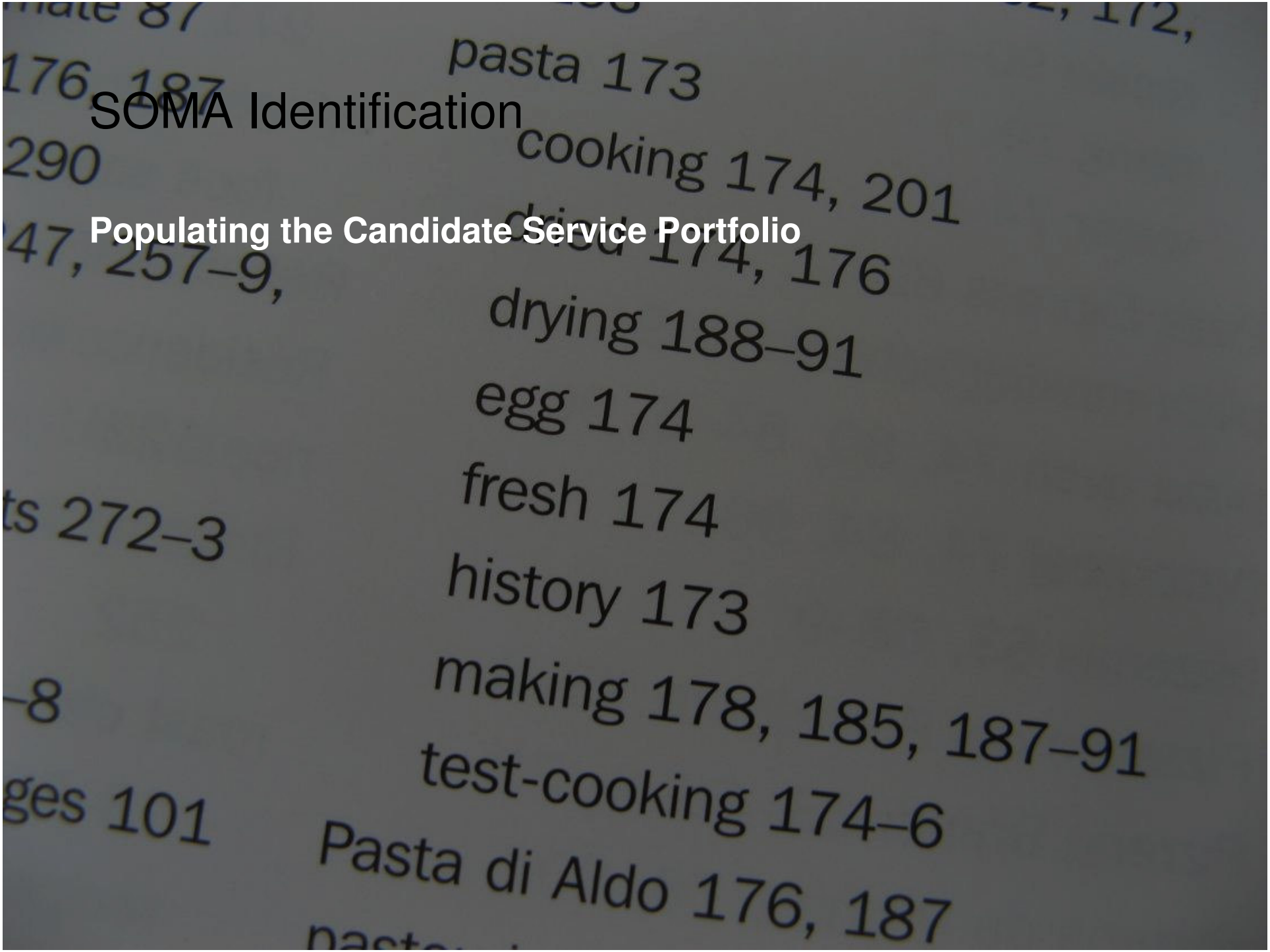
IBM SOA Architect Summit

GET PRACTICAL HELP TO MEET THE DEMANDS OF YOUR BUSINESS.

Gordon Ramsay does Services – Cooking up a Service Portfolio

Jon Maddison

16th September 2008



SOMA Identification

Populating the Candidate Service Portfolio

SOMA Identification

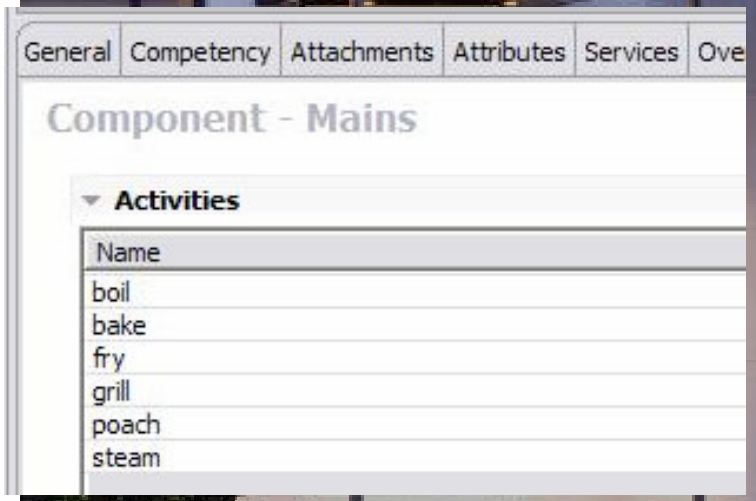
Top Down – CBM

	HR	Purchasing	Cooking
Direct		Store Cupboard Management	Cookbook Management M
Control		Shopping List	Recipes M
Execute	Too Many Cooks	Shopping	Starters
		Home Delivery	Mains ★ H
			Desserts

