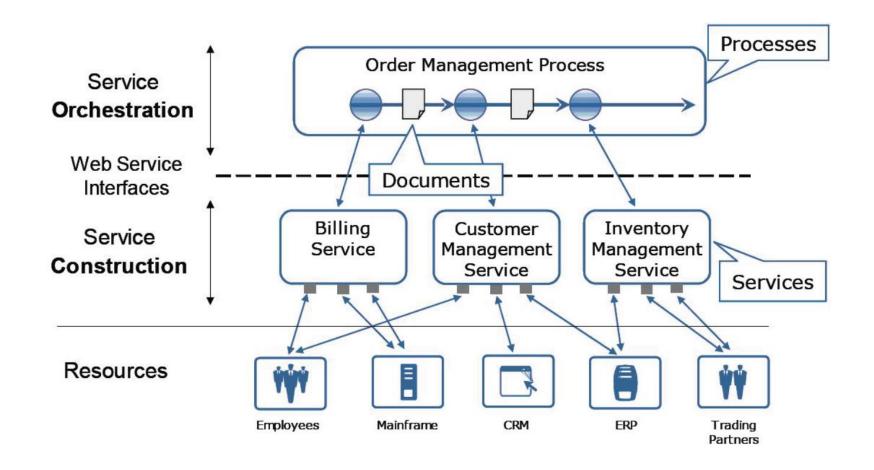
Sevrice oriented architecture

Service oriented architecture

• What is service oriented architecture?

• Groups of 2-3, some minutes to discuss and prepare for presenting

SOA concept



Benefits and challenges

What are the potential benefits of service oriented architecture?

• Groups of 2-3, some minutes to discuss and prepare for presenting

SOA and platforms

- Is service oriented architecture and platform ecosystems the same?
 - If yes, why and how?
 - If no, what are the differences?
- Groups of 2-3, some minutes to discuss and prepare for presenting

ECONOMIC PERSPEKTIV

(Parker, van Alstyne, Choudary

ry Gestfray G. Parkar Machall W. Was, Gatype Surgest Past Cloudery Gyrenthess

Plattform

"A business platform is a nexus of rules and infrastructure that facilitate interactions among network users. A platform may also be viewed as a published standard, together with a governance model, that facilitates third party participation".

Økosystem

Two or n-sided markets grow by network effects, not on traditional economies of scale.

TEKNISK PERSPEKTIV

Tiwana 2013.



Plattform

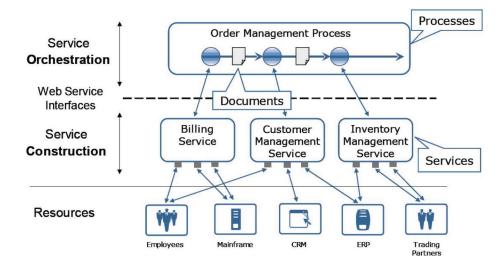
"A platform is the extensible codebase of a software-based system that provides core functionality shared by apps that interoperate with it"

Økosystem

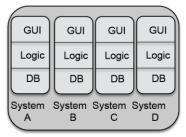
A digital ecosystem consists of the collection of platform and the apps specific to it.

SOA and platform ecosystems

SOA



IT silos



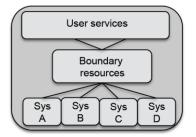
IT silos: Systems designed for separate user groups, with a 3-layer structure of GUI, business logic and database.

Platformization process

Platformization: A process where an IT silo architecture is gradually restructured into a hybrid platform, through 3 steps:

- Establishing boundary resources
- Stabilising data layer
- (Re)designing user services

Hybrid platform

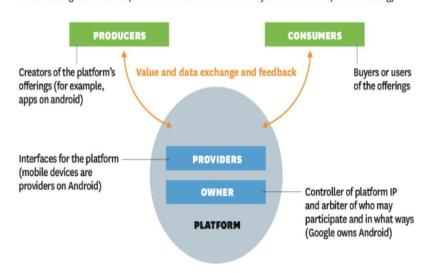


Hybrid platform: A platform structure where boundary resources connect silo systems and user services

Boundary resources: Tools and regulations that serve as an interface between systems and user services

