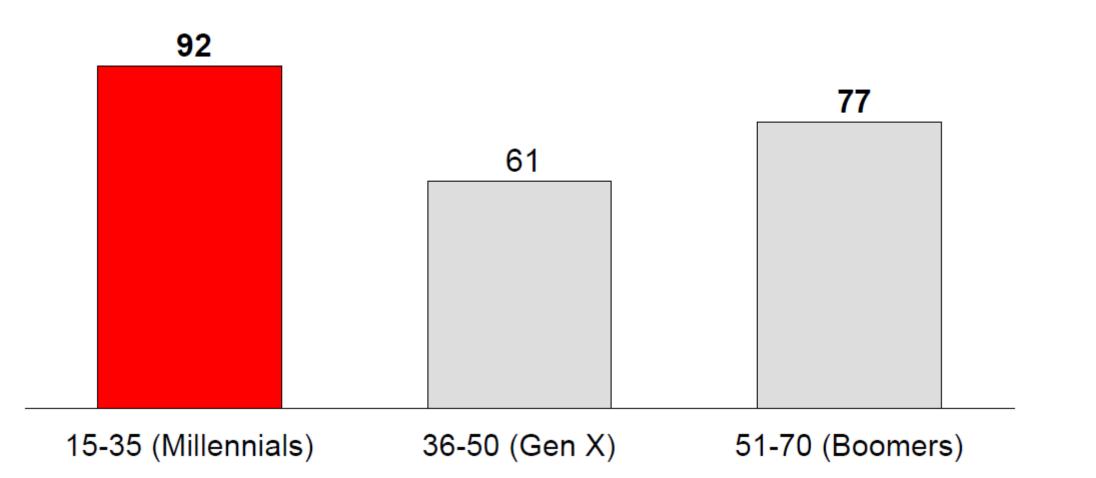
The Millennials

Millennials V technology



Goldman Sachs | Our Thinking | Macroeconomic Insights | Data Story: Millennials, 2016

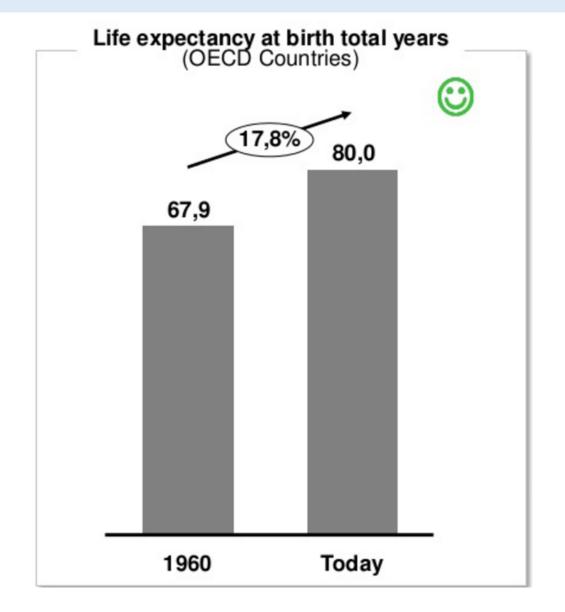
Millennials: the largest generation in history

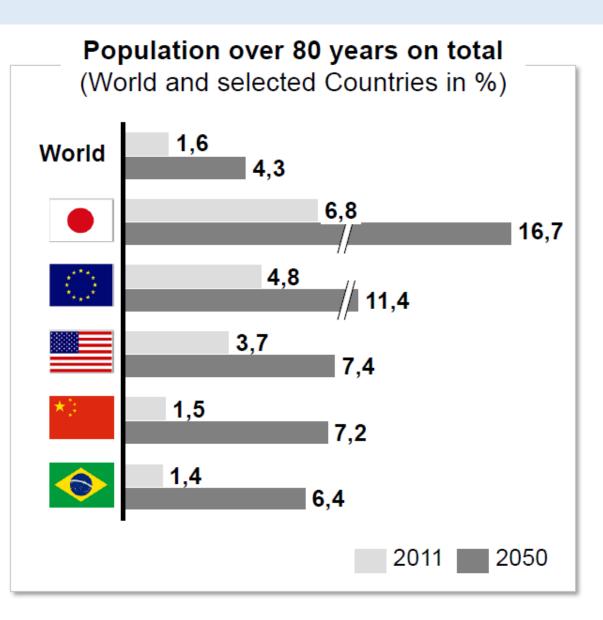


Sotiris Syrmakezis

Goldman Sachs | Our Thinking | Macroeconomic Insights | Data Story: Millennials, 2016

Aging population...





OECD, Economic Outlook and Interim Economic Outlook, Sept. 2016

Millennials and Banking

53%

don't think their bank offers anything different than others

1 in 3

are open to **switching** banks in the next 90 days



believe they won't need a bank at all

Sotiris Syrmakezis

"The Millennial Disruption Index", Viacom Media Networks, 2013

DIGITAL TRANSFORMATION

"It's no longer the big beating the small, but the fast beating the slow." Eric Pearson, CIO, International Hotel Group (IHG)

Digital Transformation...

...is like teenage sex:

- Everyone talks about it
- Nobody really knows how to do it
- Everyone thinks that everyone else is already doing it
- So, everyone claims they're doing it

Dan Ariely (paraphrased)

New business models disintermediate existing ones



Largest taxi company / no vehicles

Most popular media owner / no content

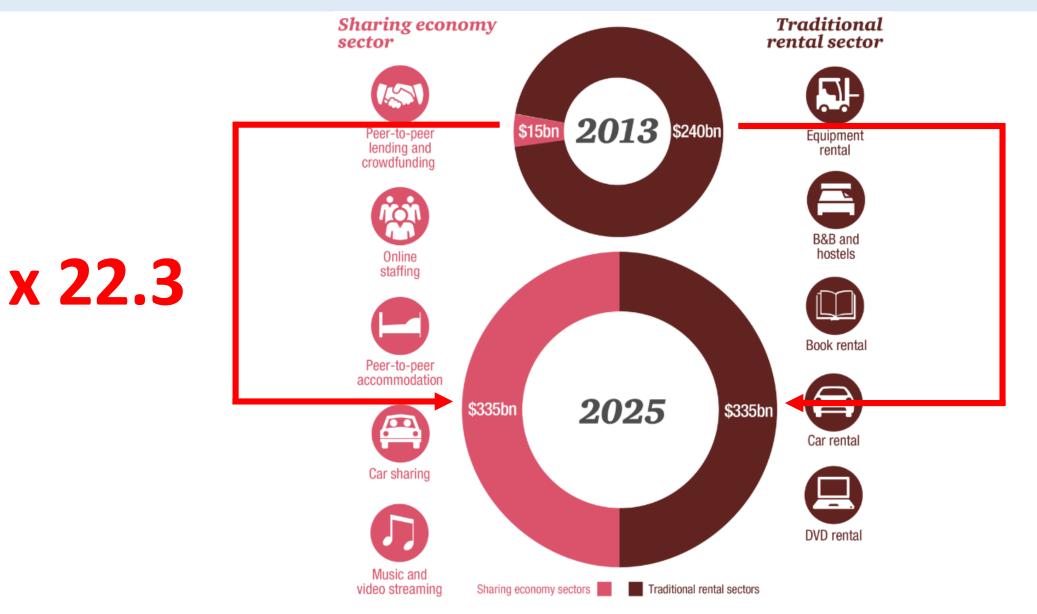


Most valuable retailer / no inventory



Largest accommodation provider / no real estate

The sharing economy (+ the reputation economy)



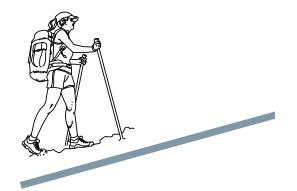
x 1.4

PwC, Sharing Economy: sizing the revenue opportunity

The economics of Digital

Growth rates will plummet. To survive, companies must be first movers.