Heat Maps

Hot Component: ★ Hot

HML map: H high M medium L low



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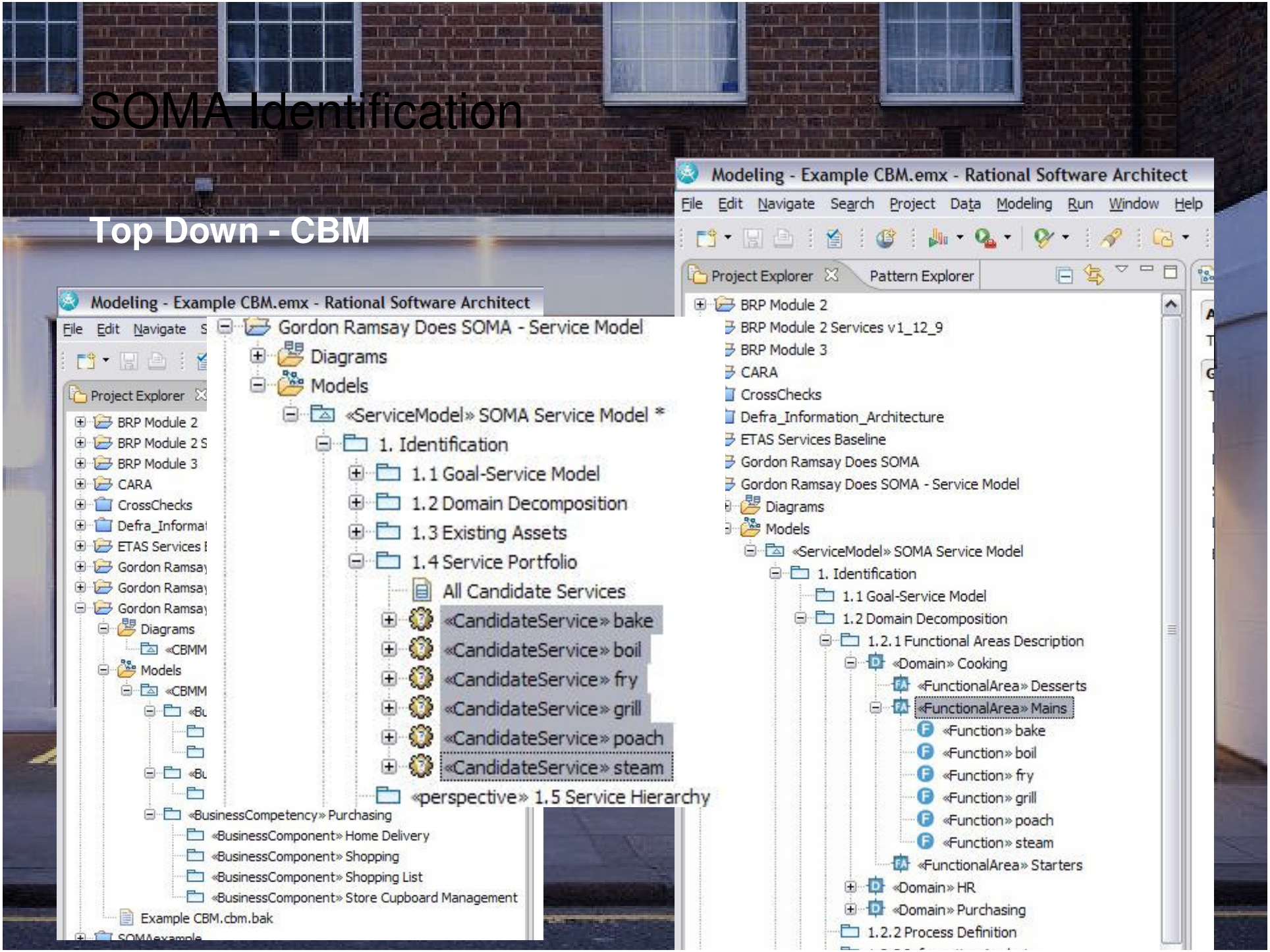
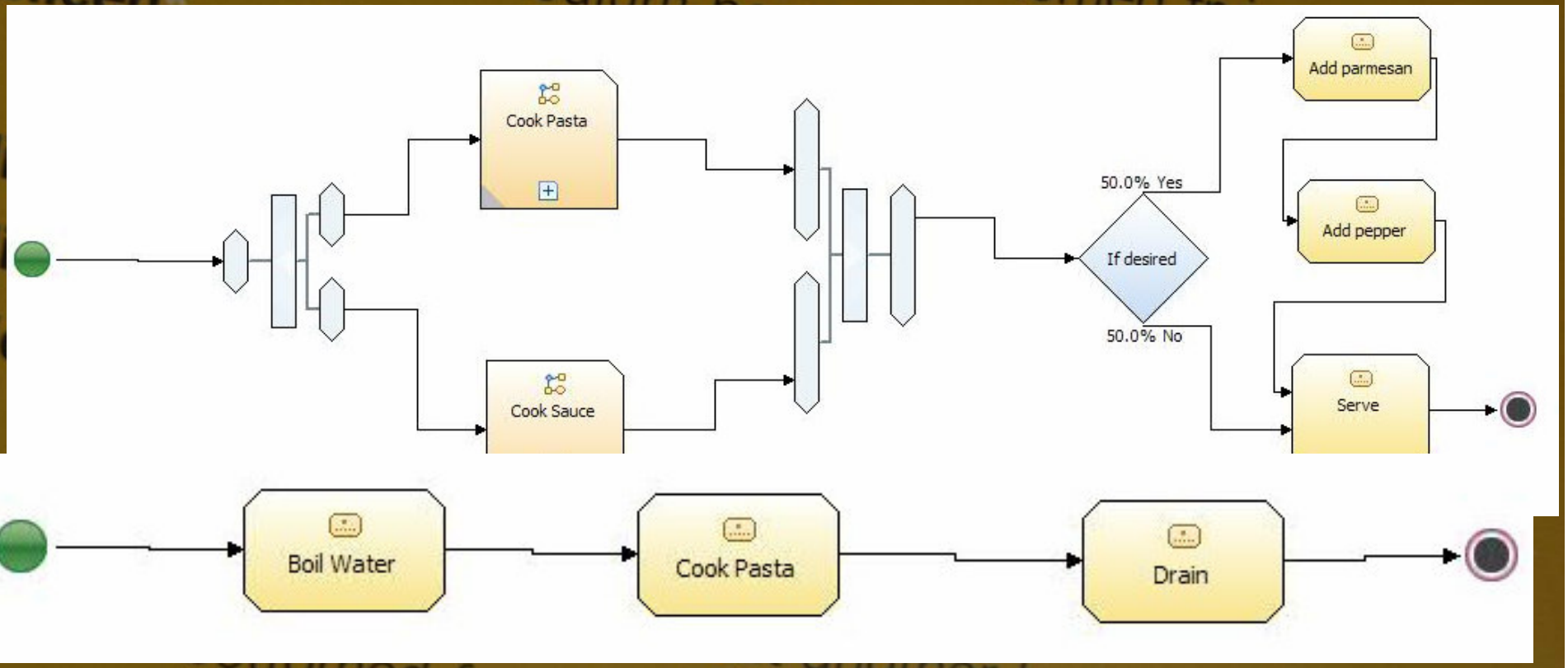
Top Down - CBM



SOMA Identification

Top Down - BPM



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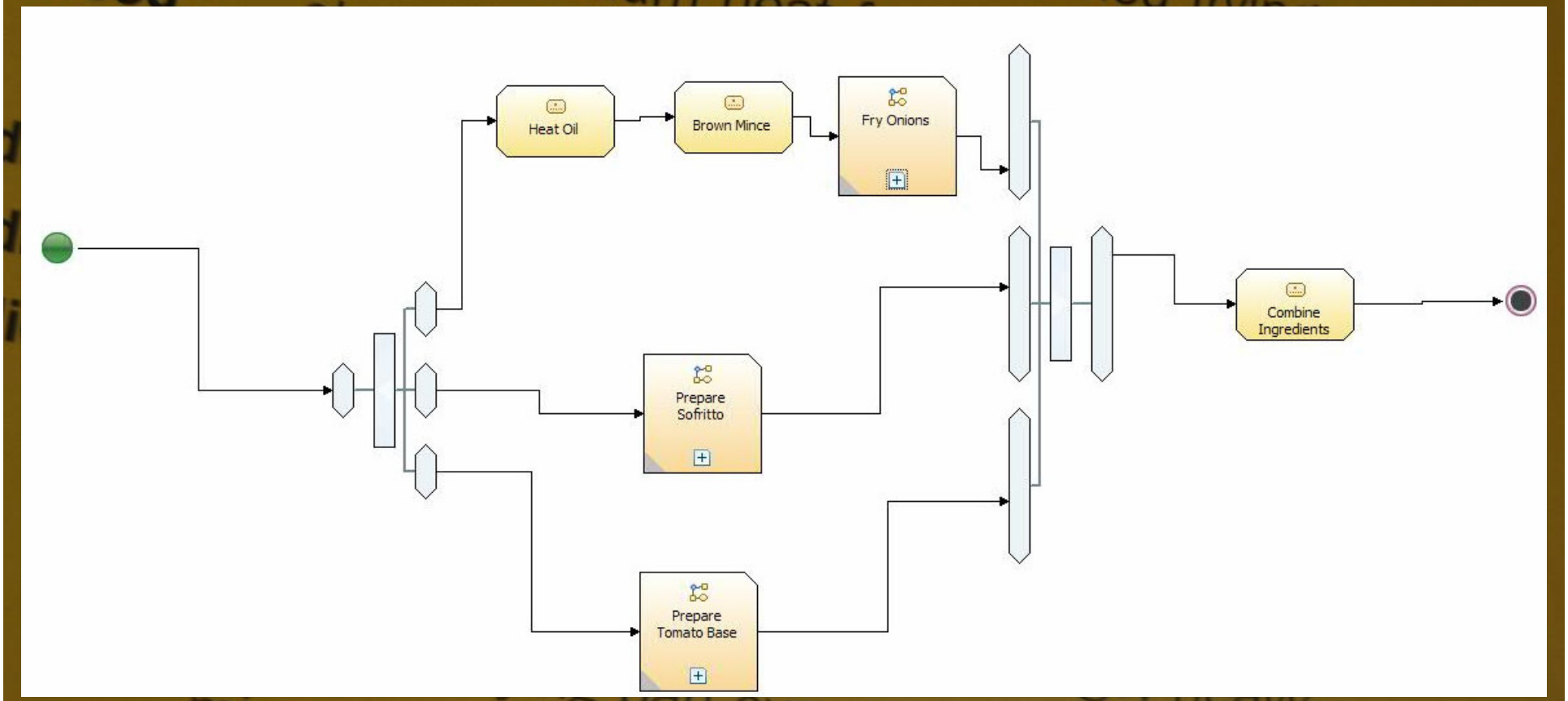
Top Down - BPM



