

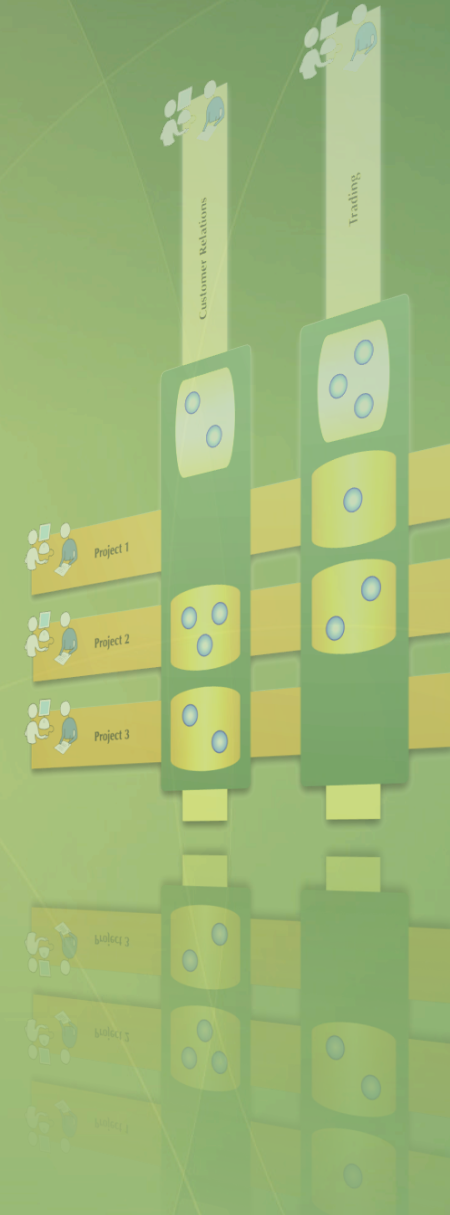
Steering the Northwest Passage Beginning an SOA Initiative