Percentage-point change in 3-year revenue growth



You've grown comfortable with a steady state of revenue growth

A perfect storm enables the emergence of startups

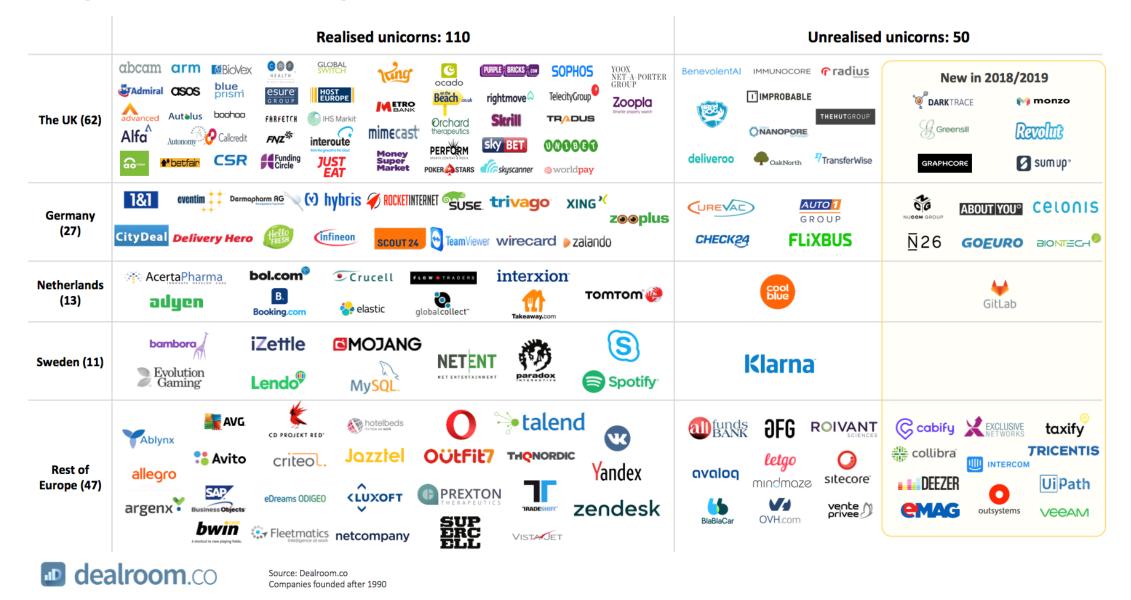
Accelerated Pace of Customer Demand Technological Evolution Barriers of Entry VC Funding