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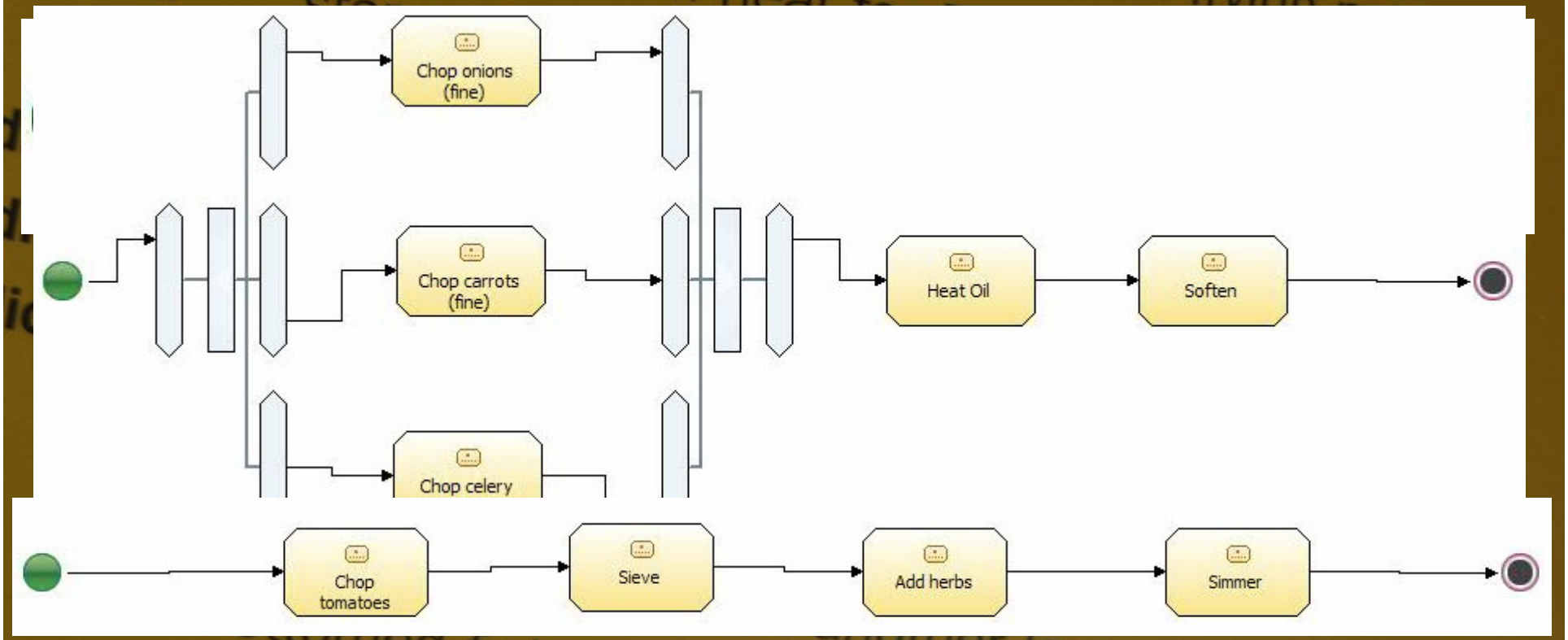
Top Down - BPM



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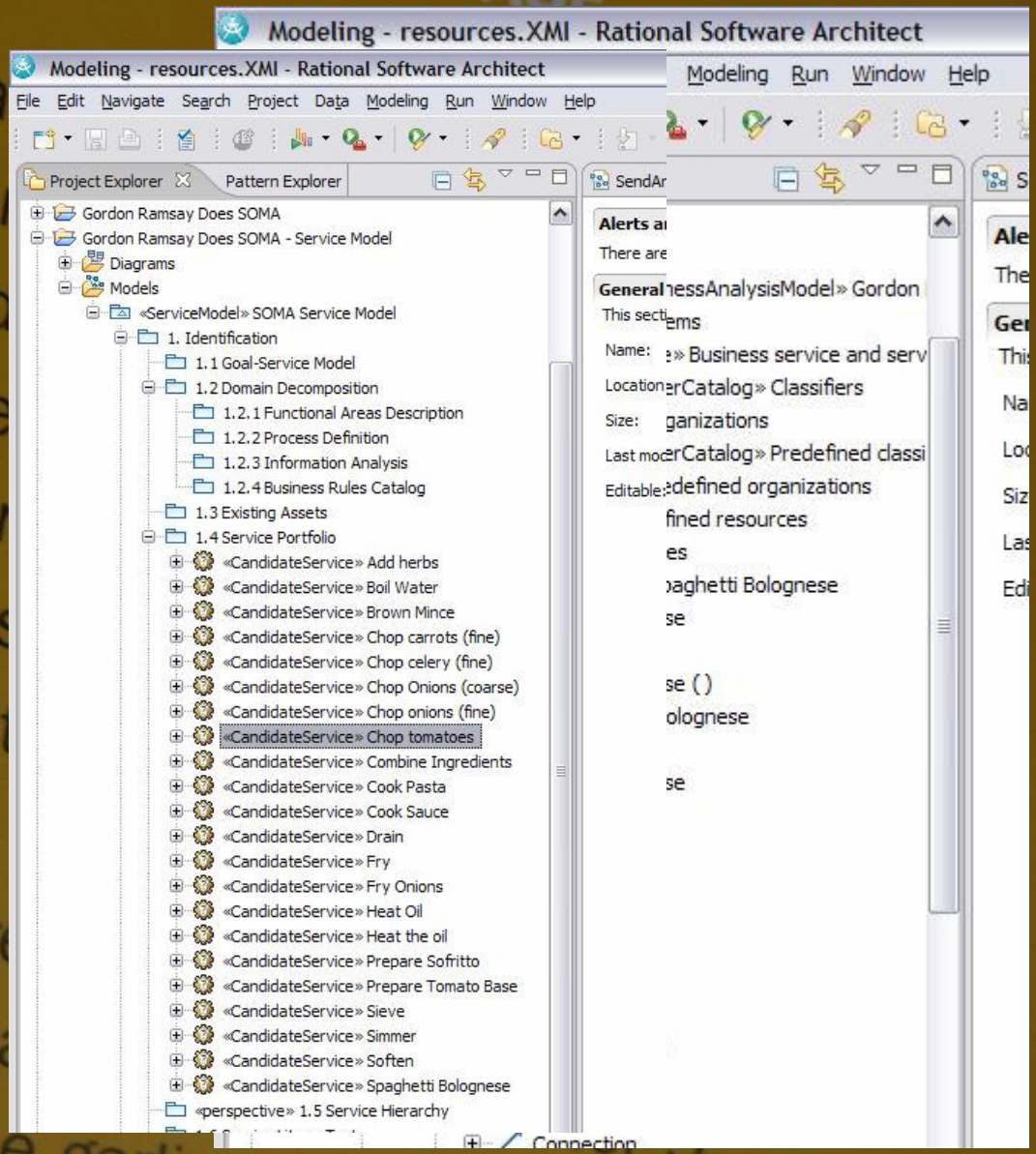
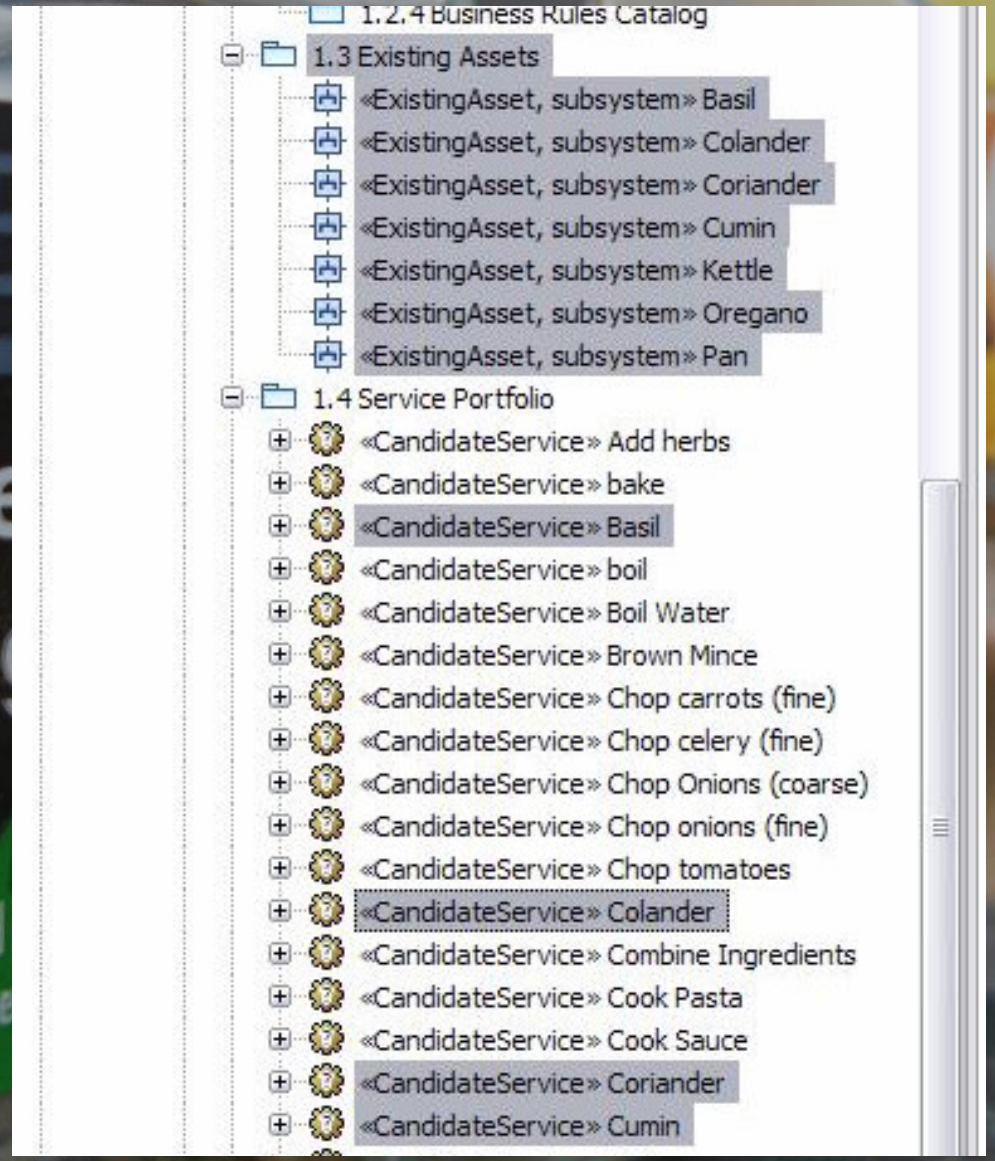
Top Down - BPM



