

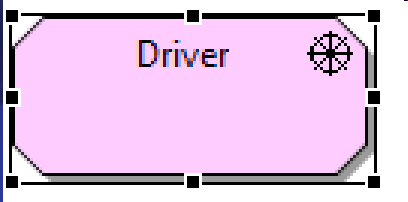
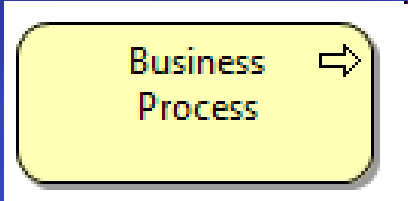

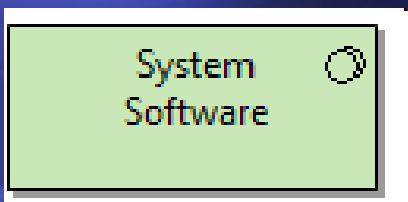
Using EA to plan your move to the Cloud

Fabio Castiglioni

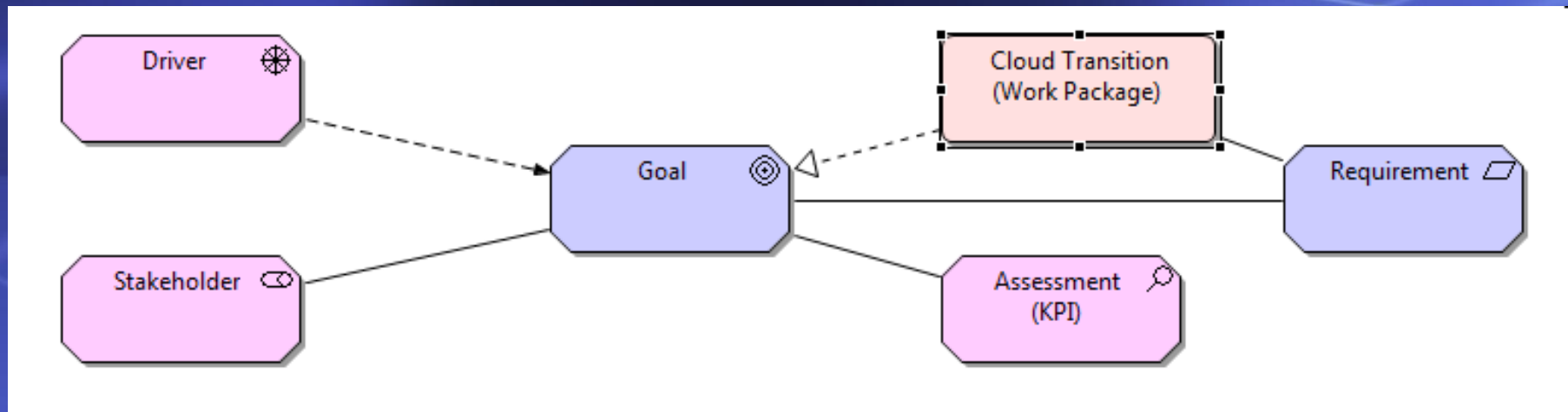
Executive IT Architect

IBM Government Sector

What is in an Enterprise Architecture

