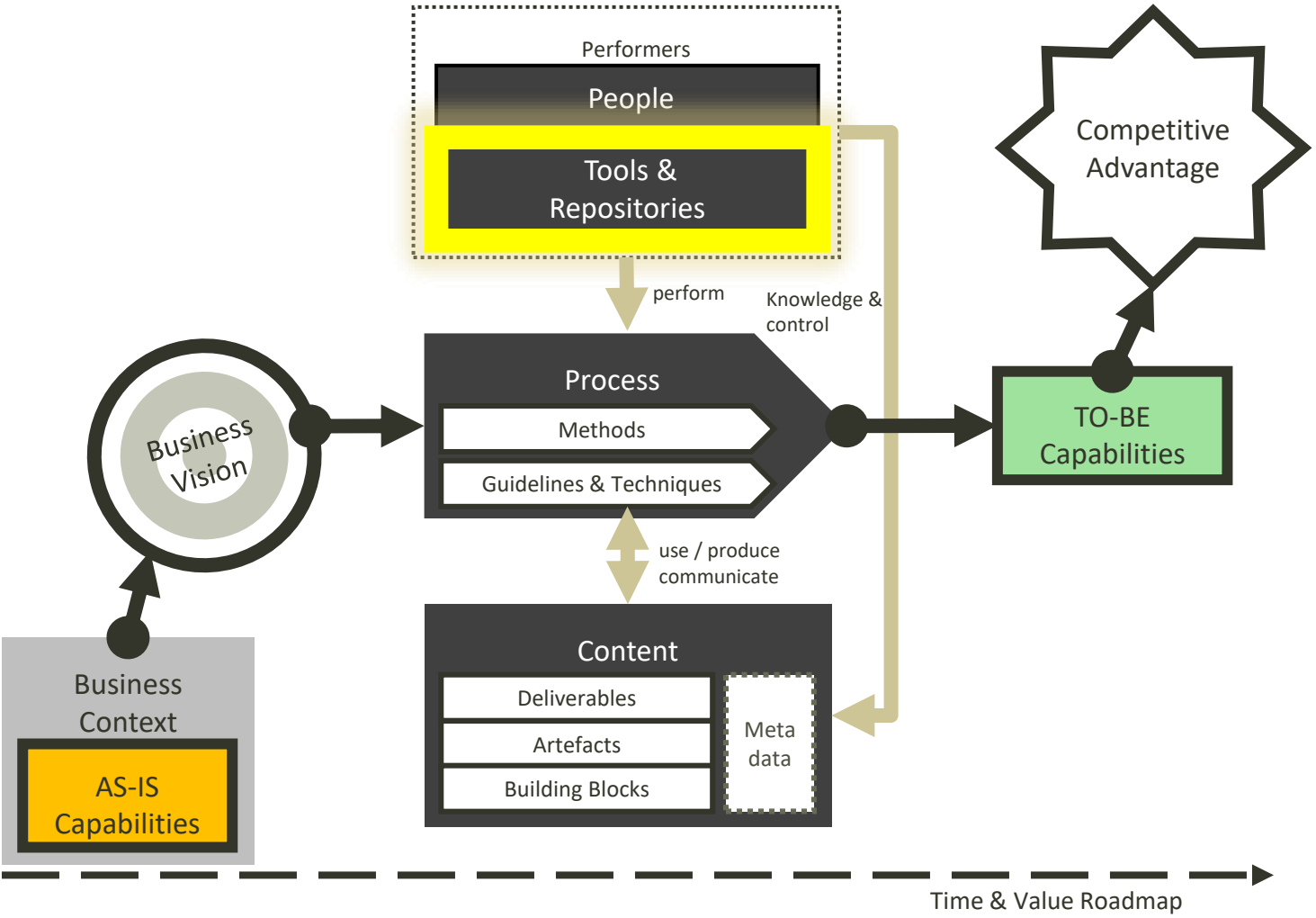


Unified Framework for Driving Transformations

Tools & Repository

Tools & Repositories



EA Tools: State of the Industry (ct'd)

- EA tools are very expensive
- Focus is typically Modeling OR IT portfolio management
- Poor metamodel semantics. Hard to adapt the metamodel if the model is already there
- Limited number of skills for each tool
- Limited Modeling continuum across levels of details
- They do not articulate any end to end process from strategy down to portfolio



Tool: How we resolved...



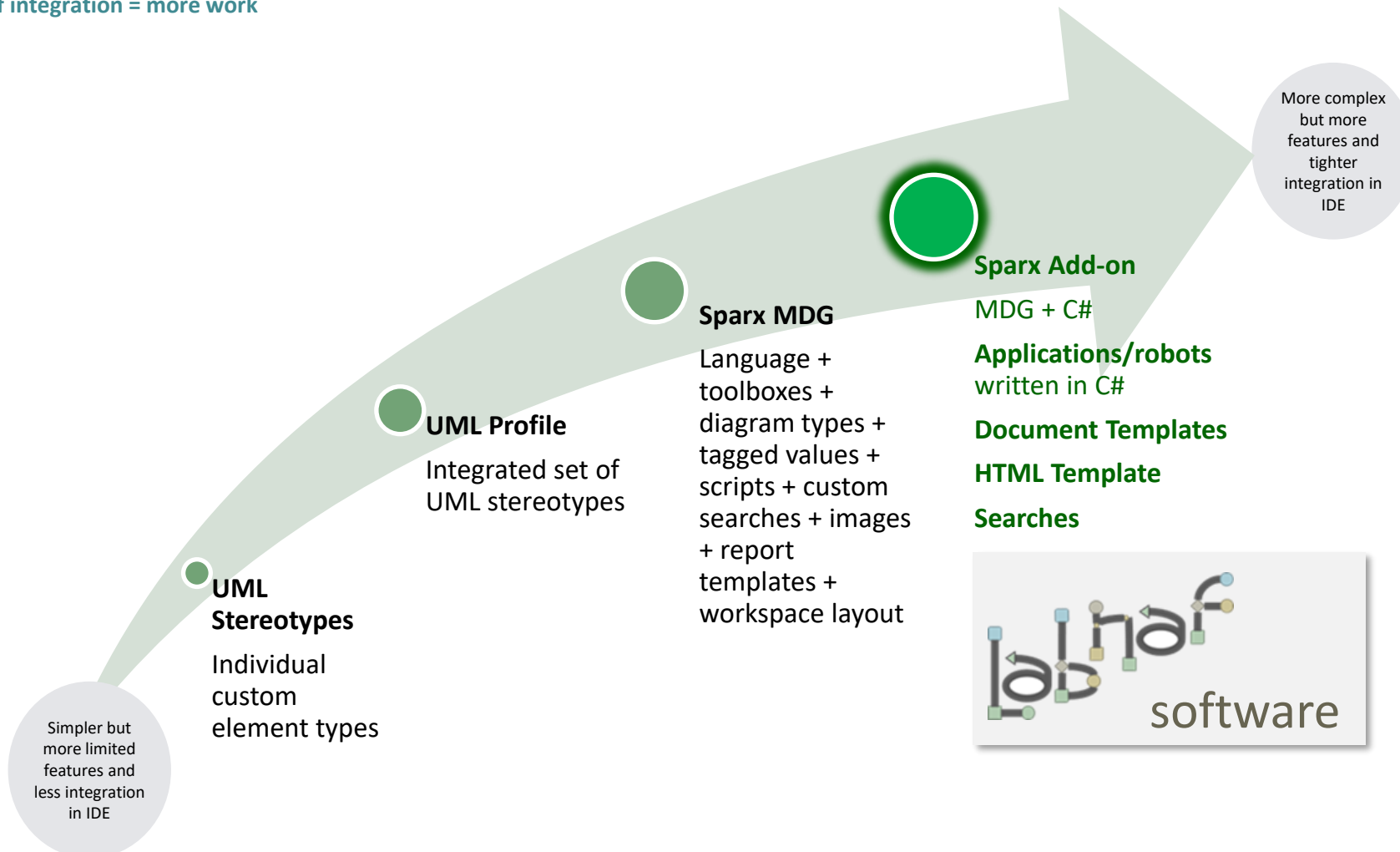
- Select a Modeling tool that is
 - Affordable
 - Reliable, scalable and secure
 - Very flexible, extensible, easy to configure and to integrate
 - Most common in the industry (750 K licenses worldwide)
 - Known by the largest number of modelers
- Integrate our language, a dynamic metamodel, diagram types and toolboxes in Sparx
- Define an Architecture Repository Organization
- Develop our Architecture Repository Guidance & Content Web Site
- Create robots (document and diagram generation, model validation, value calculation...)



Sparx EA Software Development Kit (SDK)

Enables multiple levels of modeling solution development and integration

Higher level of integration = more work





Functional

Labnaf is a **unified solution for driving transformations** (all architecture roles, strategy, security)

- Unified **transformation process**, **modeling language**, **metamodel**, **repository**, and **tools**
- Instant framework Customization
- Tools leverages the Sparx Systems development platform
- **Ready to go**



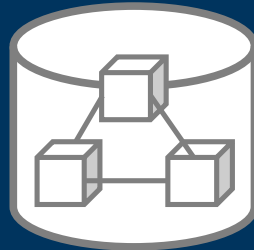
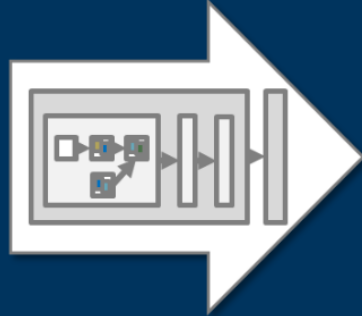
Technical

Sparx Systems provides a **technical platform for collaborative modeling and visualization**

- **Reliable, scalable and secure**; Very flexible, extensible, easy to configure and to integrate
- **1 million+ licenses worldwide**; Known by the largest number of modelers



Labnaf Software Features



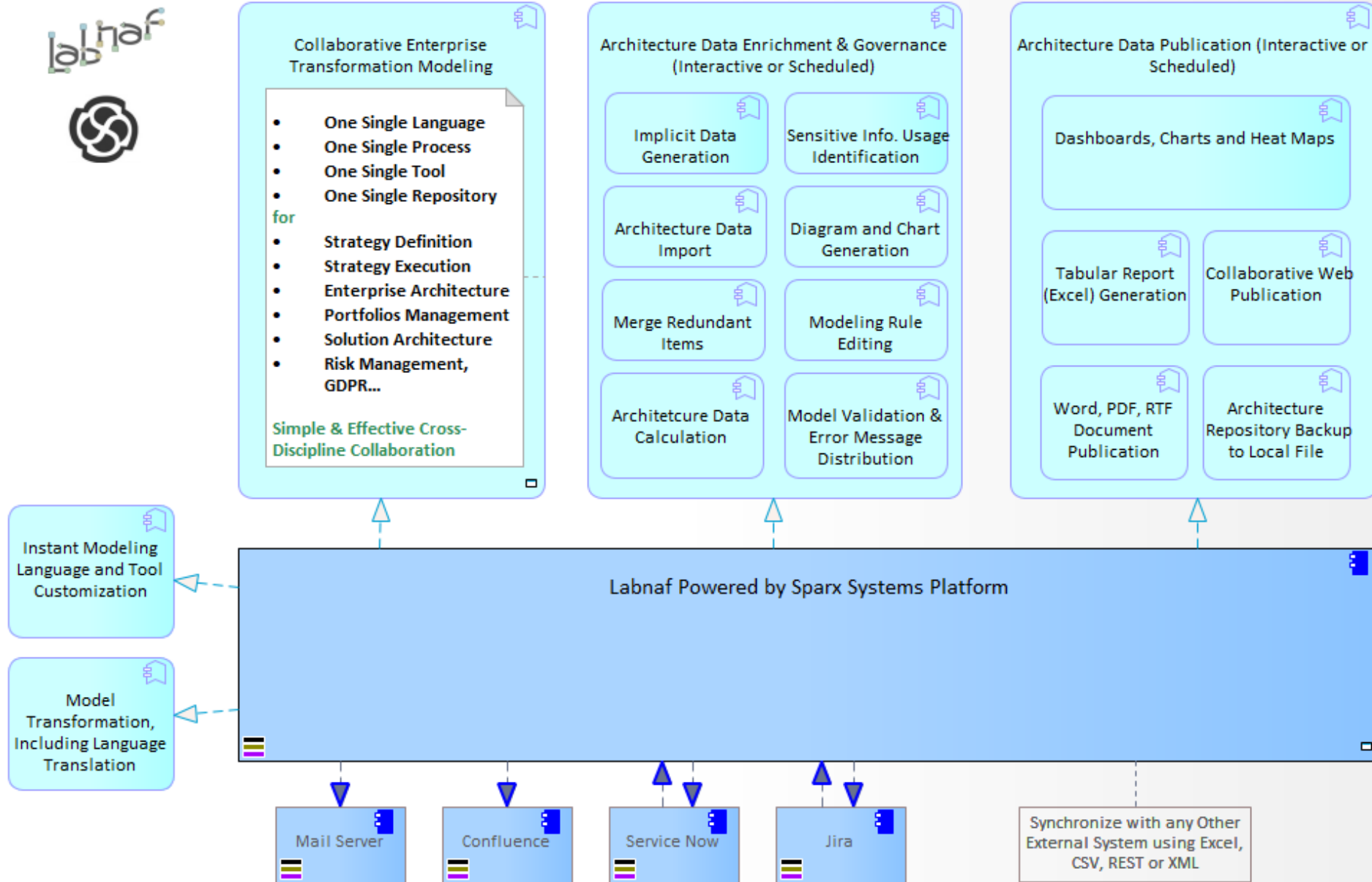
Marketing & Sales

- Marketing Management
 - Digital Marketing
 - Search Engine Management
- Multi-channel Sales
 - Sales Record
- B2B Sales
 - B2C Order Management
- B2C Sales
 - B2B Indirect
 - Athena Order Management
 - Jupiter Cash Desk
 - Venus Cash Desk
 - B2C Order M
 - B2C Self-Serv
 - B2C Self-Service Channel
- B2I Sales
 - Bulk Distribut
 - Face-to-Face
 - Ares
 - Customer Mobile Application
 - LOGIN B2B
- M&S Master Data Management
 - Pricing Management
 - Product Management

| Code | Name | Category | Status | Created By | Created Date | Last Modified | Last Modified Date |
|------|--|-----------|--------|------------|--------------|---------------|--------------------|
| 1001 | Active Directory | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1002 | Athena Cash Desk | POS | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1003 | Bulk Distrib | Logistics | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1004 | Customer Mobile Application | Mobile | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1005 | Customer Web Browser | Web | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1006 | Jupiter | POS | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1007 | Jupiter Cash Desk | POS | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1008 | Labnaf Powered by Enterprise Architect | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1009 | Labnaf ERP | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1010 | Mail Server | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1011 | Phone | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1012 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1013 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1014 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1015 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1016 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1017 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1018 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1019 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |
| 1020 | Phone Out | System | Active | Admin | 2019-01-01 | 2019-01-01 | 2019-01-01 |



Collaborative Enterprise Visualization and Transformation From Strategy Down to the Code



On Premise or Cloud SaaS

Jira, Doors,
Service Now,
Confluence



**Unified Solution
for Driving
Transformations**

Instant Platform Customizations

Enterprise Transformation Platform

Architecture, Strategy, Integrated Portfolios, Information Risk,
Incident and Unavailability Governance