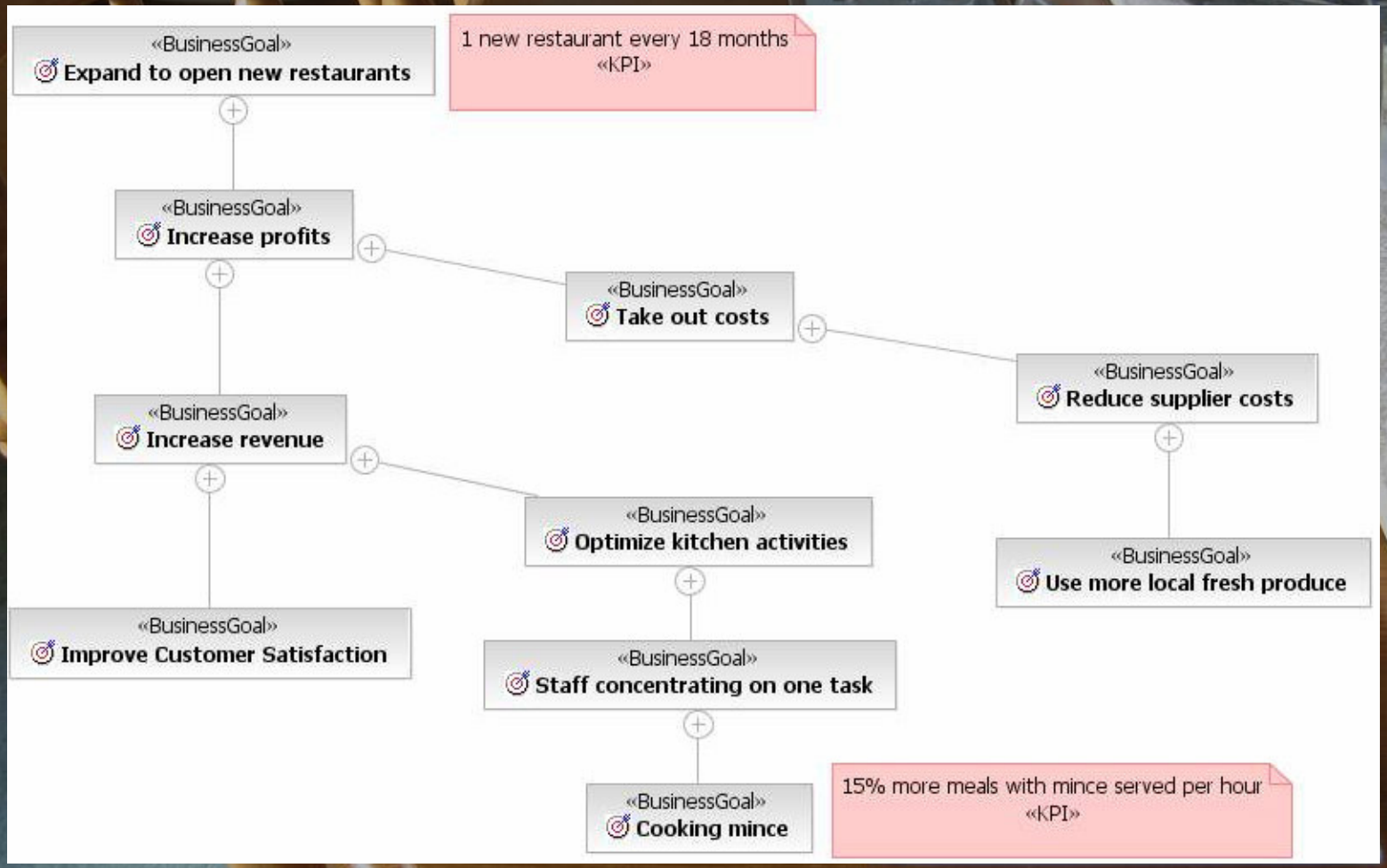
SOMA Identification

Bottom Up



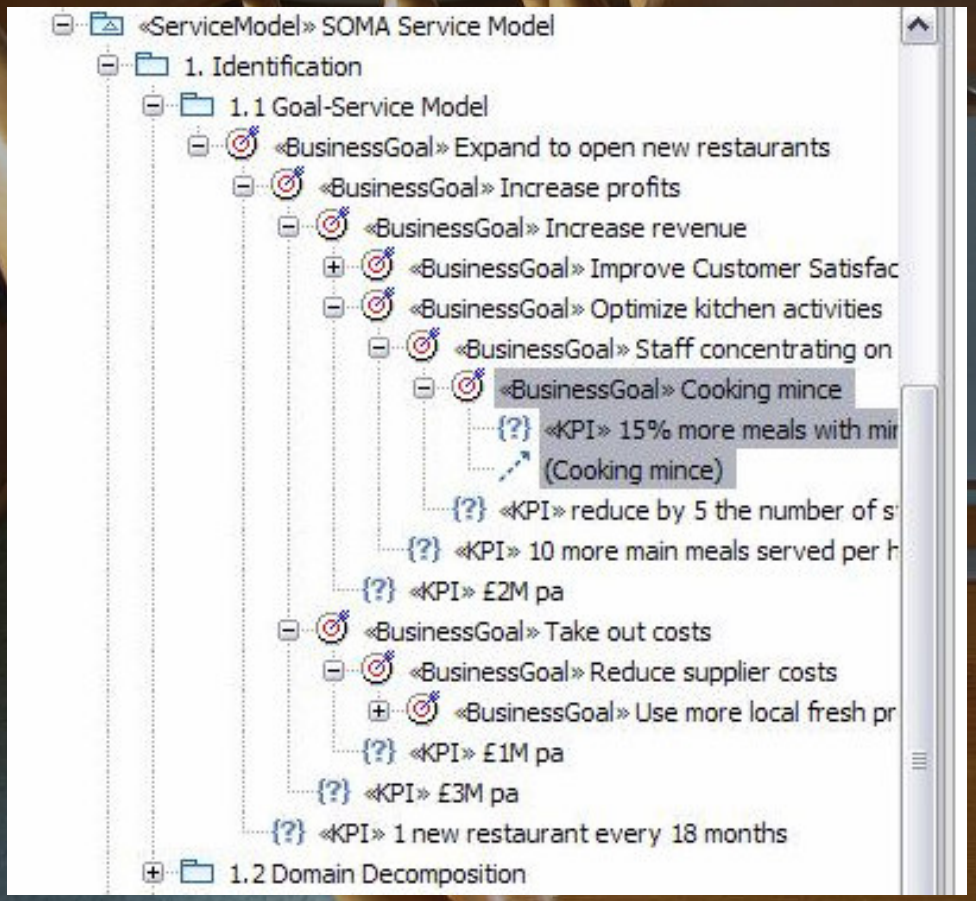
SOMA Identification

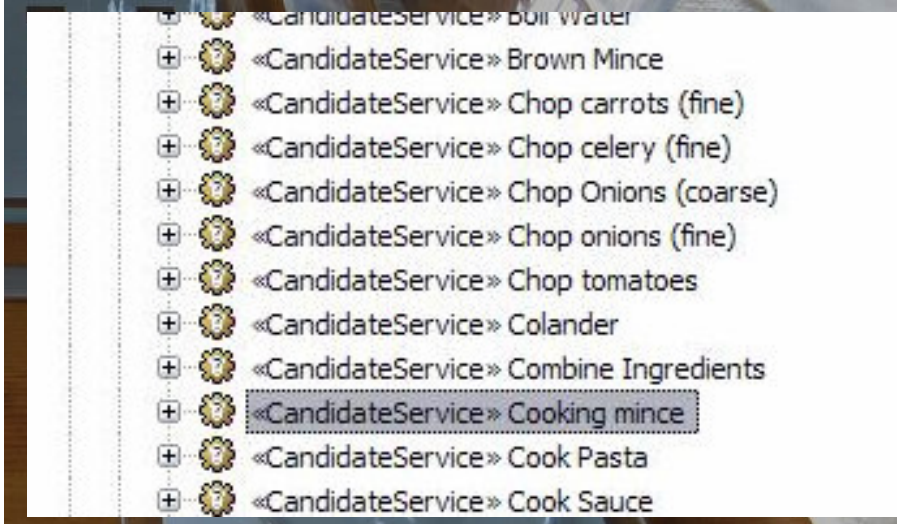