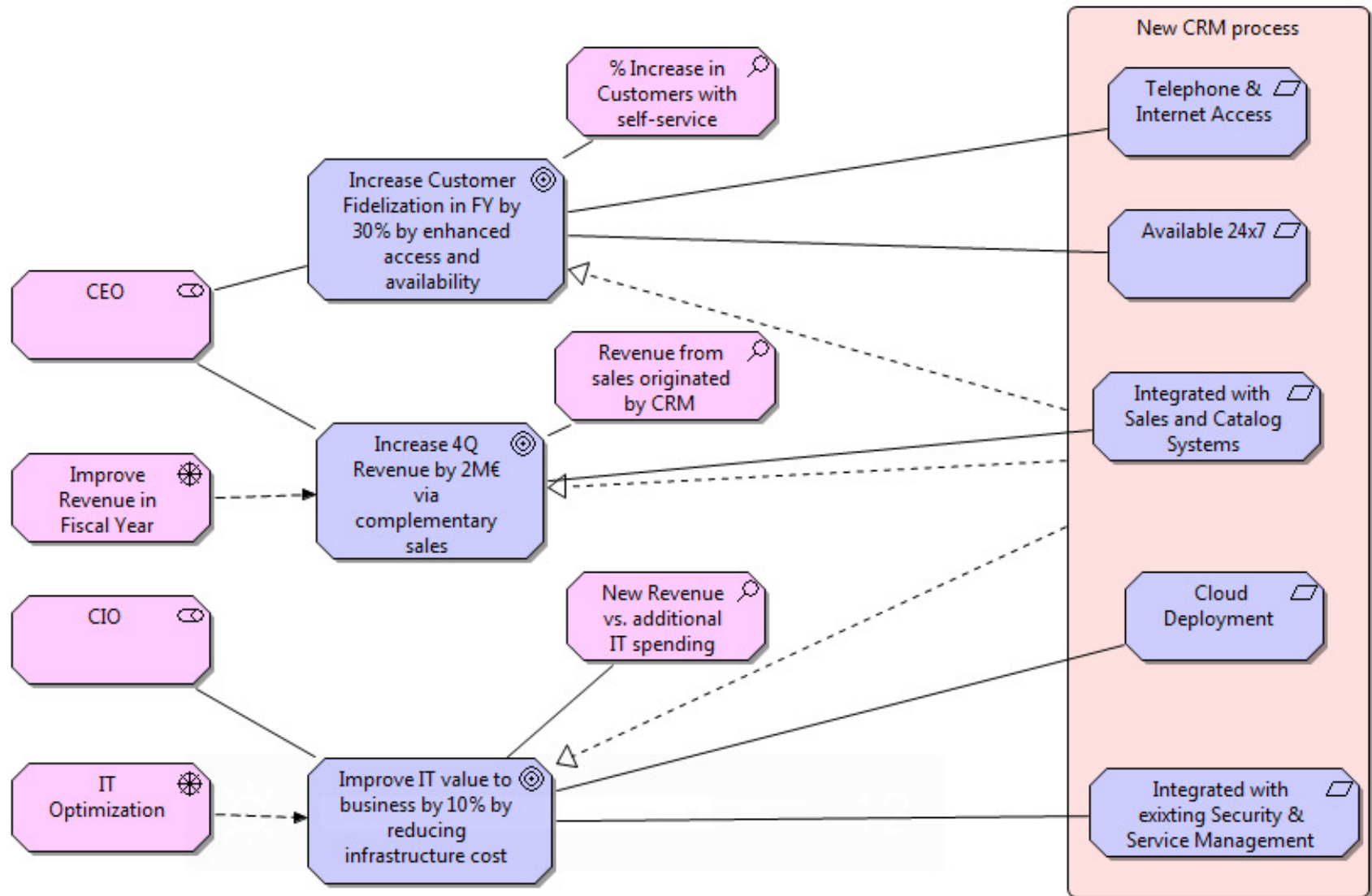
Motivation		Why do you want to go Cloud?
Business Operations		Can you consider BPaaS for Operations?
Application Portfolio		Are SaaS services adequate to requirements?
Infrastructure		How does PaaS/IaaS fit with in-house HW and Middleware?

