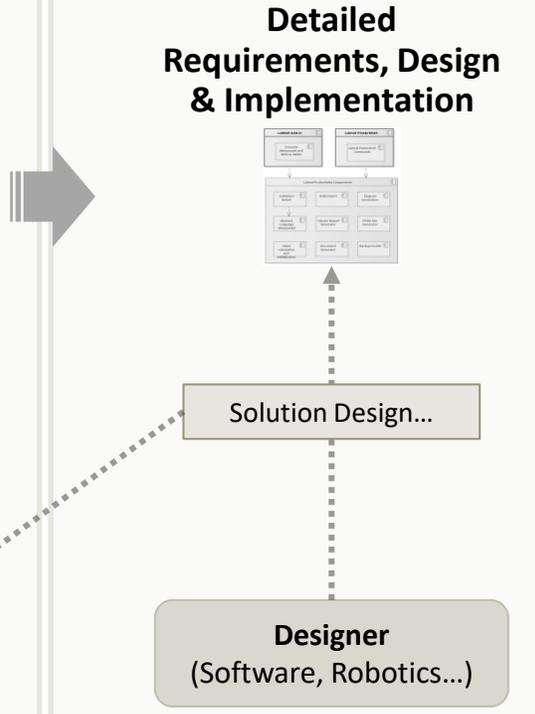
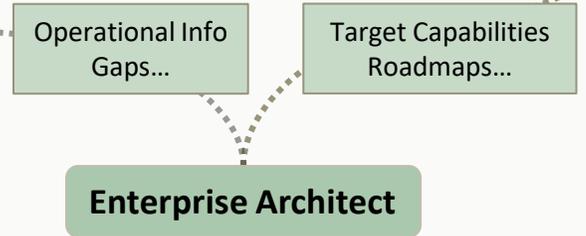
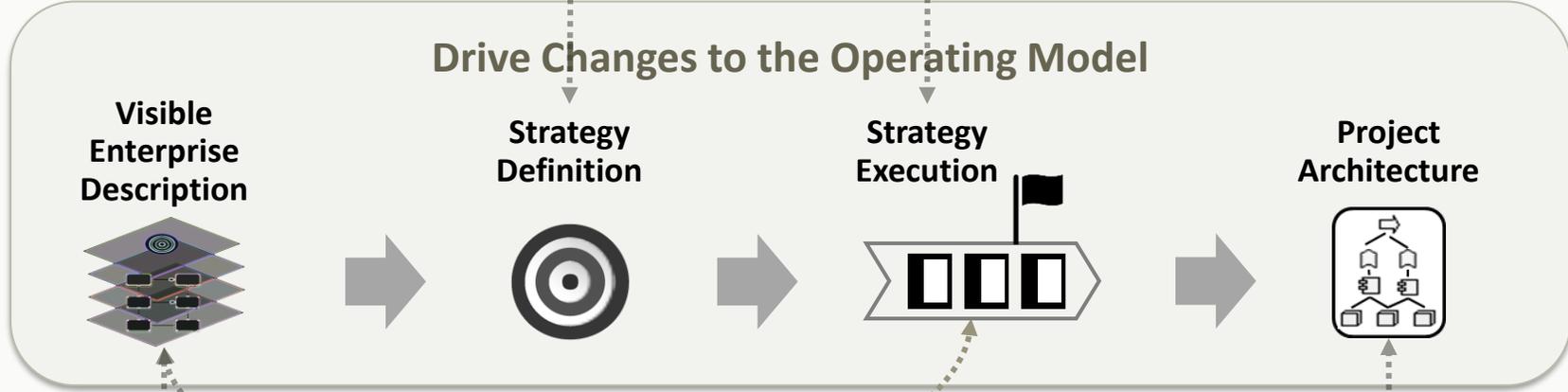
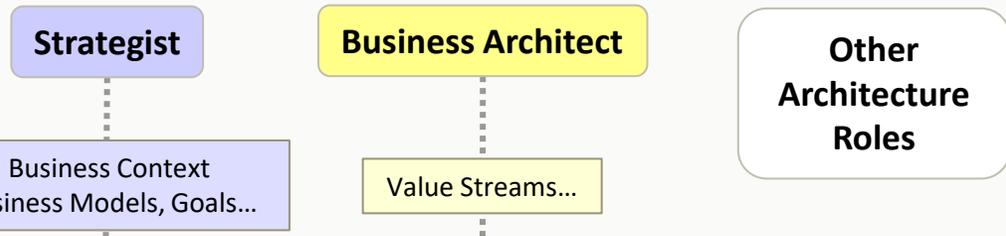


Labnaf

Unified Framework for Driving Transformations

Overview

Labnaf makes Digital Transformation visible and in motion



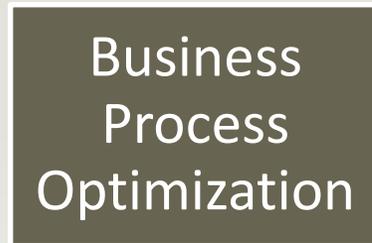

Agenda

1. What is Labnaf?
2. Why using Labnaf?
3. Key features
4. Demo

Appendix: As-is versus potential situation



Labnaf



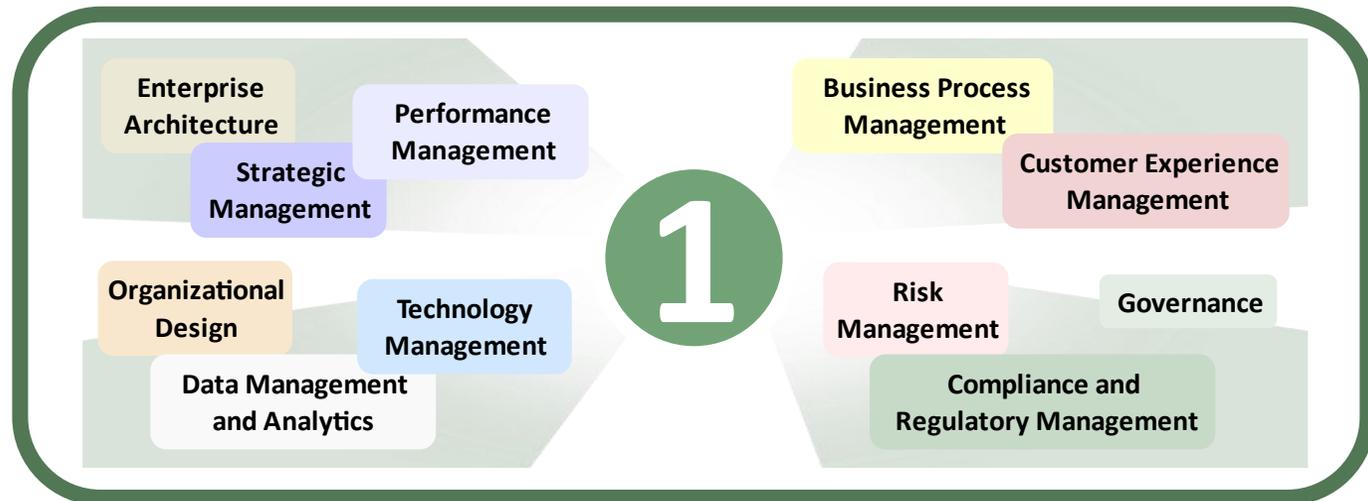
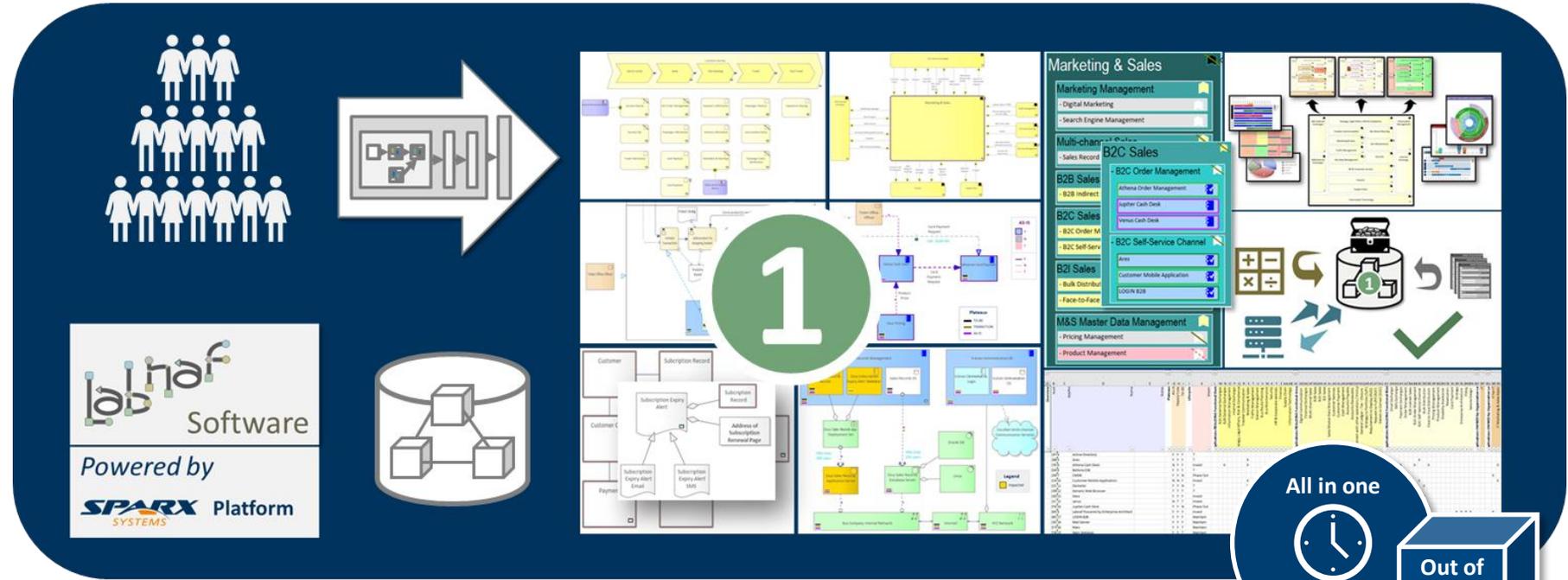
Labnaf

All in one and

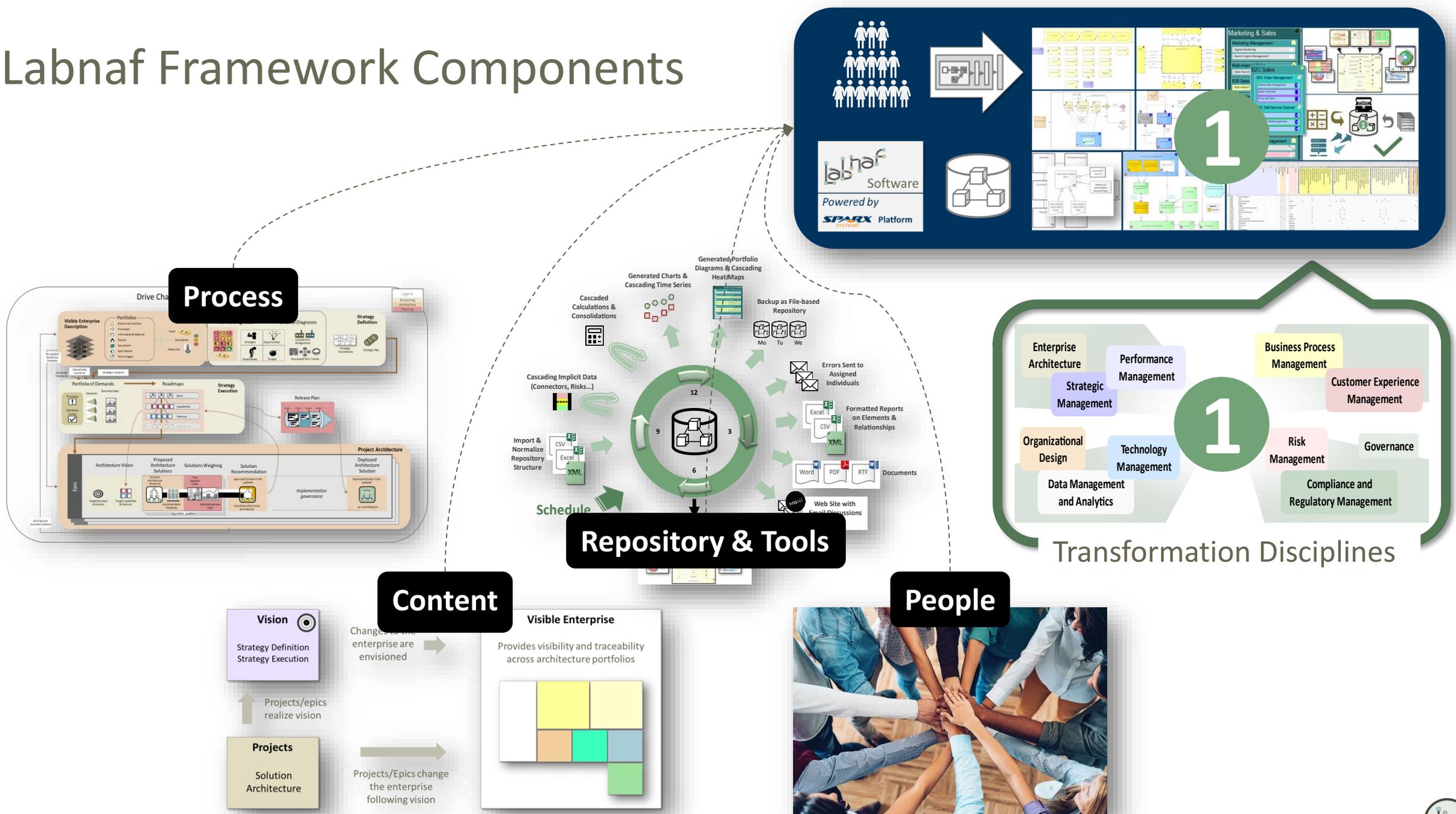
Unified Framework for

Driving transformations

Actionable out of the box

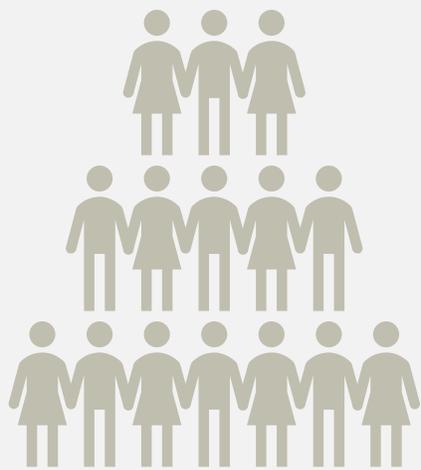


Labnaf Framework Components



Unlike other software...