Ian Robinson, ThoughtWorks

<http://iansrobinson.com>

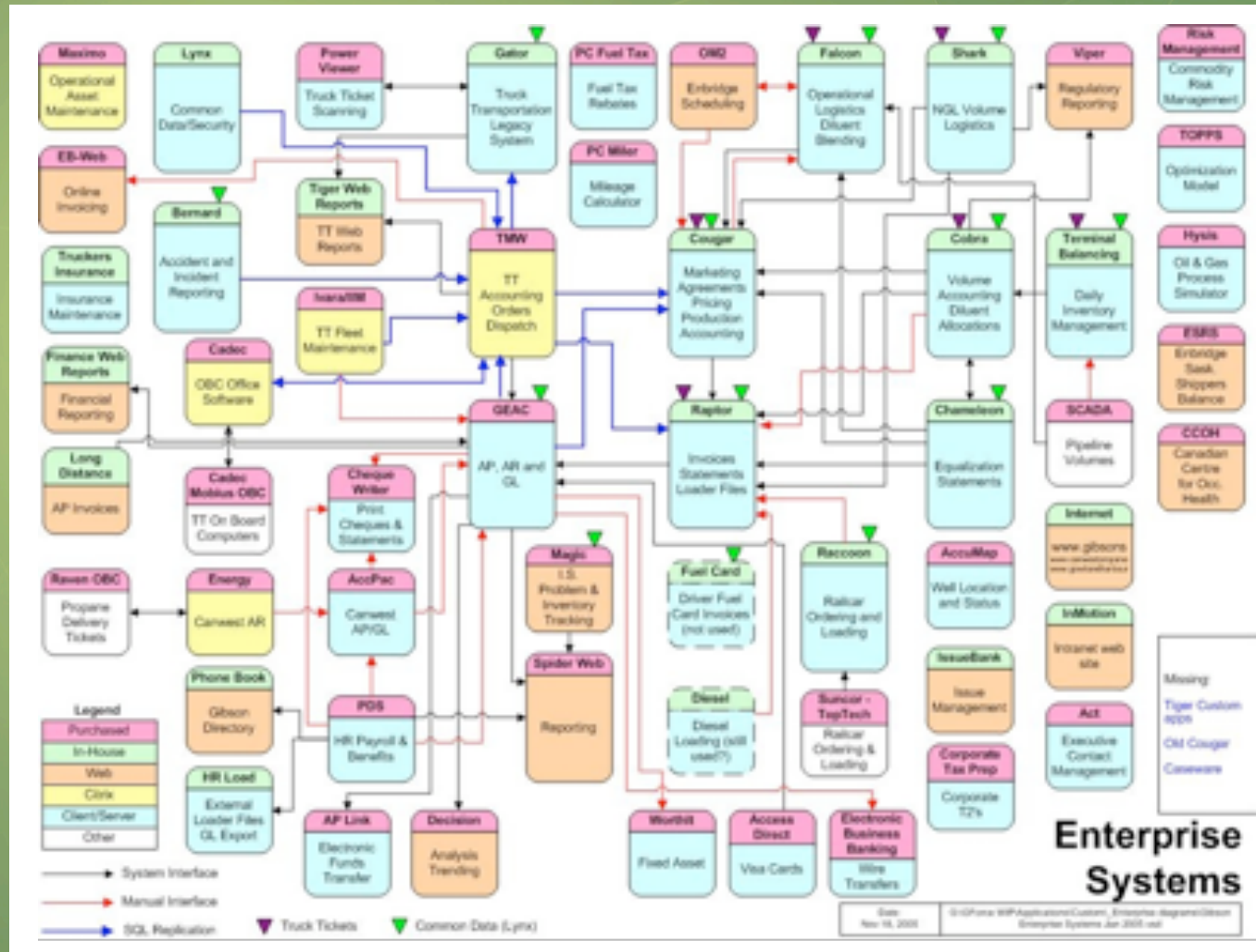
Overview

- Where to Start?
- Stories and Capabilities
- Services and Contracts
- Delivery



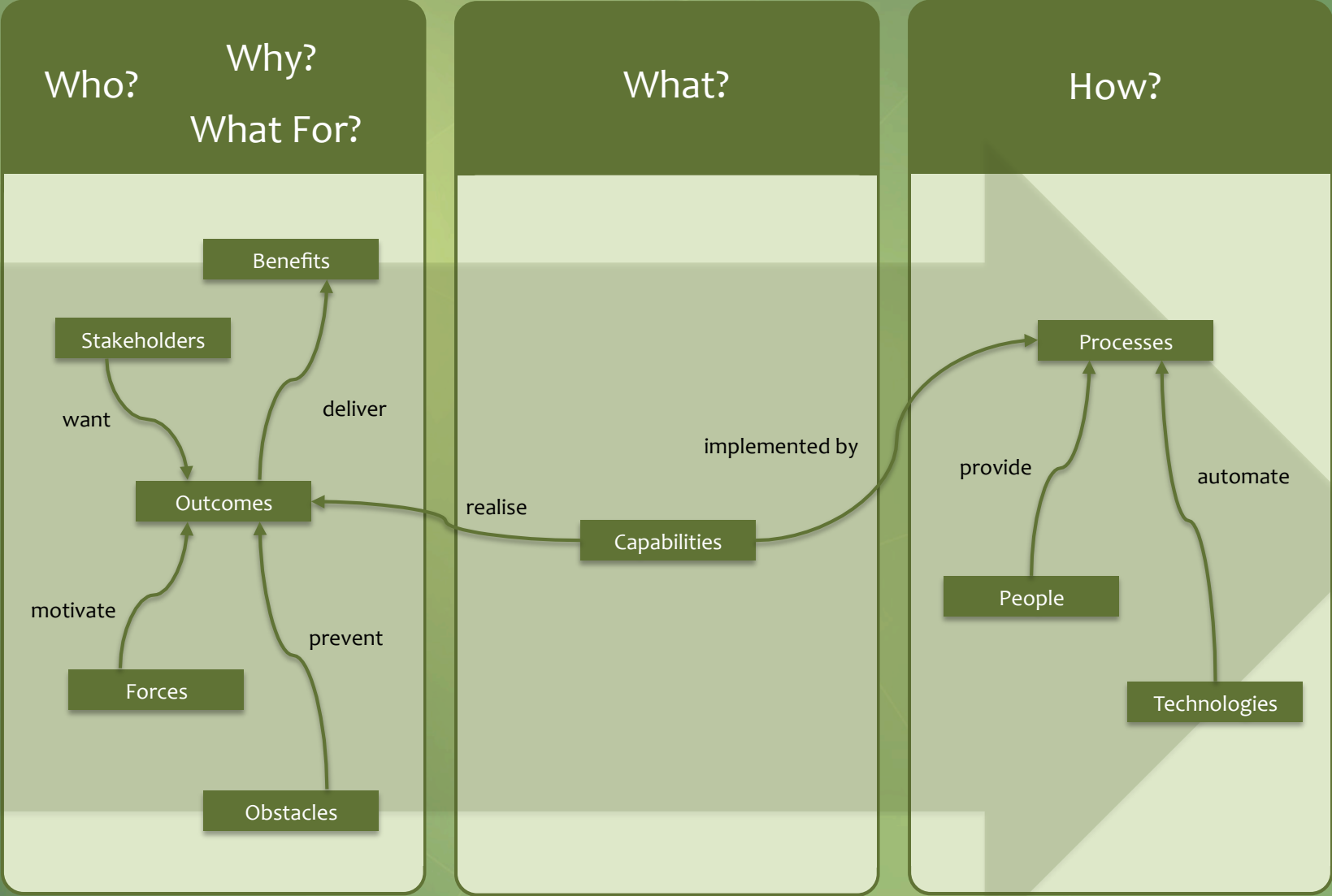
Where to Start?

Beckett's Dilemma



Client: Midstream oil and gas

A Map of the Territory



Stories, Capabilities, Services and Contracts

What

Stories

Describe goals
& outcomes

Capabilities

Resources to
realise
outcomes

Contracts

Assert
interactions
between
services

Services

Host
capabilities

How

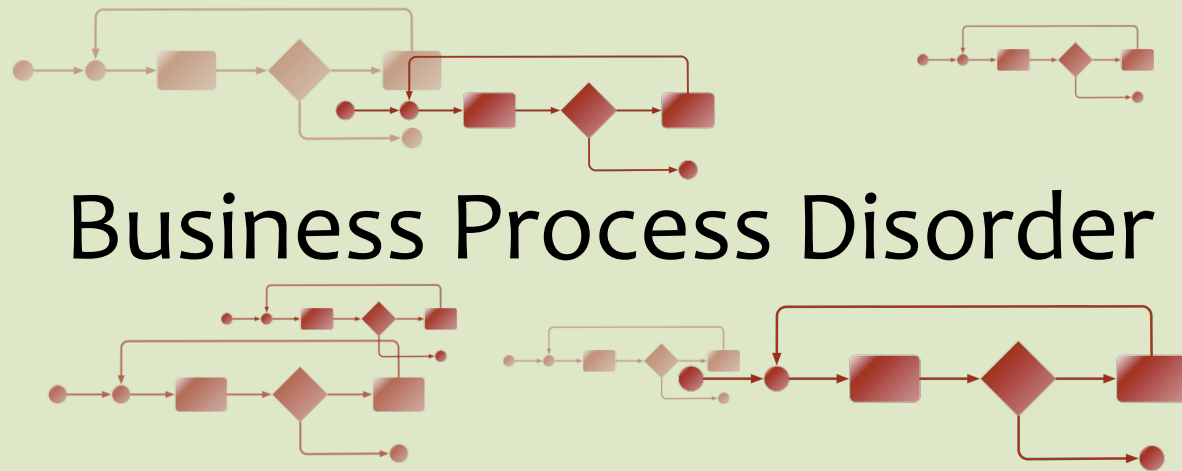
Stories and Capabilities

Communication Barriers

Business



IT



People Change, Processes Change, Technologies Change...

What

Source
spare parts

How



Questions, Questions...

How (well) do you **implement** this capability today?

Is it **core** to your business?

Does it **differentiate** you from
your competitors?

Who's **responsible** for its
execution when systems fail?

User Stories

Outside-in

Outcomes

As a <role>
I want <feature>
So that <benefit>

Value

External
behaviour

Features: Outcomes and Capabilities

Story

Role

Value

Feature

A diagram illustrating the relationship between a Story, Role, Feature, and Value. A central sphere is divided horizontally into a top half (light brown/gold) and a bottom half (red). The word "Feature" is written across the center of the sphere. To the left of the sphere is the word "Role" and to the right is "Value". The entire scene is contained within a light green rounded rectangle. On the left side of this rectangle is a dark green vertical bar with the word "Story" written vertically in white. The background of the slide is a dark green gradient with faint white lines.