Goal Service Modelling



SOMA Identification

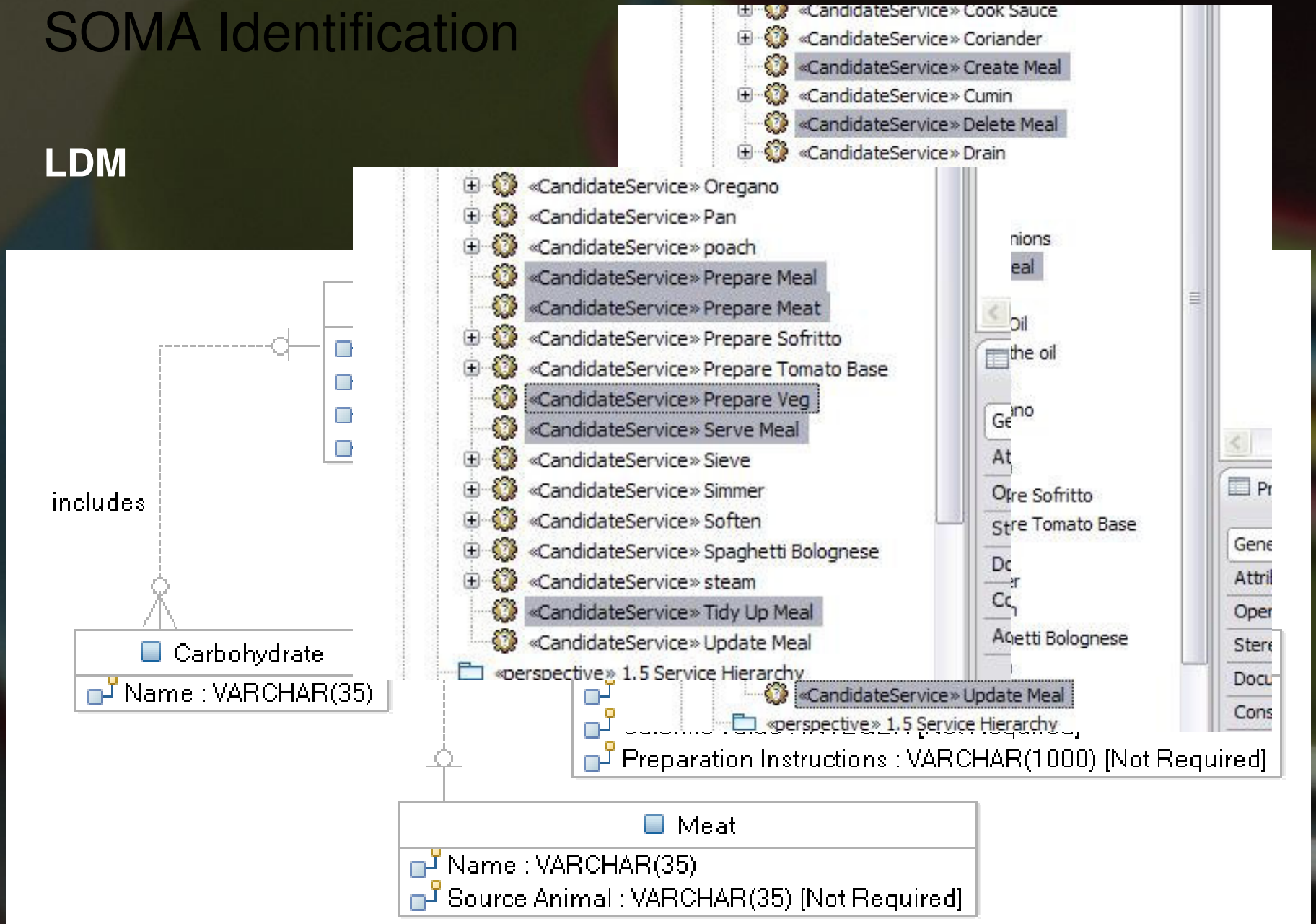
Goal Service Modelling





SOMA Identification

LDM