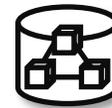
Labnaf is, altogether, a way of working, a method, a process with **high productivity tools and dashboards**



We play many different roles, but...



We speak the same language



We share the same information in the same repository



We follow the same process



And we use the same software

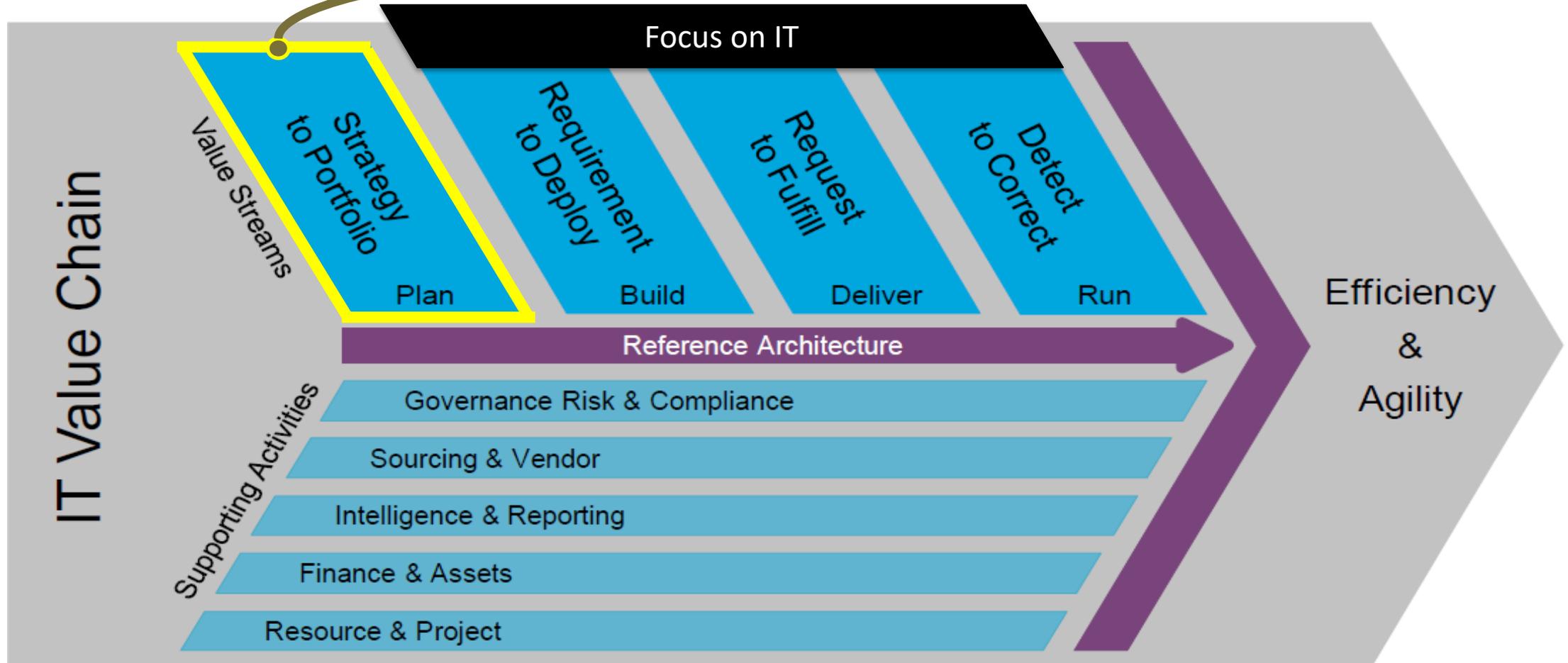
We collaborate effectively

Seamless Cross-discipline Collaboration

Application Architect	Functional Analyst
Business Architect	Infrastructure/Technical Architect
Business Area Lead	IOT Architect
Business Process Engineer	Program Manager
CIO	Project Manager
CISO	Risk Manager
Cloud Architect	Robotics Architect
Data Architect	Security Architect
Enterprise Architect	Strategist



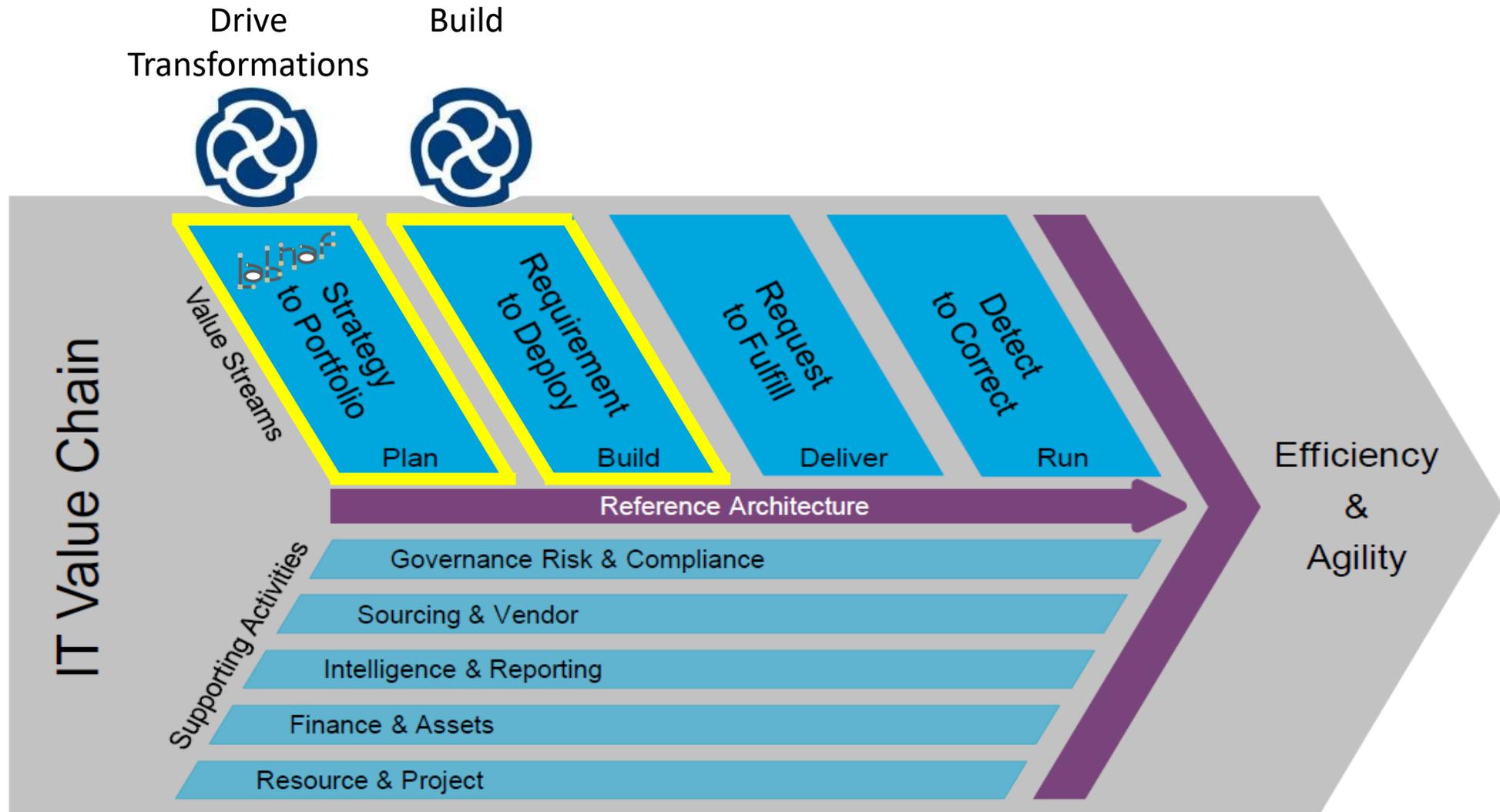
Labnaf focuses on **driving** Transformations



IT4IT Value Chain



Scope of Sparx EA with Labnaf



IT4IT Value Chain



Agenda

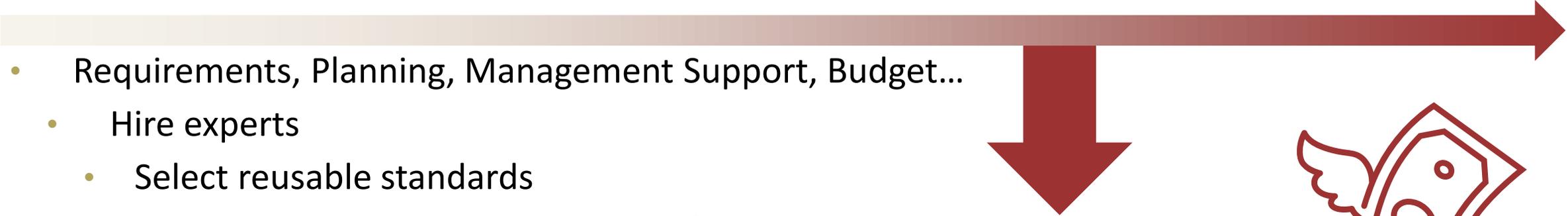
1. What is Labnaf?
2. Why using Labnaf?
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4. Demo

Appendix: As-is versus potential situation

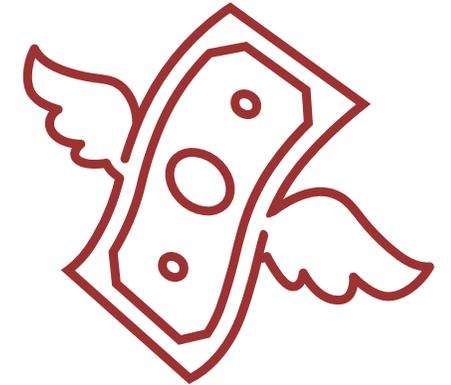


Building an Architecture Practice is a Long Journey

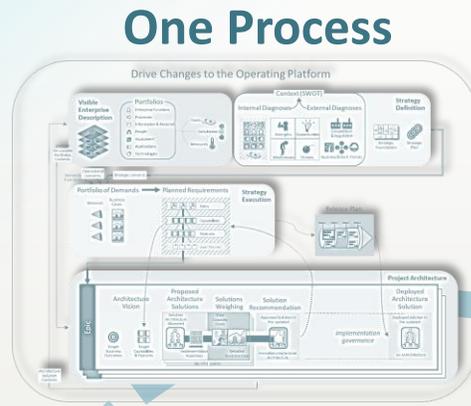
- Requirements, Planning, Management Support, Budget...
- Hire experts
- Select reusable standards
- Integrate the standards into a single process
- Define the architecture content
- Select the languages
 - Integrate the languages
 - Define the roles
 - Select the tools
 - Integrate tools supporting languages and standards
 - Define a repository structure content
 - Create a POC
 - Document the approach
 - Put governance in place...



Project Cancelled



Accelerated Decision Making
Improved Agility



Industry 4.0

Unified Transformation Disciplines



1



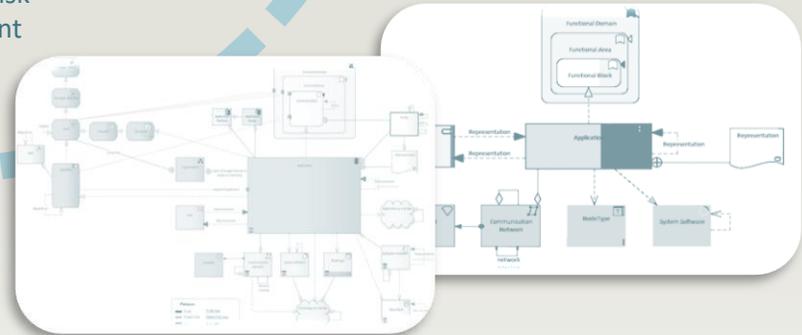
One Repository & One Software



Charts & Dashboards
for Taking the Right Decisions

One team

One Language



Drive Transformations and Manage Risks

- Navigable Business Capability Heat Maps using cascaded consolidations
- Application, Equipment and Technology Portfolio Management
- Application Lifecycle Management
- Business Continuity Governance and Trends
- Information Architecture, Classification & Usage
- 360° View on Sensitive Information Usage and Risks
- Strategy Definition & Executions (Roadmaps)
- Architecture Management
- ...