Sotiris Syrmakezis

Financial Services Analysis, CapGemini, 2016

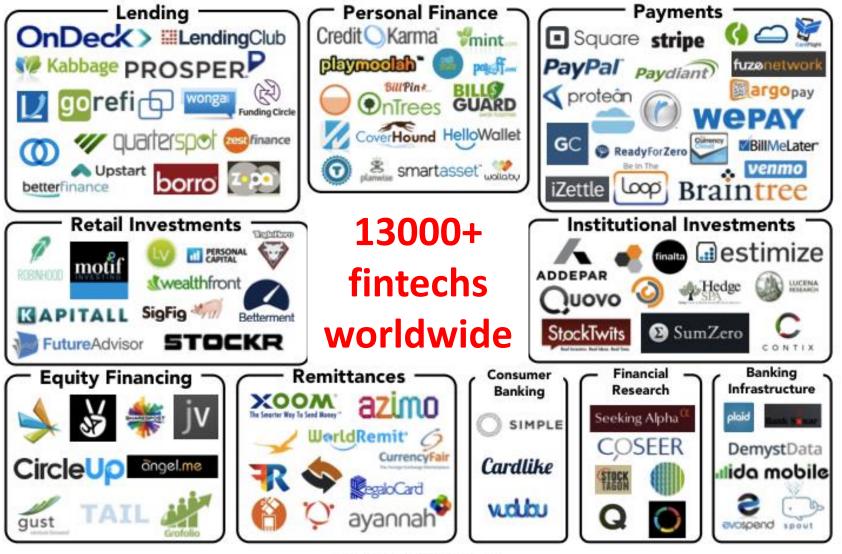
Startups jump out of every corner

European unicorns landscape



Sotiris Syrmakezis

FinTech startups jump out of every corner



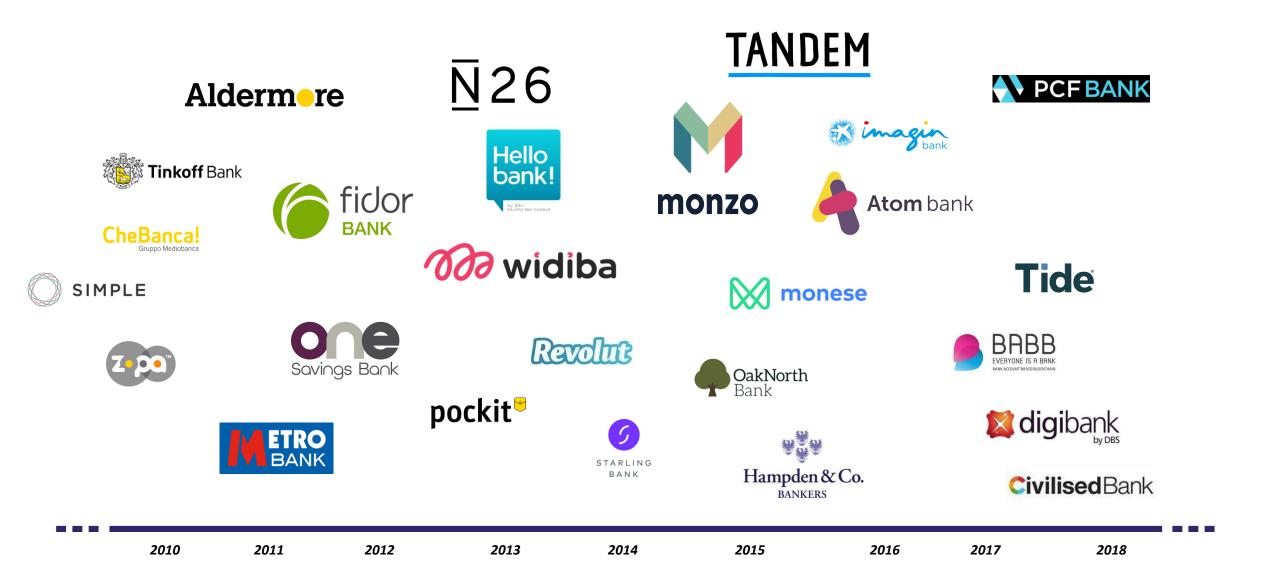
Venture Scanner

450+ FinTech startups in Israel alone



© 2016 KPMG Somekh Chaikin

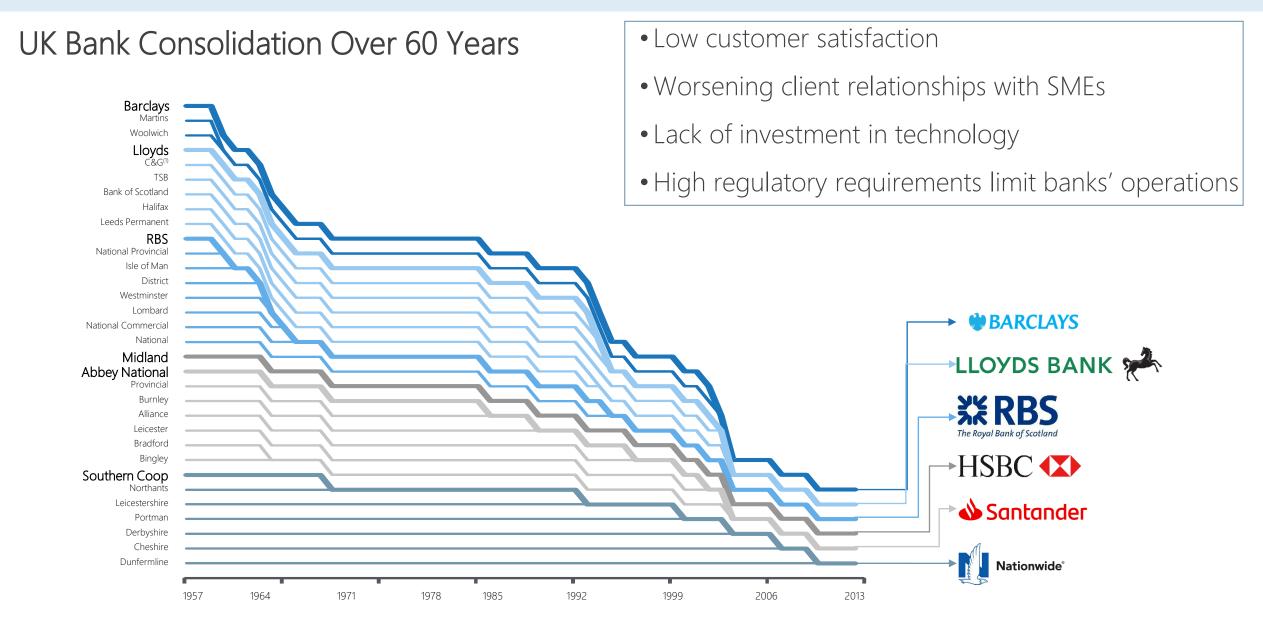
New banks enter the market: the Challenger Banks



FinTech scene in China and SE Asia



Case Study: The UK Challenger Bank Precedent

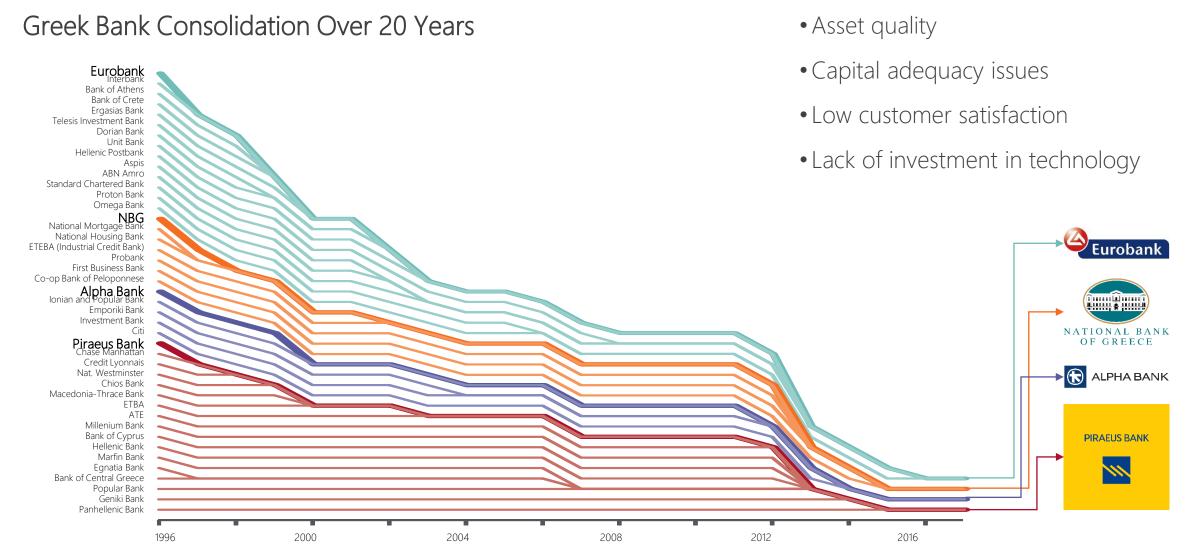


Sotiris Syrmakezis

Sources: PwC, Deloitte, Greek press. Note: (1) Stands for Cheltenham and Gloucester

Case Study: Banks consolidation in Greece

The Greek Banking industry resembles that of the UK: via M&A, the market has become the most concentrated in Europe



Sources: PwC, Deloitte, Greek press.

