

Contacts



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Digitalization

Digitalization enablers

Cloud

Riding the cloud

Opportunities





Digitalization - what?



The adoption and usage of digital technologies and of data (digitized and natively digital) in order to create revenue, improve business, replace/transform business processes (not simply digitizing them) and create an environment for digital business, whereby digital information is at the core.

Digitalization



Digitization



Digitalization - where?

EXTERNAL

Business model
Clients
Partners
Providers

INTERNAL

Operations Employees



Digitalization - why?

INTERNAL

- Innovative thinking
- Led by visionary CxO
- Push stay ahead of competition

EXTERNAL

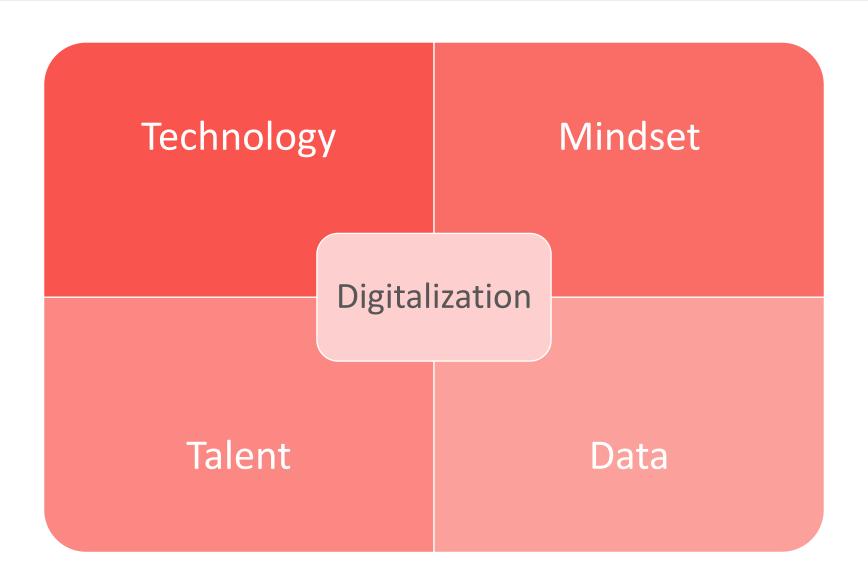
- Covid-19
- Lagging to the competition



Digitalization enablers



Enablers





McDonalds - home delivery

- In 2016 McDonalds India envisioned their mobile app as the preferred medium for ordering
- Built and launched in less than 4 months in multiple countries
- · Based on microservices architecture
- Allows to scale to 20,000 orders per second with less than 100-millisecond latency
- Open API to easily integrate with multiple global delivery partners
- Cost-effective





VW Industrial Cloud

INDUSTRIAL CLOUD
Increasing range of software applications provided by partner companies



- 12 automotive brands
- 365 models
- 120 plants
- 44K vehicles produced a day
- 65K employees
- 30K locations of more than 1500 suppliers and partner companies
- 1 architecture worldwide to integrate production and supply chain processes
- Gains:
 - 30% reduction of factory costs
 - 30% increase of productivity
 - Targeted 1 billion EUR in savings
 - Improved product launches





Cloud Computing

The delivery of on-demand computing services - from applications to storage and processing power, typically over the internet and on a pay-as-you-go basis.

Compute

Storage & Database

Migration & Management & Governance

Analytics & Machine

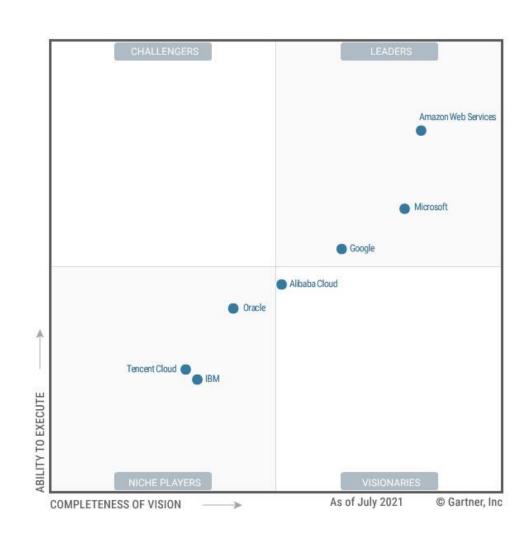
Security, Identity & Compliance

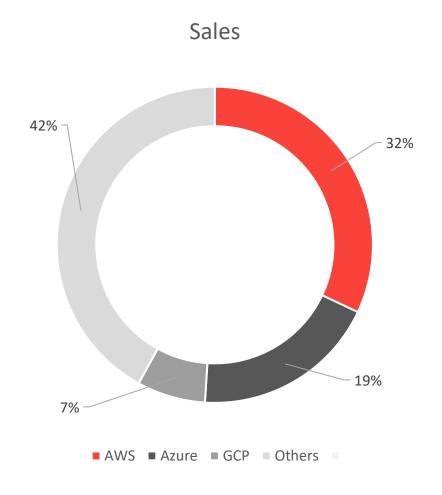
Learning





Cloud Service Providers







AWS regions







Public

- Cloud resources are owned and operated by 3rd party CSP and delivered over the internet
- Azure, AWS, GCP
- Low costs, high-reliability, almost unlimited scalability, no maintenance

Private

- •Cloud computing resourced used exclusively by one business or organization
- •Located on-prem in your datacenter or hosted by 3rd party CSP
- Private network
- •HW and SW dedicated to you organization
- More control and security

Hybrid

- Combines on-prem infrastructure or a private cloud with a public cloud
- Data and apps can move between the two environment
- More control, flexibility, costeffectiveness and ease of migration

Government



Service types

SaaS

- Software as a service
- Cloud-based ready and out of the box solutions
- Clients do not have to maintain hardware or software

laaS

- •Infrastructure as a service
- Base infrastructure provisioned by CSP
- End users configure and manage platform and environment, deploy applications on it.