Motivation

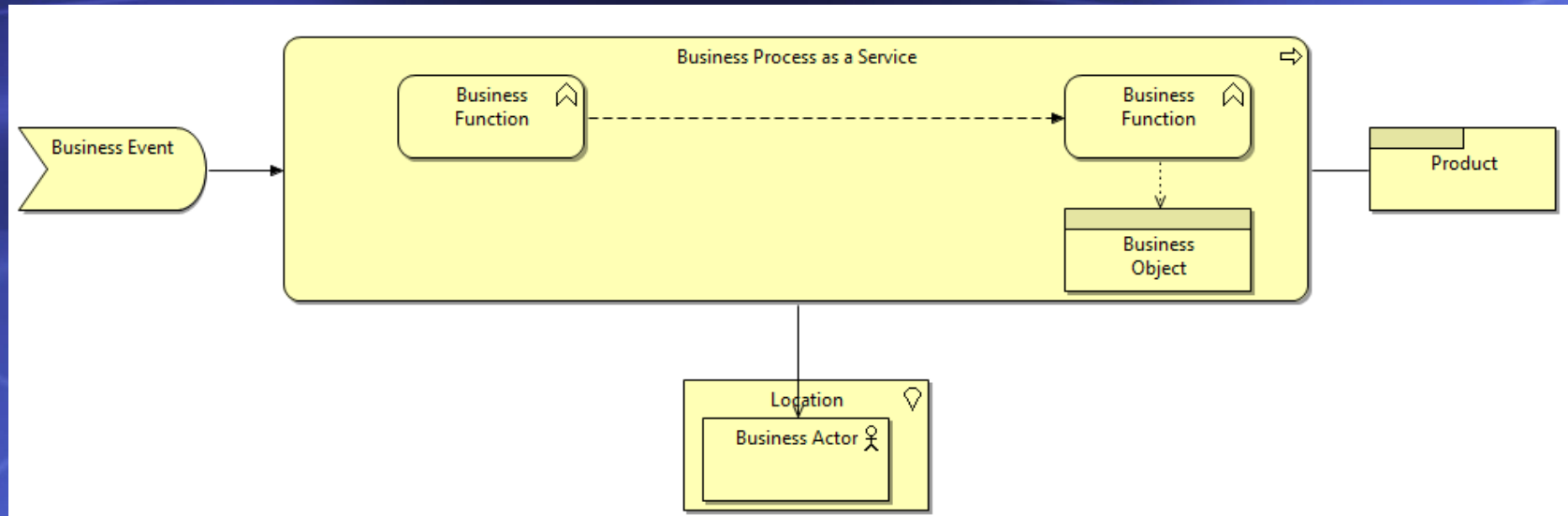


- Understanding the Motivation model of the transition to Cloud Services is important to:
 - **Identify Requirements**
 - **Identify measure of success**
- **Business Goals originate Requirements** for the Cloud transition - functional and non-functional
- Goals attainment will be **measured (assessed) via KPIs**