Sample Dashboards: <https://www.labnaf.one/In-content/dashboards>



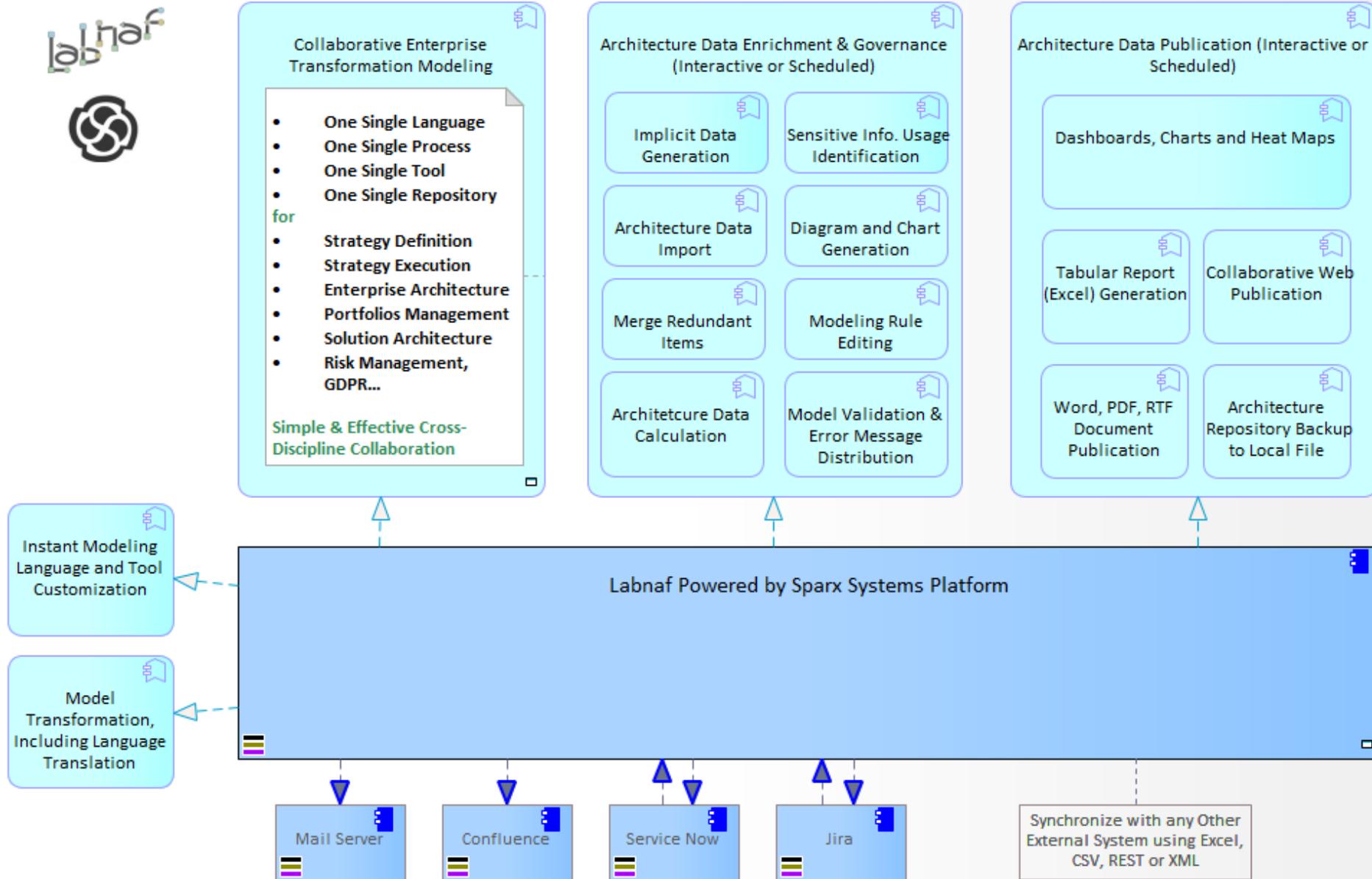
Agenda

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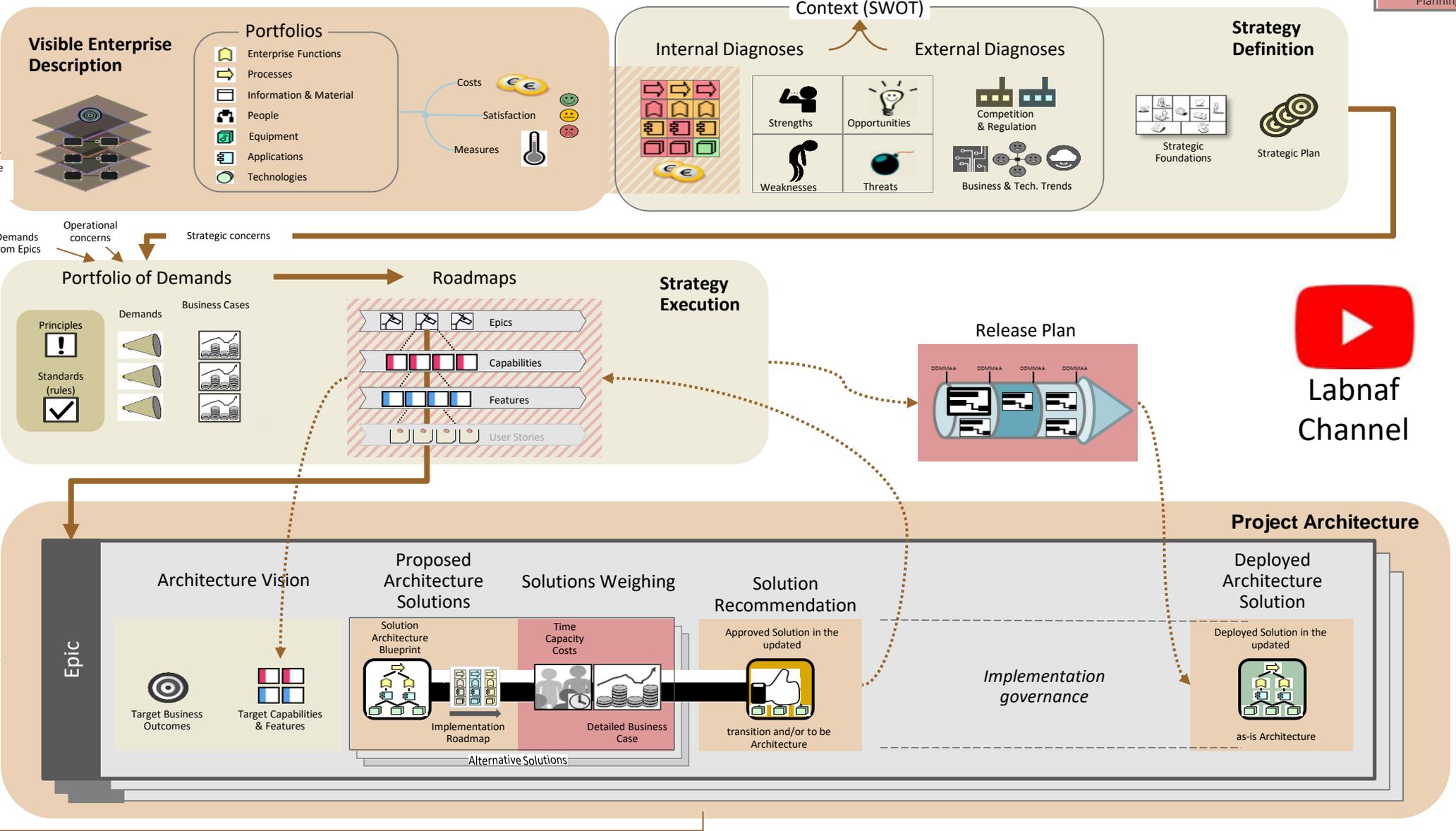
Collaborative Enterprise Visualization and Transformation From Strategy Down to the Code



Drive Changes to the Operating Platform

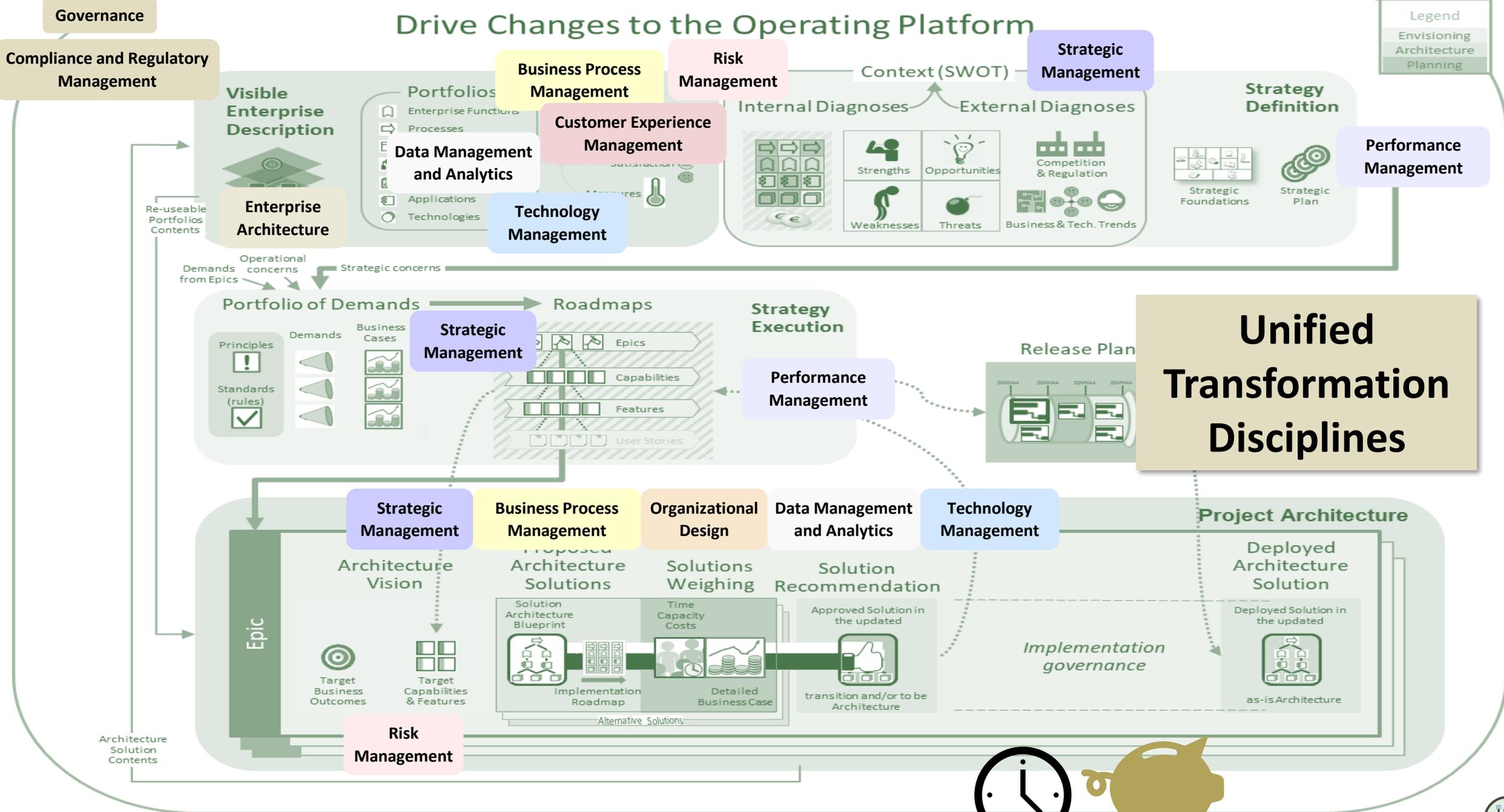
Legend

- Envisioning
- Architecture
- Planning



Drive Changes to the Operating Platform

Legend
 Envisioning
 Architecture
 Planning





ISO/IEC/IEEE 42010

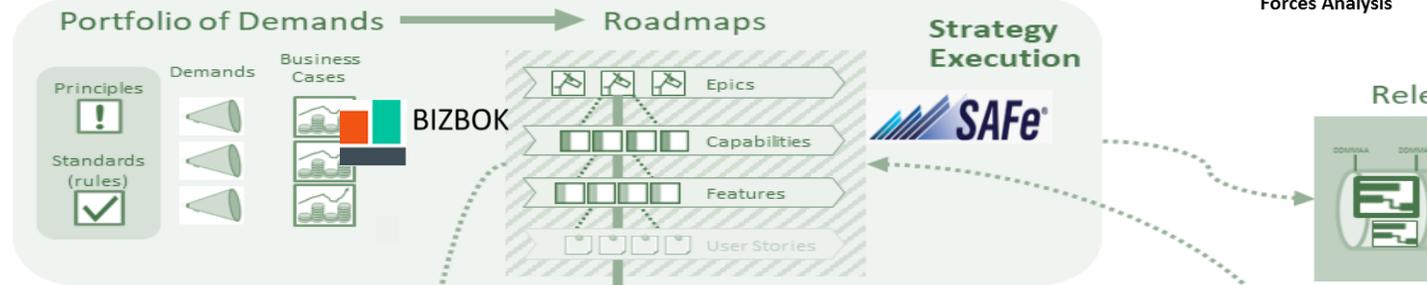
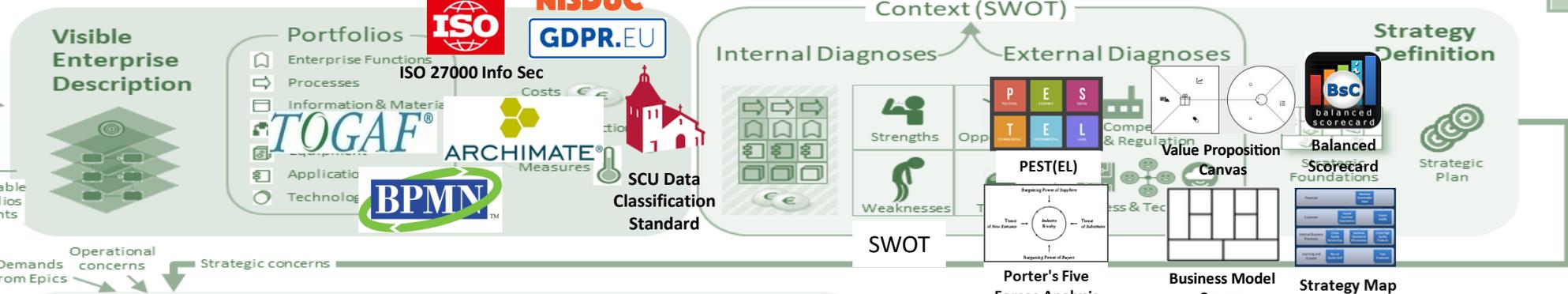