Productivity Tools

*automates 90% of your modeling, validation, integration,
data enrichment, reporting and charting tasks*

**Sparx
Systems
SDK**

Prolaborate

Pro Cloud Server API

Sparx Systems' Enterprise Architect



One Single Modeling Language & Terminology

Modeling Elements & Connectors

Strategy Definition

Assessment

Customer Job

Customer Pain

Customer Gain

Cost Type

Customer Relationship Type

Strategic Theme

Strategic Objective

Goal

Fits

Value (Pain Reliever)

Value (Gain Creator)

Revenue Stream

[Glossary](#)

Information

Entity

Representation

Privacy: 1

Confidentiality: 1

Integrity: 2

Availability: 0

Non_Repudiation: 1

Information Security Requirement

Data Object

Attribute1

Attribute2

Restricts usage of

[Glossary](#)

Process

Value Stream Stage

Process

Activity

Event

Start Event

Intermediate Event

End Event

Gateway

Junction

Triggers

Access

[Glossary](#)

Enterprise Function

Functional Domain

Functional Area

Functional Block

Functional Category

Functional Service

Access Point

Functional Flow

[Glossary](#)

Strategy Execution

Demand

Principle

Standard

Epic

Program

Project

Capability

Feature

Story

Requirement

Constraint

[Glossary](#)

People

Organization Function

Organization Service

Role

Individual

Contract

Is bound by contract

[Glossary](#)

Equipment

Equipment Function

Equipment Service

Facility

Equipment

Equipment Type

Distribution Network

[Glossary](#)

Application

Application Function

Application Service

Application as a Service

Application Product

Application Platform

Application Group

Application

Application Component

Data Store

Application Flow

Component Flow

[Glossary](#)

Generic

Value

Product

Resource

Value Proposition

Product Line

[Glossary](#)

Common Connectors

Impacts

Influences

Evolves into

Functional Performer Flow

Realizes

Is assigned to

Depends on

Physical Flow

Specializes

Association

N-Ary Association

Is part of

Is a constituent of

Is owned by

Temporary Trace

All Connectors in Glossary

Technology

Technology Function

Technology as a Service

Interface Protocol

NodeType

System Software

Communication Network

Application Deployment Set

Logical Node

Node Instance

Node to Network Connection

Network Interlink

Deployment

Path between Nodes

Flow allowed by firewall

Instance is deployed on

Instance realizes

Instance is part of

[Glossary](#)

Time Dimension for Elements & Connectors

Global Plateaus

TO-BE

TRANSITION

AS-IS

Related Topics

Taxonomy of Element Types

Element & Connector Glossary

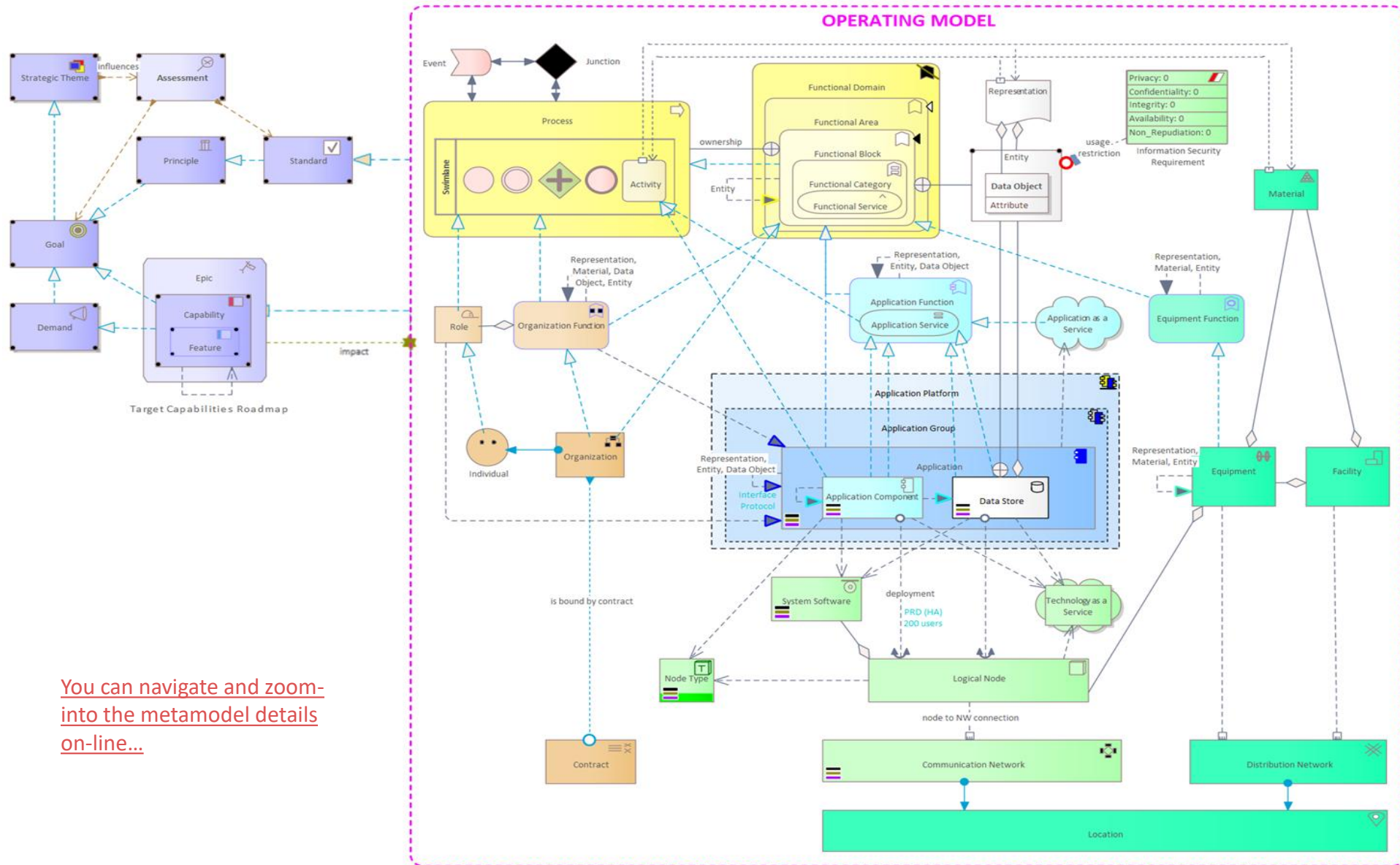
Default Language Metamodel

Catalogs

Viewpoint Classification



A subset of the language Metamodel

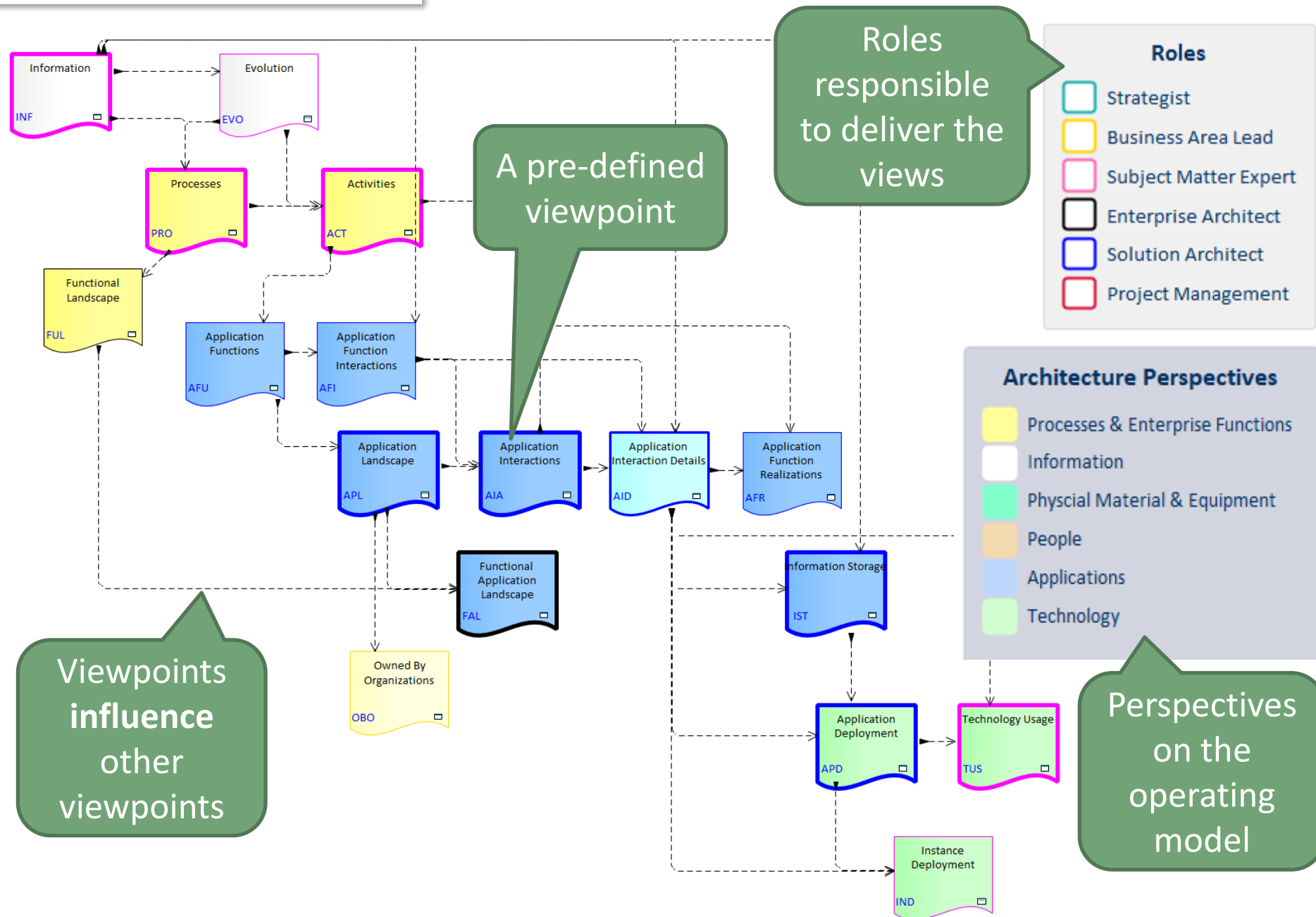


[You can navigate and zoom into the metamodel details on-line...](#)



Viewpoints Level 3/3

Focus on IT Solution Architecture Viewpoints



Each type of architecture view has its toolbox with element and connector types

Elements & Connectors

- Some are inspired by standards
- Some are proprietary

The image shows a screenshot of an architecture toolbox with two main sections: 'Activities' and 'Deployed Applications'. A yellow callout box labeled 'Examples' points to the 'Activities' section. A speech bubble points to the 'Application Deployment Connectors' section.

Activities

- Activity
- Gateway
- Intermediate Event
- End Event
- Start Event
- Swimlane
- Representation
- Entity
- Material
- Application Function
- Application
- Application Component
- Role
- Organization Function
- Organization
- Equipment Function
- Equipment

Activities Connectors

- Activity Trigger
- Realizes
- Access

Deployed Applications

- Application as a Service
- Application Deployment Set
- Application Component
- Data Store

Application Deployment Connectors

- Is deployed on
- Is part of
- Is dependent on
- Flow allowed by firewall
- Specializes

Technologies where Applications are Deployed

- Technology as a Service
- Logical Node
- System Software
- Facility
- Communication Network
- Location

Examples

We use verbs instead of nouns to indicate the meaning of the connector's direction



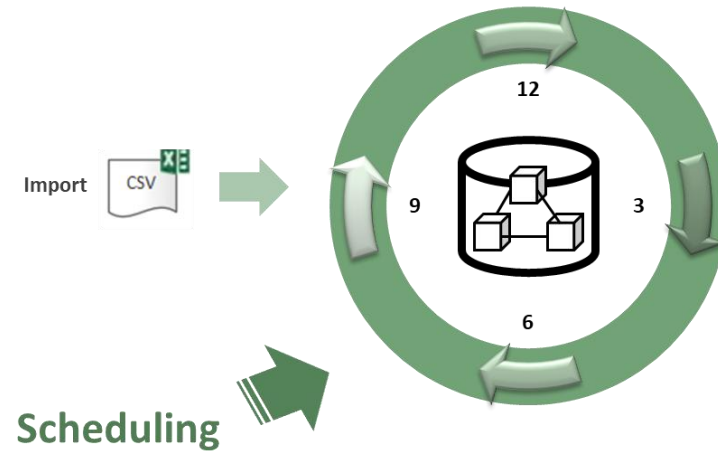
Import

New elements with properties

| | A | B | C | D | E | F | G | H | I |
|----|-----------|------------------|--|-------|------|-------|------------|-------|-----------|
| | | | Name | Notes | Code | AS-IS | TRANSITION | TO-BE | Vision |
| 1 | Type | Stereotype | | | | | | | |
| 2 | Component | LABN_Application | Active Directory | | 4 | Y | Y | Y | ? |
| 3 | Component | LABN_Application | Ares | | 5 | Y | Y | Y | ? |
| 4 | Component | LABN_Application | Athena Cash Desk | | 6 | N | Y | Y | Invest |
| 5 | Component | LABN_Application | Bellona ESB | | 8 | Y | Y | Y | ? |
| 6 | Component | LABN_Application | CMDB | | 7 | Y | Y | N | Phase Out |
| 7 | Component | LABN_Application | Customer Mobile Application | | 10 | N | N | Y | Invest |
| 8 | Component | LABN_Application | Demeter | | 11 | Y | Y | N | ? |
| 9 | Component | LABN_Application | Generic Web Browser | | 12 | ? | ? | ? | ? |
| 10 | Component | LABN_Application | Hera | | 13 | Y | Y | Y | Invest |
| 11 | Component | LABN_Application | Janus | | 15 | N | ? | ? | Invest |
| 12 | Component | LABN_Application | Jupiter Cash Desk | | 16 | Y | Y | N | Phase Out |
| 13 | Component | LABN_Application | Labnaf Powered by Enterprise Architect | | 9 | Y | Y | Y | Invest |
| 14 | Component | LABN_Application | LOGIN B2B | | 17 | Y | Y | Y | Maintain |