Ex: Motivation for a CRM in Cloud



Business Services

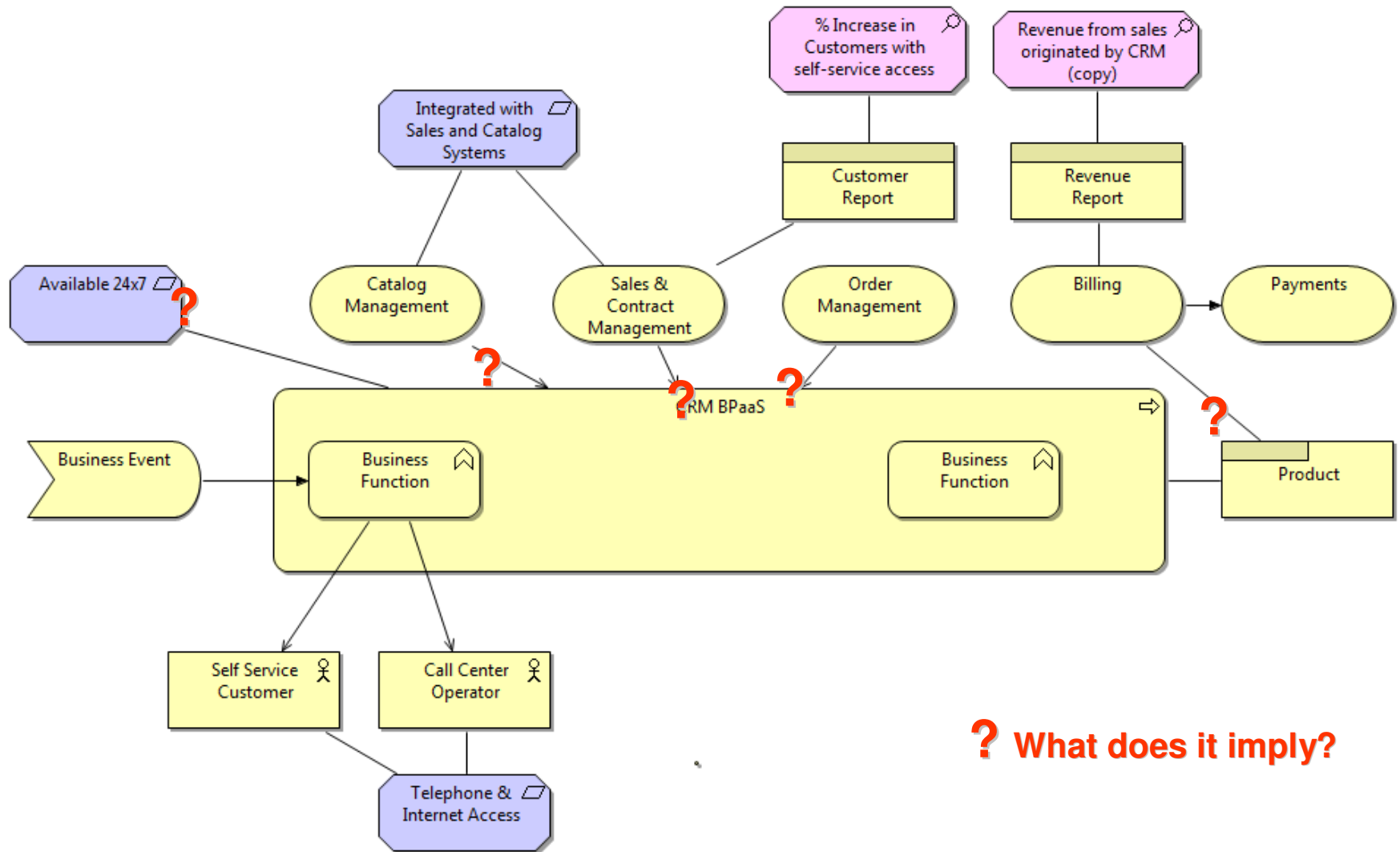


- If the Cloud service supports an existing Business Process, its representation may add documentation value only
- If it is a new process (BPaaS), modeling it will give substantial insight in its operations (e.g. users, triggering events, business objects and products managed)

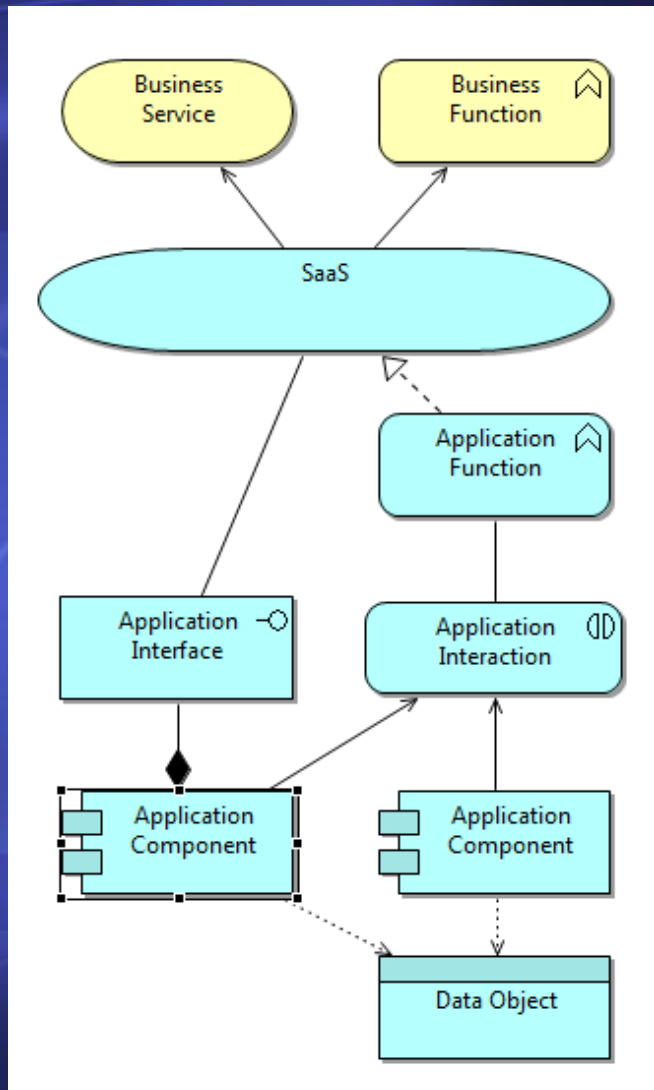
In any case the following process questions will have to be answered before using Cloud services:

- Orders and Contracts
- Billing and Payments
- Help Desk and Support
- Service Monitoring
- **Security & Auditing**

Ex: BPaaS checklist



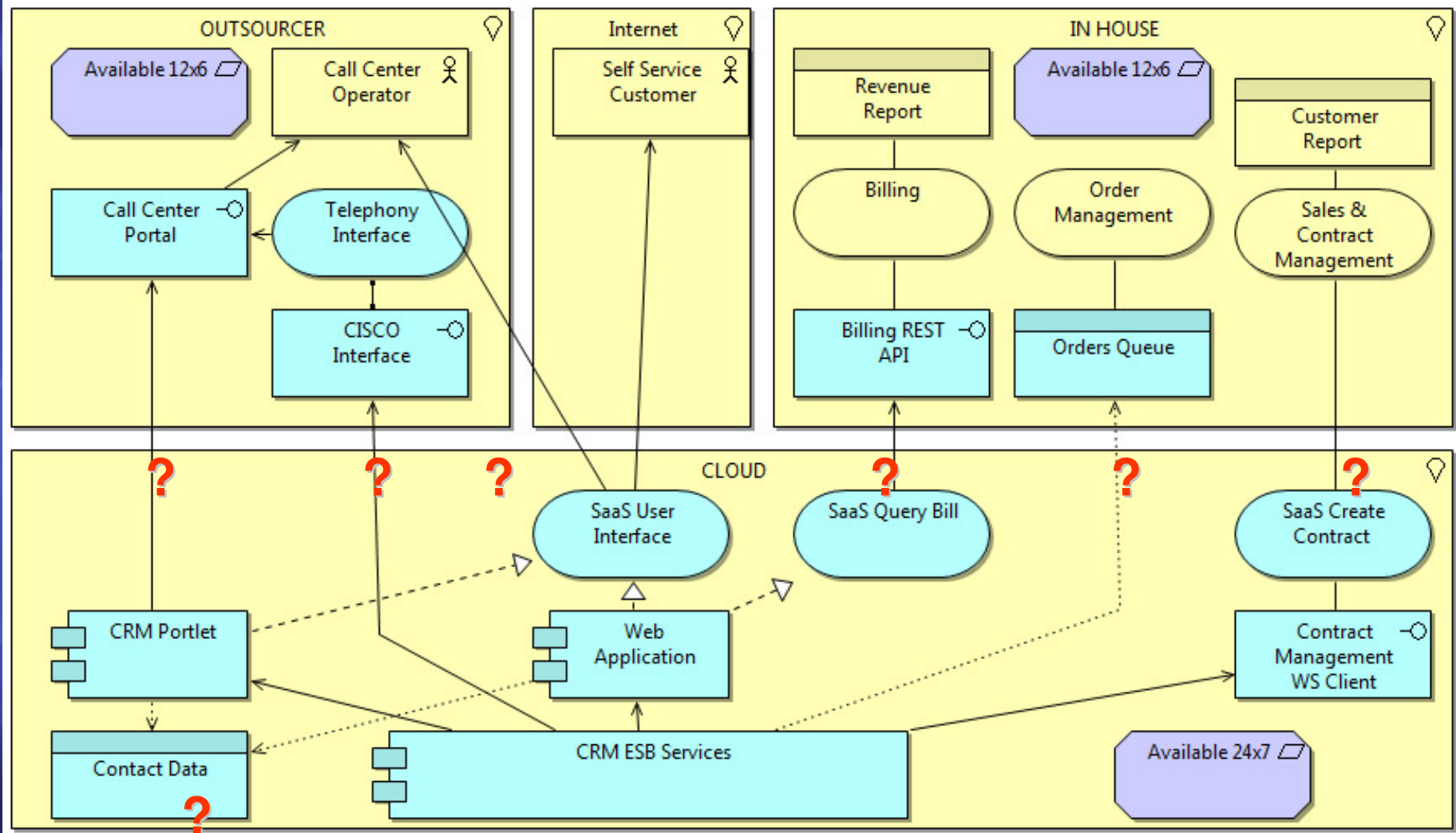
Application services



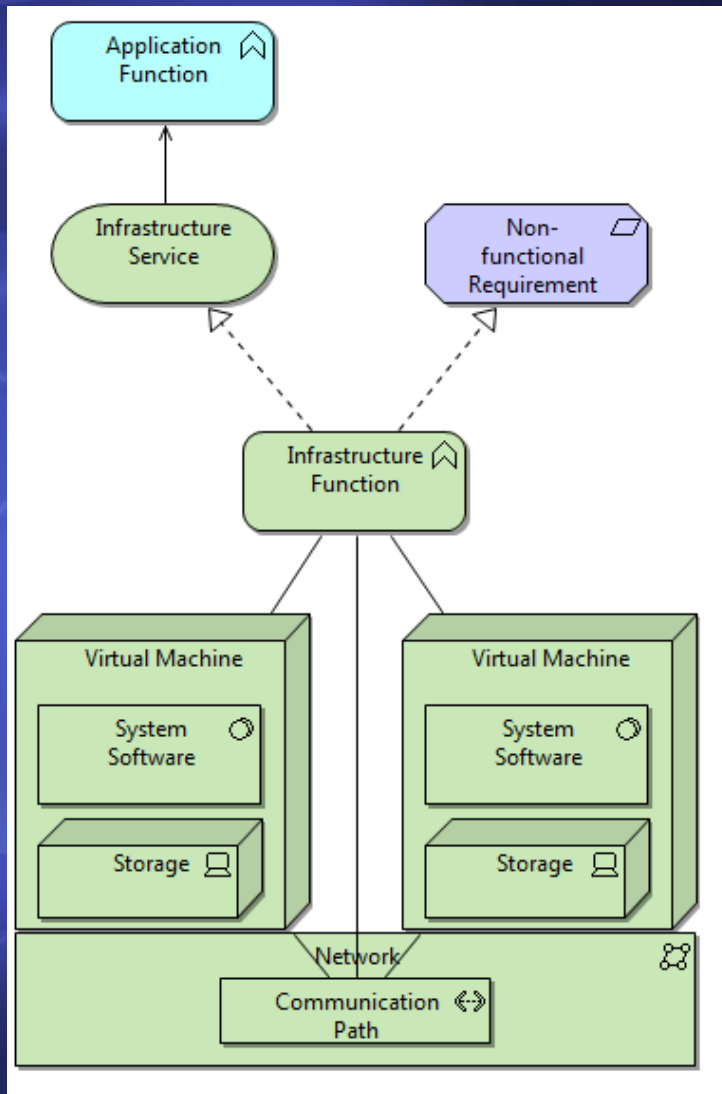
In a Cloud Service the internal structure of the SaaS Application may not be our concern, but we need to check:

- That all required business functions and services are supported by a corresponding SaaS service
- That the interfaces exposed by the SaaS are adequate to integrate with in-house or external applications
- That the data produced are adequate to fulfill our information need
- That there is a viable solution to connect cloud and in-house data
- That all functional and non-functional requirements can be satisfied