Systems Semantics

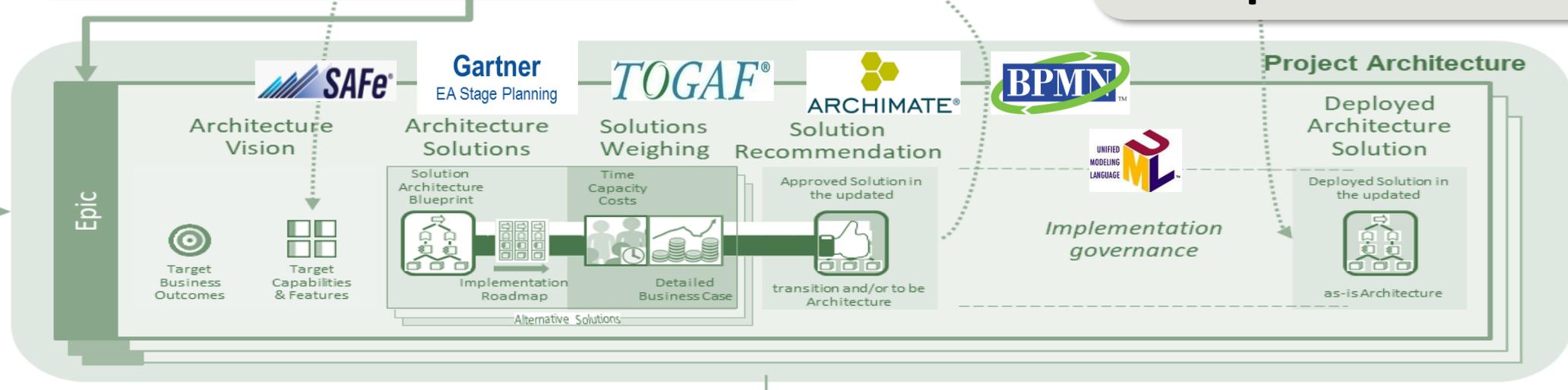
Drive Changes to the Operating Platform

Legend

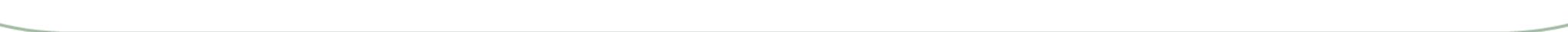
- Envisioning
- Architecture
- Planning



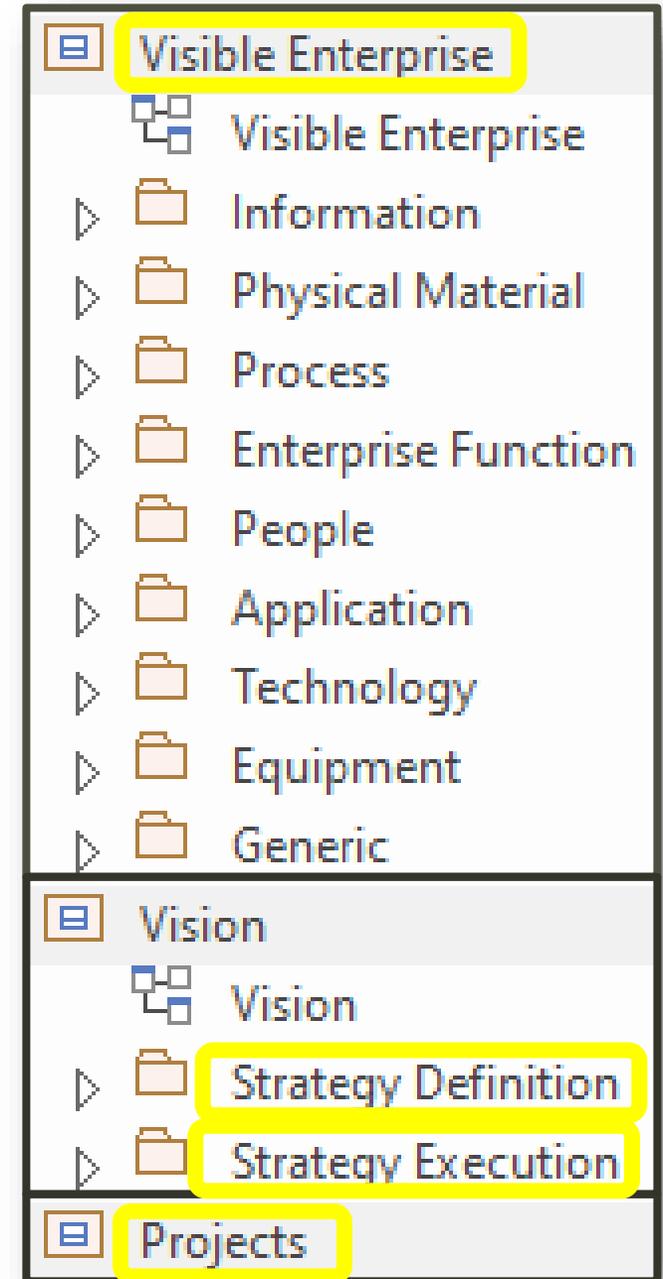
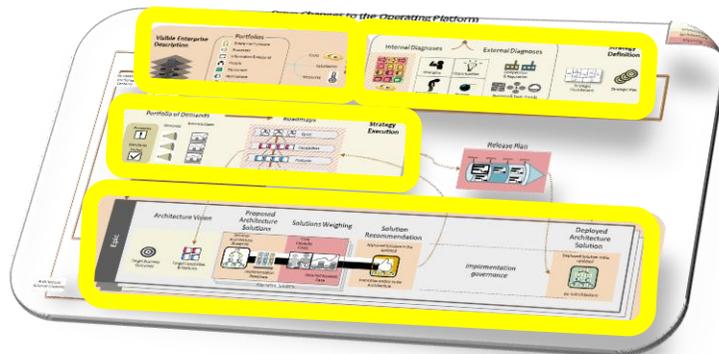
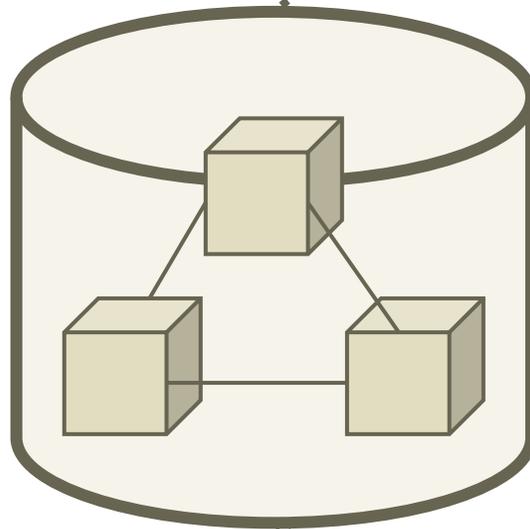
Scope of Standards within the Scope of Labnaf