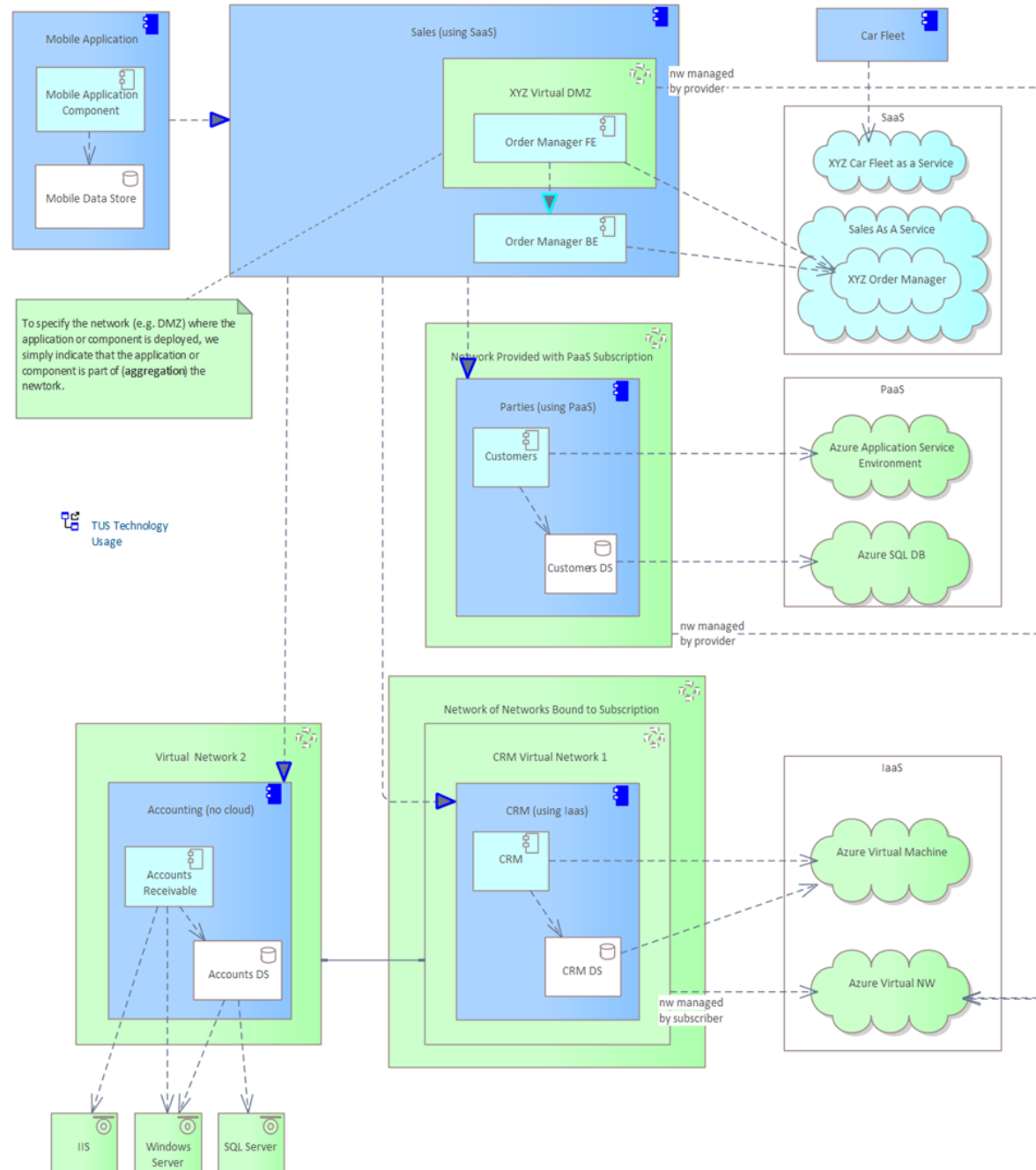
Properties of existing elements

| | | | D | E | |
|----|--|-------------|----------|-----------------|------|
| | Guid | Criticality | Nb_Users | Pct_Unavailable | TCO |
| 2 | {3F9A5A7C-60C5-4e38-B107-F7BB64C1DAC6} | M | 150 | 0 | 120 |
| 3 | {5B0A6CBE-AD19-43a2-A142-F0974464E0A9} | L | 20 | 8 | 430 |
| 4 | {78169A07-6AE7-48a9-A2A7-FB048F78F998} | H | 62 | 0 | 1250 |
| 5 | {D67EC76A-23D7-4512-82C9-E5B2ED50A8C2} | M | 62 | 0 | 69 |
| 6 | {3908BC63-B69A-4edb-B29B-81D1344168FC} | M | 5 | 2 | 258 |
| 7 | {C4C33055-6CE7-4eae-ABB3-F68EDB82A4FA} | M | 1600 | 0 | 5 |
| 8 | {2316C3F0-D4F5-4391-AFB1-6F0CBFE3ACE5} | M | 20 | 5 | 545 |
| 9 | {3906D4EE-6470-4f74-A706-DA9A6CC19E8D} | M | 130 | 0 | 62 |
| 10 | {3E048B62-B905-41ec-8464-7CDC36594294} | M | 8 | 10 | 867 |



Model

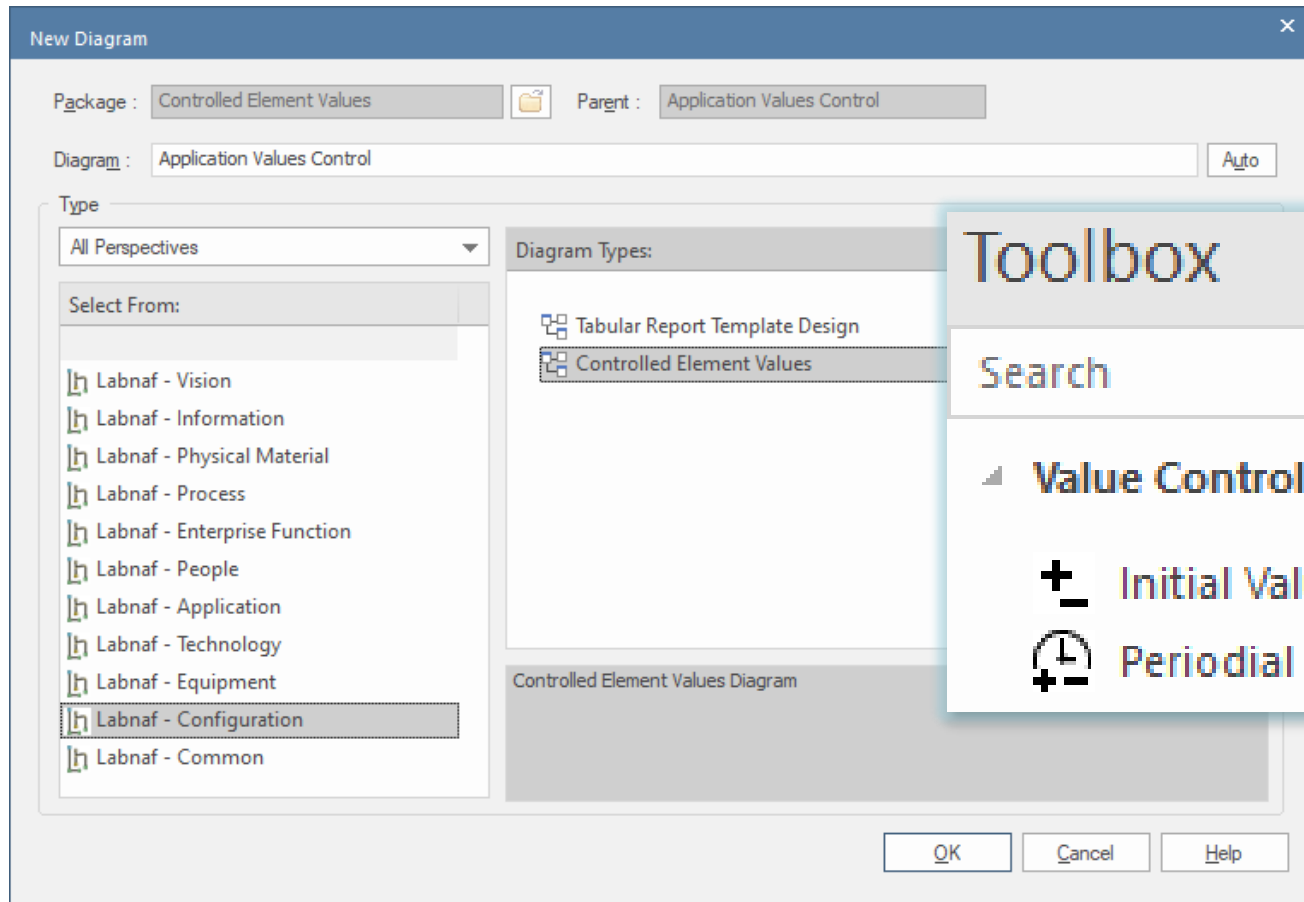
- Cloud Computing
- Ecosystems
- IoT
- GDPR
- AI
- ...



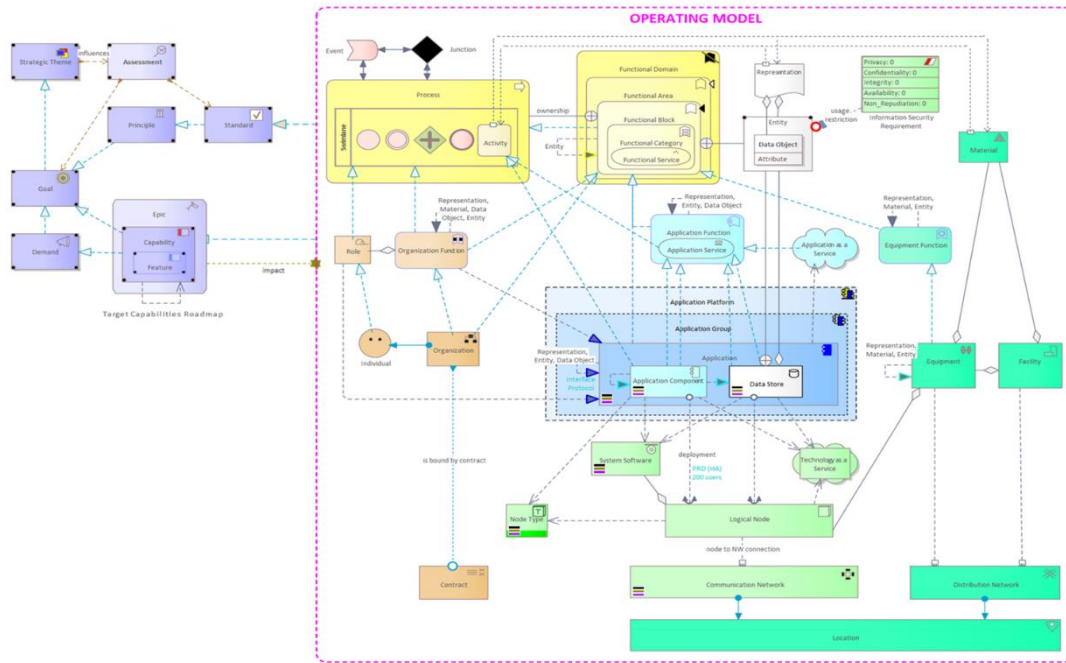
Calculate

Dynamically + Periodically

Model your value calculations



Validate



Dynamically + On Demand + Periodically

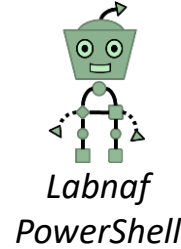
While Modeling

Prevent creation of invalid connectors

On Demand

Request clickable report on invalid connectors

Existing Invalid Connectors

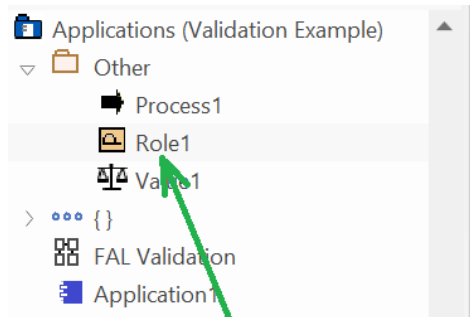


Send Error Emails to Relevant Recipients

The language metamodel is used both for documentation & automatic model validation



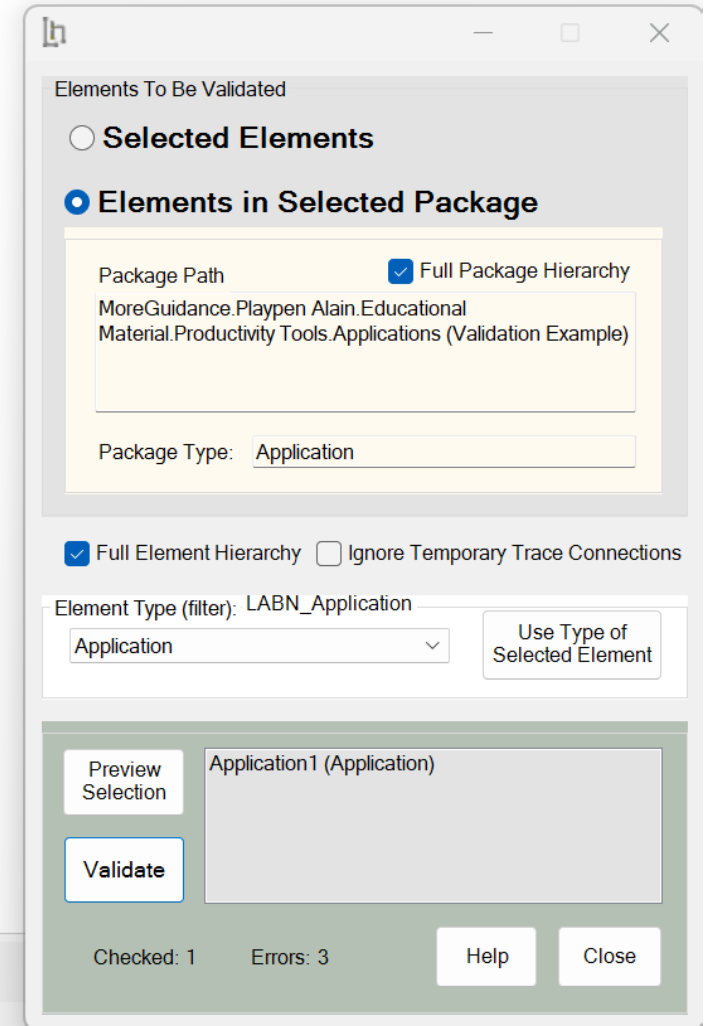
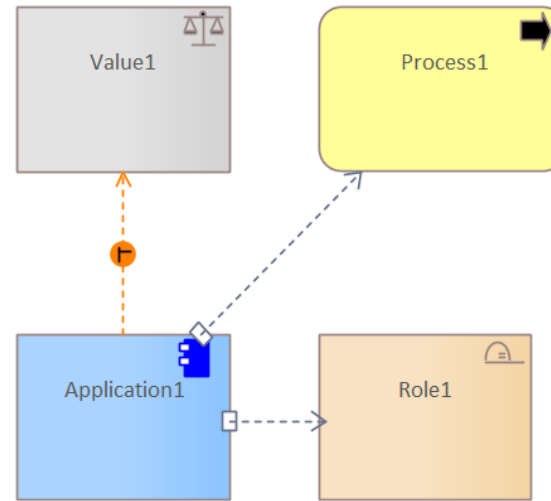
Validate On Demand



Applications (Validation Example)

- Other
 - Process1
 - Role1
 - Value1
- { }
- FAL Validation
- Application1

Invalid Connections



Elements To Be Validated

Selected Elements

Elements in Selected Package

Package Path: Full Package Hierarchy
MoreGuidance.Playpen Alain.Educational
Material.Productivity Tools.Applications (Validation Example)

Package Type:

Full Element Hierarchy Ignore Temporary Trace Connections

Element Type (filter): LABN_Application

Preview Selection: Application1 (Application)