PaaS

- Platform as a service
- End users develop, run, and manage applications
- No infrastructure to manage

Serverless



Major benefits

Cost optimization

- Pay as you go
- Take advantage of CSP's economy of scale

Reliability

- Built-in high-availability of services
- Easy Disaster Recovery and Business Continuity

Flexibility

- Hundreds of easily affordable services
- Integrate with on-prem solutions and data centers

Elasticity

- Scale up or down, in or out on the fly
- In matter of a few clicks and a few minutes

Security

- Shared security model
- Built-in security and encryption mechanisms



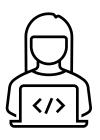
Challenges to keep in mind



Legislation



Security



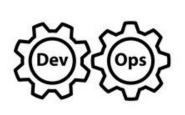
Talent





Cloud mindset





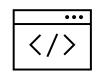






2 pizza team





Infrastructure as code



CI/CD



Adopt the cloud - best practices

Educate Staff

Create a culture of experimentation

Pick your partners

Create Cloud center of excellence

Implement a hybrid architecture

Implement a Cloud-first strategy



Cloud Migration Strategies

Rehosting

- Lift and shift
- Usually, the early cloud migration projects
- Allow your team to get better acquainted with cloud

Replatforming

- The core architecture of the application does not change
- Some cloud optimizations which produce tangible benefit e.g., move to a database-as-a-service platform while migrating web application

Repurchasing

- Moving to a different product
- Usually, move from on-prem to SaaS product



Cloud Migration Strategies

Re-architecting

- Re-imagining how the application is architecture, typically using cloudnative features
- Tends to be more expensive, but can add new feature previously not supported by on-prem solution

Retire

- Get rid of!
- Typically, as a result of assessing your environment and ownerships

Retain

- Revisit later or do nothing
- Recently purchased, developed or upgraded solutions





Opportunities

Business volumes growth

 More companies using cloud = more companies that need help in the cloud

Partnerships

- Image building
- Sales leads

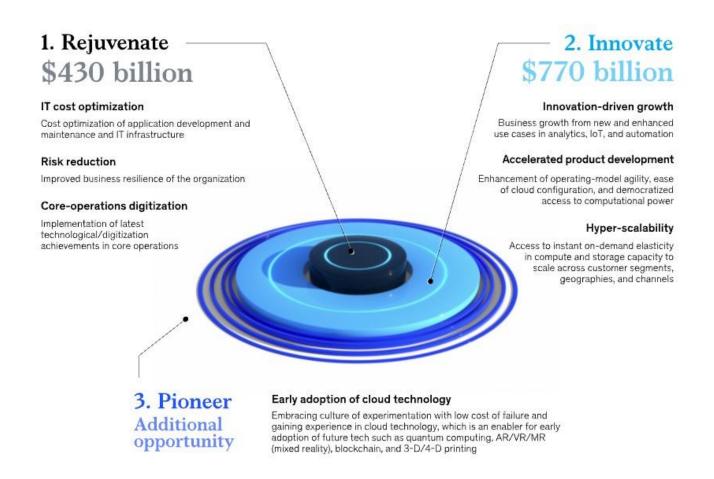
Marketing

- Co-marketing
- Marketplace
- Funding Marketing
- Funding projects



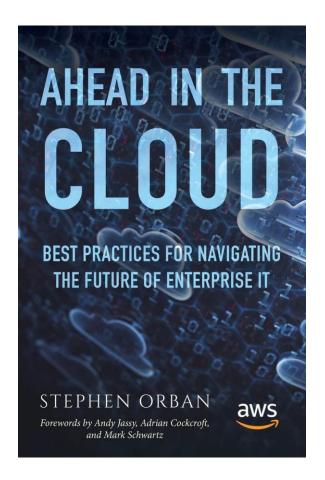
Value in the cloud

"Cloud's trillion-dollar prize is up for grabs" McKinsey Article, Feb 2021

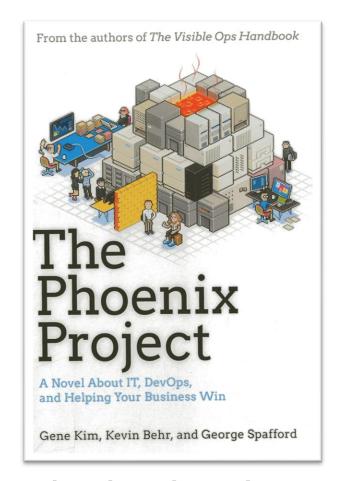




Reading suggestions



"Ahead in the cloud"
Stephen Orban



"The Phoenix project"
Gene Kim, Kevin Behr,
George Spafford





Thank you!

Let's discuss..