Challenger banks: 5 Raisons d' être





Smartphone and Mobile Banking Penetration

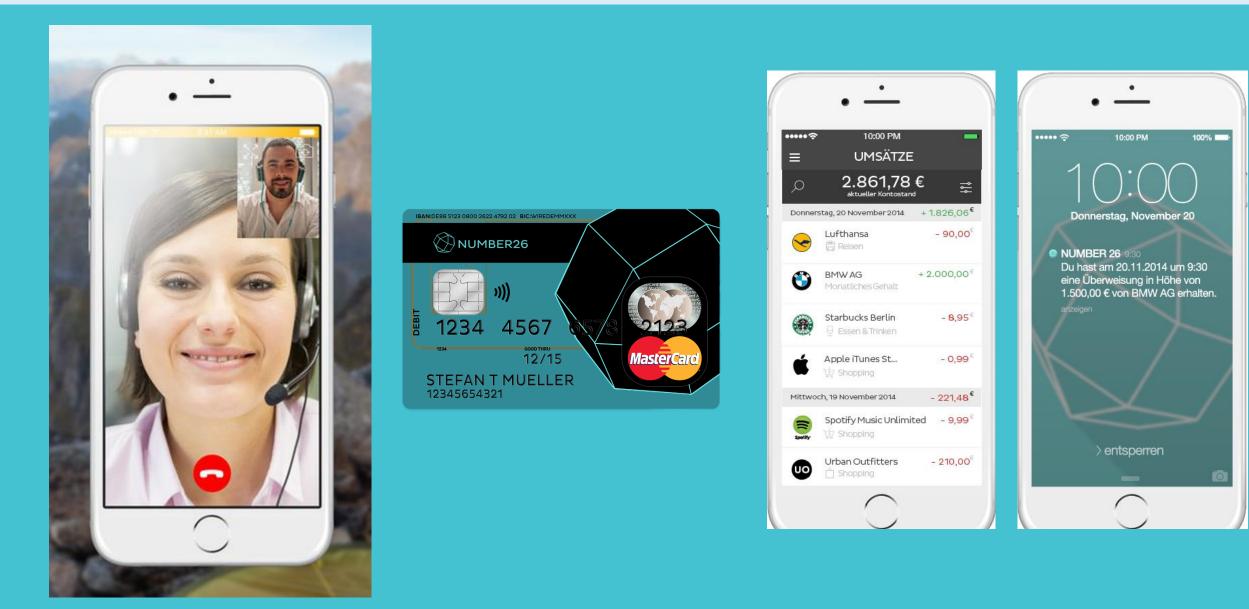


Customer Confidence in Banking





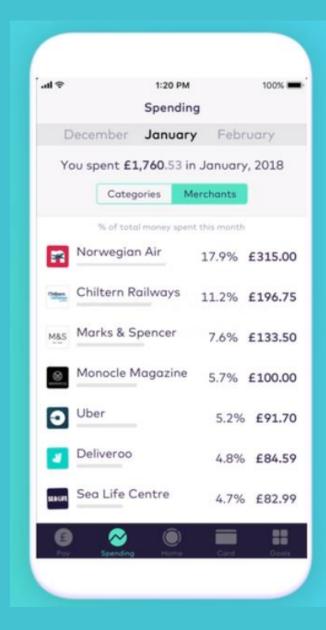
Digital customer onboarding



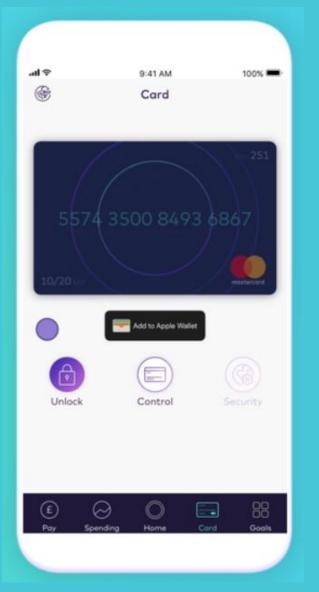
Personal Finance Management







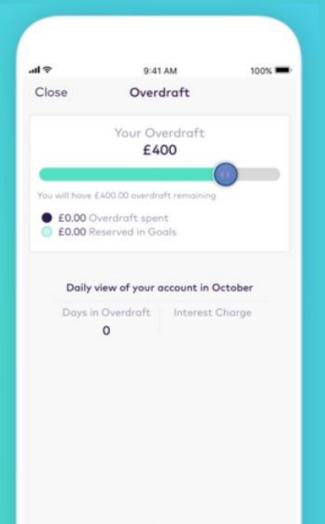
Card lock/unlock & notifications



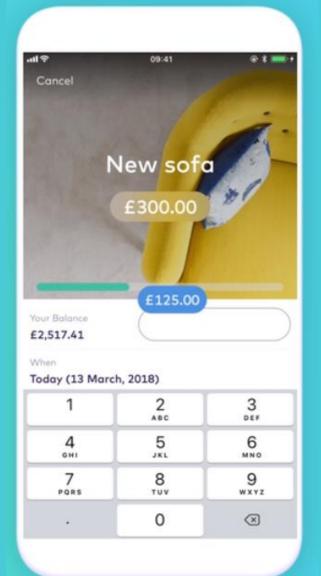


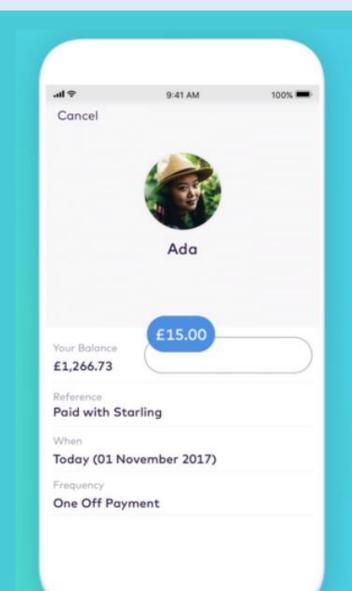


Control, savings, P2P payments, ...

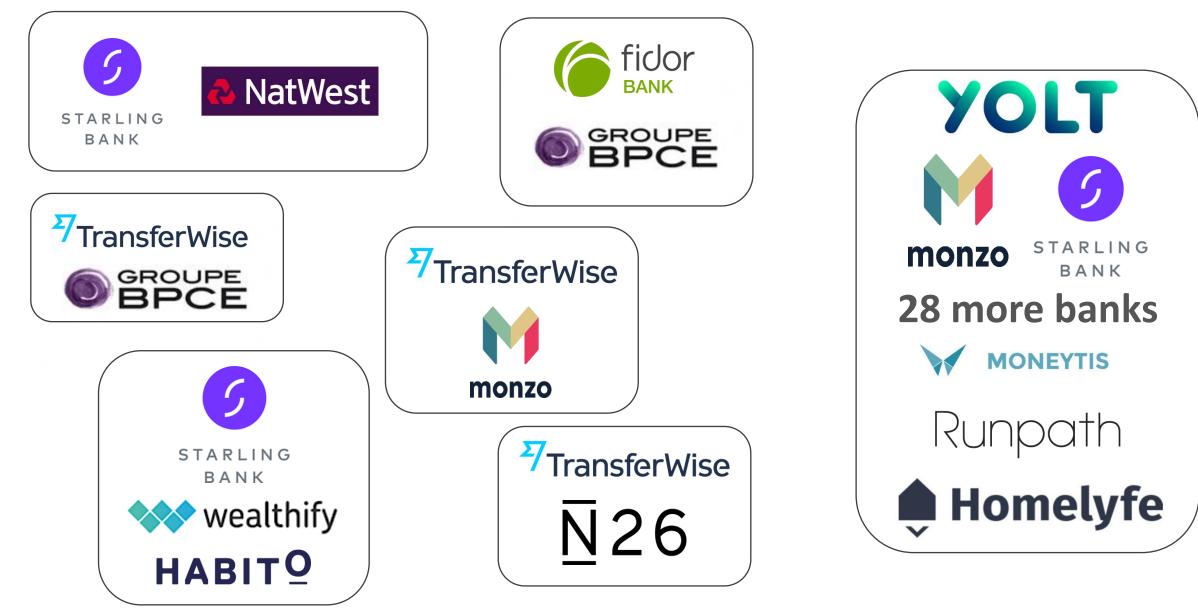


More Information





Partnerships: disrupting the notion of competition itself





wirecard bank



Fintechs cooperate to create larger challenges



Tech giants disrupt banks...