Checked: 1 Errors: 3

Clickable Report

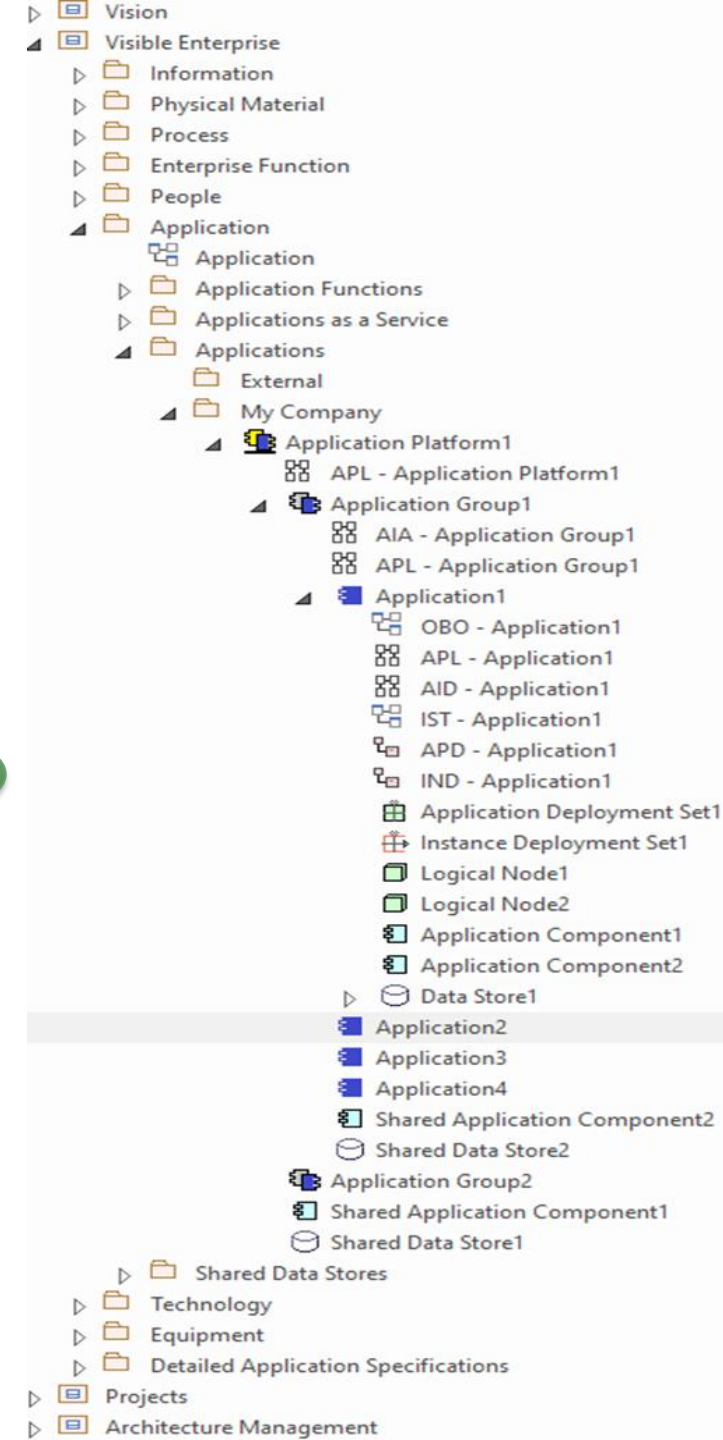
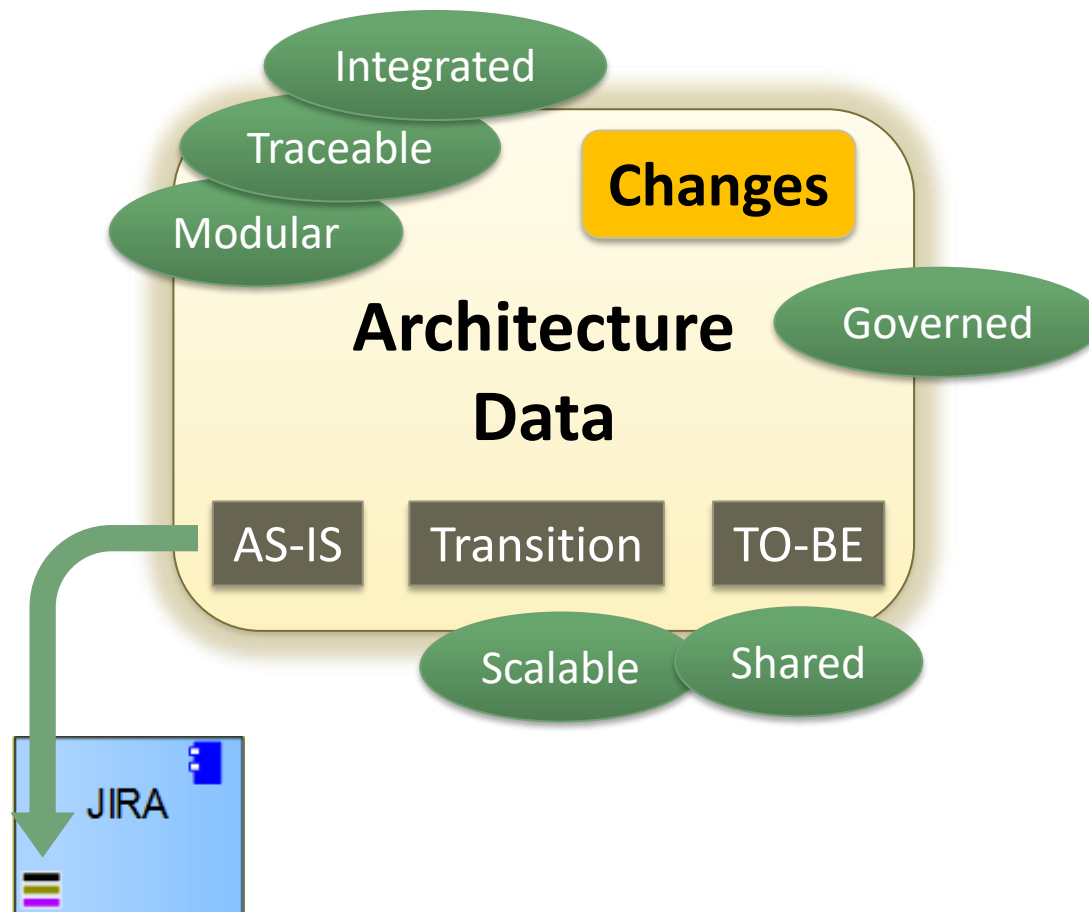
System Output

System Job History Script Invalid Connection(s)

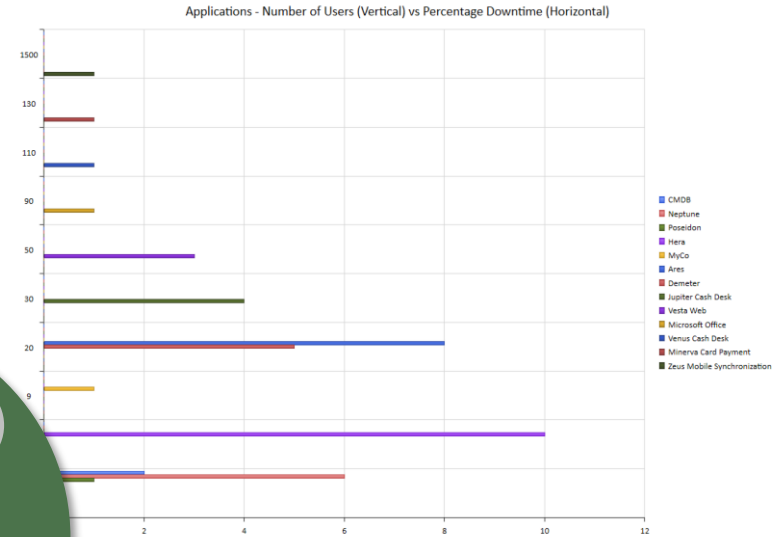
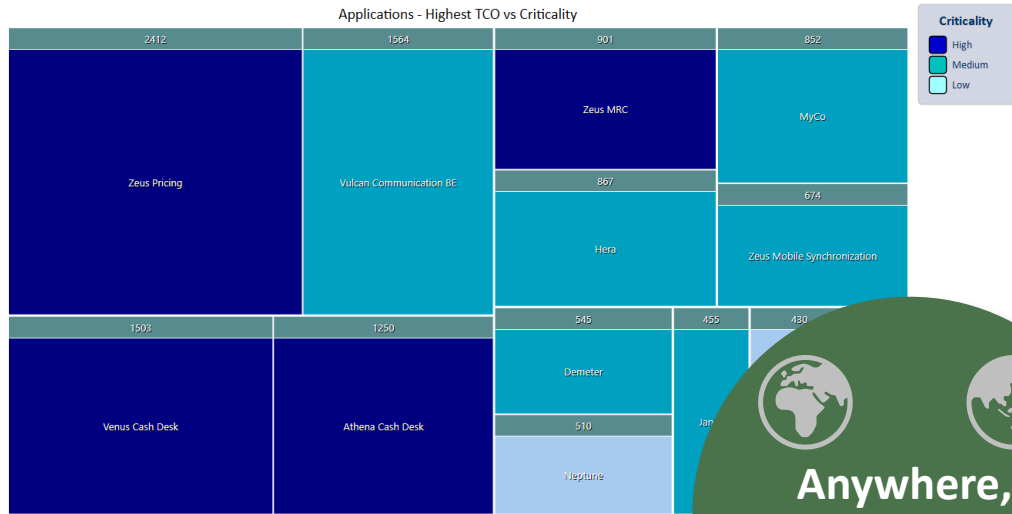
```
Application1 (LABN_Application) => ** LABN_Access **  
=> Role1 (LABN_Role)  
Application1 (LABN_Application) => ** LABN_Access **  
=> Process1 (LABN_Process)  
Application1 (LABN_Application) => ** LABN_TemporaryTrace **  
=> Value1 (LABN_Value)
```



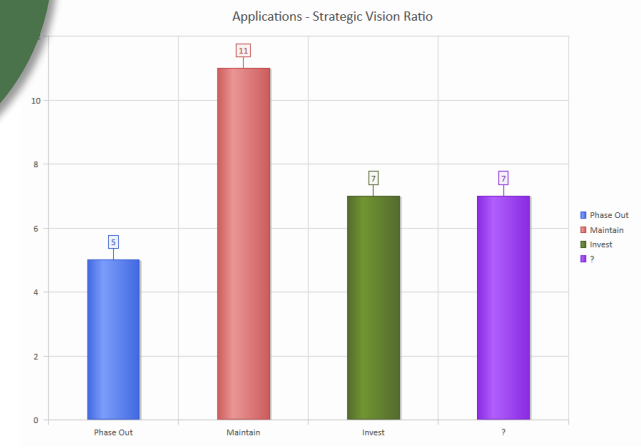
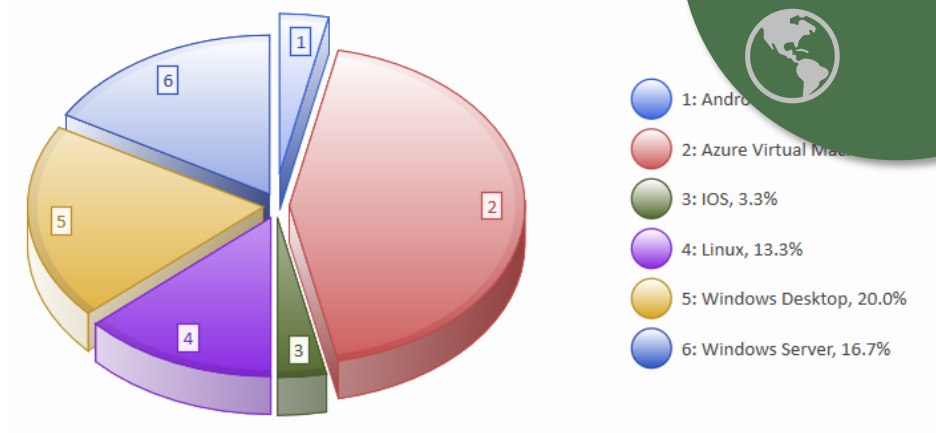
Organize & Scale following prescribed repository structure



Check Out your Real-time Dashboards and Take Decisions



Anywhere,
on any device

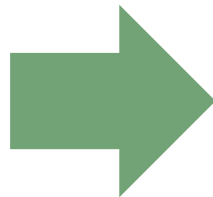


Generate diagrams

Scheduled or On demand

Real navigable model elements
(automatically resized following context)

The screenshot displays a software interface for generating diagrams. On the left, a 'Sales' domain is shown with a hierarchical structure: B2B Sales (containing B2B Indirect Sales), B2C Sales (containing B2C Order Management, B2C Pricing Management, and B2C Self-Service Channel), B2I Sales (containing Bulk Distribution and Face-to-Face Distribution), and Sales Channel. Each item is represented by a colored bar with a yellow arrow icon. To the right, a 'List of applications supporting the domain' is displayed, listing applications such as Ares, Athena Cash Desk, Customer Mobile Application, Demeter, Hera, Janus, Jupiter Cash Desk, LOGIN B2B, Neptune, Venus Cash Desk, and Zeus Common Pricing. Further right, a 'Legend for Business Functions' is shown, detailing differentiators like 'Differentiator = ?' and 'Externalized = Y', and their corresponding symbols. Below the legend, a 'Nb of Applications / Business function' legend uses colored squares to represent counts: 0 (pink), 1 (grey), and 2 or more (yellow). At the bottom right, there is a link to 'List of other Functional Domain diagram(s) as hyperlink(s)' and a button labeled 'FUI_Sales'.



- Time Savings
- Cost savings
- Diagram completeness
- Consistent diagram layout



Generate Word, RTF and PDF documents

Scheduled or On demand

Templates are provided

Enterprise Architecture

Architecture Principles

Author: Alain De Preter
Date/Time Generated: 2017-03-02
Version: 1.0

Table of Contents

| | |
|-----------------|---|
| 1.1 Business | 4 |
| 1.2 Information | 5 |
| 1.3 Application | 6 |
| 1.4 Technology | 7 |
| 1.5 Security | 8 |



Generate Tabular Reports (Excel/CSV)

Scheduled or On demand

Reported collection of elements (e.g. applications) and relationships selected following any kind of rule

Element properties and/or tagged values with optional renaming and colored groupings

Specific connections in specific direction to specific types of elements.
Automatic connection **consolidation** into parent element relationships.