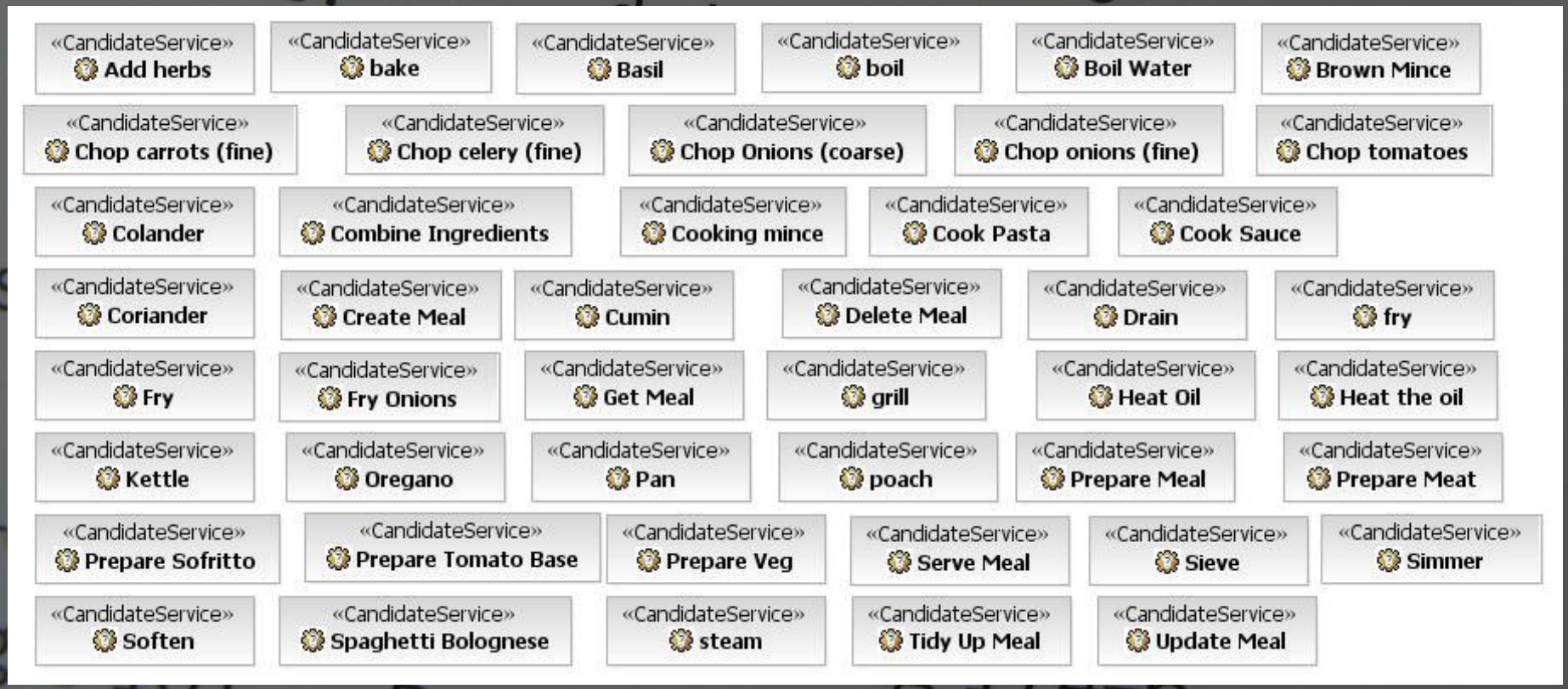


SOMA Identification

VOA

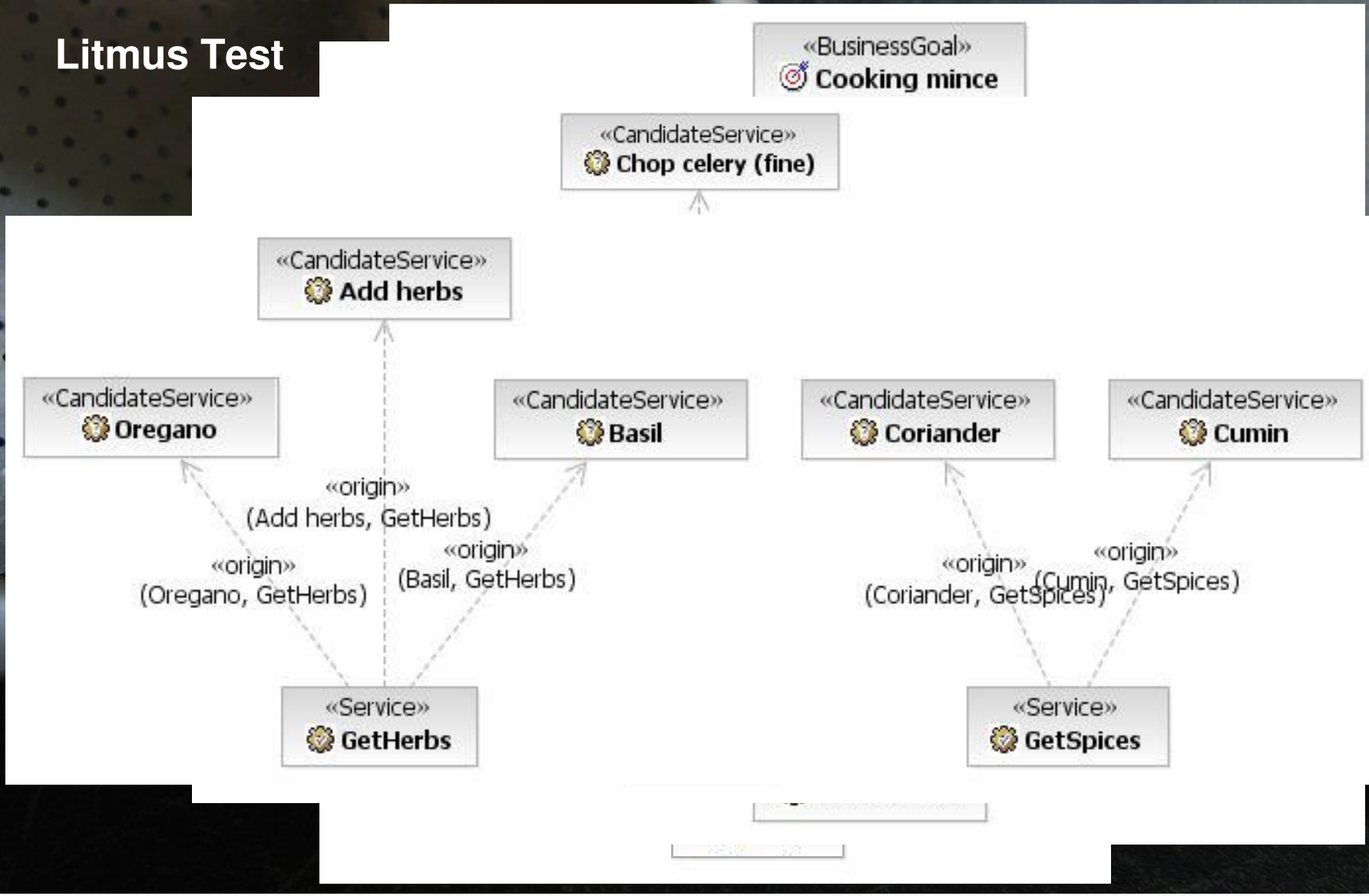
SOMA Identification

Populated the Candidate Service Portfolio?