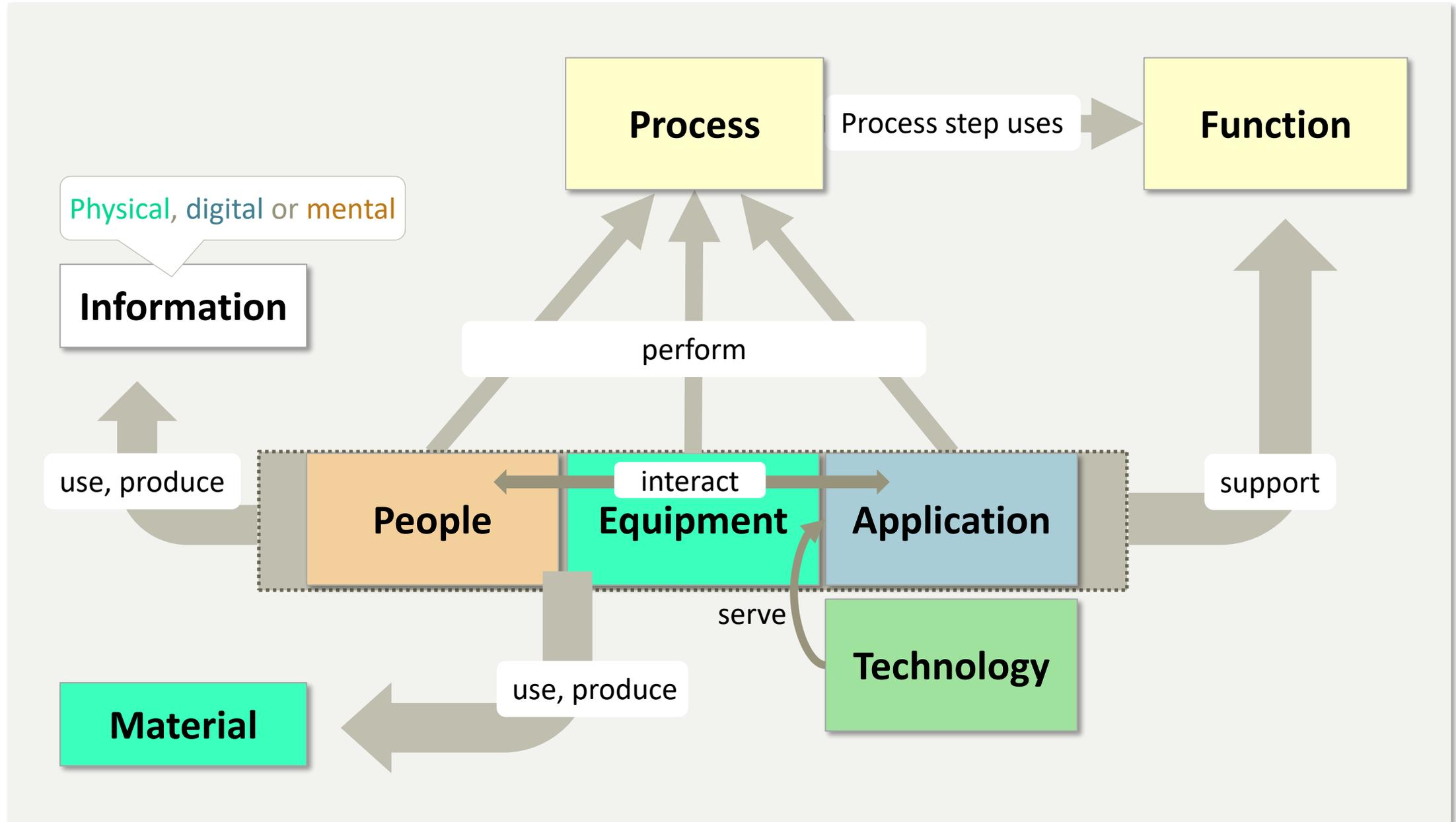
Architecture Solution Contents



In the shared repository Terminology is consistent with the process

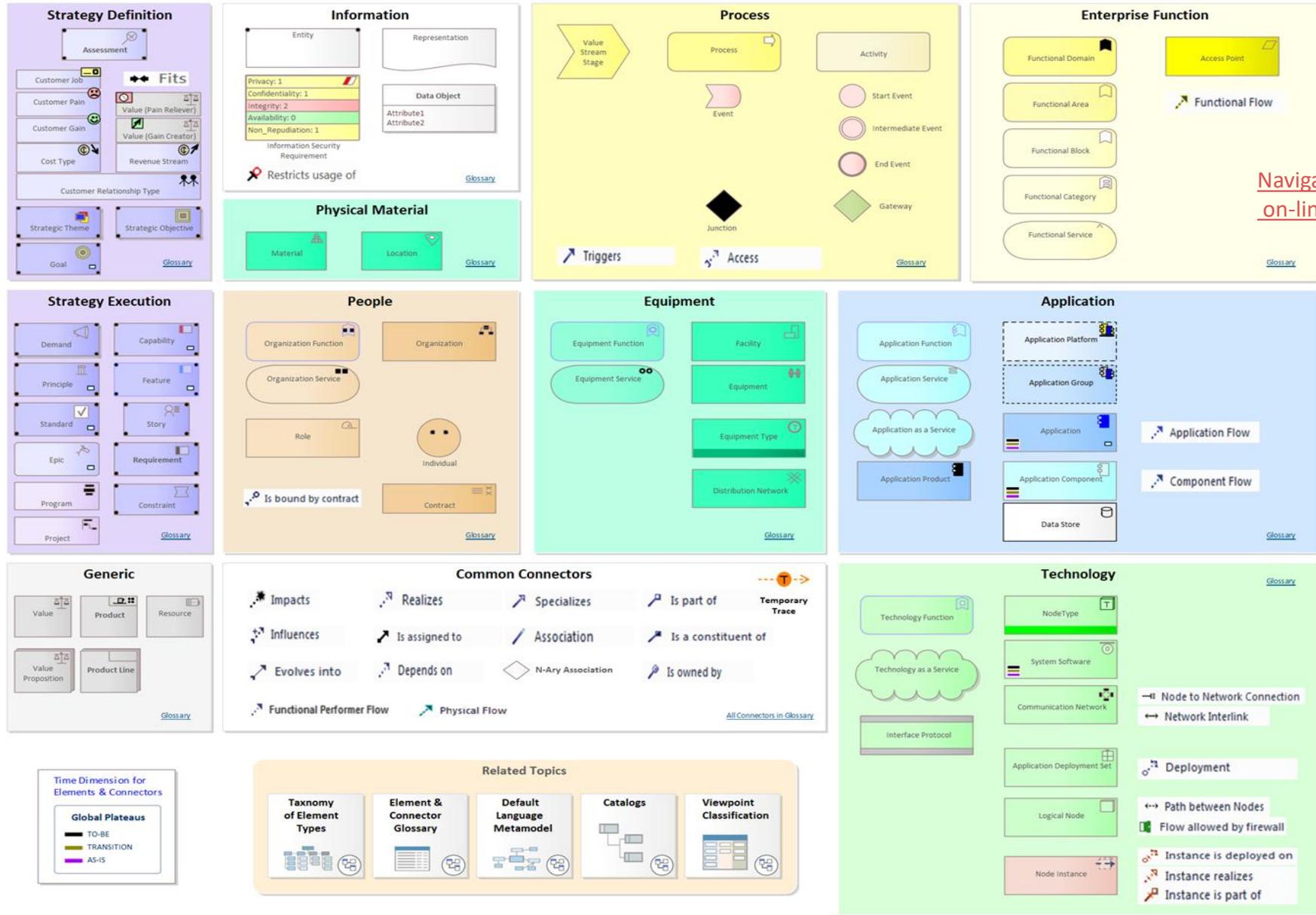


Architecture Content Organization - Overview



Labnaf Element and Connector Types

Modeling Elements & Connectors

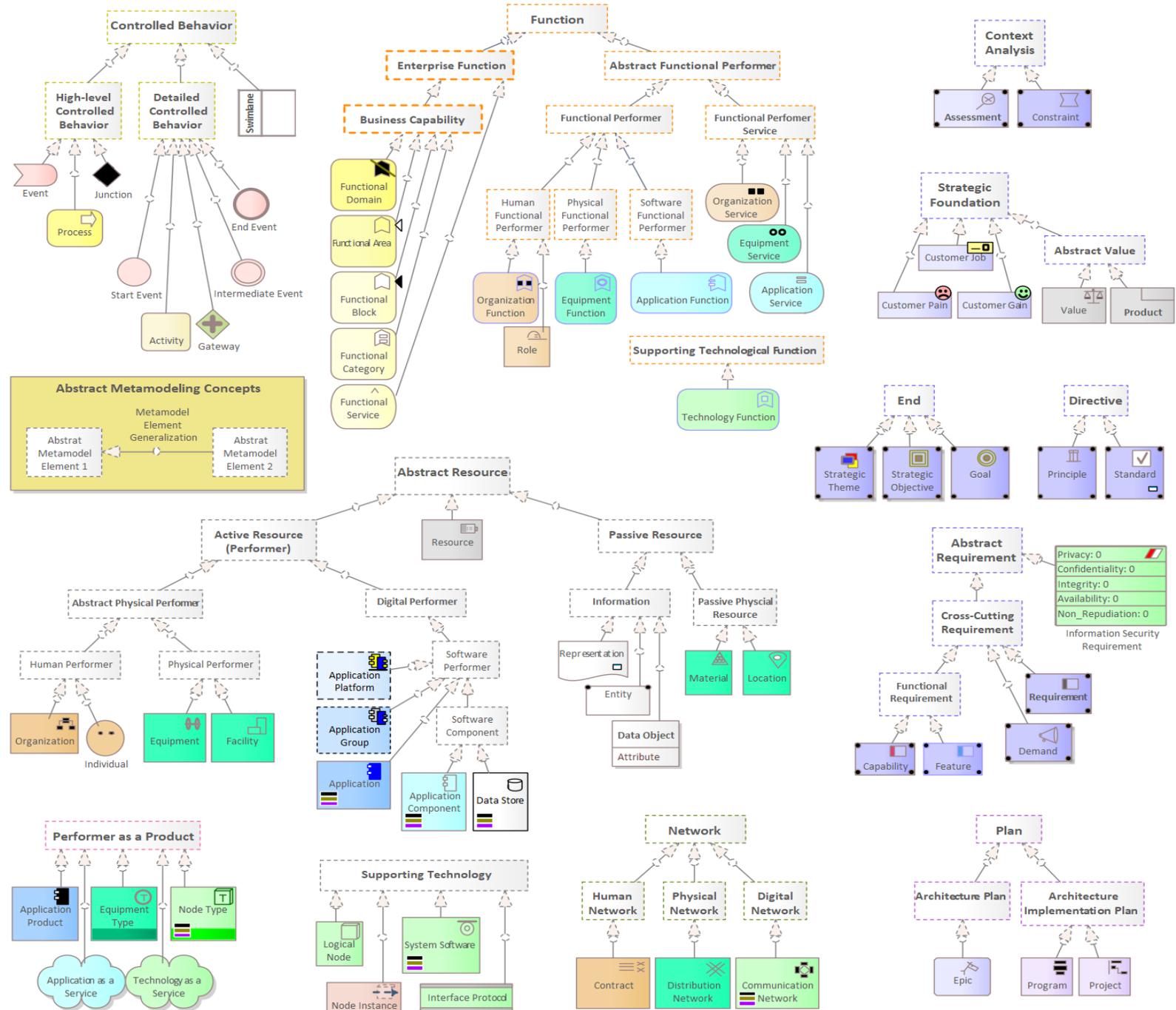


Navigate on-line...

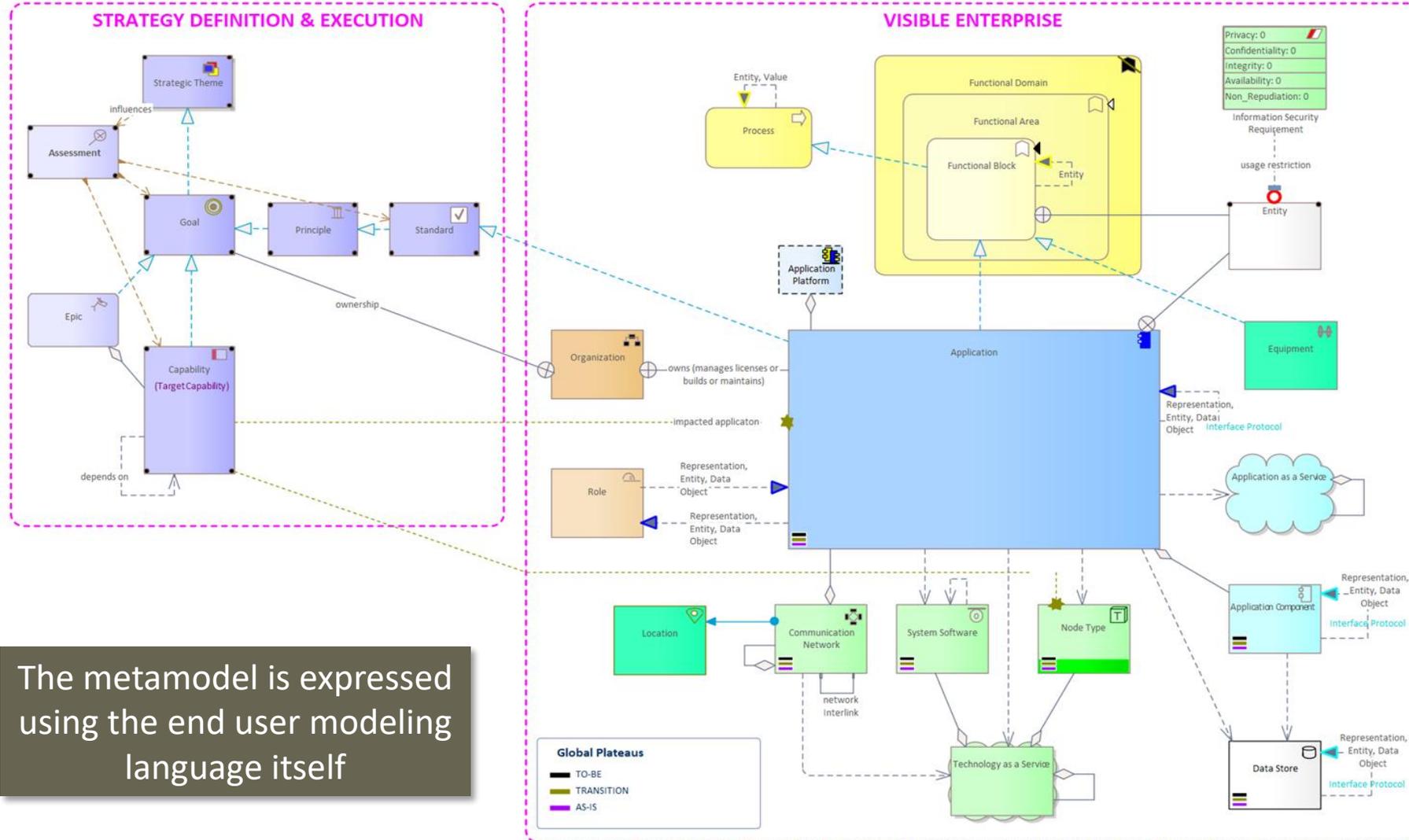


Taxonomy of Element Types

Part of the standard metamodel



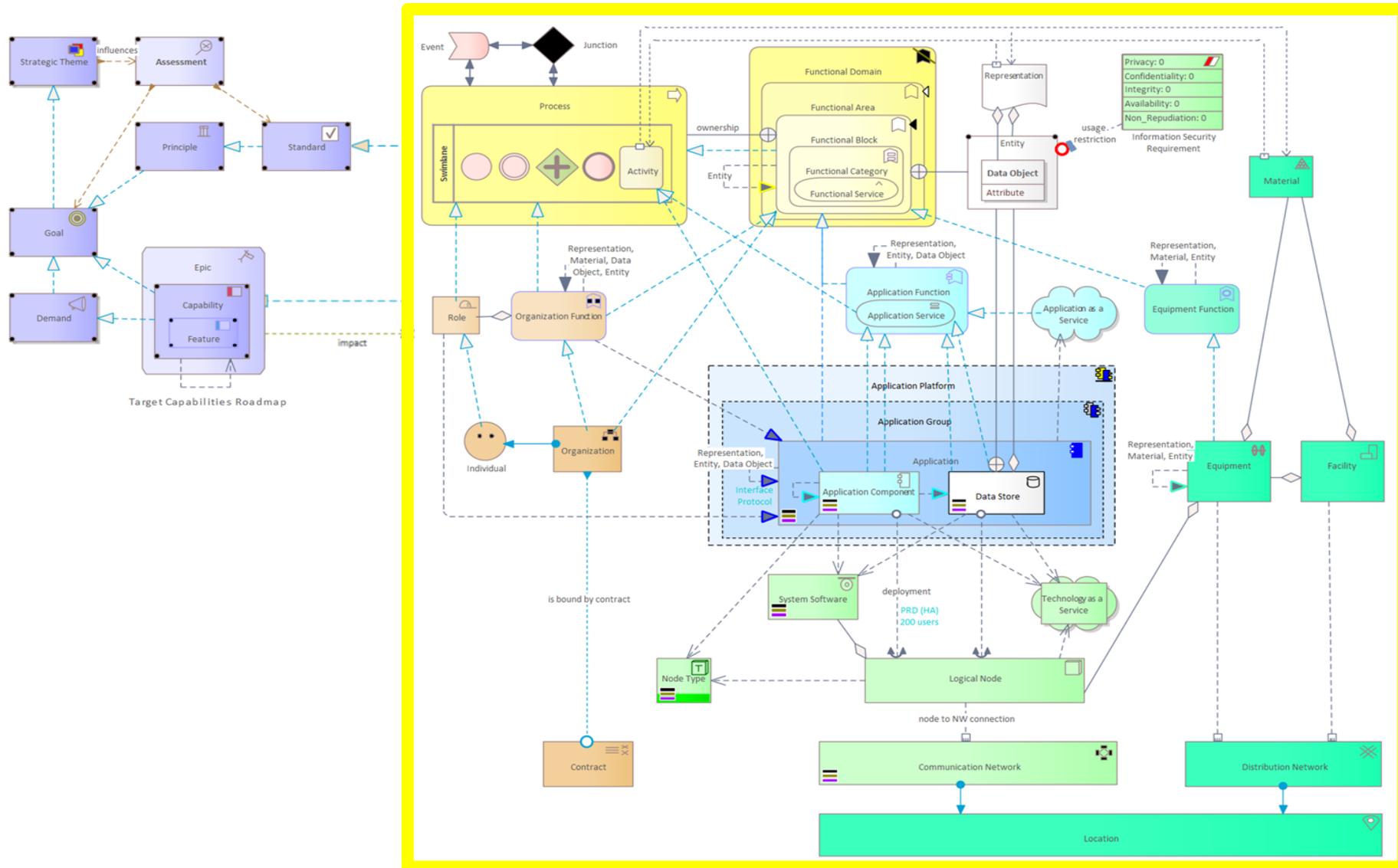
A Subset of the Metamodel including Strategy & Enterprise Architecture