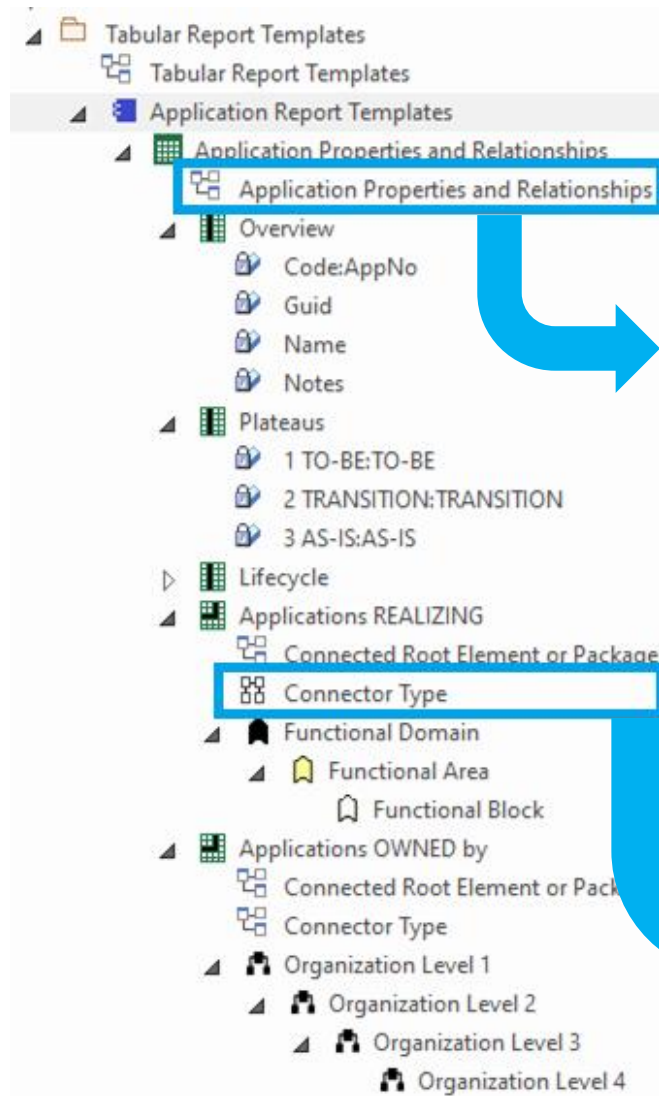
| Overview | Guid | AppNo | Name | Notes | Plateaus | AS-JS | TRANSITION | TO-BE | Lifecycle | Vision | Applications REALIZING Functional Dom. | Applications REALIZING Functional Area | Applications REALIZING Functional Bloc | Applications OWNED by Organization Le | Applications OWNED by Organization Le | IT For IT | IT Marketing & Sales Apps |
|----------|--|-------|------|-------|----------|-------|------------|-----------|-----------|--------|--|--|--|---------------------------------------|---------------------------------------|-----------|---------------------------|
| {3F:4 | Active Directory | | | | Y | Y | Y | ? | | | | | | | | | |
| {5B:5 | Ares | | | | Y | Y | Y | ? | | | | | | | | | |
| {78:6 | Athena Cash Desk | | | | N | Y | Y | Invest | | | X | | | | | | X |
| {D6:8 | Bellona ESB | | | | Y | Y | Y | ? | | | | | | | | | |
| {39:7 | CMDB | | | | Y | Y | N | Phase Out | | | | | | | | | X |
| {C4:10 | Customer Mobile Application | | | | N | N | Y | Invest | | | | | | | | | X |
| {23:11 | Demeter | | | | Y | Y | N | ? | | | | | | | | | |
| {39:12 | Generic Web Browser | | | | ? | ? | ? | ? | | | | | | | | | |
| {3E:13 | Hera | | | | Y | Y | Y | Invest | | | | | | | | | |
| {1C:15 | Janus | | | | N | ? | ? | Invest | | | | | | | | | |
| {F9:16 | Jupiter Cash Desk | | | | Y | Y | N | Phase Out | | | | | | | | | |
| {69:9 | Labnaf Powered by Enterprise Architect | | | | Y | Y | Y | Invest | | | | | | | X | X | X |
| {6D:17 | LOGIN B2B | | | | Y | Y | Y | Maintain | | | | | | | | | |
| {3D:14 | Mail Server | | | | Y | Y | Y | Maintain | | | | | | | | | |
| {F7:18 | Mars | | | | Y | Y | ? | Maintain | | | | | | | | | X |
| {F8:19 | Mars WebApp | | | | Y | Y | ? | Maintain | | | | | | | | | |

Filtering is automatically ON



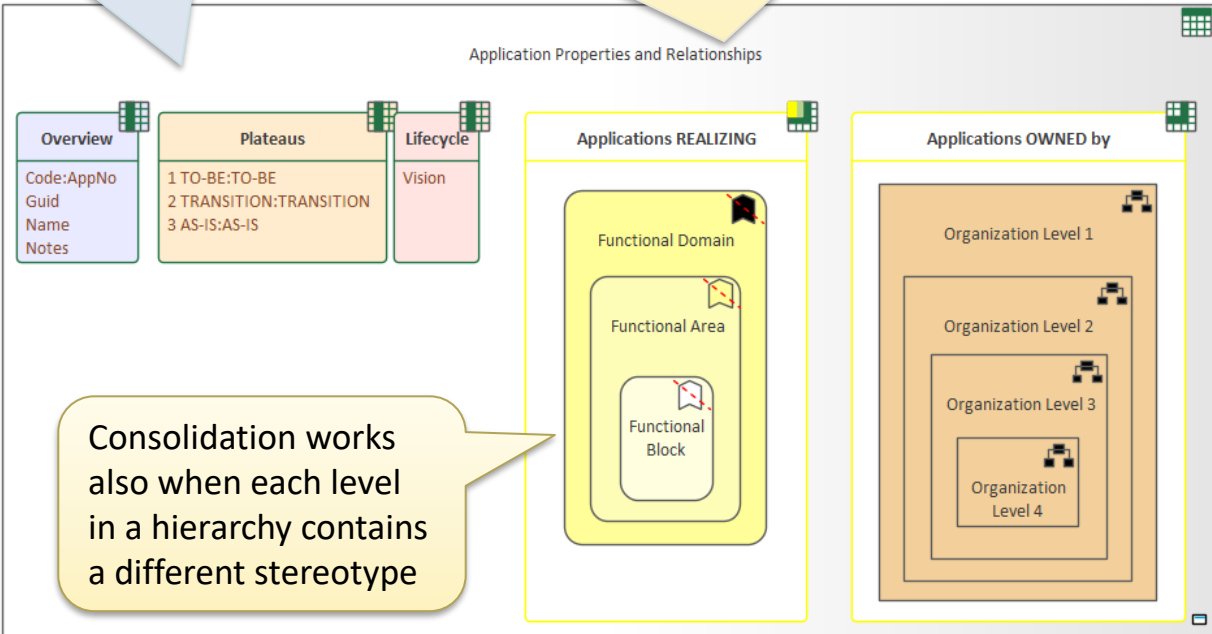
Generate Tabular Report (cont.)

Model your tabular report

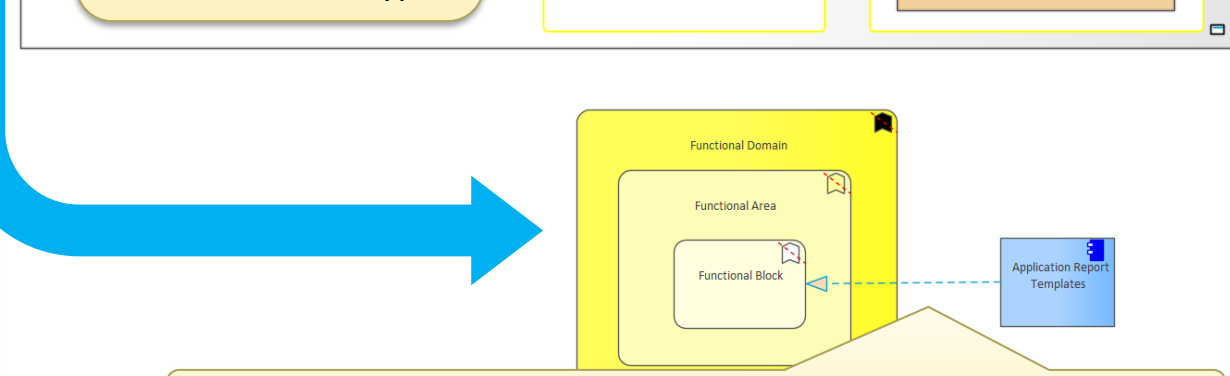


Model element properties and/or tagged values with optional renaming and colored groupings

Model specific connections in specific direction to specific types of elements. Model automatic connection **consolidation** into parent element relationships



Consolidation works also when each level in a hierarchy contains a different stereotype

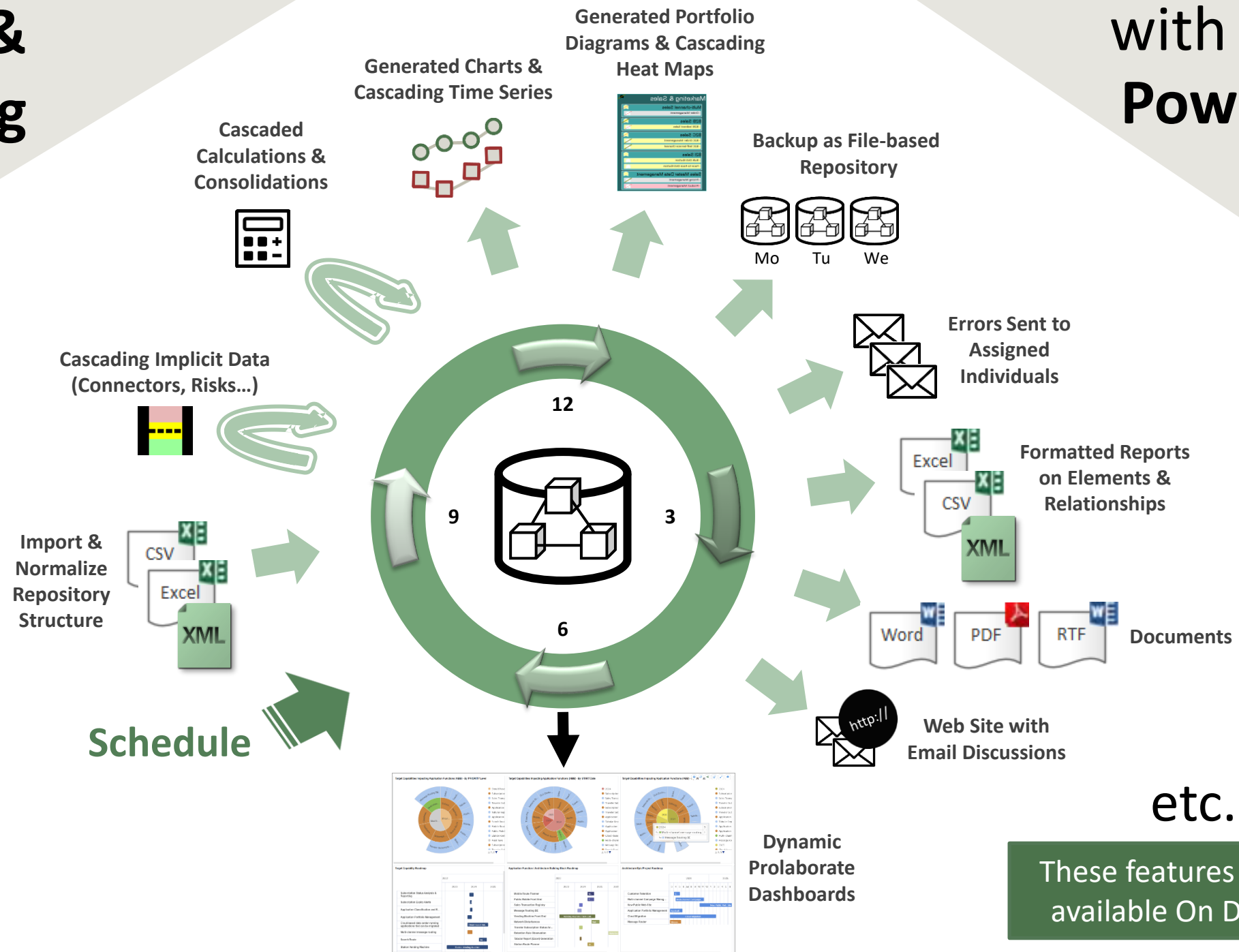


Model leaf element **connector** to be reported and consolidated



Scripting & Scheduling

with Labnaf PowerShell



etc.
These features are also available On Demand



Labnaf PowerShell

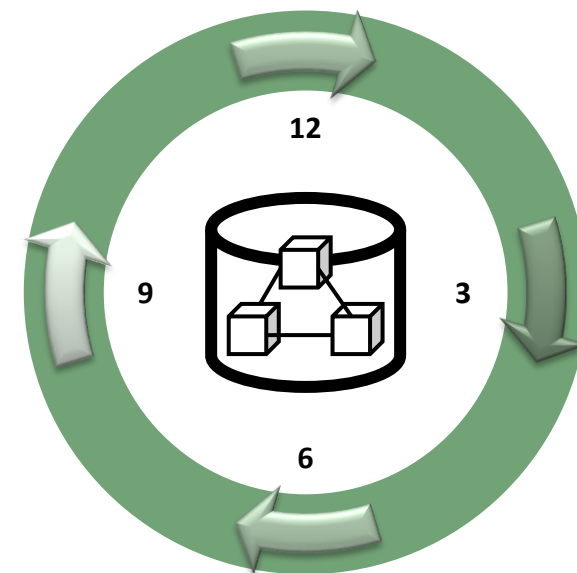
- Configure & Test in the UI
- Script →
- Schedule



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

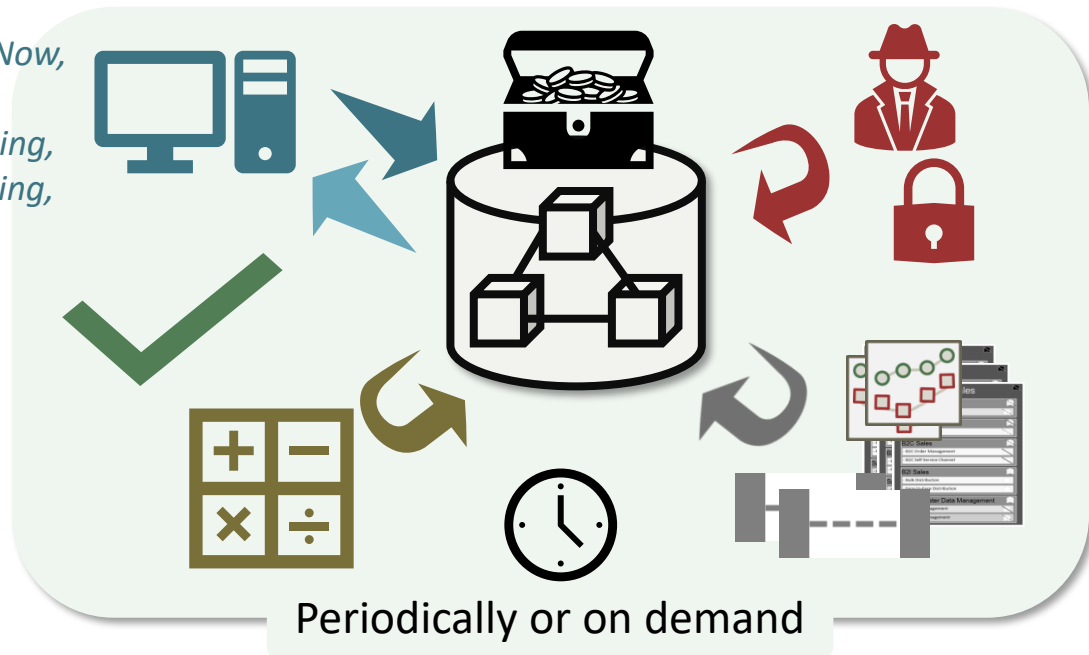


Data Enrichment & Distribution

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...