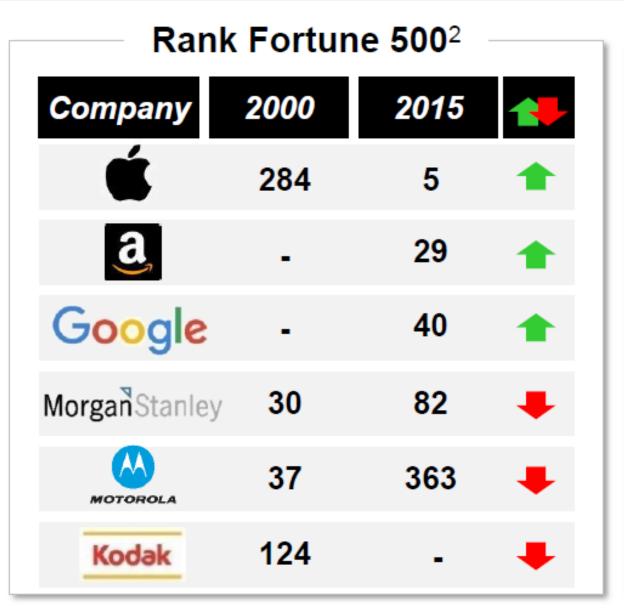
amazon pay

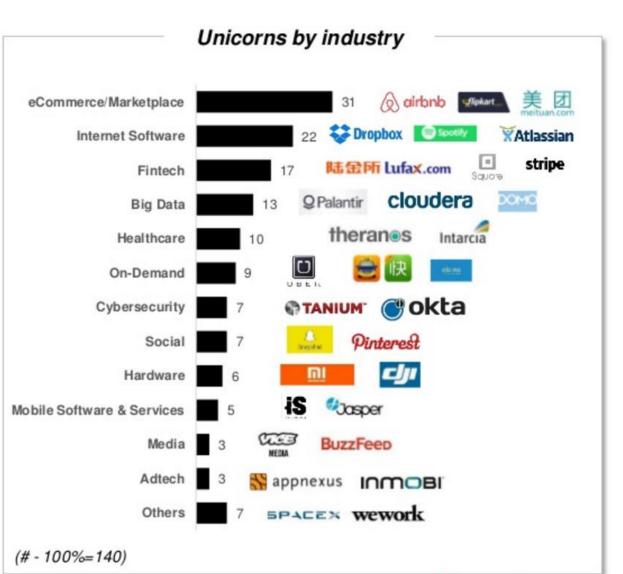


samsung pay

P PayPal

Digitize or Die





"Banking is essential. Banks are not."

Bill Gates, 1994

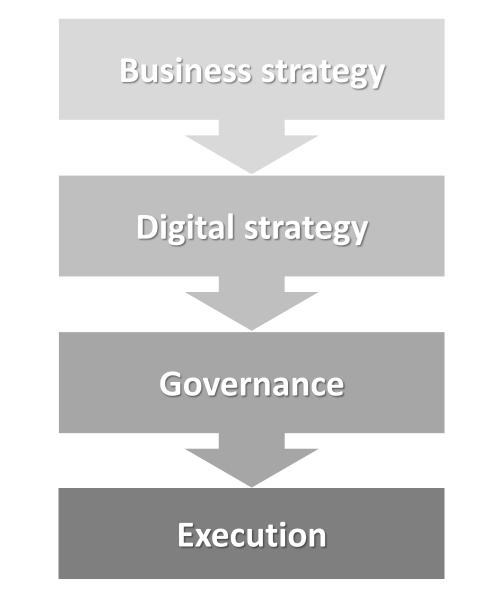
"In the future, BBVA will be a software company"

Francisco Gonzalez, BBVA CEO, Mar 2015

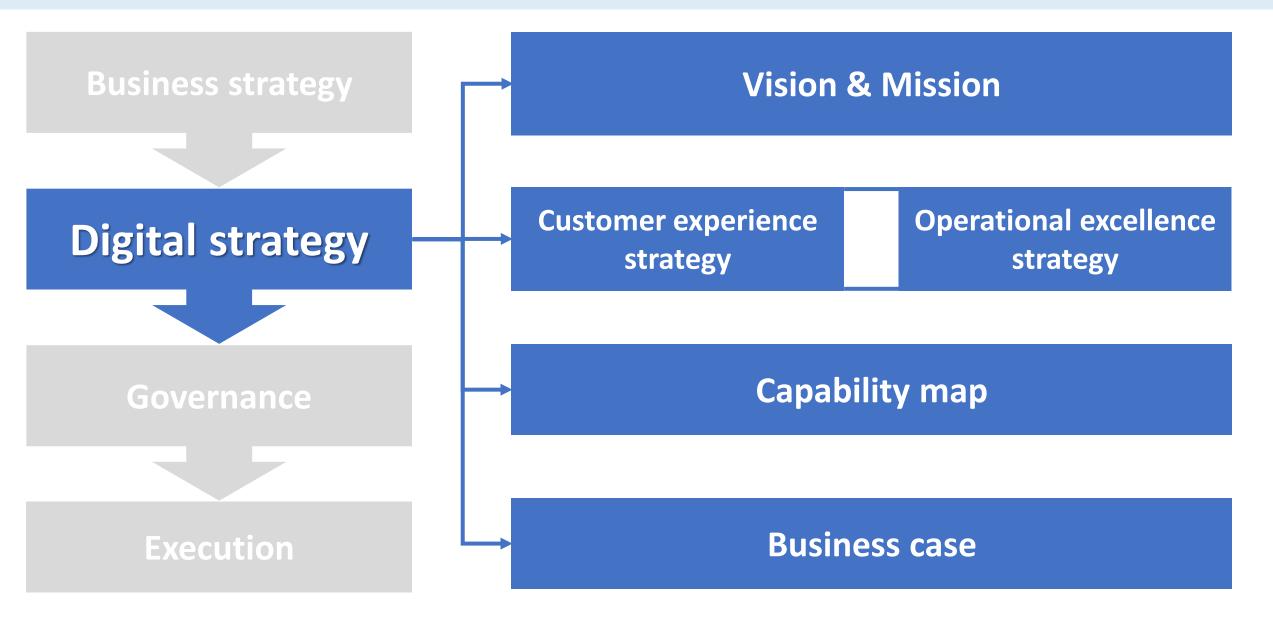
Indications that maybe you are doing it wrong

- 1. Feature-obsessed: "Our product should have this, this and that feature."
- **2. Relentless Copycats:** "Look at this feature that the competition has. We have to have it, too."
- **3. Authority bias:** Beware of the **HI**ghest **P**aid **P**ers**O**n in the room ("The boss says that this feature is a killer")
- **4. Over-optimistic roadmap. No MVP.** "Since we can't hit the deadline, let's phase out the most important features that will take the longer to implement"
- **5. Cool tech as a guidance:** "That tech is hot these days. Let's build one, anything, as long as we do it first!"