The metamodel is expressed using the end user modeling language itself

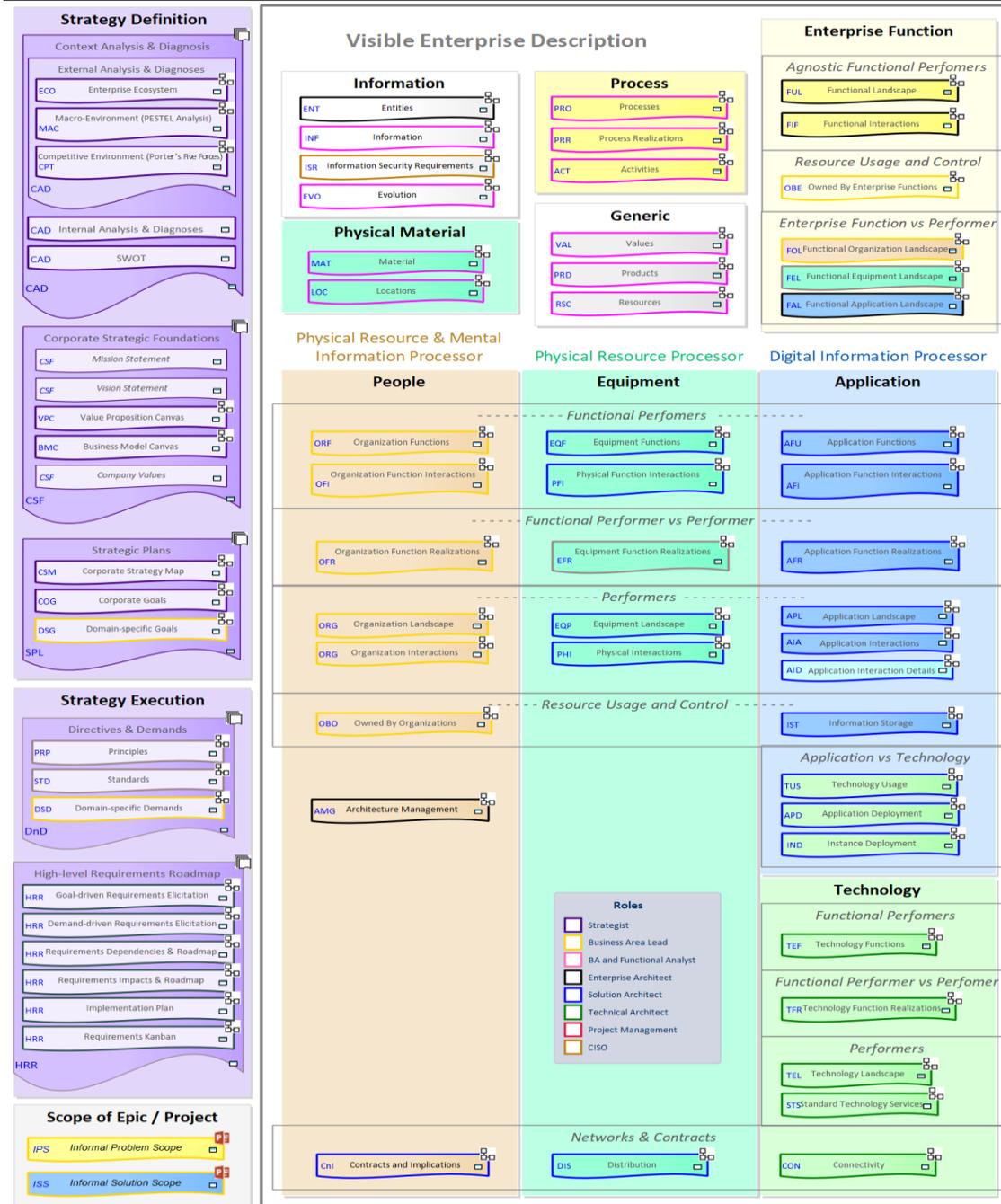


A Subset of the Metamodel including Strategy & Solution Architecture



These are the predefined Labnaf viewpoints

A Viewpoint is a type of view



Related Topics

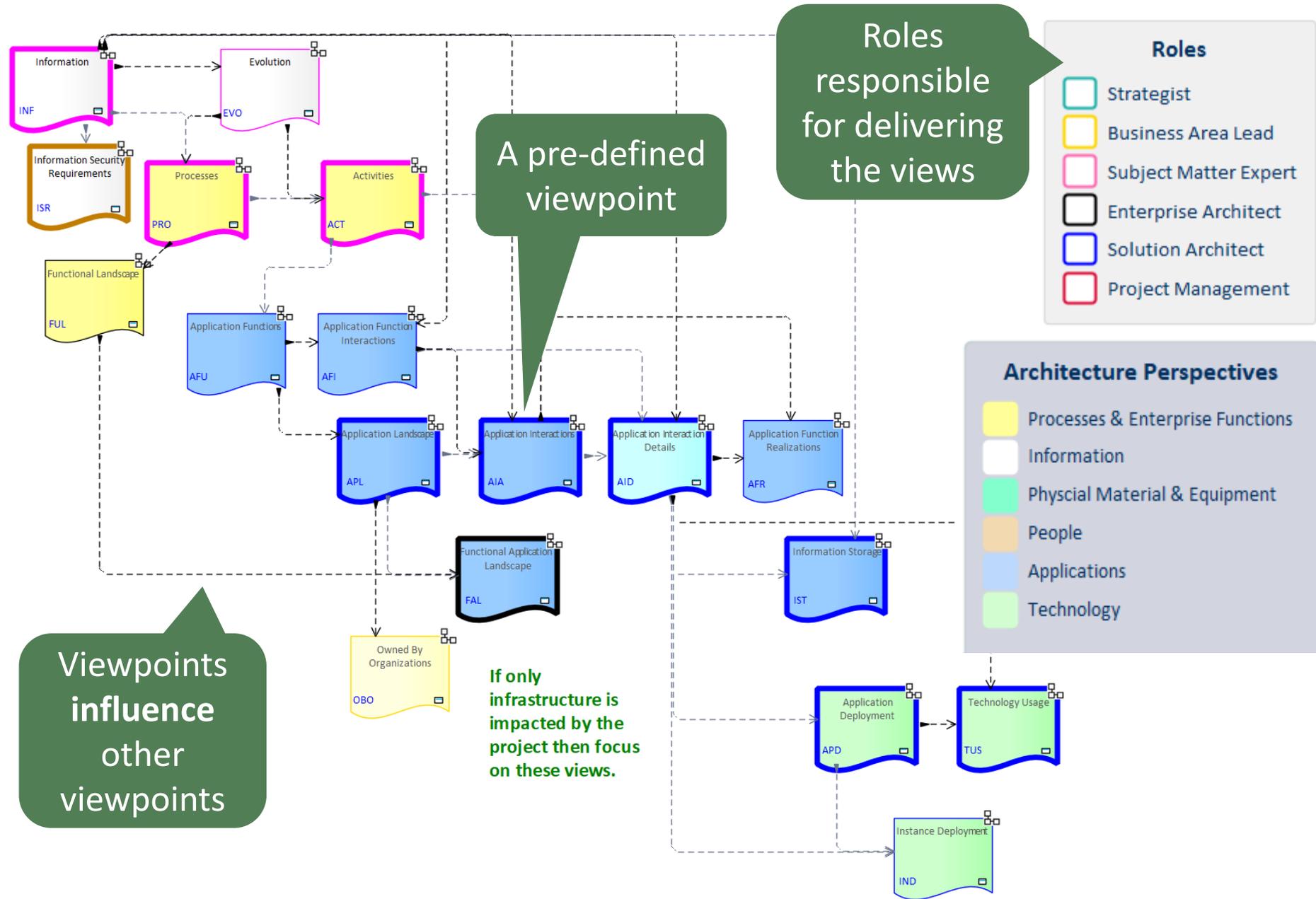
- Modeling Elements & Connectors
- Element & Connector Glossary
- Default Language Metamodel
- Catalogs

Configuration Viewpoints

- ELP Element Prototypes
- SCP Scope
- CEV Controlled Element Values
- TRD Tabular Report Template Design
- CHG Chart Generators
- TSC Time Series Chart Template Design

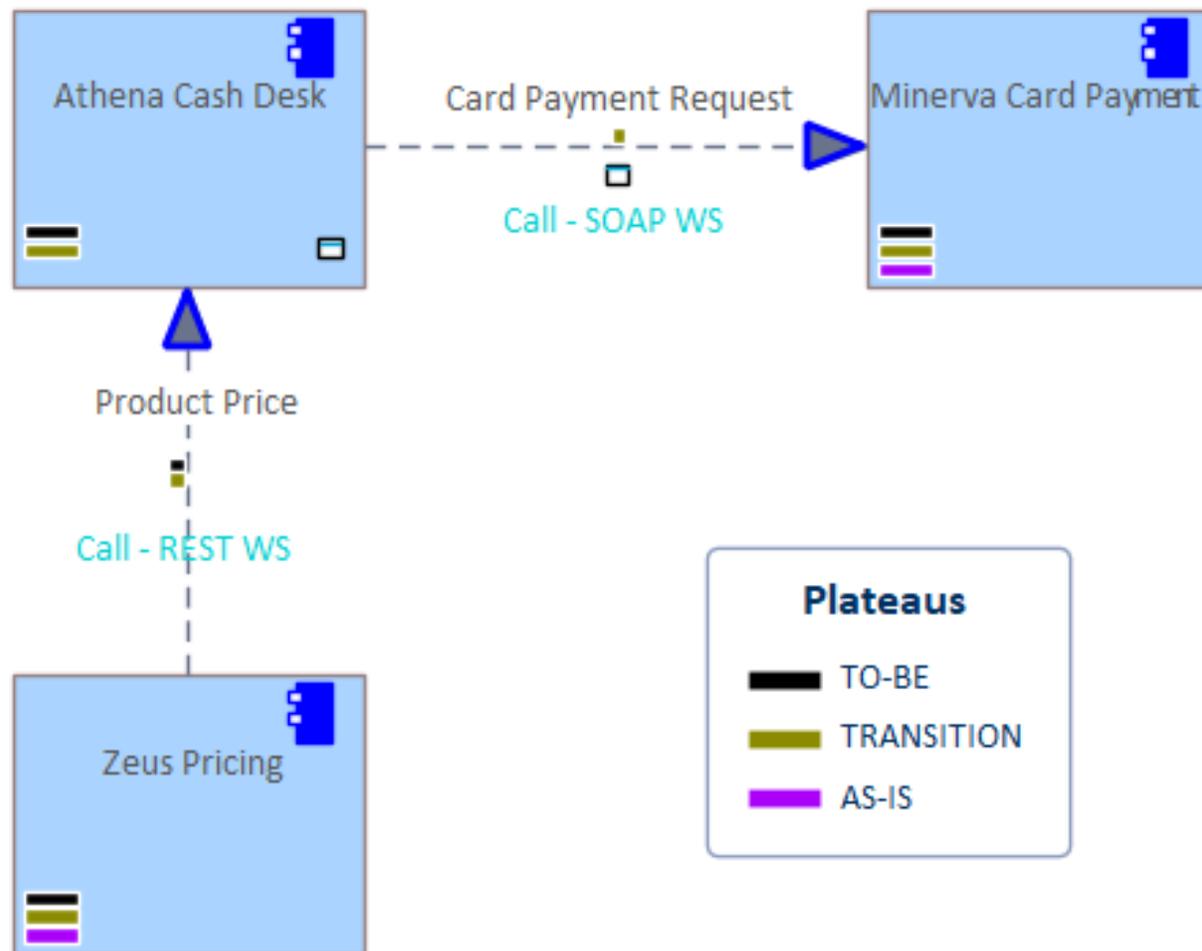


Scenario: IT Architecture Solution Description



Application Interactions viewpoint

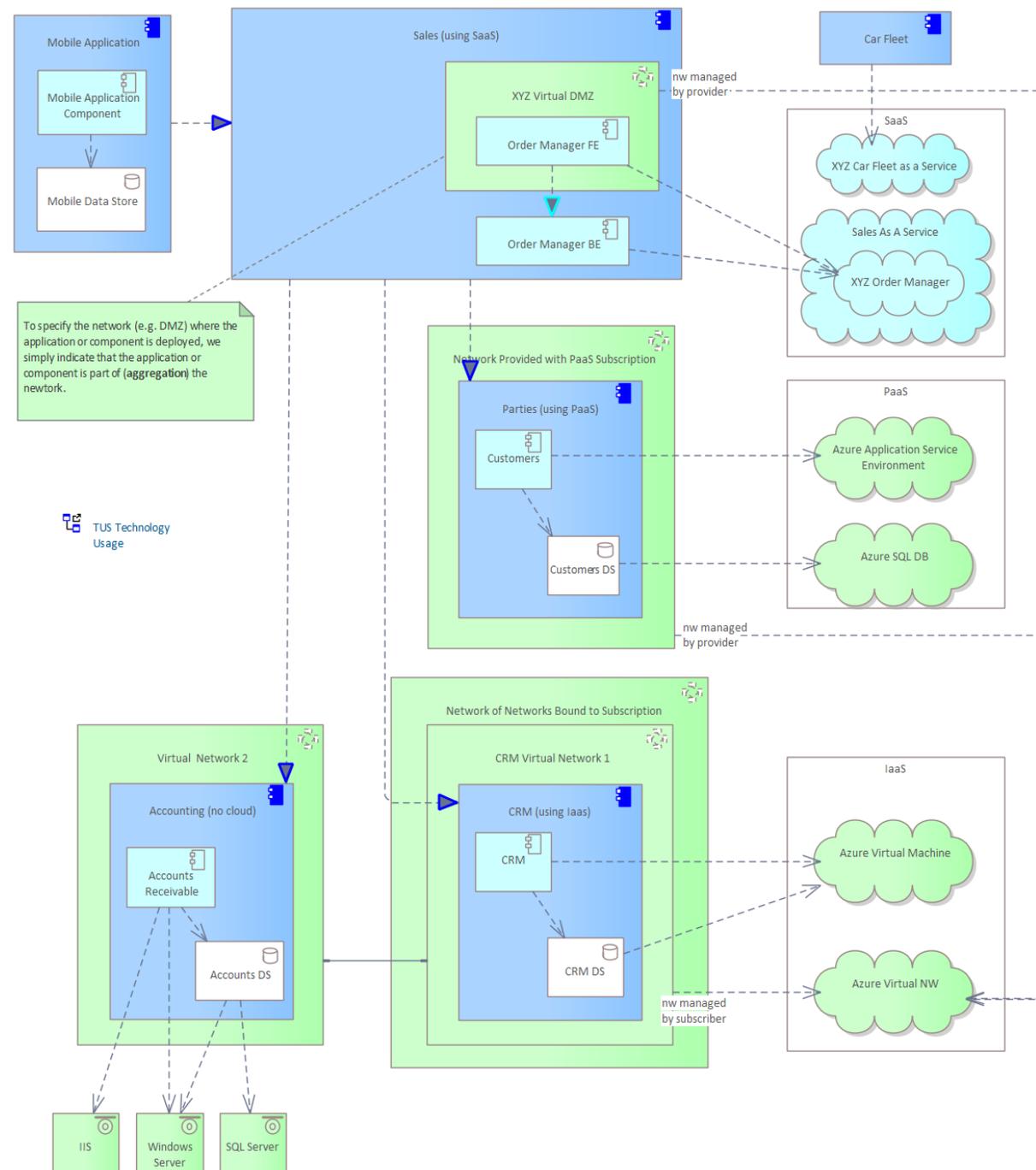
Diagrams are used by and for architects for entering and describing architecture data