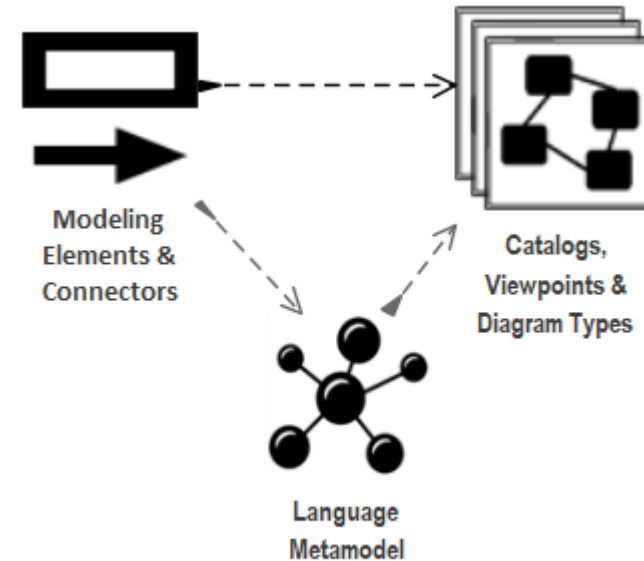


and Presented in Dashboards & Reports

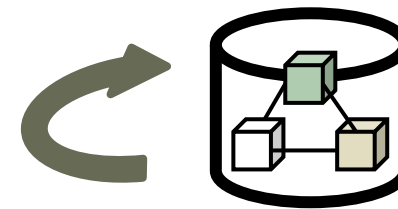


Labnaf Framework Customization

1. Customize the language following your organization requirements



2. Adapt existing repository content



| Labnaf Customization Tools => | Labnaf AddIn: Instant Metamodel Manager | Labnaf AddIn: Instant Metadata Manager | Customization Workbench |
|--|--|---|----------------------------|
| Categories of Customization | | | |
| Metamodel | <i>Customizable metamodel expressed using the Labnaf Language and stored in the production database.</i> | | |
| Select active metamodel (standard, customized standard, or user-defined metamodel) | Y | | |
| Add/Delete connectors to a metamodel | Y | | |
| Upgrade standard metamodel to a new version of Labnaf, while keeping your own customizations | Y | | |
| Generate documentation/diagram about your metamodel customization | Y | | |
| | | | |
| Element Properties | | | |
| Create custom property types | | Y | Y |
| Upgrade properties to a new version of Labnaf and keep/restore your own customizations | | Y | |
| Rename/Delete property types | | Y | Y |
| Synchronize property sets in existing elements | | All props | MDG props |
| Add custom properties to the Tags Tab | | Y | N |
| Add Labnaf Properties to the Element Tab | | N | MDG-defined |
| Create named property groups | | N | MDG-defined |
| | | | |
| Connector Properties | | | |
| Create custom connector properties | | N | MDG-defined |
| | | | |
| Elements and Connectors | | | |
| Add/Delete element and connector types | | N | MDG-defined |
| | | | |
| Toolboxes and Diagram Types/Viewpoints | | | |
| Add/Update/Delete Toolboxes | | N | MDG-defined |
| Add/Update/Delete Diagram Types/Viewpoints | | N | MDG-defined |
| Change Shapes | | N | MDG-defined |
| Change Icons | | N | MDG-defined |



Labnaf provides two options for language customization

1. Instant Metamodel Manager and the Instant Metadata Manager

The **Instant Metamodel Manager** and the **Instant Metadata Manager** are provided by the Labnaf AddIn i.e. directly in the modeling environment.

Using these tools, you can

- use the standard built-in metamodel, customize it, or create your own user-defined metamodel from scratch,
- visualize, create, rename, delete and synchronize element properties,
- automatically merge new versions of Labnaf with your own metamodel and metadata (properties) customizations.

2. Customize the Labnaf MDG Using the Customization Workbench

This is used for advanced customizations.

The **Customization Workbench** is used for customizing the Labnaf MDG including, properties/tagged values, element types, connector types, toolboxes, diagram types, and metamodel (still using the Labnaf end user language itself).

To activate this customization mode, start the Customization Workbench, and select the "Load MDG from Files" option. This overrides the above features on (1).

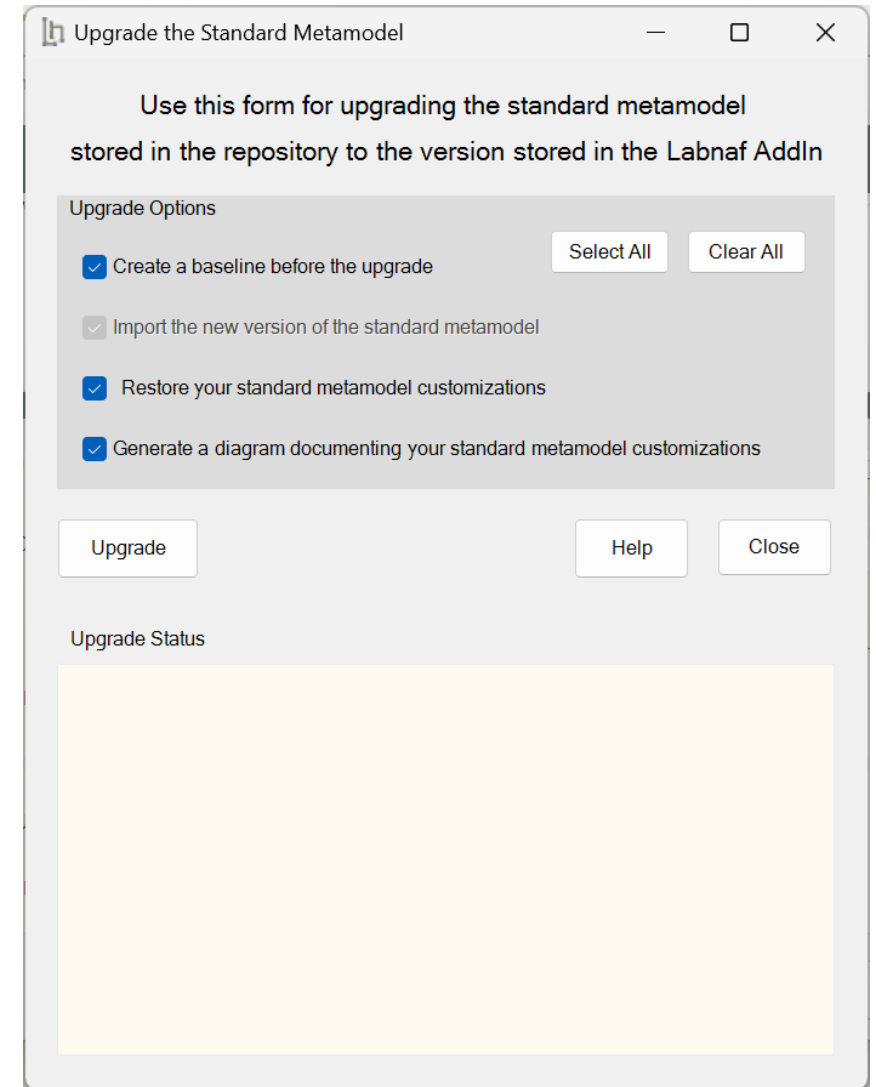
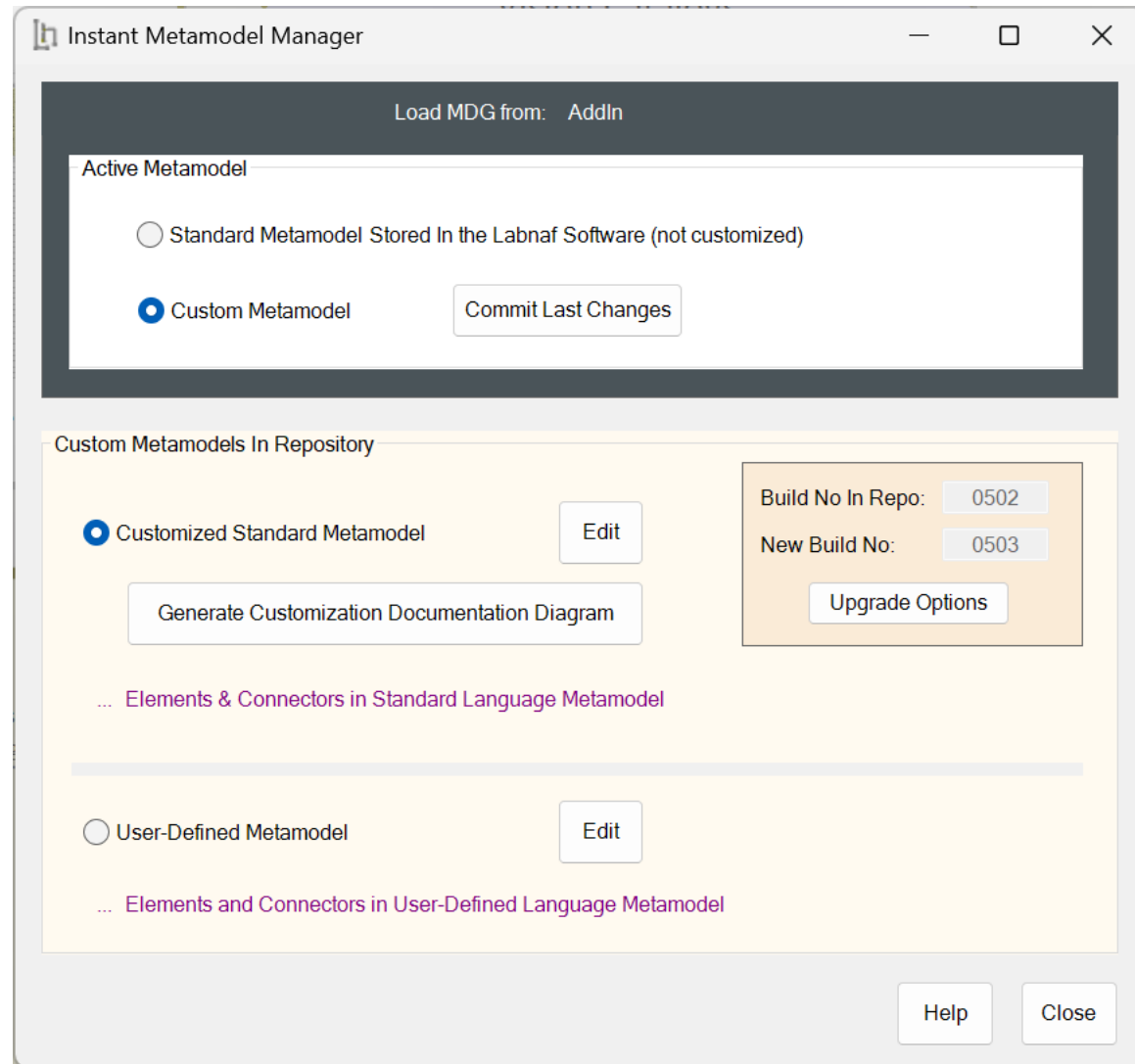
In this case Labnaf still automatically merges the new Labnaf metamodel version with your own customizations, since Labnaf metamodels are entirely controlled by Labnaf .

But for the other parts of the language specifications, which are defined in the MDG, you need to rely on Sparx tools.



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'.
 - Access Point:** 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.



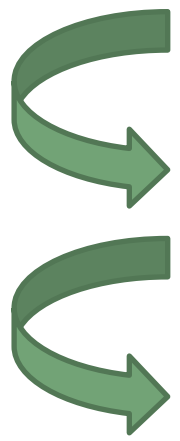
Advanced customizations of the modeling language (MDG) using the Labnaf Customization Workbench

The screenshot displays the Labnaf Customization Workbench interface. At the top, there are buttons for 'Save', 'Reload', and 'About', along with a 'Load MDG from:' section containing radio buttons for 'Files' and 'AddIn'. The main area is divided into several sections:

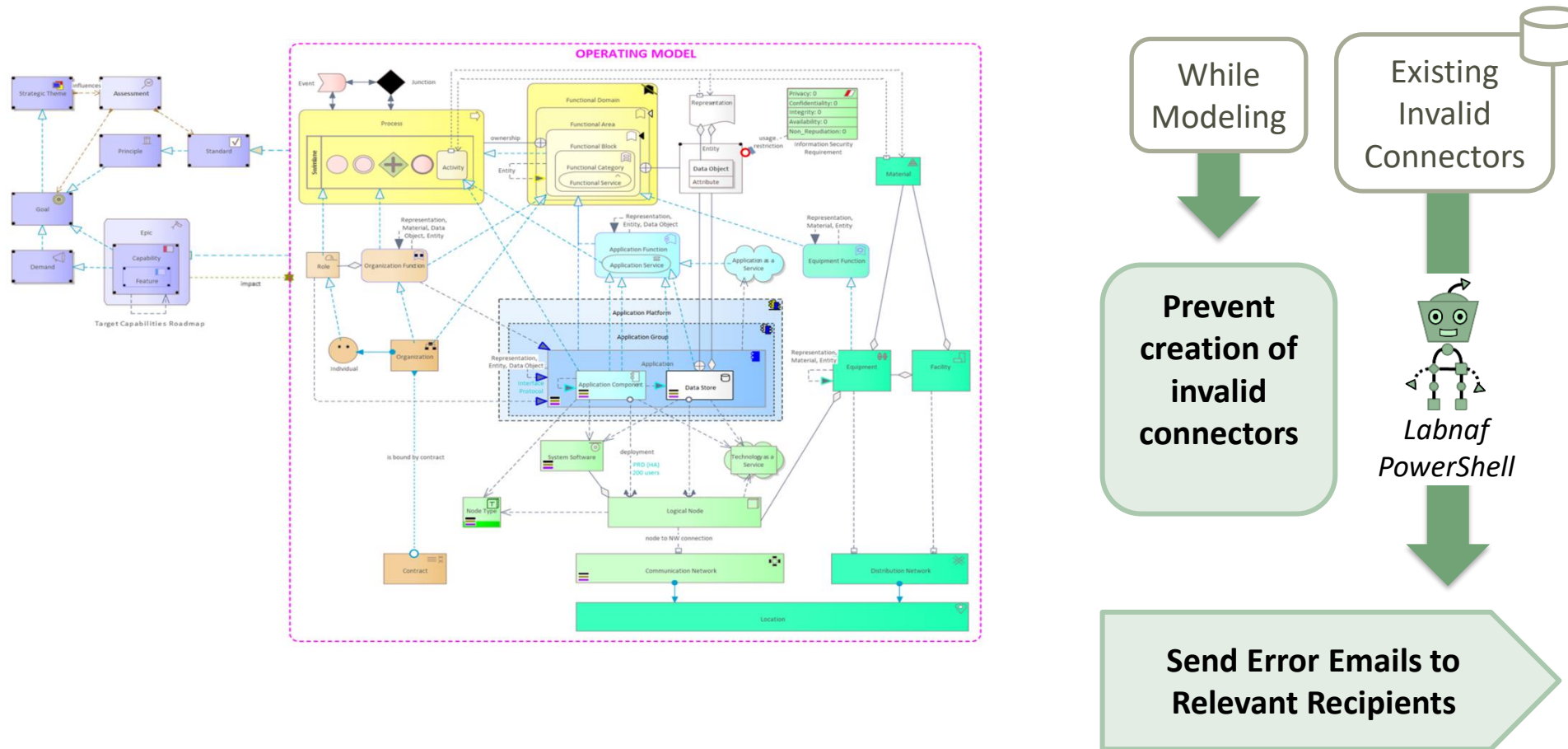
- Software Development Lifecycle Environment:** This section contains three rows for folder configuration:
 - Development folder: C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev (with a 'Select Folder' button)
 - Testing configuration folder: C:\ALT\SparxDev\Distributed\Labnaf\Environments\2_Test (with a 'Select Folder' button and an 'Activate' button)
 - Production configuration folder: H:\Tools\LabnafConfig (with a 'Select Folder' button and an 'Activate' button)
- Active Runtime Configuration on this PC:** A yellow highlighted section showing the current configuration as 'PROD'. It includes a table of active configurations:

| Load MDG file from folder: | MDG file expected in this folder: | Time Last Changed |
|--|--|---------------------|
| H:\Tools\LabnafConfig | H:\Tools\LabnafConfig\Labnaf_Custom_MDG.xml | 2019-03-05 11:59:12 |
| Connectors Definition used (always from PROD): | H:\Tools\LabnafConfig\Labnaf_Custom_QuickLinks.xml | 2019-03-04 17:36:25 |
- Software Development Lifecycle:** A table listing various actions and their last change times:

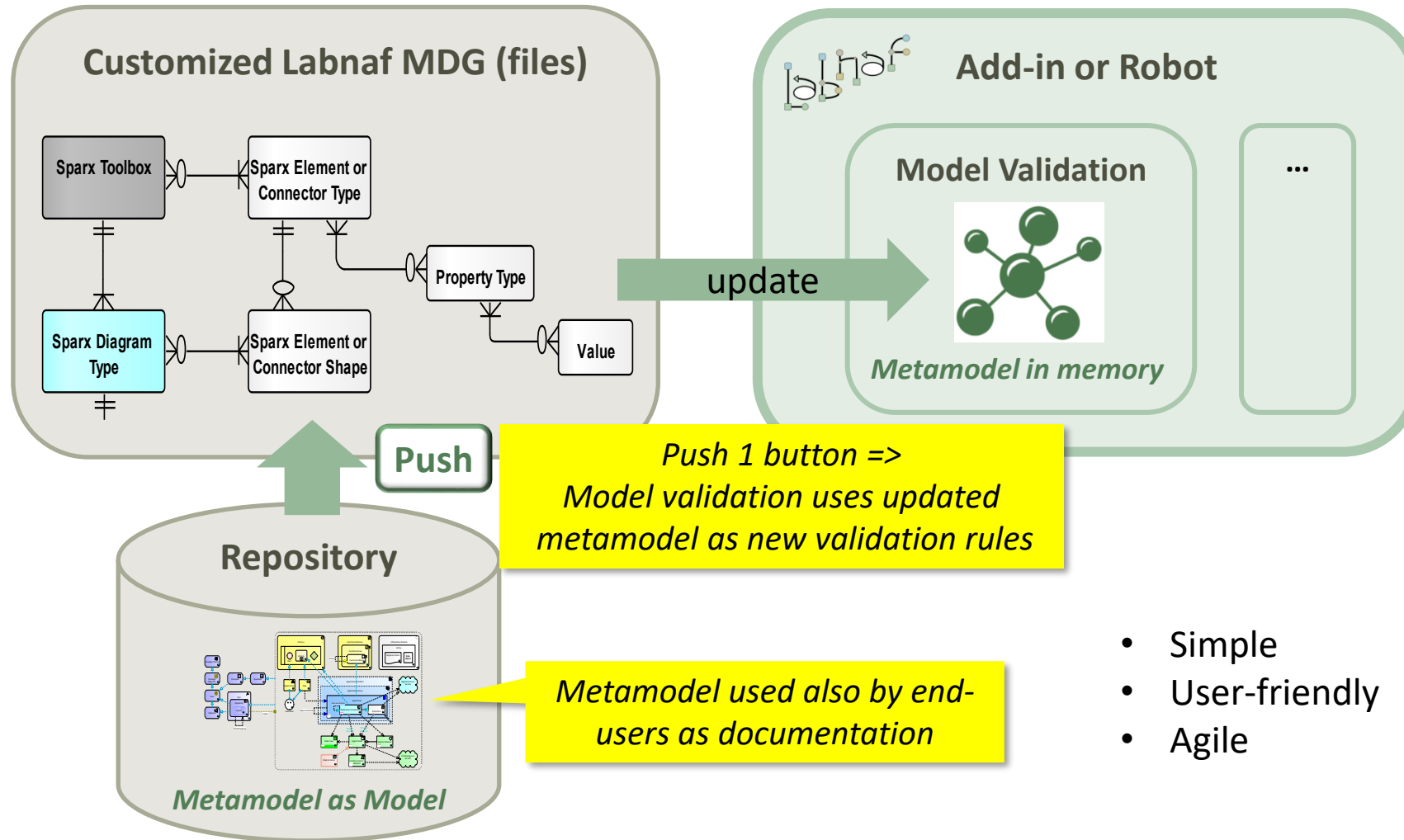
| Action | Time Last Changed |
|--|---|
| MDG Development | |
| Edit MDG Source Model (EAP) | C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev\Labnaf_Custom 2019-03-05 12:50:36 |
| Edit MDG Deployment File (MTS) | C:\ALT\SparxDev\Distributed\Labnaf\Environments\1_Dev\Labnaf_Custorr 2019-03-05 11:24:02 |
| 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 |



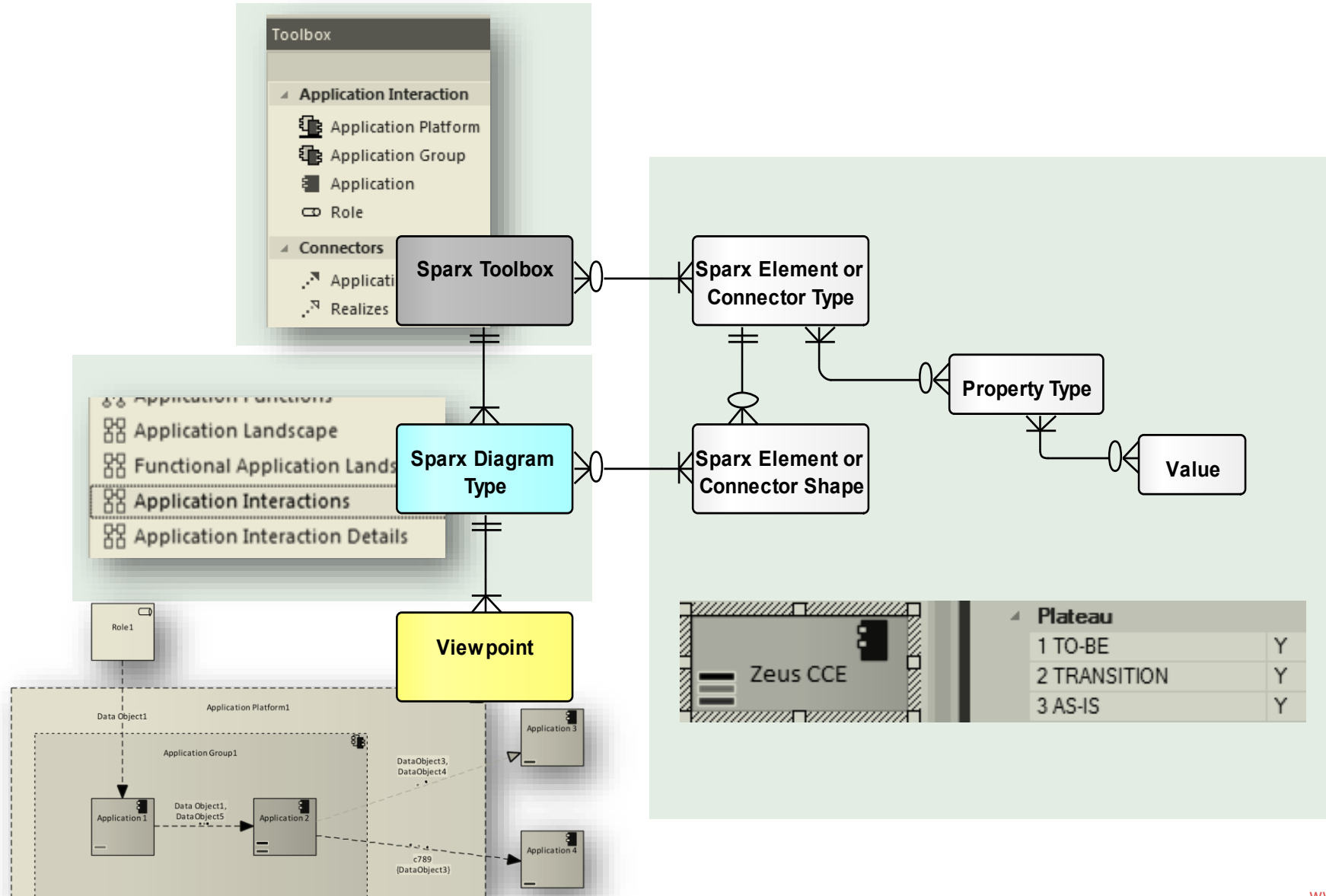
The Language Metamodel is used both for documentation & automatic model validation

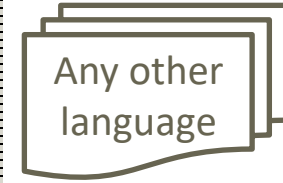


The default metamodel (stored in the Labnaf Addin and used for validation) can be very easily updated



Other items that can be designed and configured by using the Customization Workbench



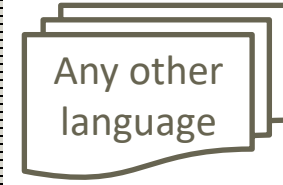


Transform any language to Labnaf...



We all speak the same language

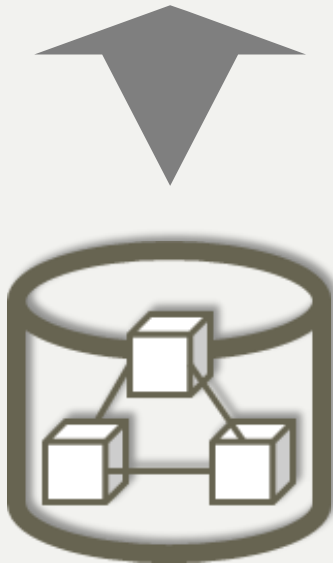




... or transform Labnaf language to other language



One Single Strategy & Architecture Modeling Language

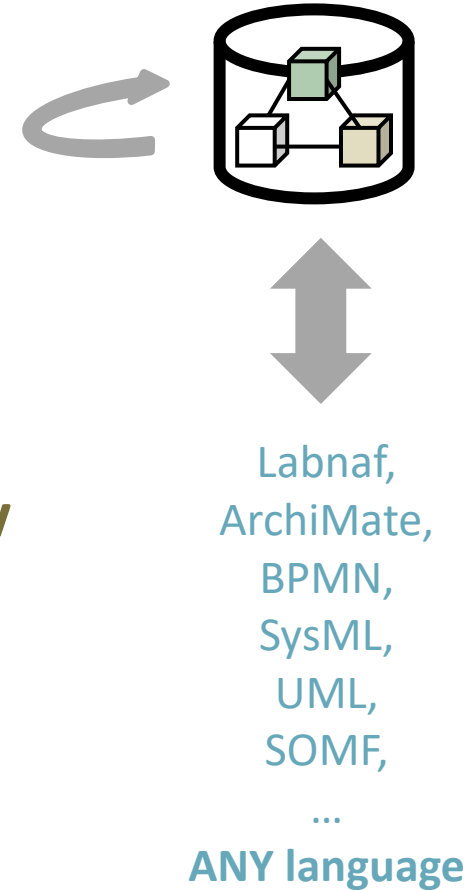


You are never locked in Labnaf !



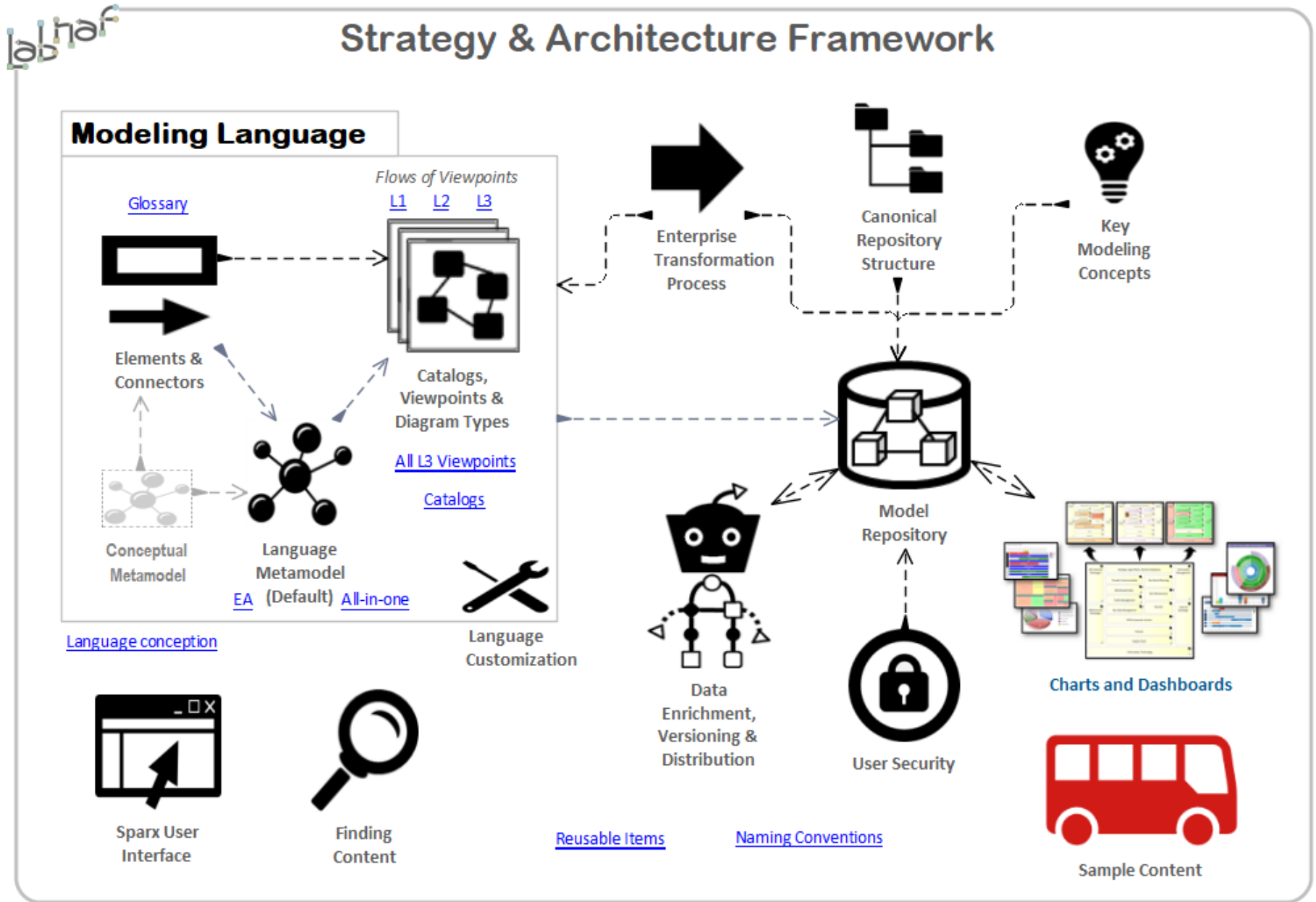
The Language Transformer adapts ANY language in any existing repository content