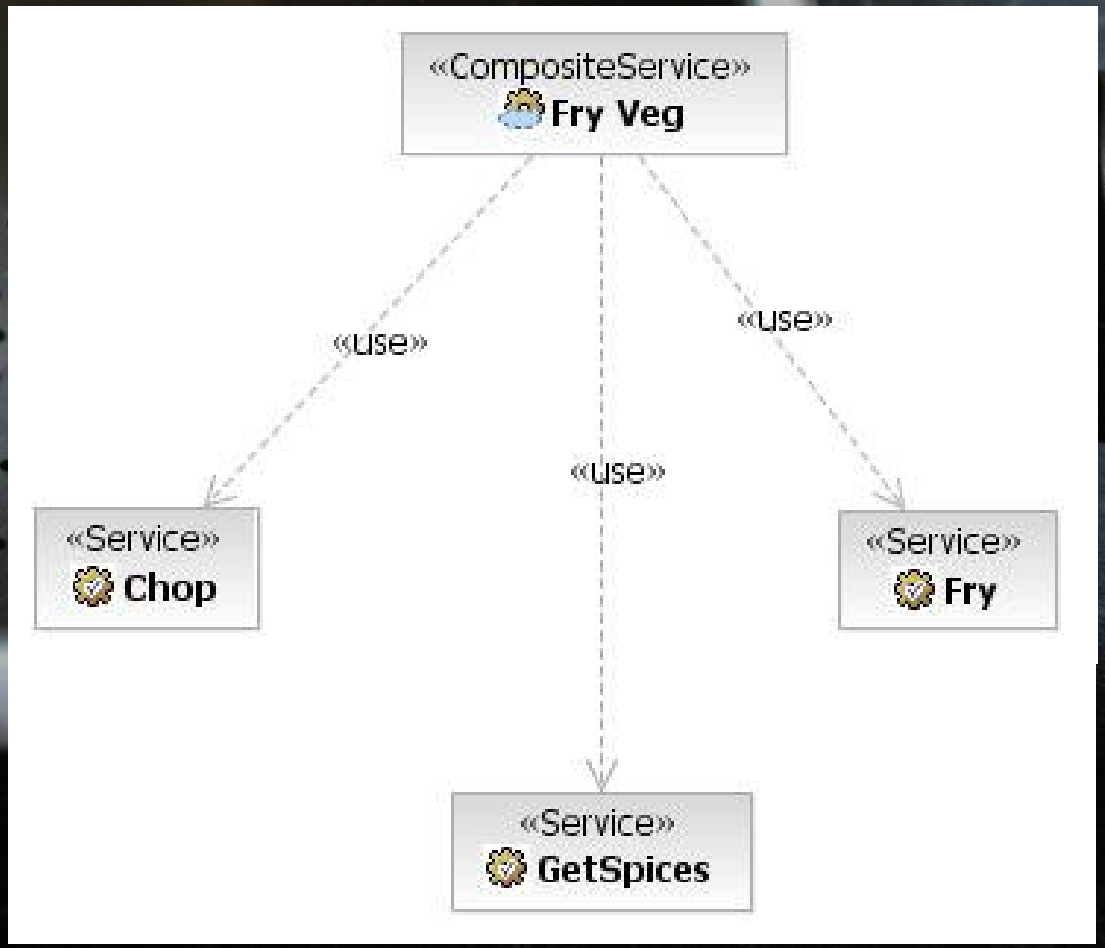
SOMA Identification → Specification

Litmus Test



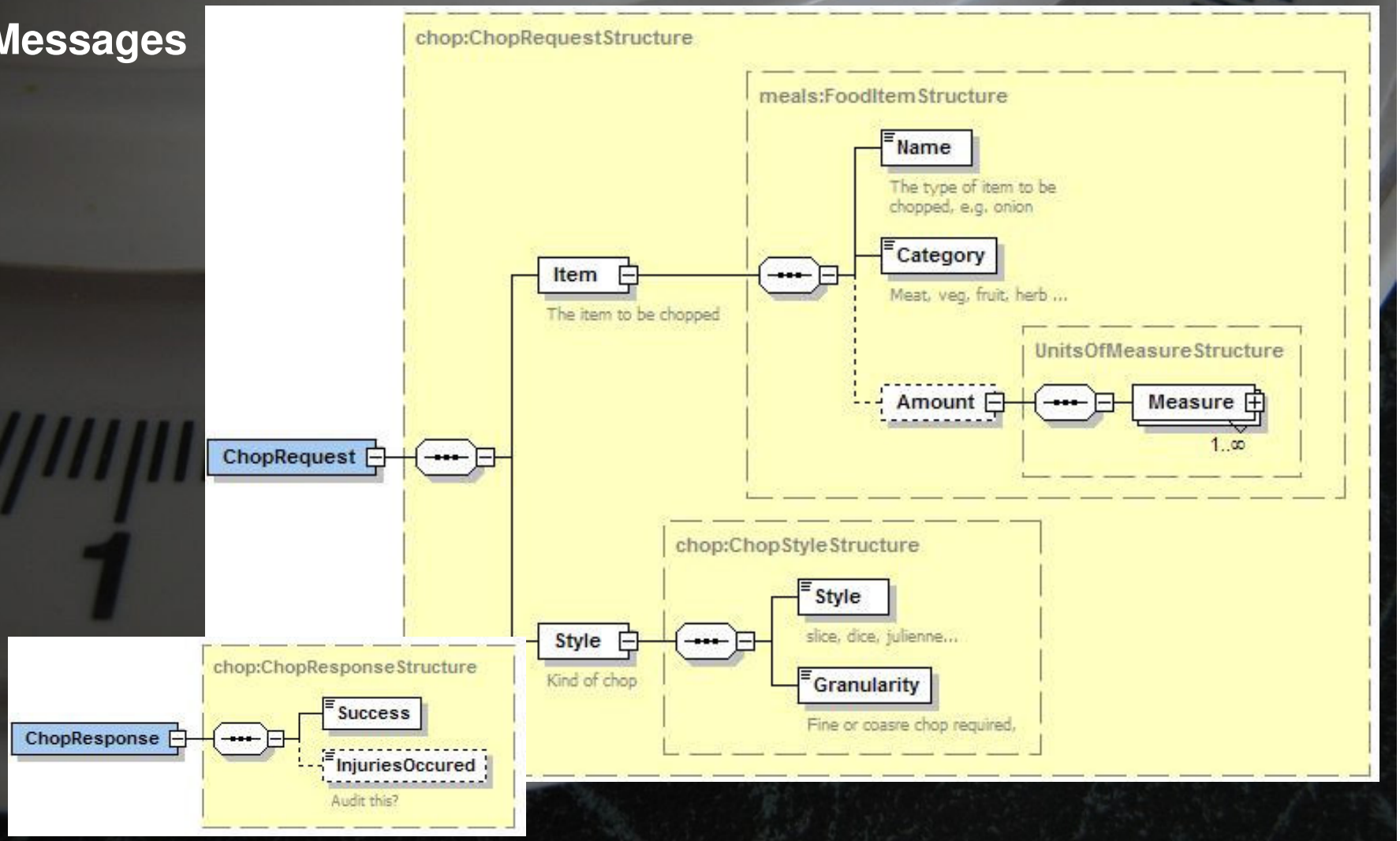
SOMA Identification → Specification

Litmus Test



SOMA Specification

Messages

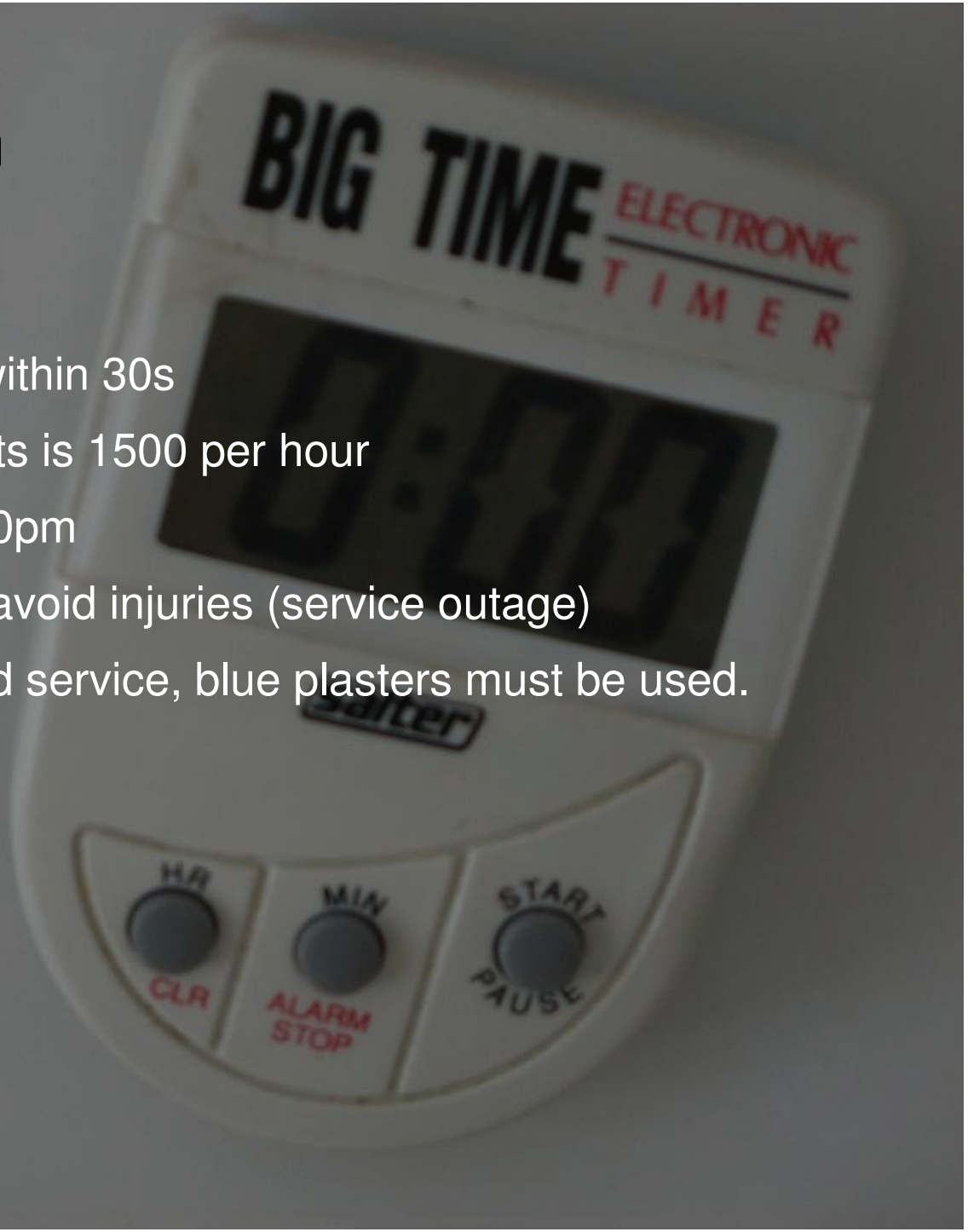


SOMA Specification

Messages

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!--Sample XML file generated by XMLSpy v2007 sp2 (http://www.altova.com)-->
3  <chop:ChopRequest ...>
4    <Item>
5      <Name>CARROT</Name>
6      <Category>VEG</Category>
7      <Amount>
8        <Measure System="METRIC">
9          <Amount>450</Amount>
10         <Unit>g</Unit>
11       </Measure>
12       <Measure System="IMPERIAL">
13         <Amount>1</Amount>
14         <Unit>lb</Unit>
15       </Measure>
16     </Amount>
17   </Item>
18   <Style>
19     <Style>JULIENNE</Style>
20     <Granularity>COARSE</Granularity>
21   </Style>
22 </chop:ChopRequest>
```

SOMA Specification

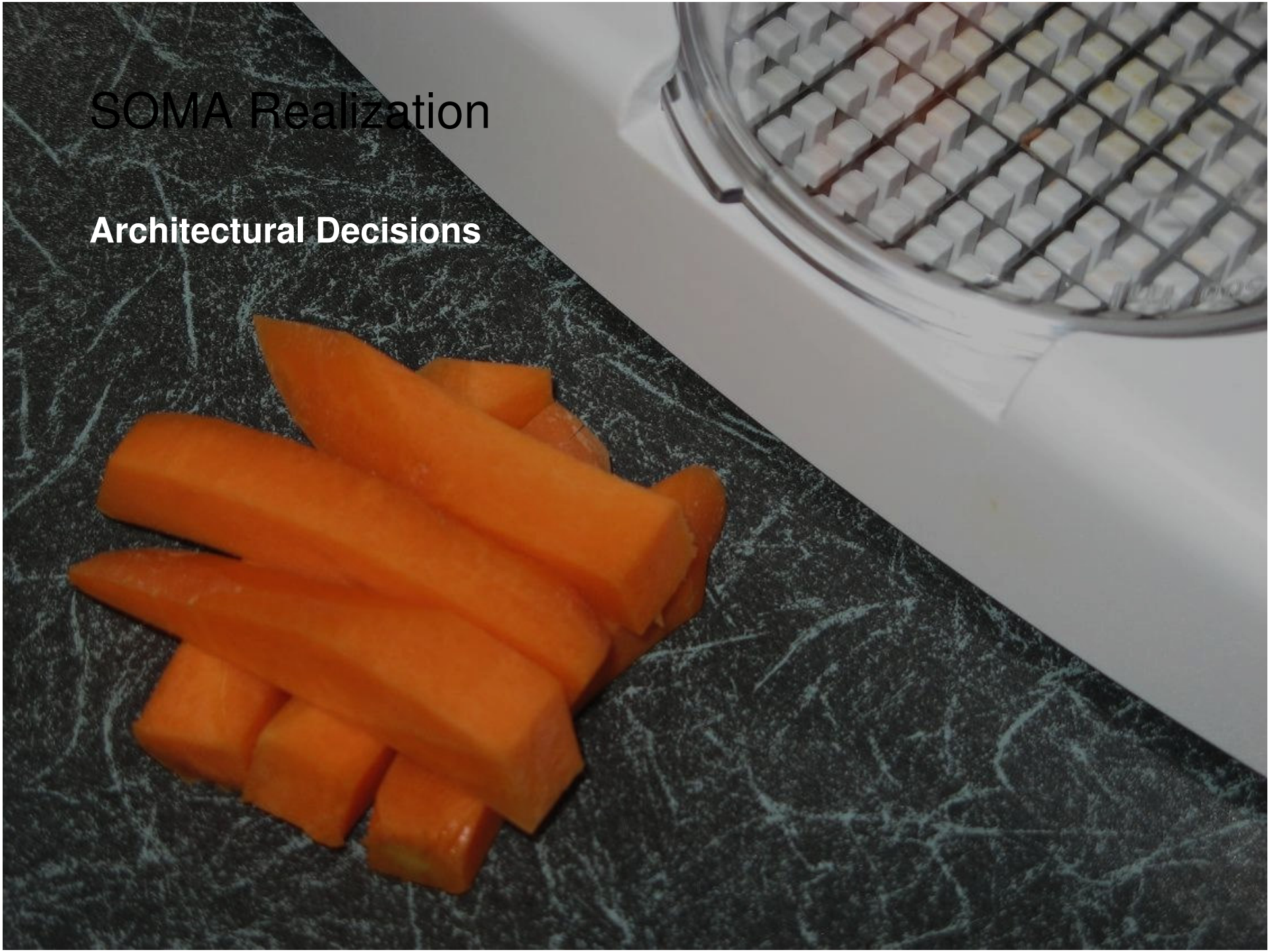


NFRs for a Chop Service

- Service must respond within 30s
- Peak number of requests is 1500 per hour