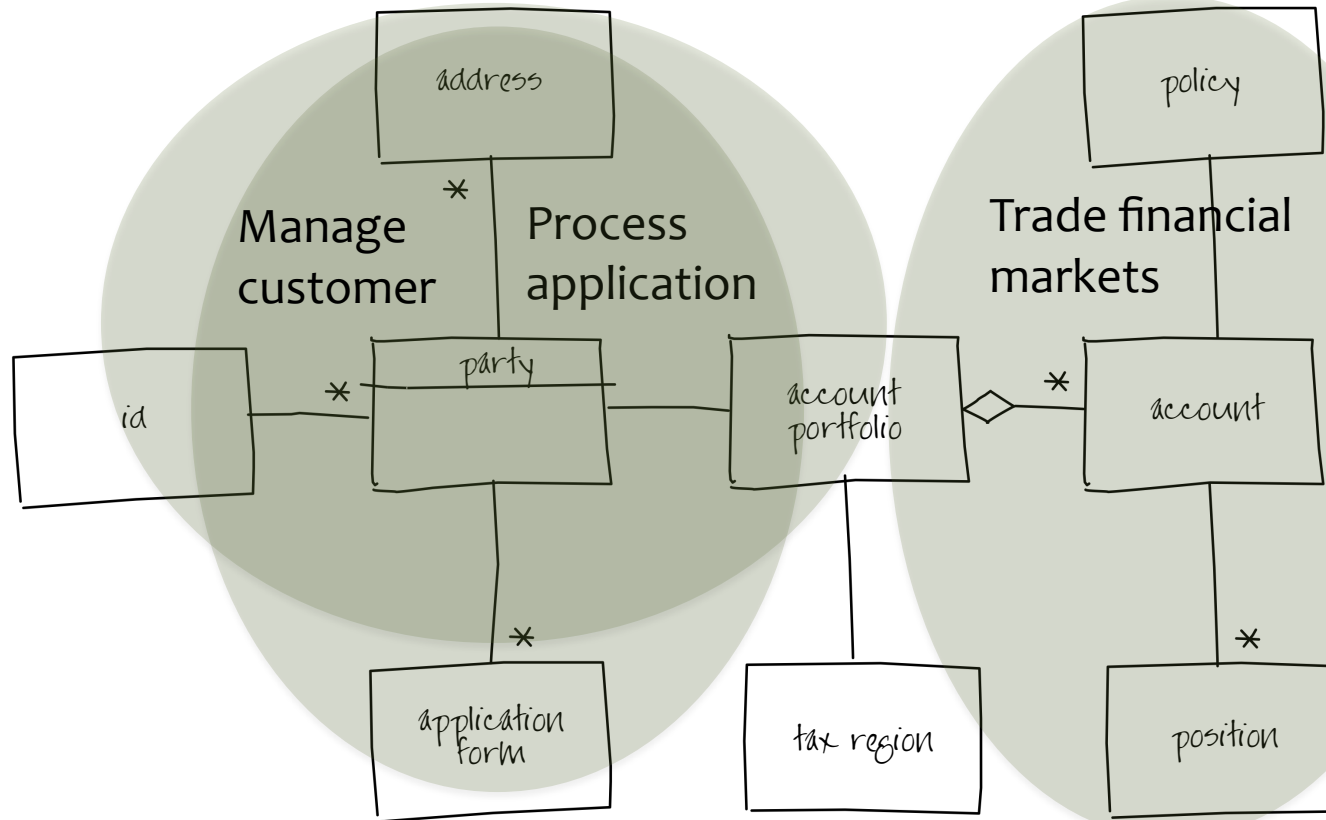
Outcome-Focused Stories

As a <role>
I want <outcome>
So that <benefit>

Responsibility-Focused Stories

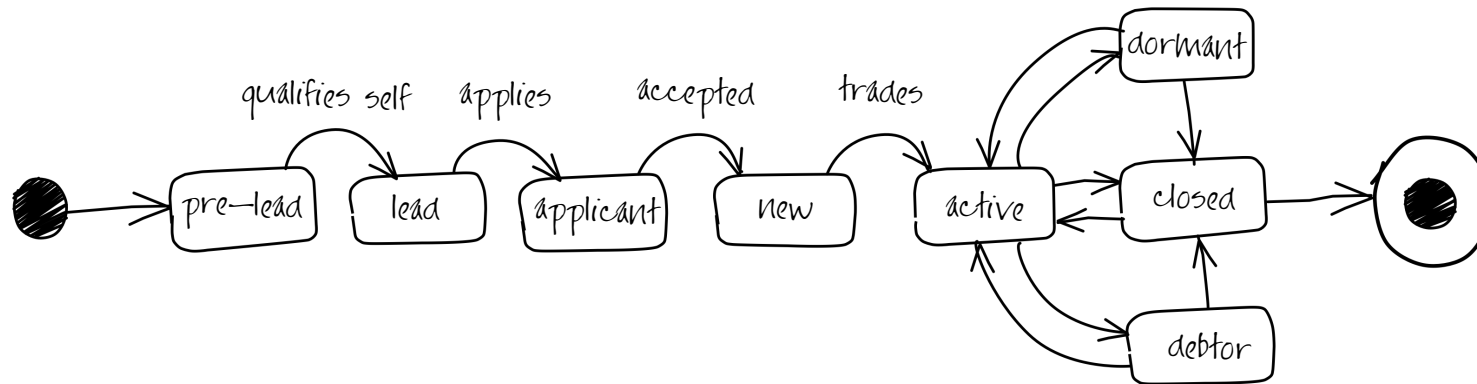
As *<role>*
I am responsible for
***<outcome>*,**
Which delivers *<benefit>*