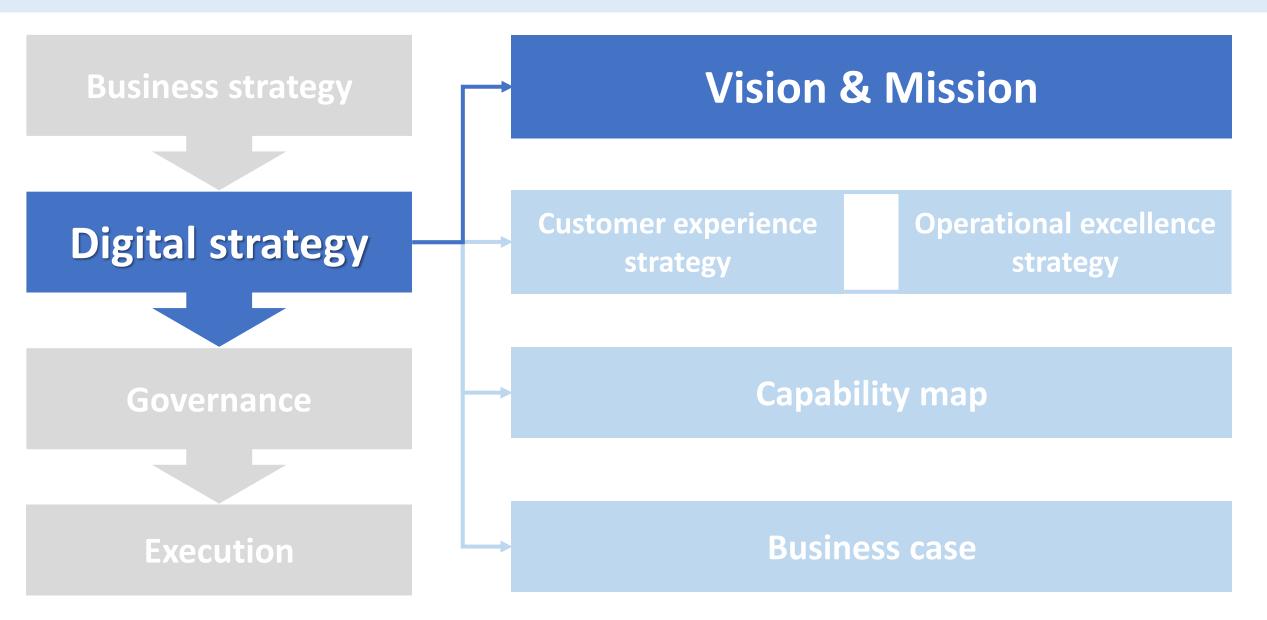
Adopt digital strategy to business strategy



Digital Transformation Components



Digital Strategy | Vision



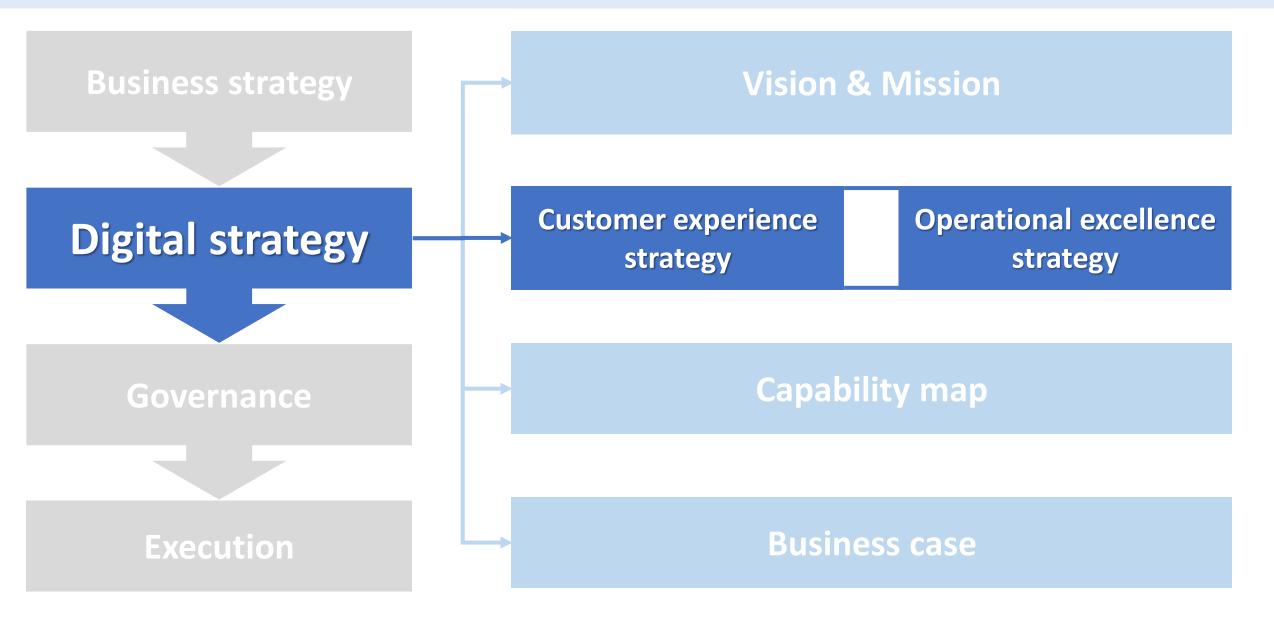
Digital Strategy | Our mission

Find your Northern Star

it has to be:

Big Bold Expansive Future-proof

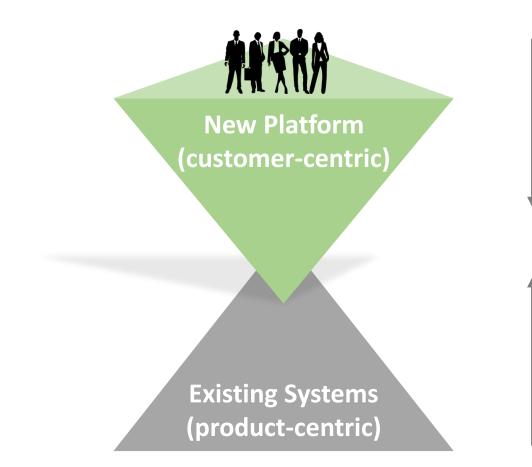
Digital Strategy | Customer Experience & Operational Excellence



"No business plan survives first contact with customers"