Sample View

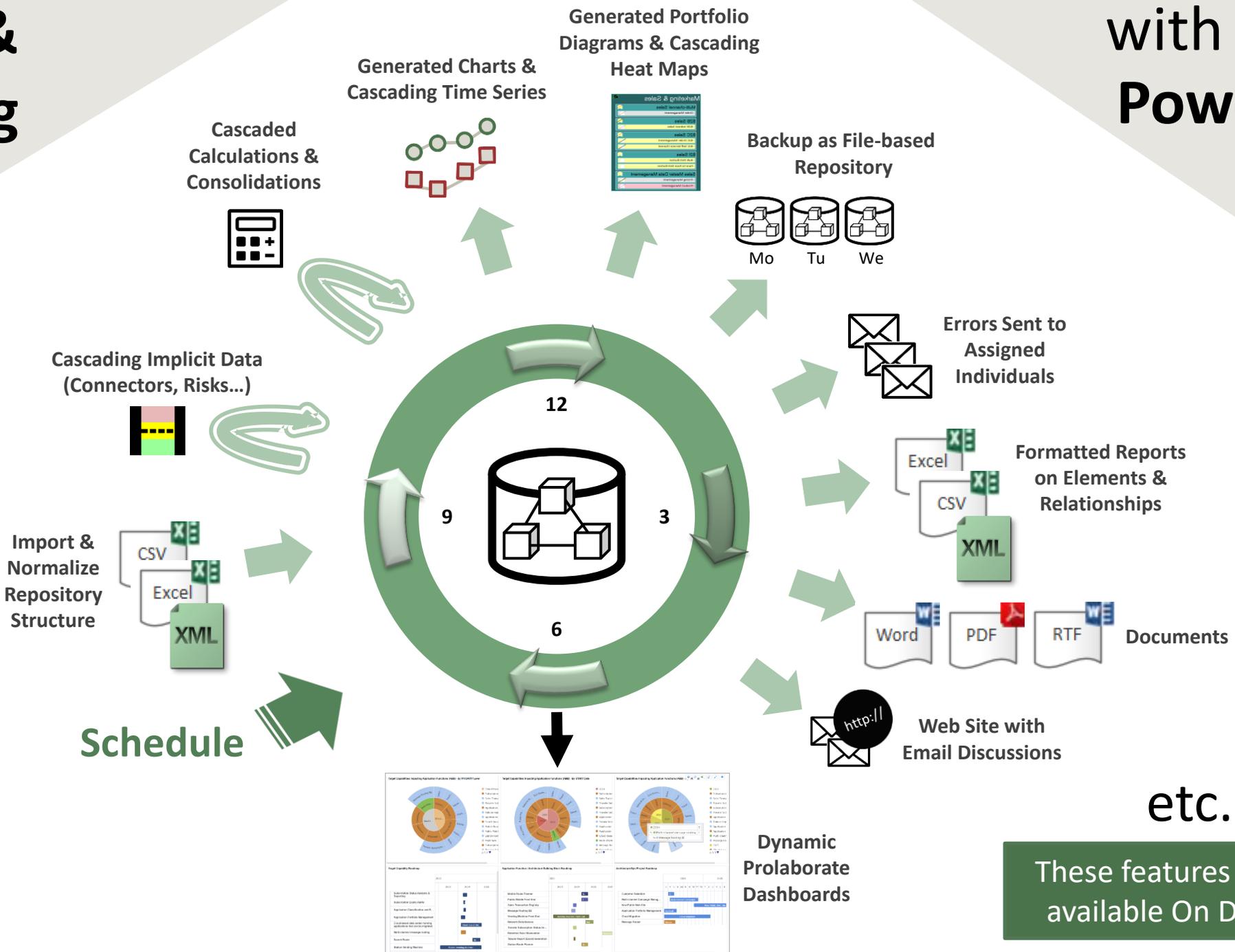
Technology Usage viewpoint

Any cloud mixed on
premise pattern



Scripting & Scheduling

with Labnaf PowerShell



etc.
These features are also available On Demand



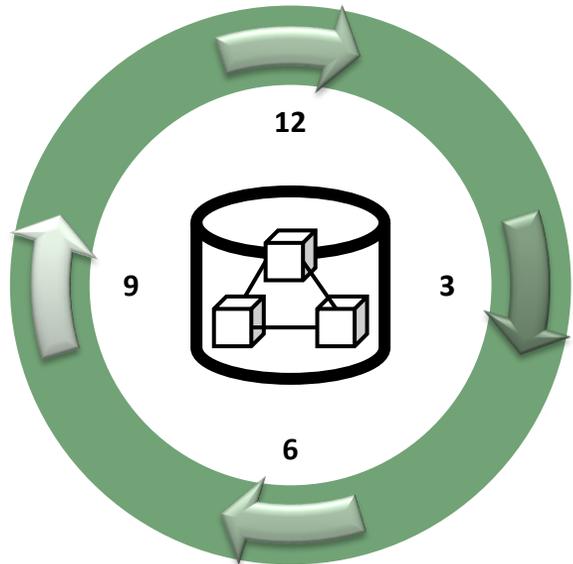
Labnaf PowerShell

- Configure & Test in the UI
- Script 
- Schedule



Commands
AutoConnectorsDelete
AutoConnectorsGenerate
BackupToFile
CalculateTaggedValues
ClonePackage
CreatePackage
ExportToXmi
GenerateCharts
GenerateDiagrams
GenerateDoc
GenerateHTML
GenerateImplicitData
GenerateTabularReports
ImportConnections
ImportFromXmi
ImportTabularReport
MoveElementsToCalculatedParent
MoveElementsToPackage
MovePackagesToPackage
RenameItem
ScheduleCommand
SetDiagramProperty
SetProperty
SqlExportToCsv
Validate

Scripting & Scheduling

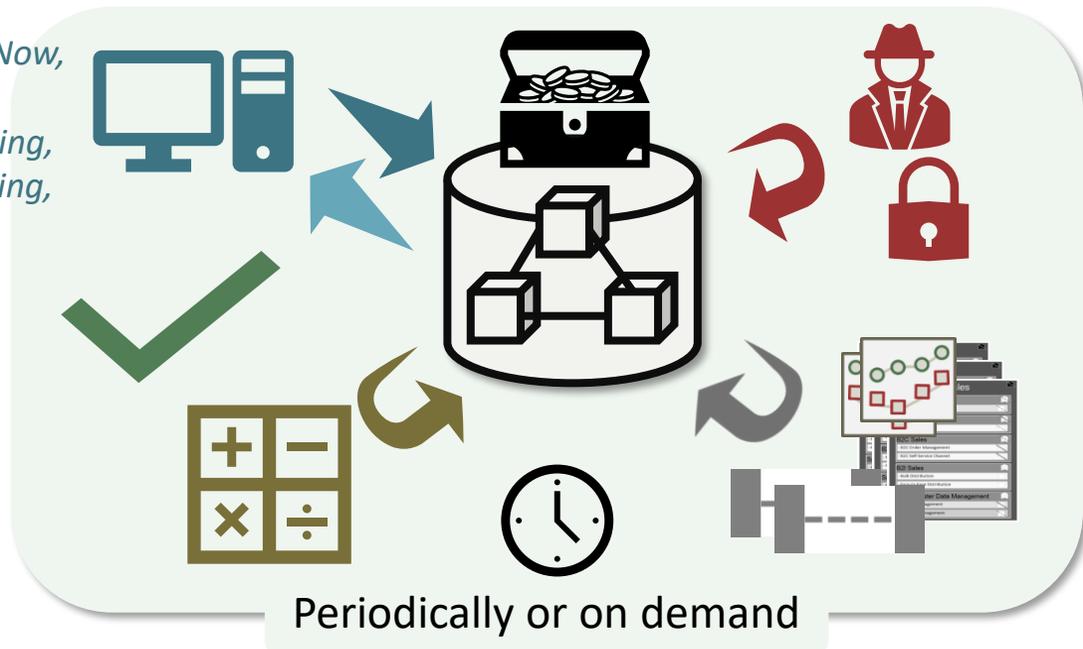


Data Enrichment & Distribution

Data is Automatically Enriched...

- Import data from different sources
- Validate & normalize the repository content
- Cascade calculation
- Generate implicit data, connectors, diagrams & charts
- **Generate 360° analysis of sensitive data usage & risks**
- Export to other systems and repositories

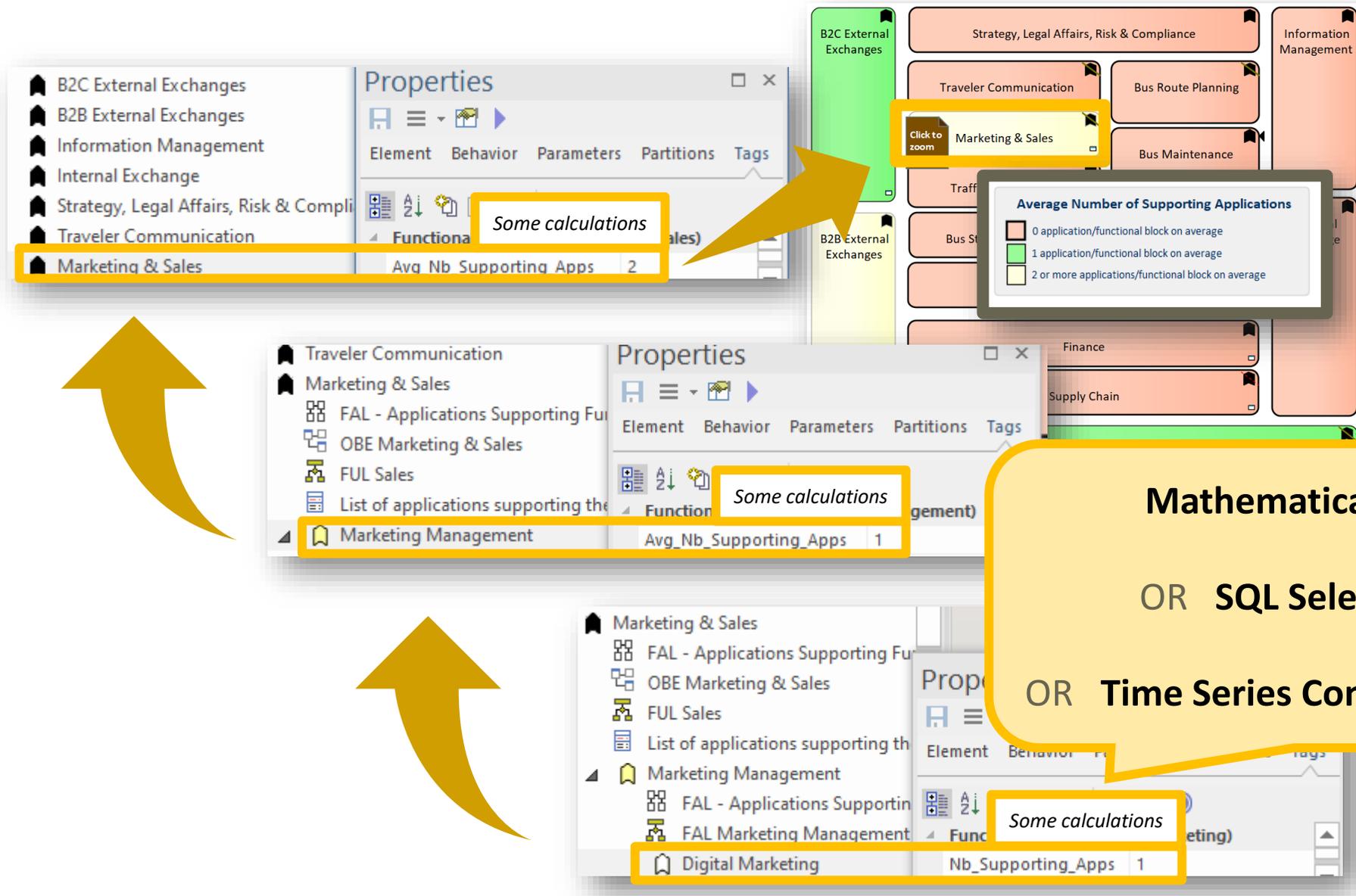
Service Now,
CMDB,
Monitoring,
Accounting,
HR...



and Presented in Dashboards & Reports



Cascaded calculations



Creating/Updating Architecture and Strategy Data – Use Cases

What	How	With What
	HUMAN-CONTROLLED	
Initial population of catalogs	Import elements, connectors, properties, diagrams. <i>Normalize foreign languages.</i>	Labnaf UI <i>Labnaf Language Transformer</i>
Create content & prevent errors	Model elements, relationships and diagrams.	Labnaf UI
Edit discrete information details	Edit element properties.	Labnaf UI or Prolaborate
Bulk update using surveys	Export formatted Excel, distribute & import updates.	Labnaf UI
Versioning & merging	Create copies (same or different repository) & Merge	Labnaf UI
	SCHEDULED (AUTOMATIC)	
Synchronization with external systems	Import/Export repository content (CSV,Excel,XML).	Labnaf PowerShell
Content enrichment	Calculate, generate implicit connectors & diagrams.	Labnaf PowerShell
Validation	Detect errors & inform calculated audience.	Labnaf PowerShell
Normalization	Auto correct and reorganize repository content.	Labnaf PowerShell