Business Entity Domain Model



Client: Financial services

The Entity Lifecycle



Client: Financial services

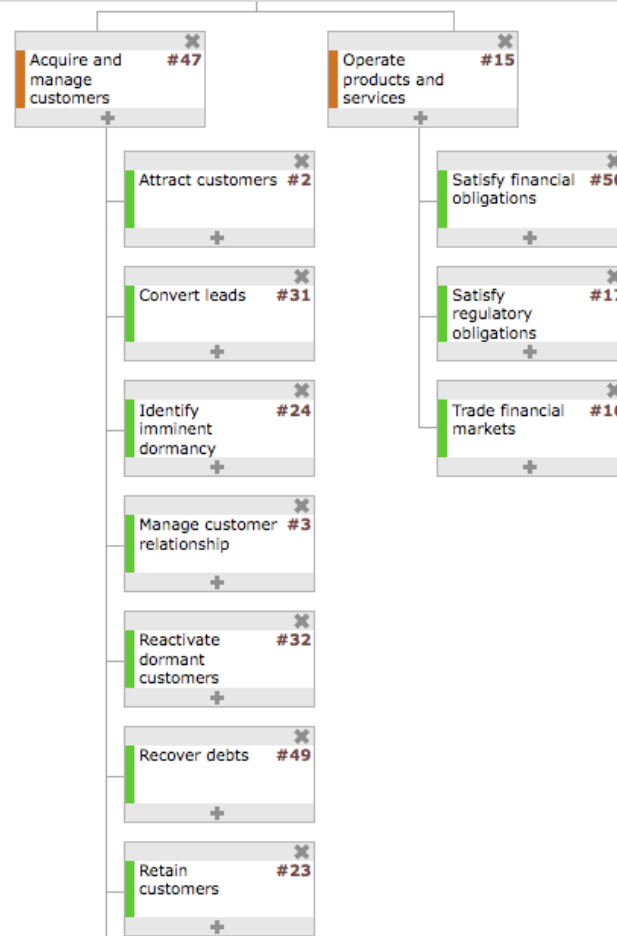
Capability Map

Select tree: **Capabilities** ▾

View as: List Hierarchy Grid **Tree**

Configure current tree Manage trees

View tree configuration Link to this page



Capability Map

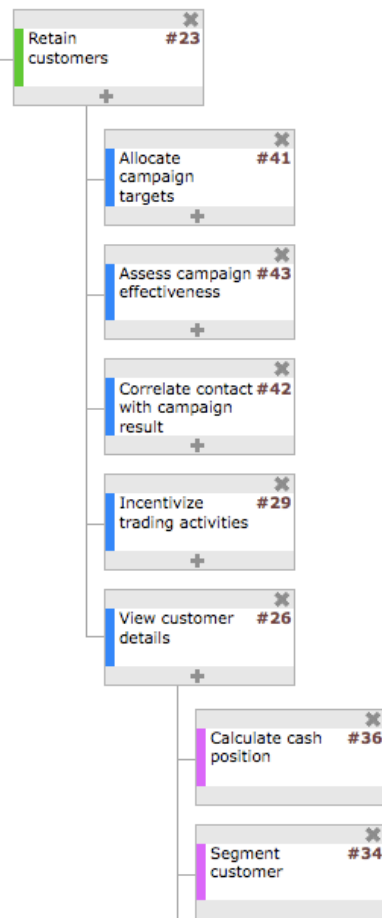
Select tree: **Capabilities** ▾

View as: List Hierarchy Grid **Tree**

[Configure current tree](#) [Manage trees](#)

[View tree configuration](#) [Link to this page](#)

[<](#) [>](#) [Reset](#)



Capability Map

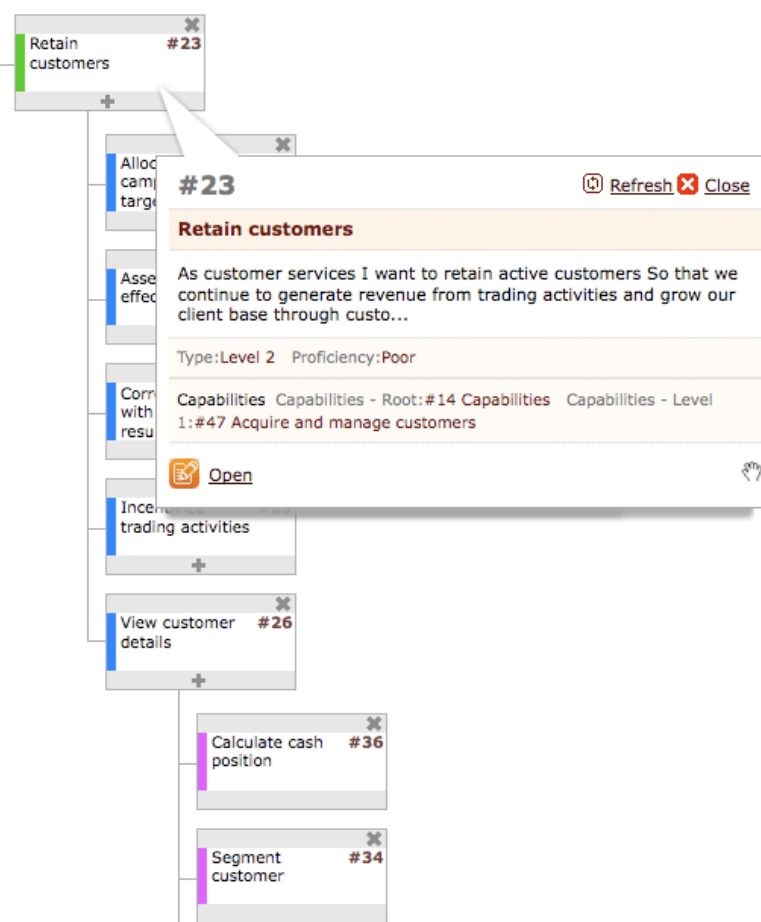
Select tree: **Capabilities**

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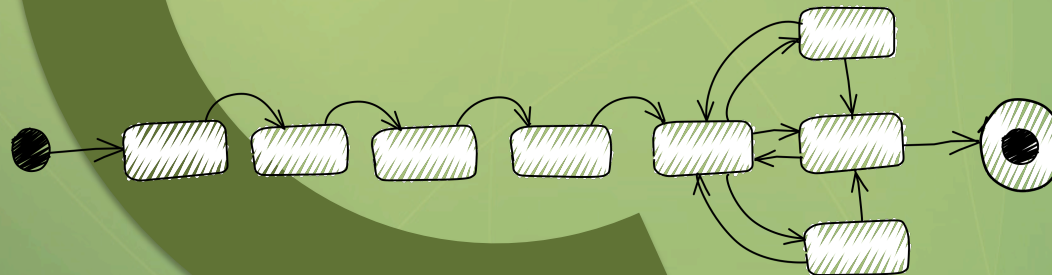
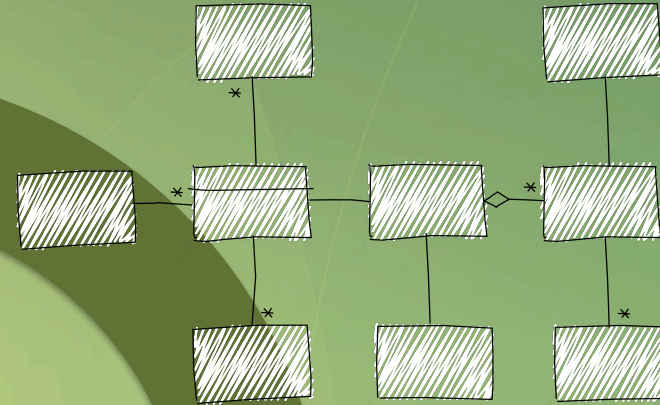
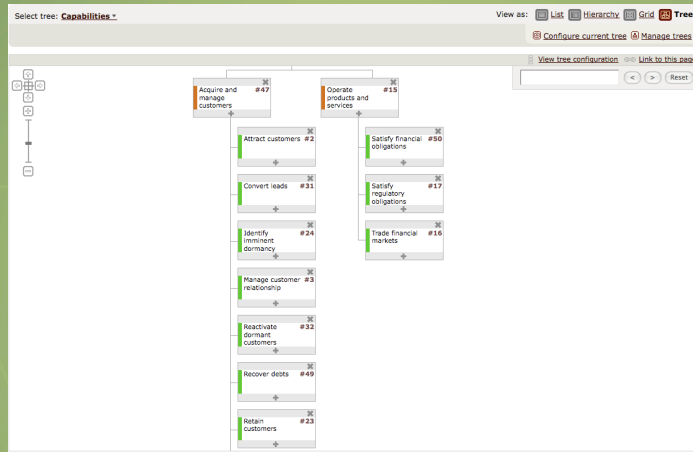
Configure current tree Manage trees