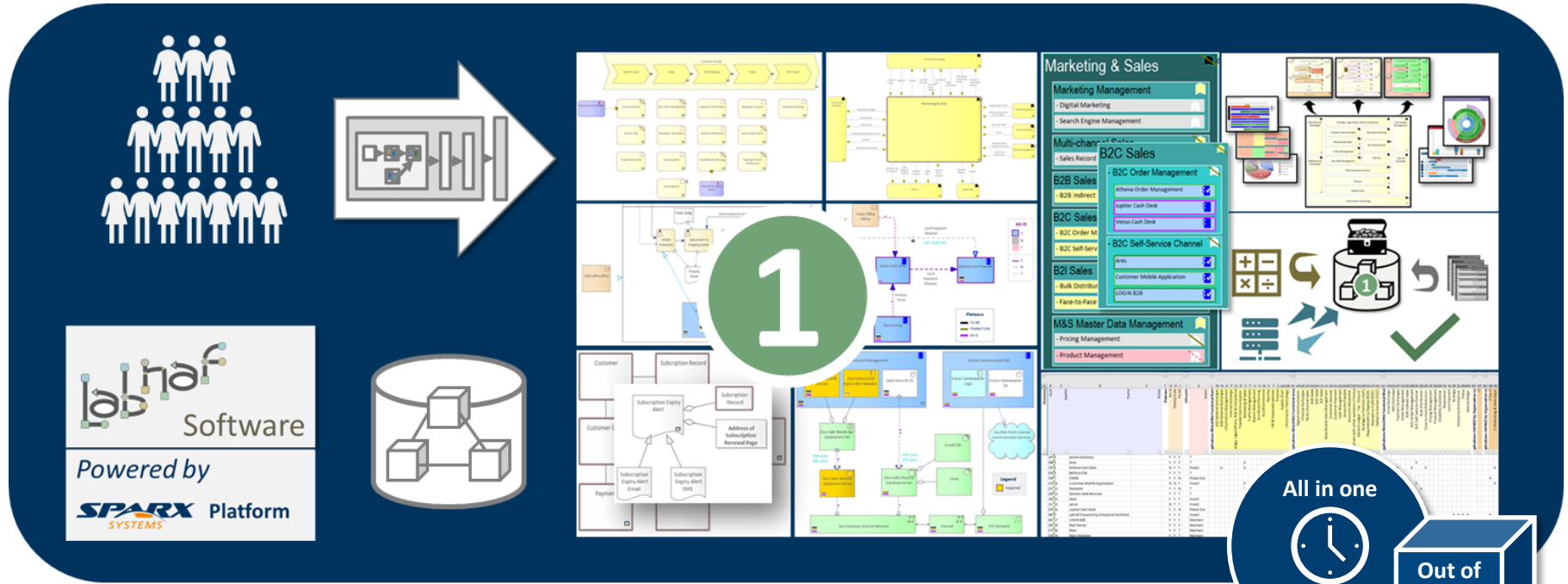
- **Change Element Type**
- **Change Connector Type**
- **Change Diagram Type**
- **Change Diagram Types defined in Csv**
- **Tagged Value Rename**
- **Tagged Value Delete**



Guidance Web Site

www.labnaf.one/guidance



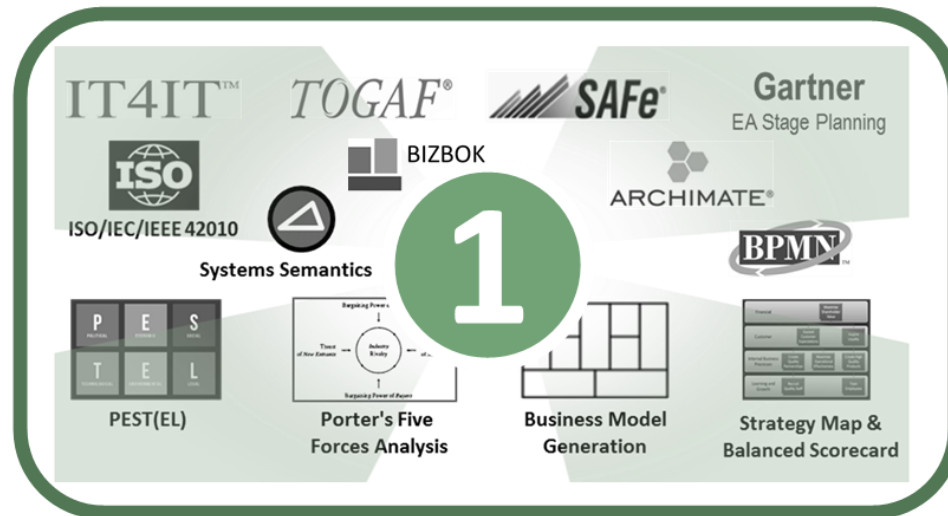


All in one and

Unified Framework for

Driving transformations

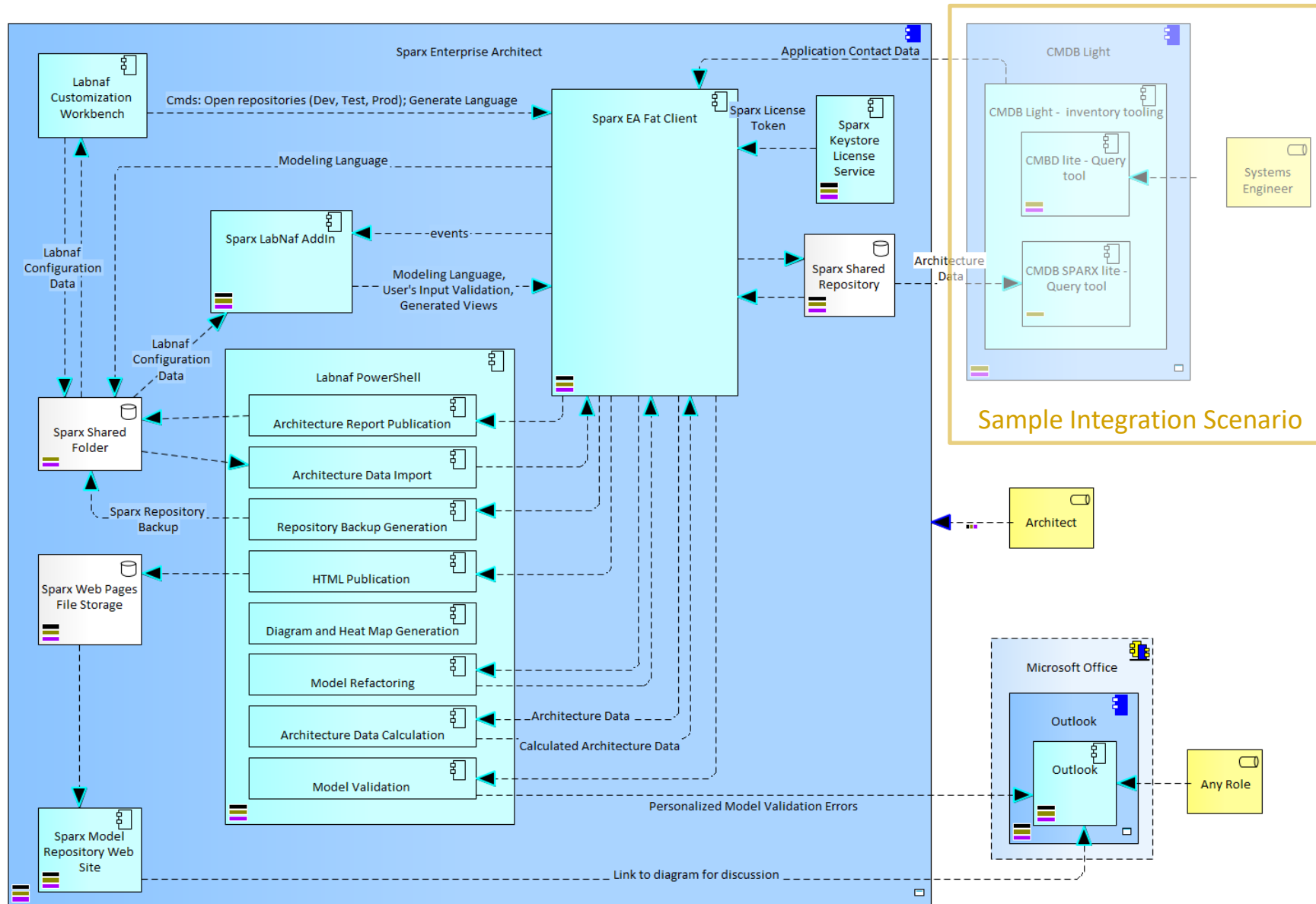
Actionable out of the box



BACKUP SLIDES



Sparx in the Application Portfolio



Sparx EA - What's in the box

Many model repository options

- **Local** Microsoft **Access** database
- **Shared** database: **SQL Server**, MySQL, Oracle...
- Possible **version control**: Subversion, CVS, TFS...

Many languages & Toolboxes

- (Too) Many languages
- No integration of standards
- Scope / domain-specific
- Switch between many complex toolboxes

Sparx SDK

- Tailoring the tool for an organization
 - Language
 - IDE
 - document generation
 - web publication
 - ...

What users don't want

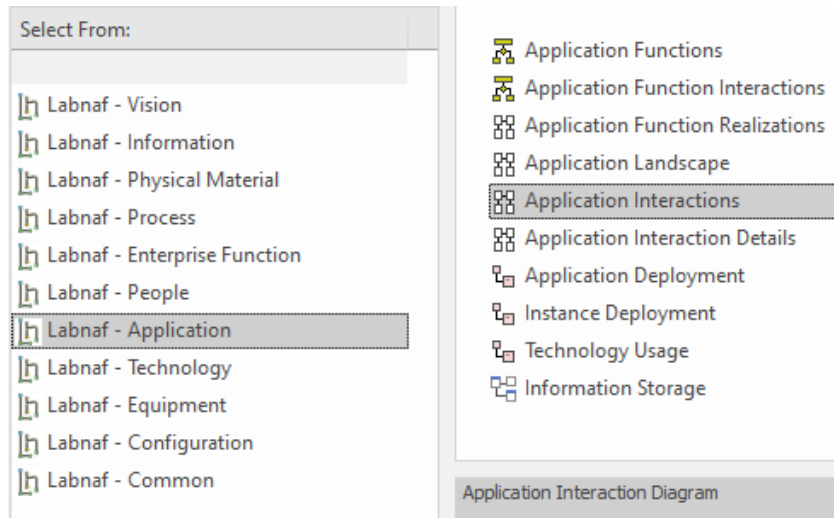
| | | |
|-------------------|-----------------------------|-------------------------------|
| Use Case | XML Schema | GoF Patterns |
| Class | Documentation | ICONIX |
| Object | Test Domain | LieberLieber AUTOSAR Engineer |
| Composite | Dashboard | MindMapping |
| Communication | XMLTransform | NIEM |
| Interaction | ArcGIS | ODM |
| Timing | ArchiMate | Project Management |
| State | ArchiMate2 | RiskTaxonomy |
| Activity | BPMN 1.1 | SOMF 2.1 |
| Component | BPMN 2.0 | SPEM |
| Deployment | BPMN 1.0 | User Interface - Simple |
| Profile | UML Standard Profile | SoaML |
| Metamodel | Business Rule Model | Strategic Modeling |
| Analysis | CodeEngineering | UMM 2.0 Profile |
| Business Modeling | Data Flow Diagrams | UPCC 2.0 |
| Custom | Data Modeling | UPCC 3.0 |
| Requirements | Entity Relationship Diagram | UBL Model Management |
| Maintenance | Eriksson-Penker Extensions | WebModeling |
| User Interface | GML | Whiteboard |
| WSDL | GRA-UML | User Interface - Win32 |
| | | Wireframing |



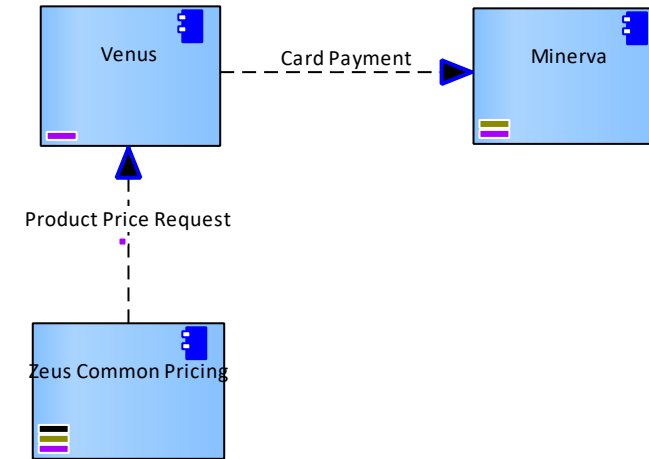
Diagram Types

What we want

When you select New diagram / ... the following list of Labnaf perspectives and diagram types appears



A Labnaf diagram type addresses a specific strategy or architecture viewpoint



Toolboxes

What we want

Each diagram type has its own toolbox.

Each diagram-specific toolbox only contains the elements and connectors that are relevant to this diagram type.

Toolbox for the diagram type “Application Interactions”

- Application Interaction
 - Application
 - Role
 - Organization Function
 - Organization
- Application Interaction Connectors
 - Application Flow
 - Depends on

All elements and connectors used

(These are not actual toolboxes)

- Vision
 - Strategic Theme
 - Strategic Objective
 - Goal
 - Standard
 - Principle
 - Demand
 - Epic
 - Capability
 - Feature
 - Story
- Information
 - Information Domain
 - Entity
 - Representation
 - Data Object
- Process
 - Process
 - Start Event
 - Intermediate Event
 - Gateway
 - Activity
 - End Event
 - Swimlane
- Enterprise Function
 - Functional Domain
 - Functional Area
 - Functional Block
 - Functional Category
 - Functional Service
 - Access Point
- Physical
 - Equipment Function
 - Equipment Service
 - Equipment
 - Equipment Type
 - Facility
 - Distribution Network
 - Location
 - Material
- People
 - Organization Function
 - Organization Service
 - Role
 - Organisation
 - Individual
 - Contract
- Application
 - Application Function
 - Application as a Service
 - Application Service
 - Application Platform
 - Application Group
 - Application
 - Application Component
 - Data Store
- Technology
 - Technology Function
 - Technology as a Service
 - Node Type
 - System Software
 - Communication Network
 - Interface Protocol
 - Application Deployment Set
 - Logical Node
 - Instance Deployment Set
 - Node Instance
- All Connectors
 - Access
 - Association
 - Application Flow
 - Component Flow
 - Depends on
 - Deployment
 - Evolves into
 - Flow is allowed by firewall
 - Functional Flow
 - Functional Performer Flow
 - Impacts
 - Influences
 - Instance is part of
 - Instance is deployed on
 - Instance realizes
 - Is a constituent of
 - Is assigned to
 - Is bound by contract
 - Is owned by
 - Is part of
 - Network Interlink
 - Node to Network Connection
 - Path between Nodes
 - Physical Flow
 - Realizes
 - Specializes
 - Triggers

