



XILLION
PARTNER IN ICT-OPLOSSINGEN

To Cloud or not to Cloud



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Topics

- Definiton of the Cloud
- Pro and Cons
 - OPEX versus CAPEX
 - Compliance versus Compliance
 - Natures Limitations
- The Past, Present and Future
- Unsolved challenges in Cloud services

Definition(s) of Cloud (Computing)

Cloud computing is a style of computing which scalable and elastic IT-enabled capabilities are delivered as Internet technologies. (Gartner)



The image is a meme. It features a central graphic of a yellow cloud with a sad face (red slanted eyes and a jagged red mouth) and a teal outline. Below the cloud, the text "There is no cloud it's just someone else's computer" is written in a white, rounded font. The background is a collage of cloud computing definitions and icons. On the left, a dark grey cloud icon contains a magnifying glass and a document, with a red 'X' over it. Below it, the word "Private" is visible, followed by a bulleted list: "• Single tenancy implementation", "• Owned and operated by the IT organization", "• Defined management and control", and "• Self-service automation provided by the provider". On the right, a dark blue cloud icon contains icons for an envelope, a smartphone, a group of people, and a lightbulb. Below it, the words "Multi-tenant", "Multi-tenant", "Multi-tenant", and "Multi-tenant" are visible, along with "service and capabilities" and "Cloud".

What is with all those aaS's?

BaaS – Back-up

DRaaS – Disaster Recovery

IaaS – Infrastructure

Naas – Network

PaaS – Platform

SaaS – Software

...

Some other names:

Hosting

Colocating



you decide what it means for you



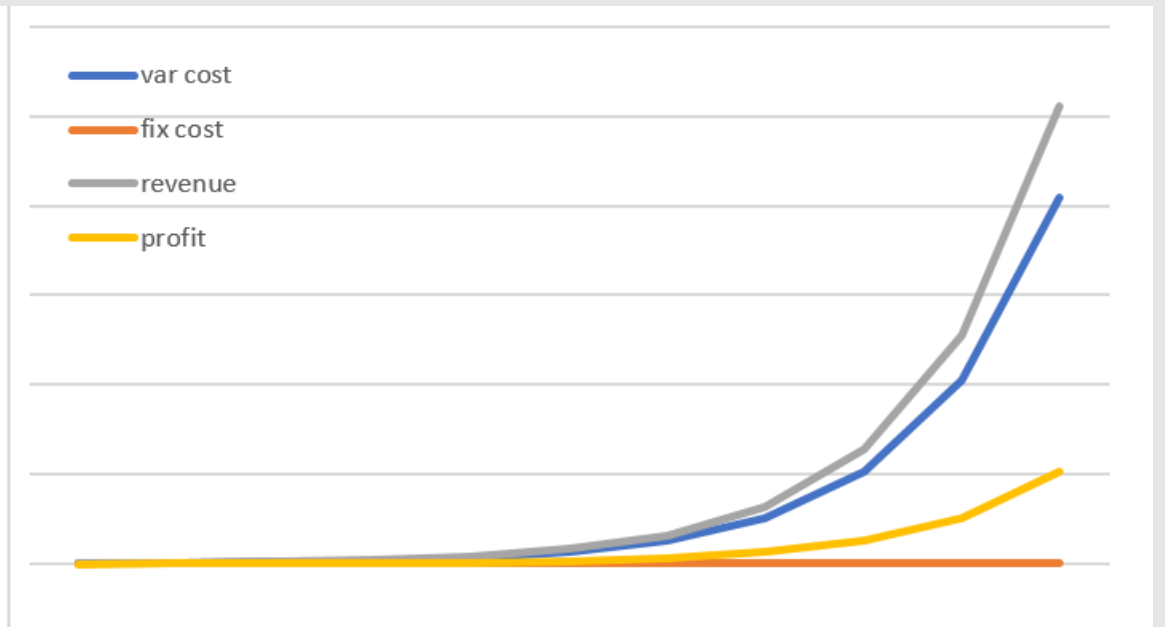
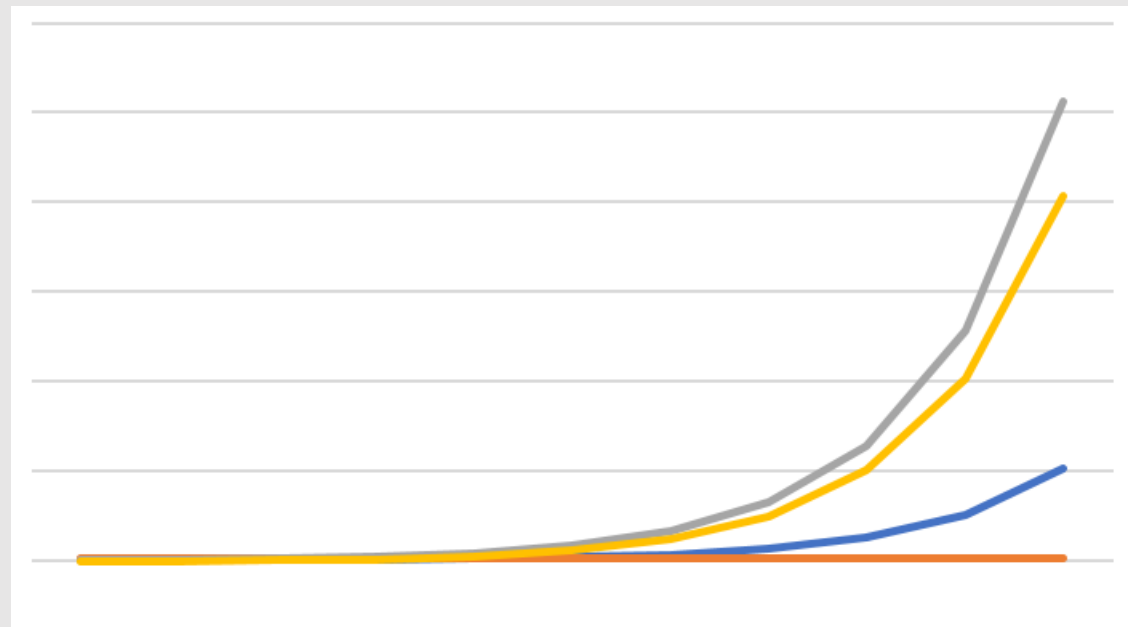
Opex vs Capex