View tree configuration Link to this page

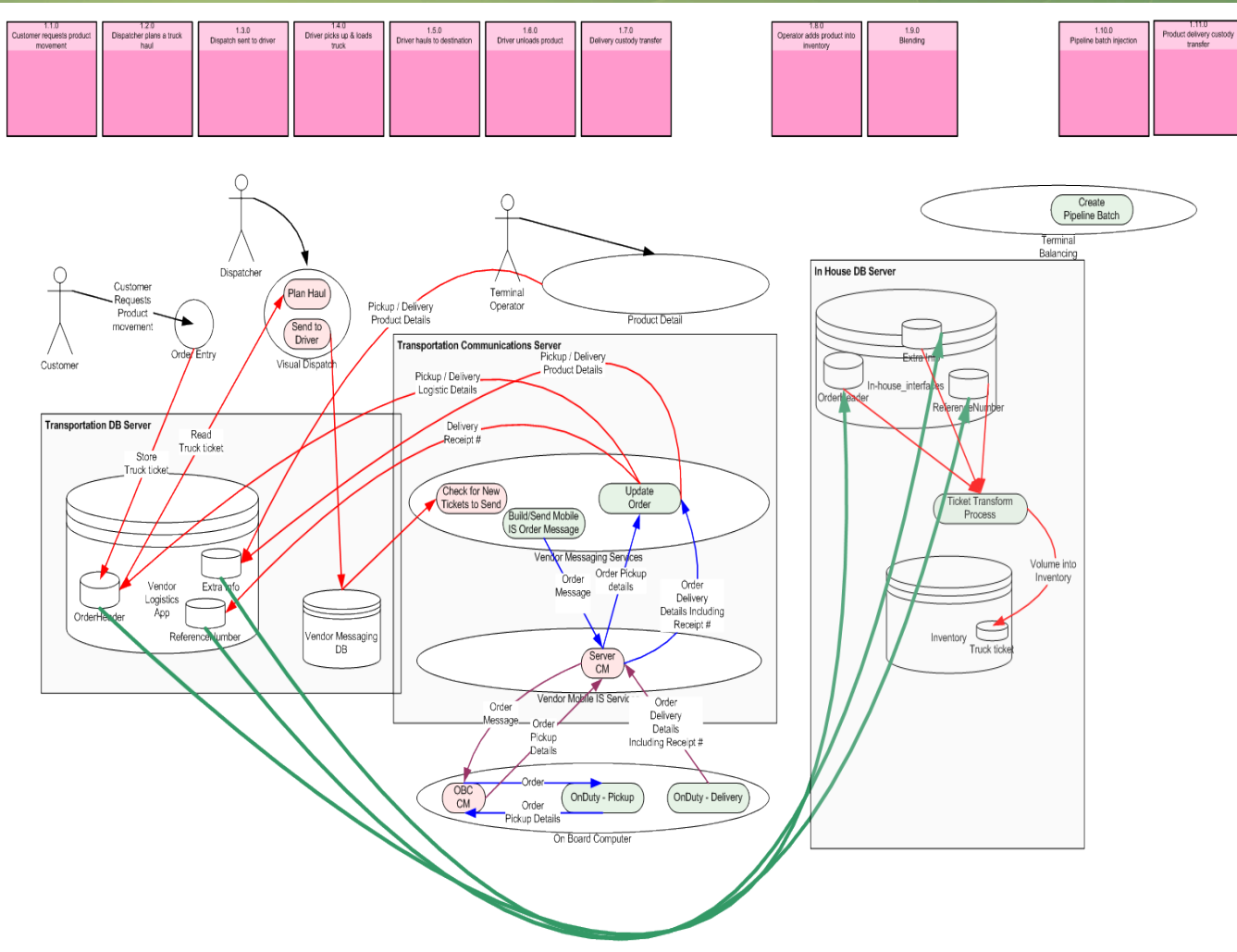
Reset



Capabilities Drive the Entity Lifecycle

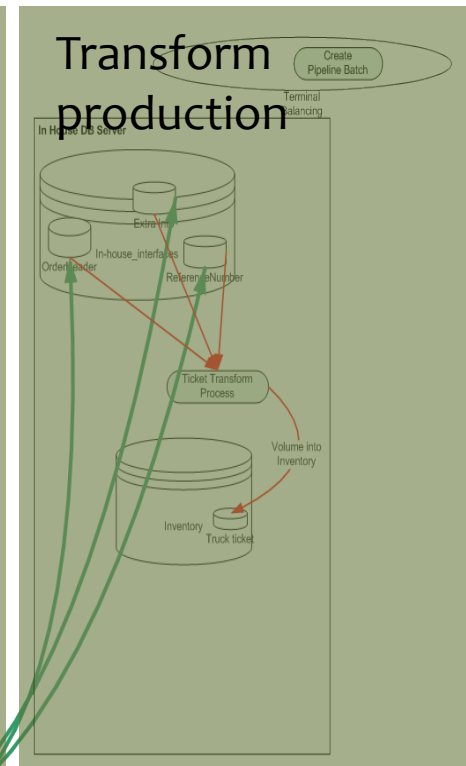
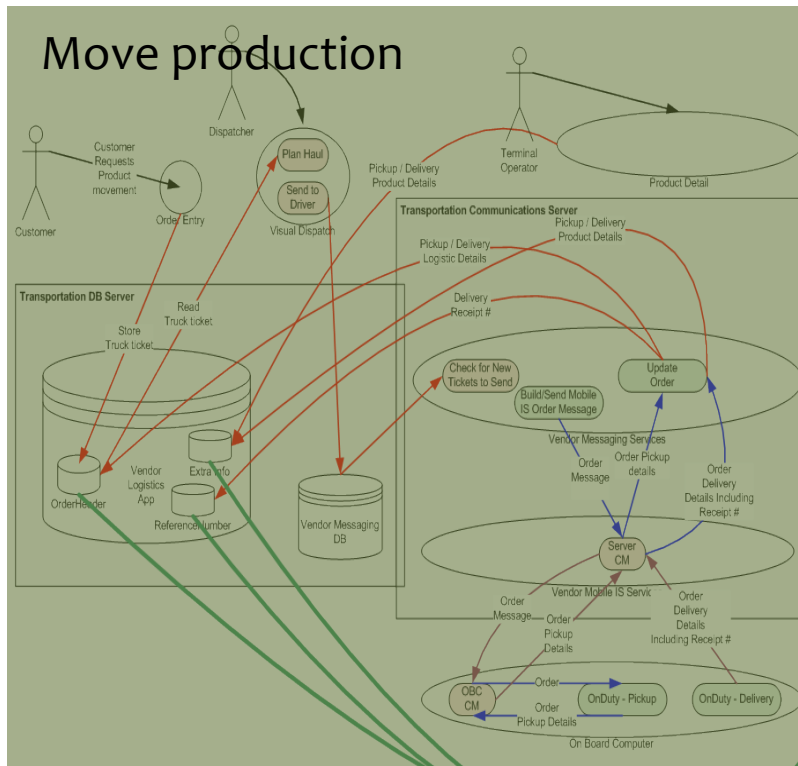
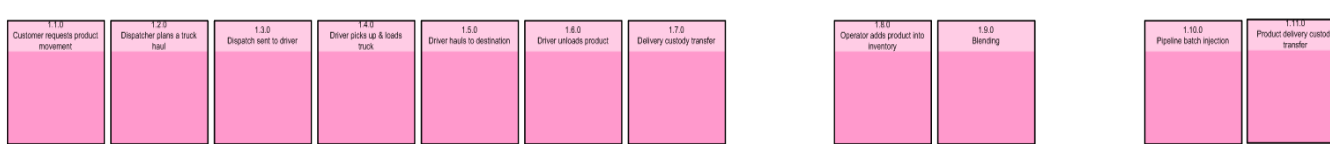


“Once more, with feeling!”



Client: Midstream oil and gas

“Aha!”



Crude connected to terminal
 Diluent connected to terminal
 Lab analysis complete

Client: Midstream oil and gas

Services and Contracts

Three-Layered Architecture

Presentation

Business

Data

And Now: At Distributed Proportions!