Steve Blank

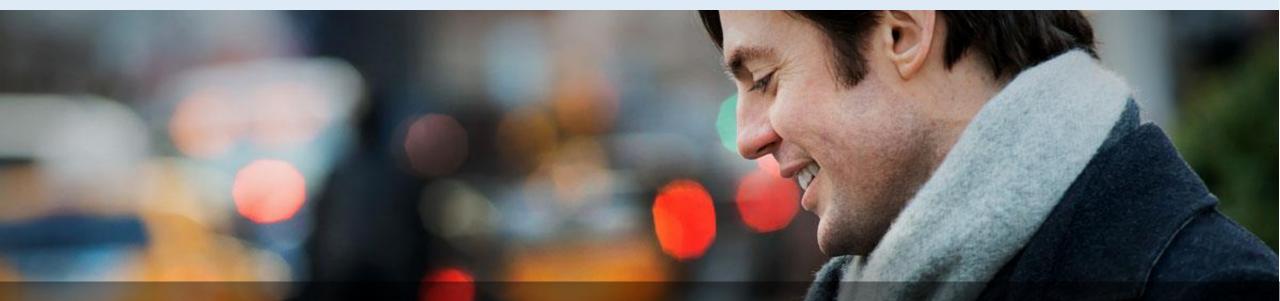
Inside-Out vs. Outside-In



Outside-In Customer enablement

Inside-Out Web/mobile enablement

Customer Experience Strategy | Mobile-1st



Embracing mobile as the platform, lets the opportunities of interaction grow exponentially

When we think about digital experiences, the comparative set is not a competitor's app.