OpEx:

- Flexible
- Pay per use
- Less risk
- Cloud is not a requirement
- Less predictable

CapEx

- Fixed
- Fixed cost
- In control
- More profitable
- I know where





Compliance

- Are there blocking regulations?
 - EU/National/Industry/Customers
- Are there requirements for some regulations?
 - EU/National/Industry/Customers
- GDPR: Well.. Guess what.. It depends..
 - Type of data you process





Nature vs. technology

- Latency
 - Speed of Light
 - Follow the user
- Availability
 - $99,9$ (8 h 46 min) x $99,9$ x $99,9$ = $99,7 \cong 26$ h 15 min
- How to move on?
 - Computing power and data grow 10x every 5 years
 - Bandwidth only at a factor 5,6x

A silver metal signpost stands against a bright blue sky filled with fluffy white clouds. Three white arrow-shaped signs are attached to the post. The top-left sign points left and is labeled 'PRESENT'. The top-right sign points right and is labeled 'FUTURE'. The bottom-left sign points left and is labeled 'PAST'.

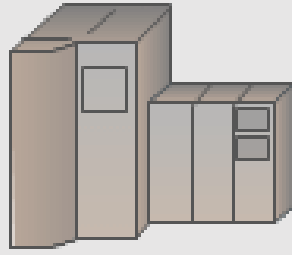
PRESENT

FUTURE

PAST

High Level 1960-2020

Central



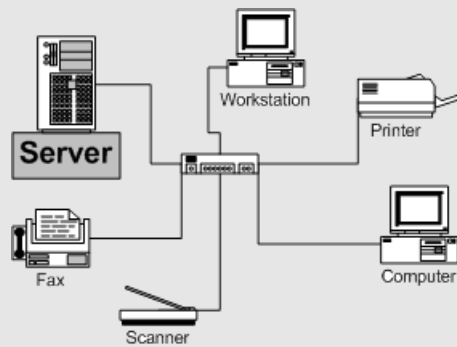
Main Frame



Cloud

Product
(HW/SW)

Service



Client Server



Smart Devices

Local
Distributed
Personal?