Ex: Hybrid SaaS

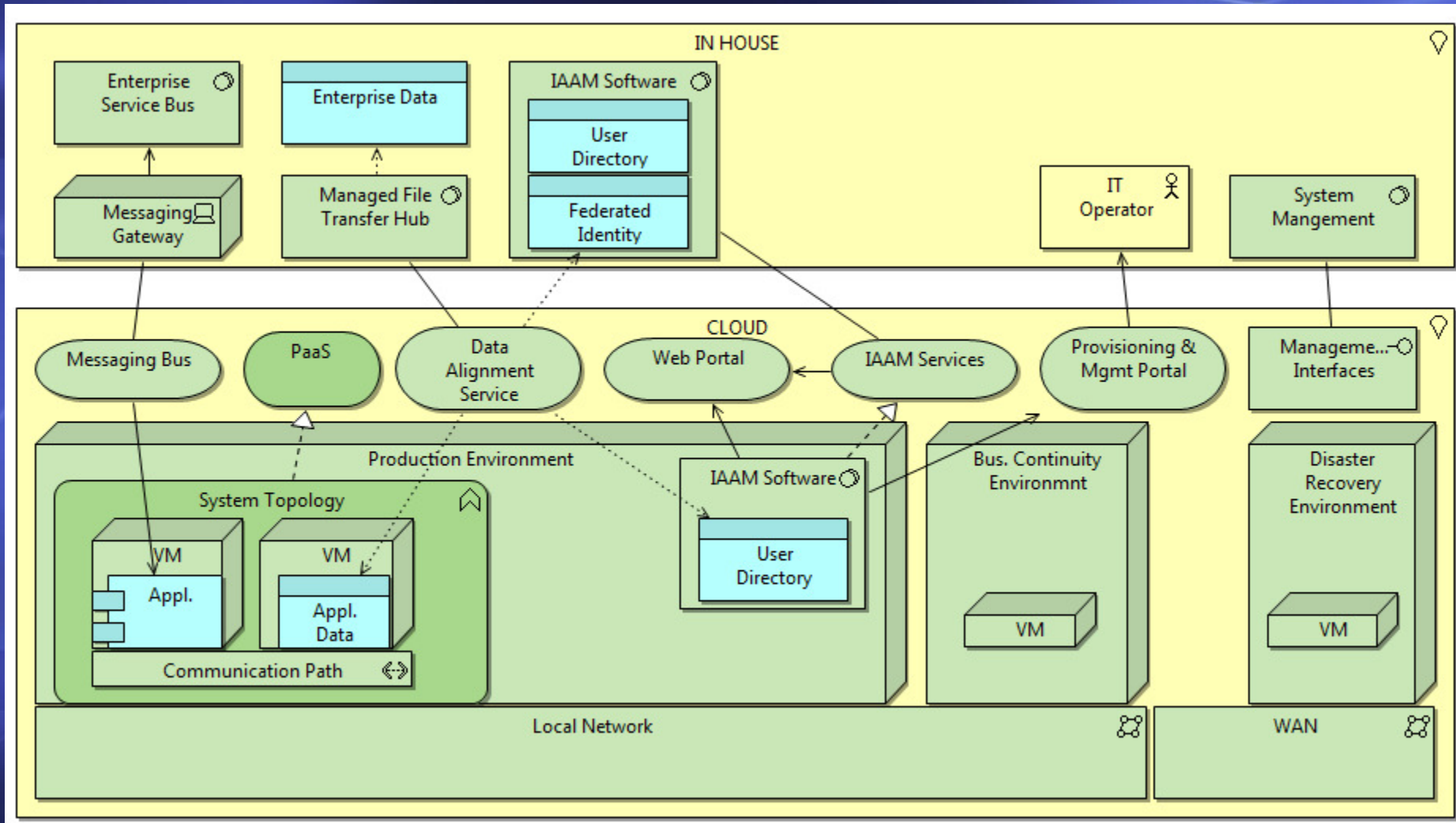


Technology services



- We need to model our virtual infrastructure at the logic level only
- The real infrastructure of the Cloud Service should not be our concern except for :
 - the due diligence needed to check that it supports our non-functional requirements
 - the Integration of in-house & cloud:
 - identity & access management
 - data
 - messaging
 - system management
 - Security and Auditing

Ex: PaaS Infrastructure



Summary

- Adopting a Cloud approach may reduce capital and operation costs but does not reduce planning and architecture work
- Depending on the type of service you are considering (BPaaS, SaaS, PaaS/IaaS) the focus of the work will vary, but a top-down EA approach is always advisable
 - to know how to measure your returns
 - to assess impacts to your business operations
 - to understand how to handle the hybrid cloud/on-premises environment
 - to integrate the cloud in the remaining of your IT infrastructure

Thanks