- Must be available 7 – 10pm
- Knife must be sharp to avoid injuries (service outage)
- In the event of degraded service, blue plasters must be used.

SOMA Realization

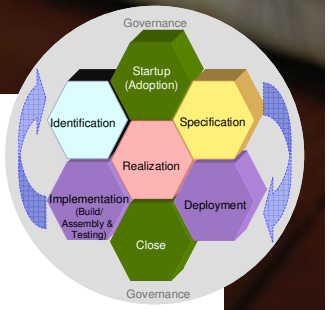
Architectural Decisions



SOMA Realization

Proof of Concept

Summary



Governance

Startup
Selection of Solution Templates, Method Adoption

Identification

Domain Decomposition

Goal-Service Modeling

Existing Asset Analysis

Specification

Component Flow Specification

Subsystem Analysis

Service Specification

Service Flow Specification

Information Specification

Component Specification

Message & Event Specification

Realization

Realization Decisions

Solution Template & Pattern Selection and Instantiation

Technical Feasibility Exploration

Detail SOA Solution Reference Architecture

Implementation

Construction

Generation

Assembly Integration

Build/Assembly

Unit Testing

Integration Testing

User Acceptance Testing

Testing

Deployment

Deployment (Packaging/Provisioning)

Close

Monitoring & Management
Governance