

Development Tools and Community



START-UP PACKAGE: Training, Content and FAQ



Modelling
Method



Implementation
based on ADOxx.org



Proof of
Concept



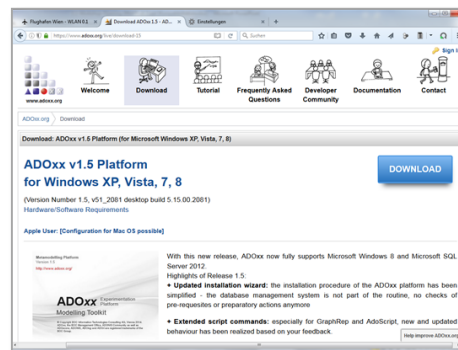
Information Channels

Free Training



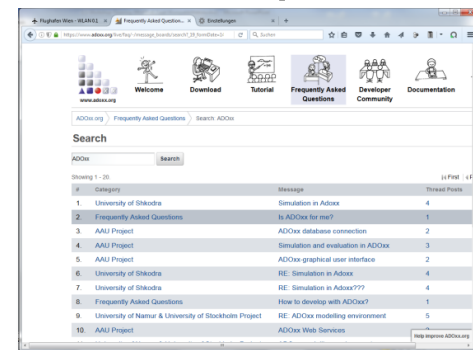
Presence Trainings,
Webinars

Free Content



Documentation, Code
Snippets, Examples ...

Free Helpdesk

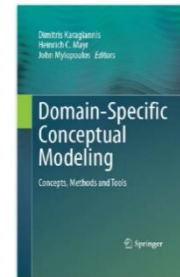


FAQ, Tutorials,



The *ADOxx.org* Community

Impressions of Innovation Group



ADOxx Tutorial

GE, AUT, CY, NE, SL,



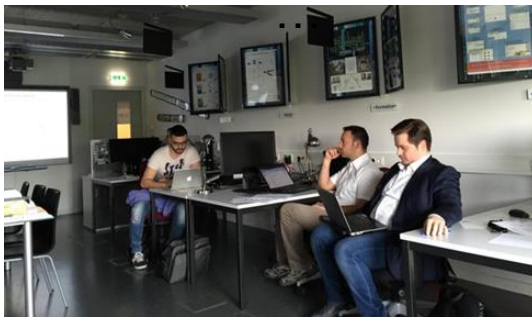
Zachmann coming to
OMiLAB Summer School



ADOxx – Training
„.. too many to fit in OMiLAB“



ADOxx – OMiLAB
Summer School, Book,



European Commission
“evaluator, coordinator, top
successful proposal writer“

3rd Party Communities
talk about ADOxx



Prof. Lee
„Best Paper with
ADOxx solution“



ICT7 top 16 beneficiaries (> €0.9 m)

Beneficiary	Total Cost	Grant
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000
ALFA ROMEO	€1,100,000	€450,000

21 SMEs out of 149 beneficiaries [14.1%]
SME funding: €10.33M out of €73.15M [14.1%]



Community

24+ modelling toolkits have been realized by ADOxx.org Community Members and are free for download.



24+
Modelling
Toolkits

3.500+
Stakeholders



About 3.500 Stakeholders from the modelling community around the world joining our newsletter.

3.300+
Developers



More than 3.300 Developers from Europe, Japan, South Korea, Canada, USA, Brazil, Colombia, Argentina, Egypt, Kenia and Israel

EU-
Projects



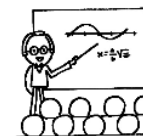
EU-Research Projects actively use ADOxx to realize open solution at development spaces.

18
Laboratories



Research Laboratories in Austria, Germany, Switzerland, South Korea, ... are using ADOxx for teaching.

14
Universities &
Research
Groups



14 Universities and Research Groups from Austria, Germany, Sweden, Lithuania, Netherlands, Croatia, Rumania, Belgium, Argentina, Greece, Switzerland use ADOxx for research and teaching.










OMLAB[®]



Community

Development Spaces

- possibility to discuss and share your development resources with the community
- <https://www.adoxx.org/live/development-spaces>

ADOxx.org Developer Spaces			
Showing 14 results.			
Items per Page 20		Page 1 of 1	
First Previous Next Last			
Logo	Name	Members	Action
	BIMERR: Renovation 4.0 Join the BIMERR developer space to support the development of a Process & Workflow Modelling & Automation toolkit.	1	Join
	BIVEE: Production Process Management The developer resources in the context of the BIVEE project are provided in this development space. Become an active part in the BIVEE Modelling Toolkit developer community and join today!	4	Join
	CaxMan: Business Modelling Join the CaxMan developer space to support the development of Business Modelling Toolkit for Industry 4.0!	1	Join
	CloudSocket: Digitalisation of Business Join the CloudSocket Developer Space and collaborate on business and IT-Cloud alignment using a Smart Socket.	5	Join
	DISRUPT: Production Process Management European Research Project on Factories of the Future. Model-based support to: "Transform Manufacturing for Industry 4.0" and "Validate technologies in key industrial sectors".	2	Join
	École polytechnique fédérale de Lausanne Team of STI-DK from EPFL uses ADOxx modeltype of User Story Mapping method to deliver domain specific ontology for manufacturing companies.	3	Join
	eHealthMonitor Developer Space Join the eHealthMonitor Developer Space	2	Join
	GO0D-MAN: Zero Defect Manufacturing European Research Project on Zero Defect Manufacturing	1	Join
	LearnPAD: Technology Enhanced Learning The LearnPAD developer's space on ADOxx.org targets the development of a process-driven modelling toolkit for public administration integrated with collaborative tools and services of the project platform.	69	Join



Community

Twitter

- @ADOxxORG

 **ADOxx.org** @ADOxxORG · 15 Oct

We invite you to the next ADOxx TRAINING DAYS, on November 18. - 20.2020 Online. adoxx.org/live/tutorial @omilab

#Research #Science #Innovation #RPA #Robotics #industry40 #industrie40 #ProcessManagement #EFFRA #IoT #DigitalTransformation #IBPM

We invite you to the next ADOxx TRAINING DAYS, on 18-20 November 2020 Online



Engagement icons: comment, retweet, like (4), share, and video.