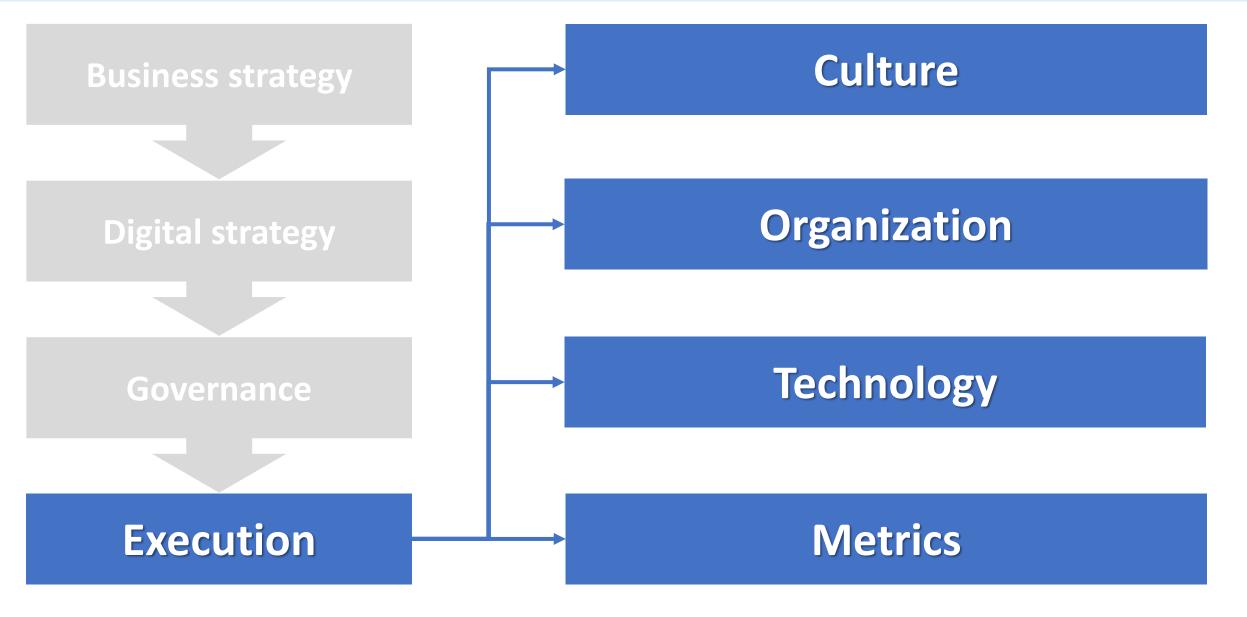
It's the last app our user opened





Take care of the processes that affect the experience

Execution

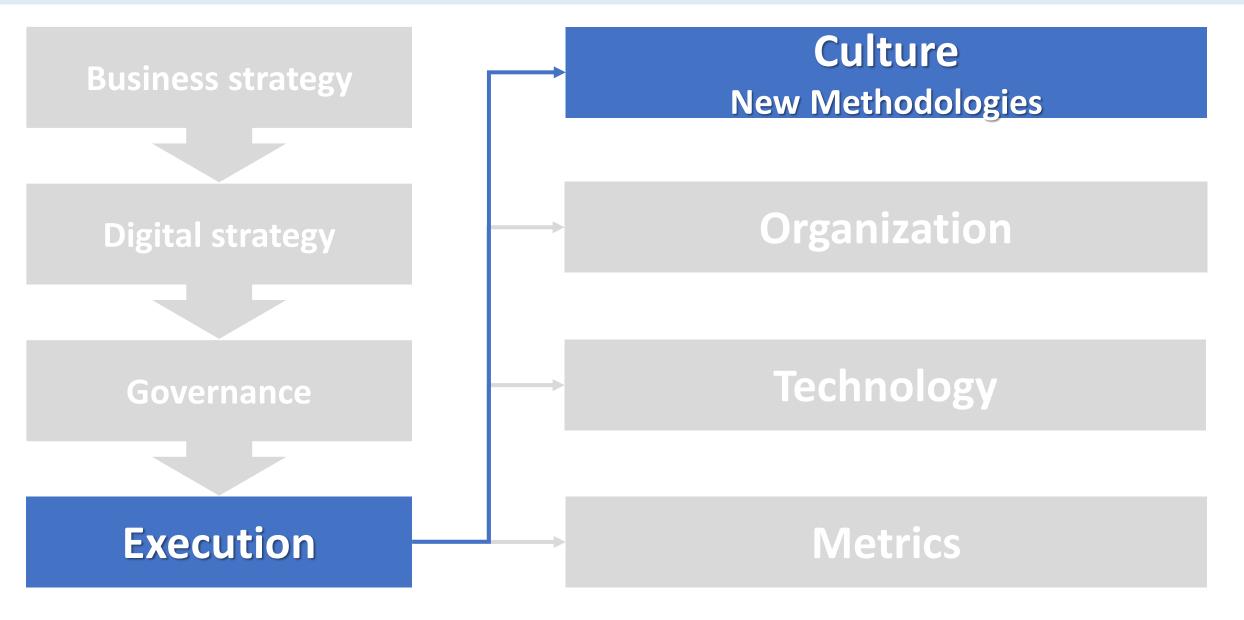


The ever-present organizational structure question

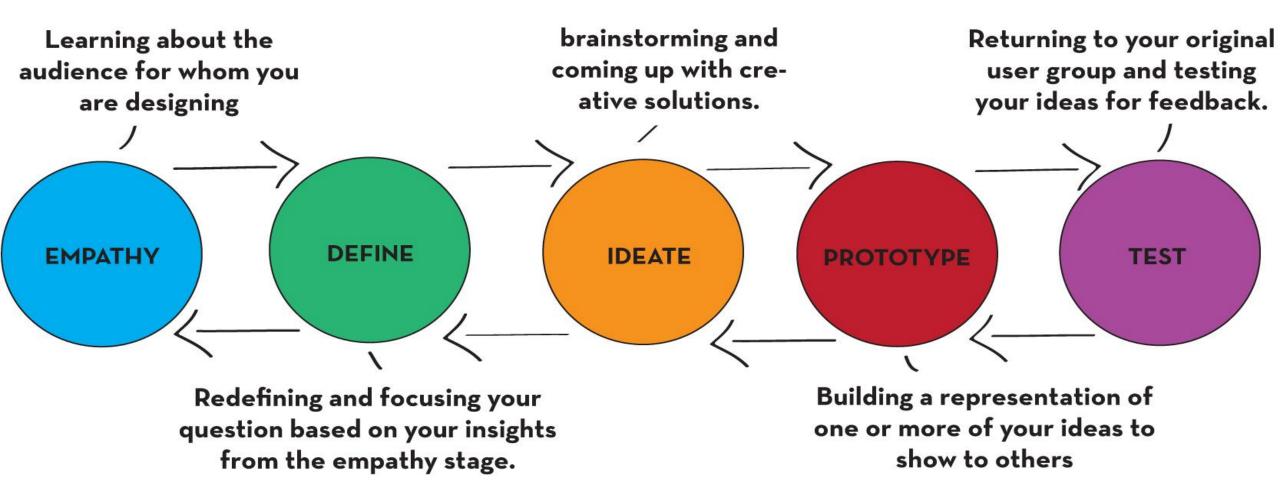
Model	Strategy	Governance	Execution	Description
Decentralized	Embedded in business units	Embedded in business units	Embedded in business units	All strategy decisions made in distributed, local teams independent of one another
Centralized	Centralized	Centralized	Centralized	HQ makes all strategy & tactical decisions, giving local teams little to no leeway to adjust execution
Federated	Centralized	Combined	Embedded in business units	HQ makes most strategy decisions & allows local teams to adjust decisions and execute within specs

Forrester Research, Evolve Your Organization Structure To Promote Digital Maturity

Execution



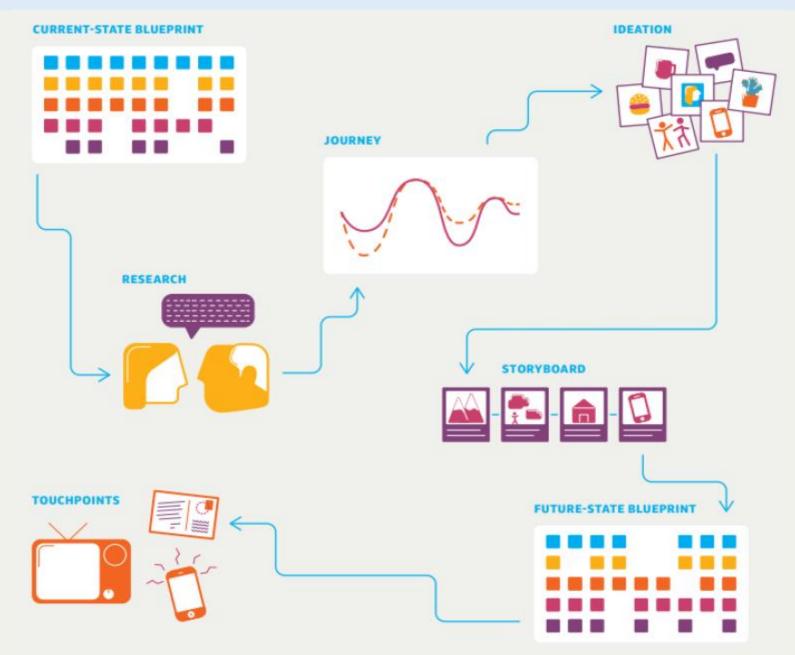
Design Thinking



Design Thinking Service Design

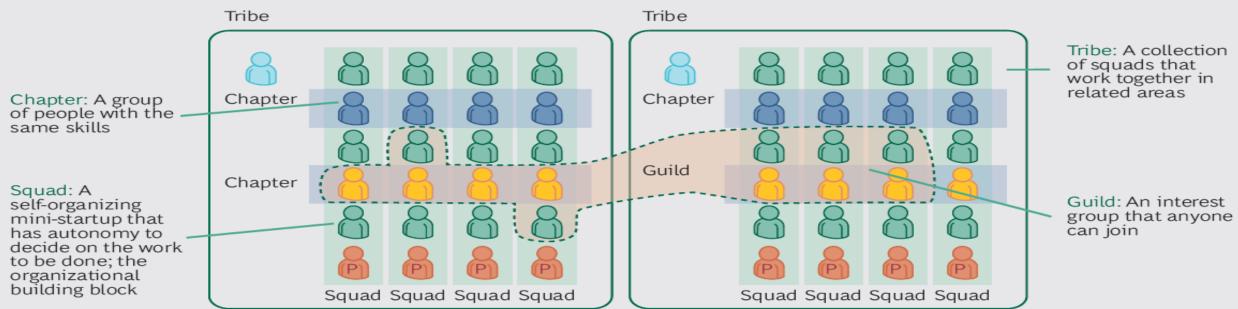
Service design is the approach through which we understand the whole ecosystem to choreograph a seamless and compelling experience

Service Design



Agile methodology





EXAMPLES OF POTENTIAL TRIBES AT BANKS

CUSTOMER EXPERIENCE TRIBE

- Scope: Starts with the first point of contact with a potential customer until a product is chosen
- Typical staff composition: one-third technology, two-thirds business
- Example: Omnichannel marketing

ENABLING TRIBE

- Scope: Enables squads in other tribes to work independently by providing systems, applications, and architecture
- Typical staff composition: Heavily weighted toward technology
- Example: Building an omnichannel technology infrastructure

CUSTOMER SERVICE TRIBE

- Scope: Starts when a product is chosen and extends through fulfillment and management
- Typical staff composition: Two-thirds technology, one-third business
- Example: Mortgages

Source: Spotify.

Note: P = product owners, who lead product development sprints.

Lean or Design Thinking or Agile?

Work in short cycles Hold regular retrospectives Put the customer at the center of everything Go and see

At the end of the day **your customers don't care whether you're agile, lean or practice design thinking**. They care about **great products and services that solve meaningful problems** for them in effective ways. The more you can focus your teams on these things the better their process will be.

Start thinking like a disruptor

Focus	Experiment	Choose
on unmet customer	with new business	speed
needs	models	over perfection
Think	Face	Be ruthless
like	the	about
an ecosystem player	non-believers	your liabilities
Innovate	Maximize	Place
the	the use of existing	a few selective
adjacent possible	technology	big bets

Digital business transformation is a journey, not a destination

MALE E

HEALTHCARE DIGITAL TRANSFORMATION



Thank you!