Zoom 2000-2017

Internet Bubble 2001

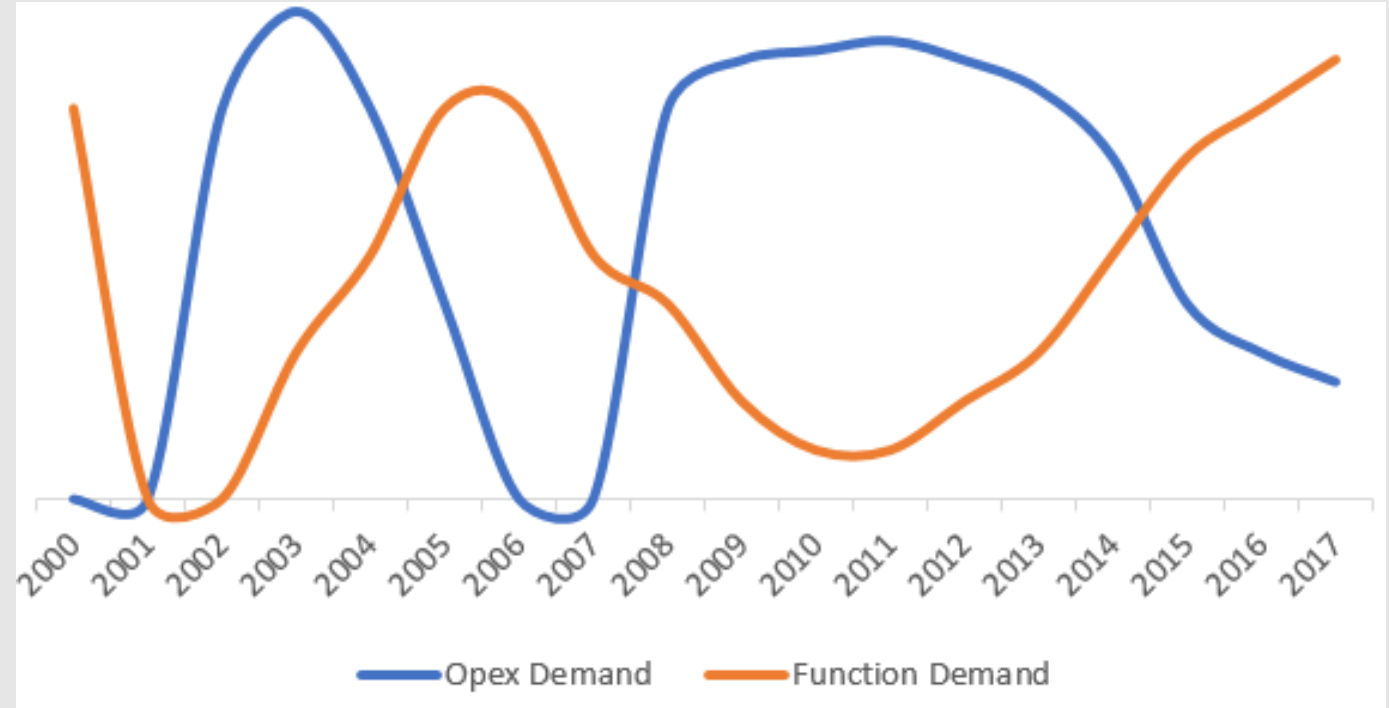
Bank Crisis 2008

Cloud = customer binding

Raising profit by upsell

Cloud-tech is coming home

- Hyperconverged Infra
- Azure Stack
- Office 2019
- Edge technologies
- Smart Devices / IOT





So you thought the Cloud was the solutions for everything?

Resume

- Everyone will be using some kind of Cloud
- If you like it depends on your preferences
- Cloud is to stay
- Data Management important
- Cloud is not the solution for everything



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