Process

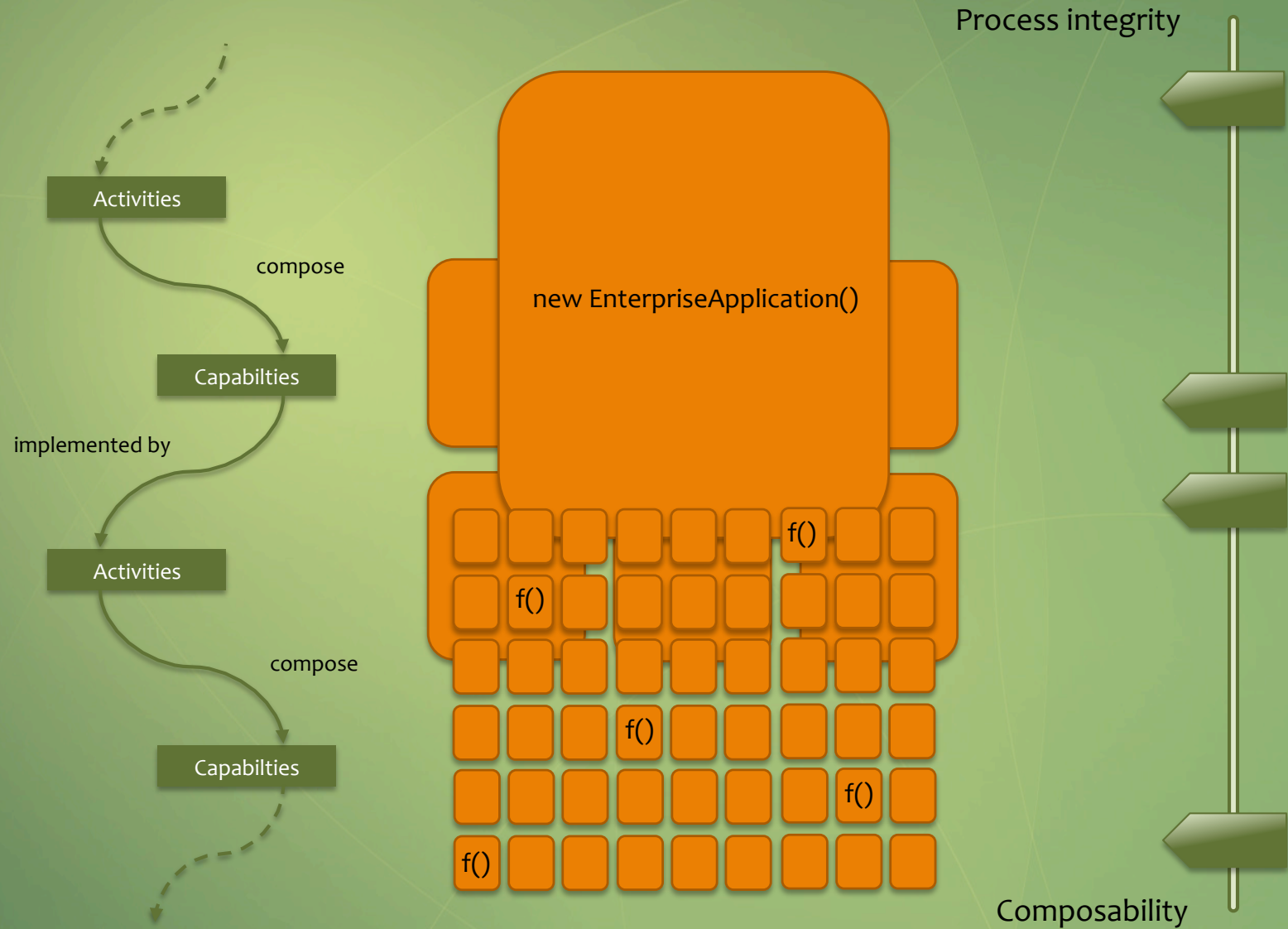


Activity



Entity

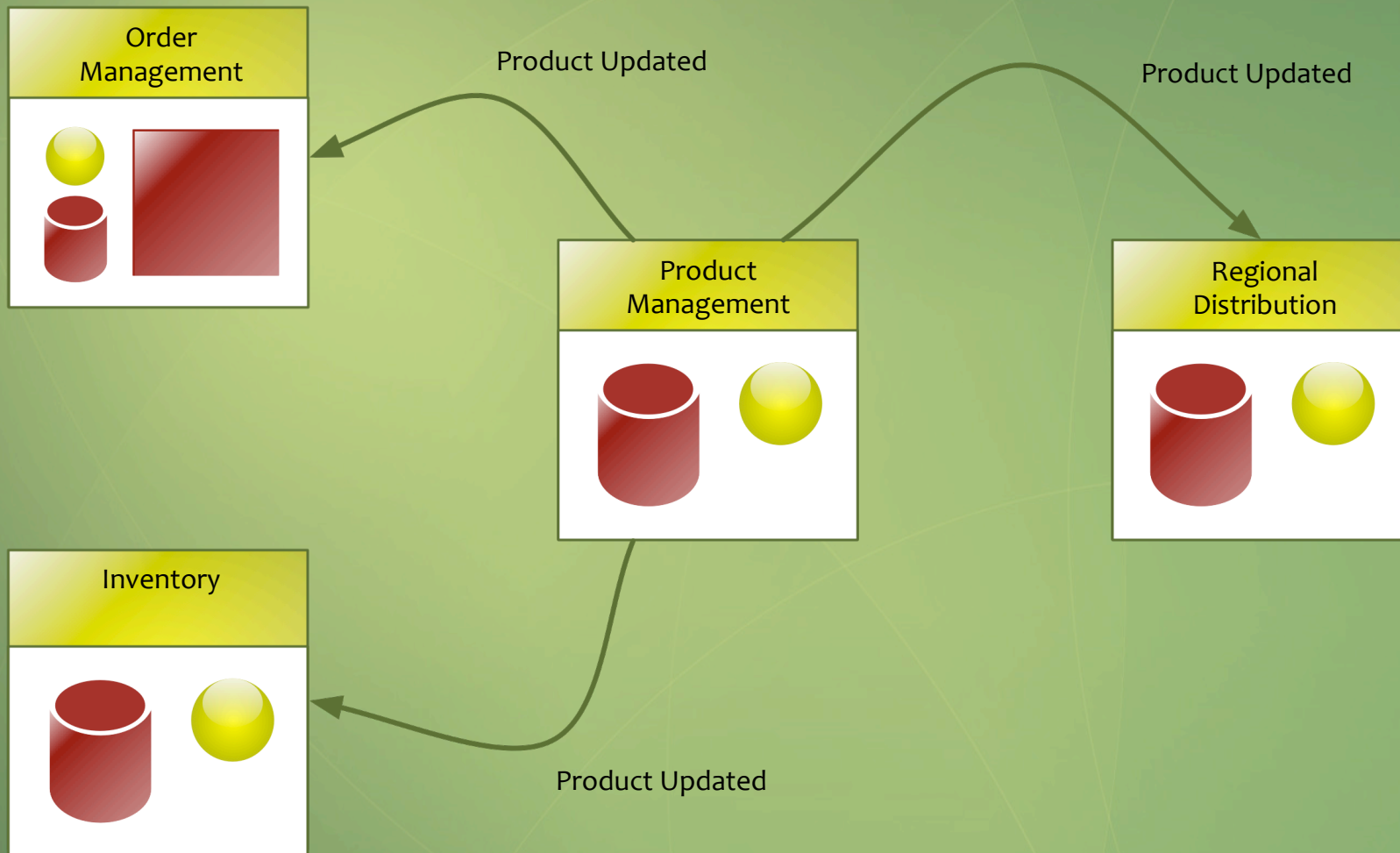
Services Host Capabilities



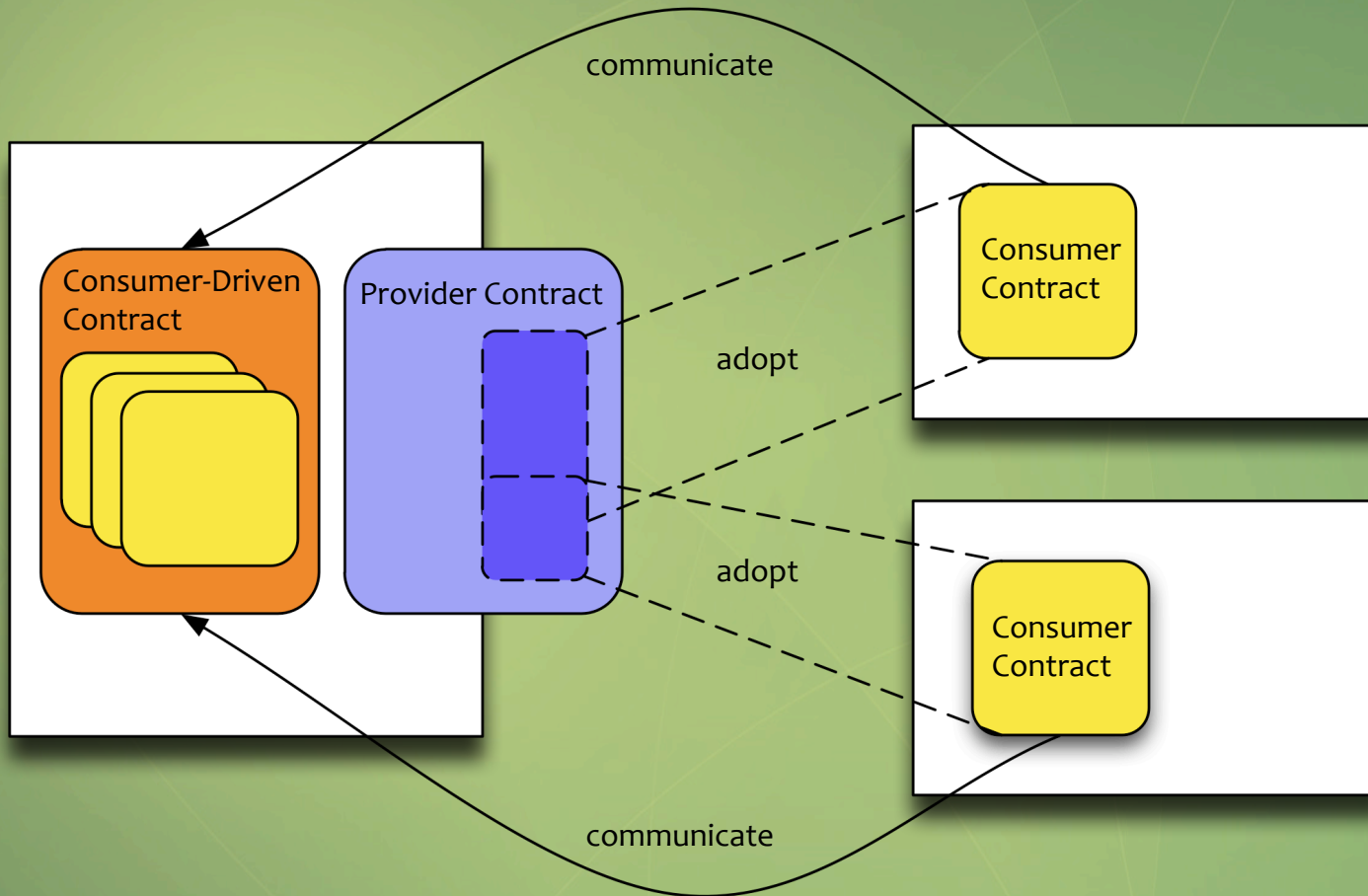
Treat Services as Consumers

*As order management
I want to know when a
product has changed
So that I can fulfill orders
based on current offerings*

Events Satisfy Consumer Expectations

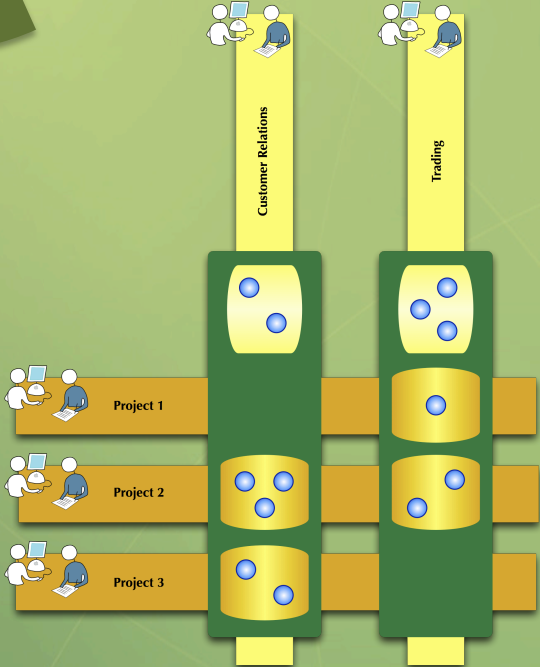
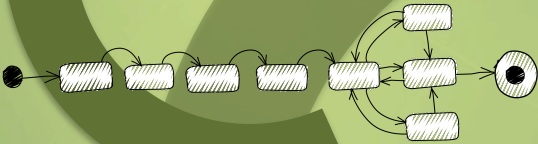