Publishing Architecture and Strategy Data

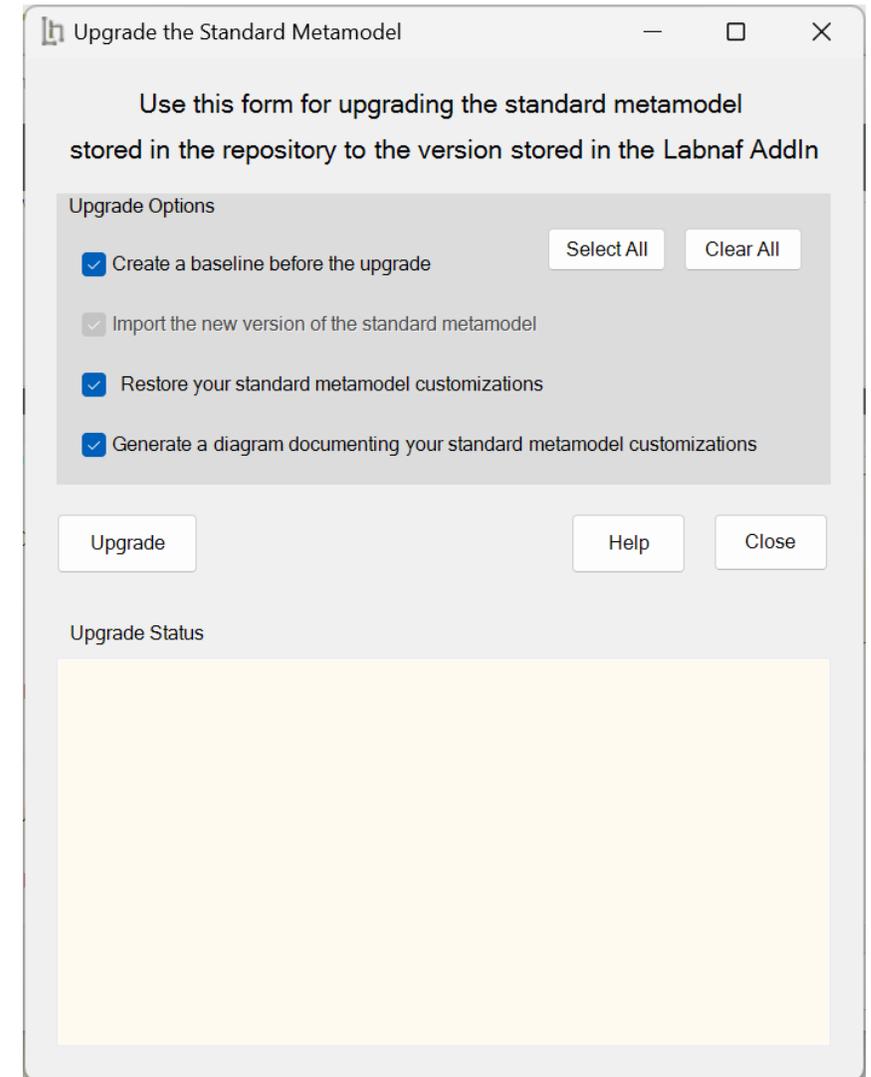
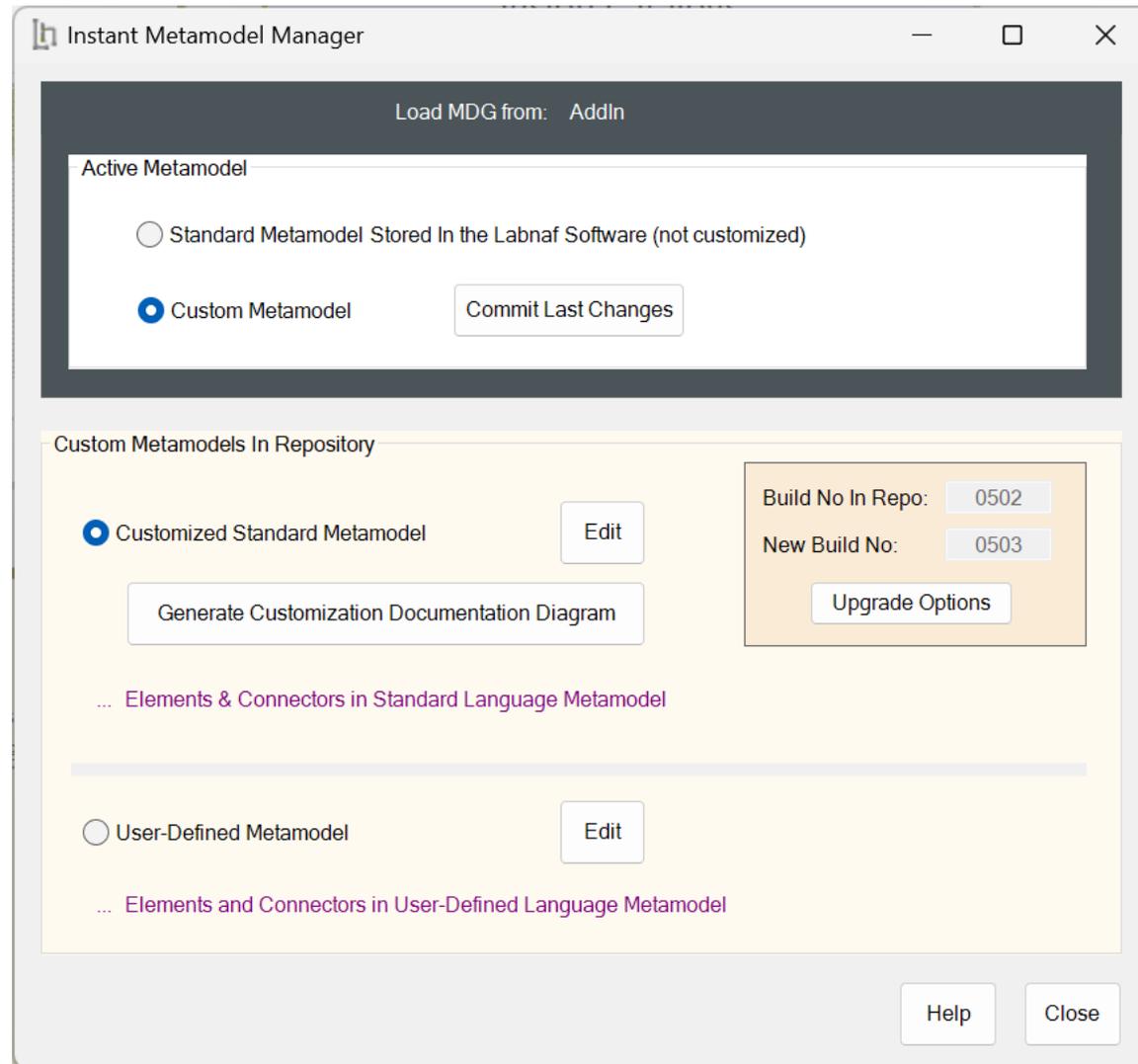
What	How	With What
Dynamic Dashboards & Charts	Organize Prolaborate dashboards to visualize, summarize and navigate dynamic catalog contents, calculated values, generated diagrams & charts.	Prolaborate
Collaboration/Reviews/Discussions multiple options	Modelers only: Sparx EA reviews & discussions Prolaborate users: Prolaborate reviews & discussions Anyone: Email discussions using the static web site	Prolaborate or Labnaf UI or Labnaf PowerShell
HUMAN-CONTROLLED or SCHEDULED (AUTOMATIC)		
Static Web Site with Charts simpler (and cheaper) alternative	Generate static web site to visualize, summarize and navigate catalog contents, calculated values, generated diagrams and charts.	Labnaf UI or Labnaf PowerShell
Rich Excel Formated Reports	Use built-in Labnaf templates or model your own. Generate.	Labnaf UI or Labnaf PowerShell
Word, PDF, RTF	Use built-in Labnaf templates or model your own. Generate.	Labnaf UI or Labnaf PowerShell

The Labnaf UI is a Sparx Enterprise Architect AddIn. The platform can be deployed either on premises or [on cloud](http://www.labnaf.one).



Instant Metamodel Manager

Customization from the Labnaf Add-In



Instant Metadata Manager (for element properties)

Customization from the Labnaf Add-In

The screenshot shows the 'Instant Metadata Manager' application window. It is divided into several sections:

- Element Types and Properties:**
 - Element Types:** Radio buttons for 'All Labnaf Element Types' (selected) and 'Customized Element Types'.
 - Element Types List:** A scrollable list of element types, with 'Application' selected.
 - Properties @ LABN_Application:** A list of properties with checkboxes: 'Labnaf language properties', 'Custom properties (in template package)', and 'Other (imported, calculated, uncategorized)' (all checked).
 - Property List:** A list of properties including: 1 TO-BE, 2 TRANSITION, 3 AS-IS, Code, Criticality, Deployment_Status, Doc_Amount, Functional_Fit, In_Operation_End_Date, In_Operation_Start_Date, IT_Contact, IT_Contact_Delegates, Nb_Components, Nb_In_and_Out_Flows, Nb_Incidents, Nb_Supported_FBs, NB_Users, Pct_Unavailable, TCO, Technical_Fit, and Vision.
 - Buttons:** Refresh, New, Rename, and Delete.
- Types of Repository Elements with Missing Properties:**
 - Labnaf language properties not found in:** A list containing 'Application'.
 - Custom properties not found in:** A list containing 'Project'.
 - Buttons:** Find Element Types Out Of Sync (missing properties), Synchronize properties and constraints for SELECTED element types, Synchronize properties and constraints for ALL element types, Delete Duplicate Properties, Help, and Close.



Advanced customizations of the modeling language (MDG) using the Labnaf Customization Workbench

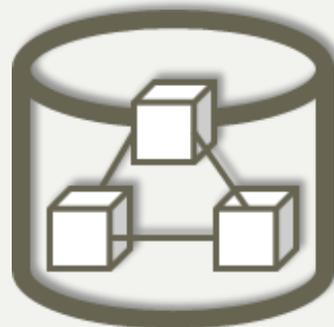
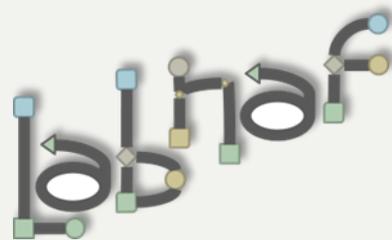
The screenshot shows the Labnaf Customization Workbench interface. At the top, there are buttons for 'Save', 'Reload', and 'About'. The 'Load MDG from:' section has radio buttons for 'Files' (selected) and 'AddIn'. Below this, the 'Software Development Lifecycle Environment' section contains three rows for folder selection: 'Development folder' (C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev), 'Testing configuration folder' (C:\ALT\SparxDev\Distributed\Labnaf\Environments\2_Test), and 'Production configuration folder' (H:\Tools\LabnafConfig). Each row has a 'Select Folder' button, and the 'Production' row also has an 'Activate' button. A yellow highlighted section titled 'Active Runtime Configuration on this PC:' shows 'PROD' as the active configuration. Below this, a table lists MDG files and their last changed times. The bottom section, 'Software Development Lifecycle', lists various actions like 'Edit MDG Source Model (EAP)', 'Generate MDG => Testing', 'Activate Testing Configuration', and 'Activate Production Configuration', each with a corresponding file path and timestamp.

Software Development Lifecycle	Time Last Changed
MDG Development	
Edit MDG Source Model (EAP)	C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev\Labnaf_Custom 2019-03-05 12:50:36
Edit MDG Deployment File (MTS)	C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev\Labnaf_Custorr 2019-03-05 11:24:02
Generate MDG => Testing	
MDG Testing	
Activate Testing Configuration	C:\ALT\SparxDev\Distributed\Labnaf\Environments\2_Test\Labnaf_Custon 2019-03-05 11:59:12
Open Testing Repository	C:\ALT\SparxDev\Distributed\Labnaf\Environments\2_Test\Labnaf_Test_Re 2019-03-05 11:41:16
Copy MDG from Testing => Production	
Configuring Production	
Activate Production Configuration	H:\Tools\LabnafConfig\Labnaf_Custom_MDG.xml 2019-03-05 11:59:12
Open Production Repository & Edit Metamodel	H:\Tools\LabnafConfig\Labnaf_Prod_Repository.eap 2019-02-28 18:01:07
Generate Connectors Definition => Production	H:\Tools\LabnafConfig\Labnaf_Custom_QuickLinks.xml 2019-03-04 17:36:25



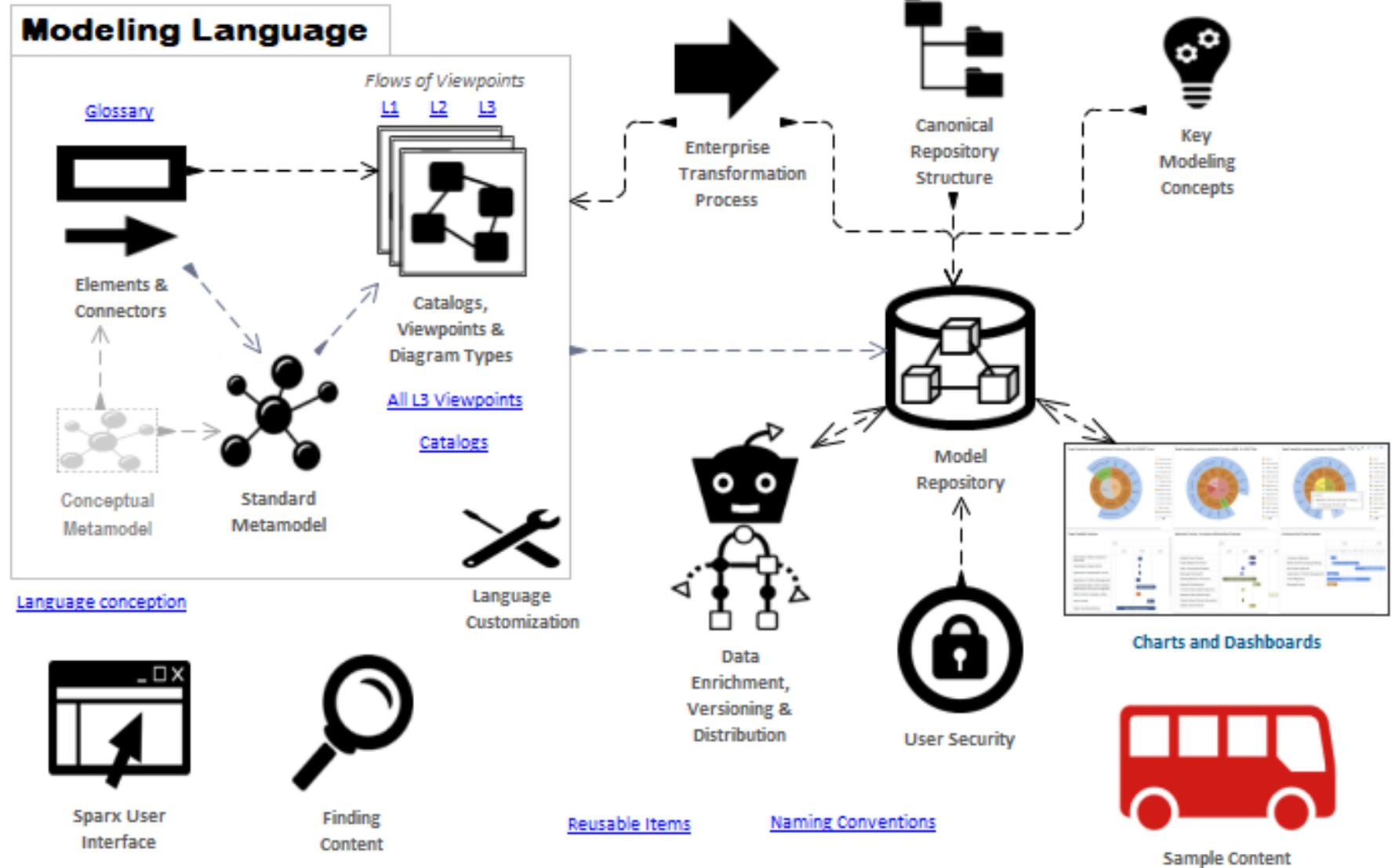


Transform any language to/from Labnaf...



We all speak the same language





End User Guidance

www.labnaf.one/guidance



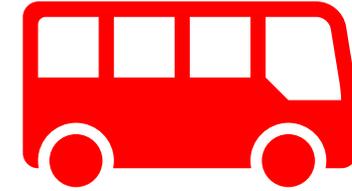
Agenda

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Appendix: As-is versus potential situation



BOPCO - The Bus Operating Company



BOPCO is facing some challenges.

But there are also opportunities.

	Internal	External
Helpful	<p>STRENGTH</p> <ul style="list-style-type: none"> • Ticketing anywhere on any device • Multimodal hubs 	<p>OPPORTUNITIES</p> <ul style="list-style-type: none"> • Improve punctuality by connecting to new public infrastructure optimizing traffic fluidity • Leverage mobile infrastructure to optimize customer loyalty and to attract new customers
Harmful	<p>WEAKNESSES</p> <ul style="list-style-type: none"> • Punctuality • Losing customers returning to car • Difficult for customers to find the best itinerary 	<p>THREATS</p> <ul style="list-style-type: none"> • Decreasing public funding needed to adapt to sustainability and smart mobility



Labnaf makes Digital Transformation visible and in motion



Strategist

Business Architect

Other Architecture Roles

Business Context
Business Models, Goals...

Value Streams...

Drive Changes to the Operating Model

Visible Enterprise Description

Strategy Definition

Strategy Execution

Project Architecture



Operational Info Gaps...

Target Capabilities Roadmaps...

Enterprise Architect

Solution Architecture...

Solution Design...

Technical Info & Gaps

Approved Solutions

Implemented Solutions

Solution Architect

Designer
(Software, Robotics...)