The Players in a Platform Ecosystem

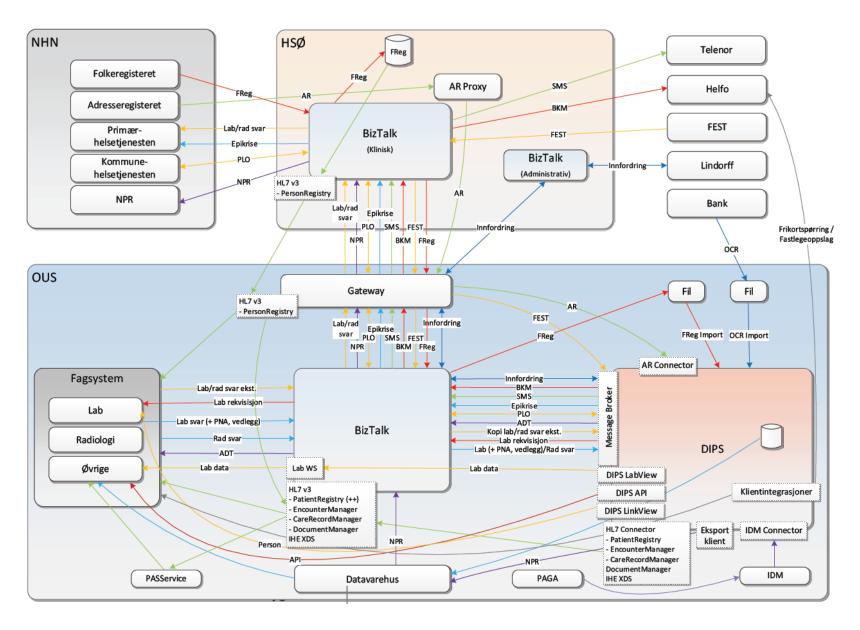
A platform provides the infrastructure and rules for a marketplace that brings together producers and consumers. The players in the ecosystem fill four main roles but may shift rapidly from one role to another. Understanding the relationships both within and outside the ecosystem is central to platform strategy.



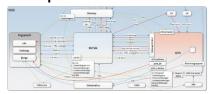
SOURCE MARSHALL W. VAN ALSTYNE, GEOFFREY G. PARKER, AND SANGET PAUL CHOUDARY FROM "PIPELINES, PLATFORMS, AND THE NEW RULES OF STRATEGY," APRIL 2016

HBR.ORG

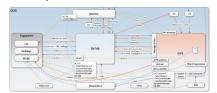
Integrated silo architecture



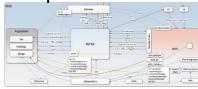
Hospital A



Hospital B



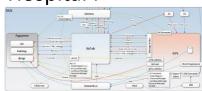
Hospital D



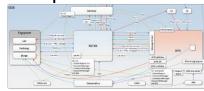
Hospital E



Hospital I



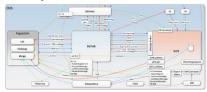
Hospital G



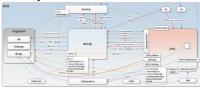
Hospital J



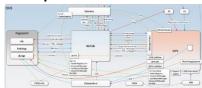
Hospital C



Hospital F



Hospital H



Hospital K



Transformation into a SOA

 What to look after if you are going to start implementing SOA in an organization where there is silo architecture?

• Groups of 2-3, some minutes to discuss and prepare for presenting

SOA concept

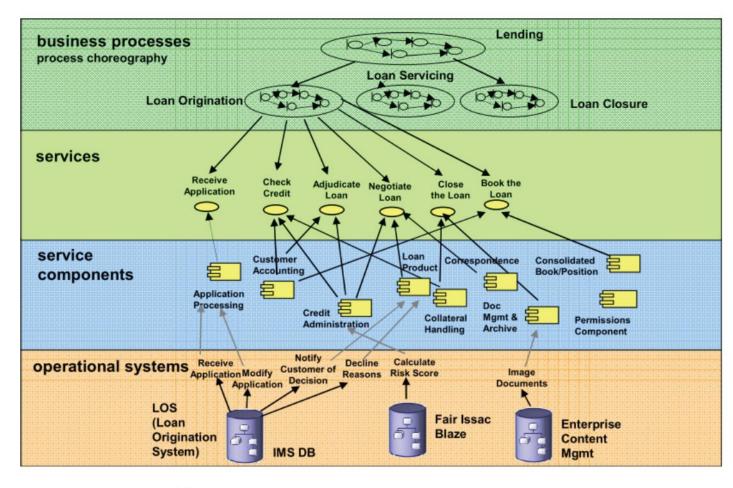


Figure: http://abdennour-insat.blogspot.no/2012/04/soa-tutorial.html