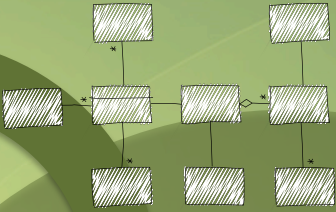
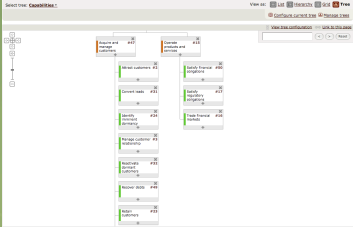


Communicate Consumer Contracts

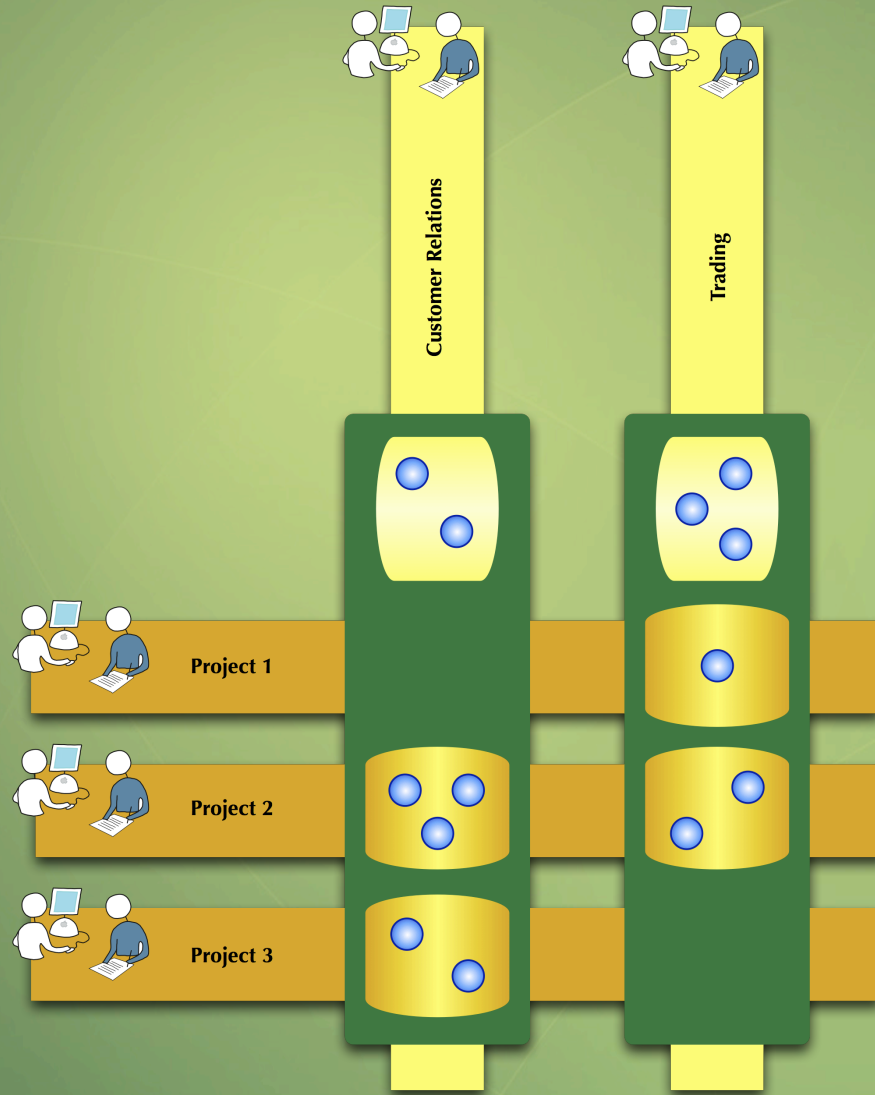


Delivery

Continuous Planning



Capability Delivery



Long-lived capability delivery teams

Visiting projects contribute capital and resource

Multiple Delivery Streams



Client: Communications and entertainment

Thank you

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