 **ADOxx.org** @ADOxxORG · 25 Aug


Check out how to access our robot arm from home, adoxx.org/live/web/compl...
Please act in accordance with your best knowledge and belief!
#ADOxxORG #remoteAccess #workflows #modelling #robotics #complAI

Access our Robot Arm from Home



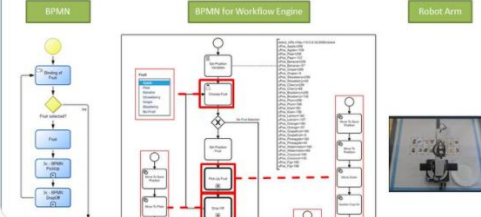
Please act in accordance with your best knowledge and belief!

Engagement icons: comment, retweet, like, share, and video.

 **ADOxx.org** @ADOxxORG · 20 Aug

Check out how BPMN can be used to define different workflows to smartly interact with a robot arm, adoxx.org/live/web/compl...
#ADOxxORG #BPMN #workflows #workflowbindings #robotics #complAI

Smart Workflows for Robots using BPMN

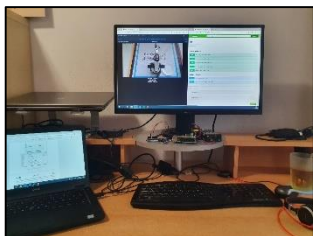


Engagement icons: comment, retweet, like, share, and video.

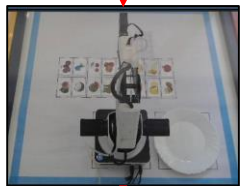
Community

OMiLAB Innovation Corner at BOC Vienna

- find the OMiLAB community here: <https://www.omilab.org/index.html>
- use our devices remote

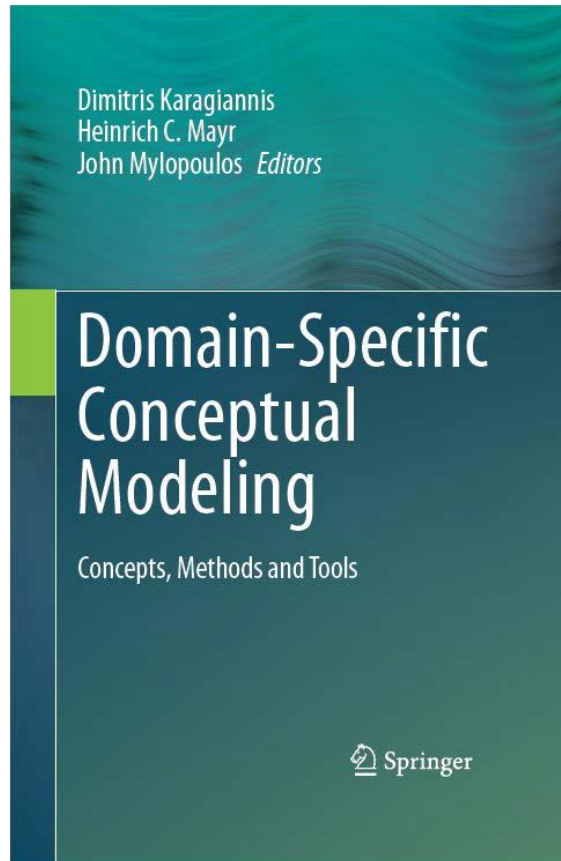


Remote
Connection



Version 1.1

ACTUAL COMMUNITY RESULTS



Further Details:
<http://book.omilab.org>

This book draws new attention to domain-specific conceptual modeling by presenting the work of thought leaders who have designed and deployed specific modeling methods. [...].

All domain-specific methods described in this volume also have a tool implementation within the OMiLAB Collaborative Environment - a dedicated research and experimentation space for modeling method engineering at the University of Vienna, [...]

Number of modelling methods/tools: 25

Publisher: Springer

Let's stay in touch!



The ADOxx Metamodelin... X +

https://www.adoxx.org/live/home



Search

Sign In

Welcome Download Tutorial Frequently Asked Questions Developer Community Documentation Contact

ADOxx.org Welcome

Community Event

SUMMER SCHOOL 2017: NEXT GENERATION ENTERPRISE MODELLING
Call for Participation: July 17 - 28, 2017, University of Vienna
Registration: <http://nemo.omilab.org/2017/registration-form/>  

BPMN@ADOxx UML@ADOxx

OWL@ADOxx ER@ADOxx

DOWNLOAD ADOxx

Have a look at the following realization cases of modelling approaches from research and industrial background to get your own development started.

Further usages of ADOxx are available at OMILab/University of Vienna: <http://www.omilab.org>

Watch the ADOxx.org "Hello World" Video **ONLINE**

As a starting point, have a look at the "Hello World" Screencast demonstrating the usage of the metamodeling platform ADOxx.

Tweets by @ADOxxORG

ADOxx.org @ADOxxORG
Looking for the shortest route through the city with the #CityBike: adoxx.org/live/faq/~mes...
#Geolocation #Metamodeling #ConceptModelling

ADOxx.org @ADOxxORG
Register for the @cloudsocketeu #webinar about Business Process to Workflow Alignment: attendee.gotowebinar.com/register/55298...
#CloudComputing #BPaaS

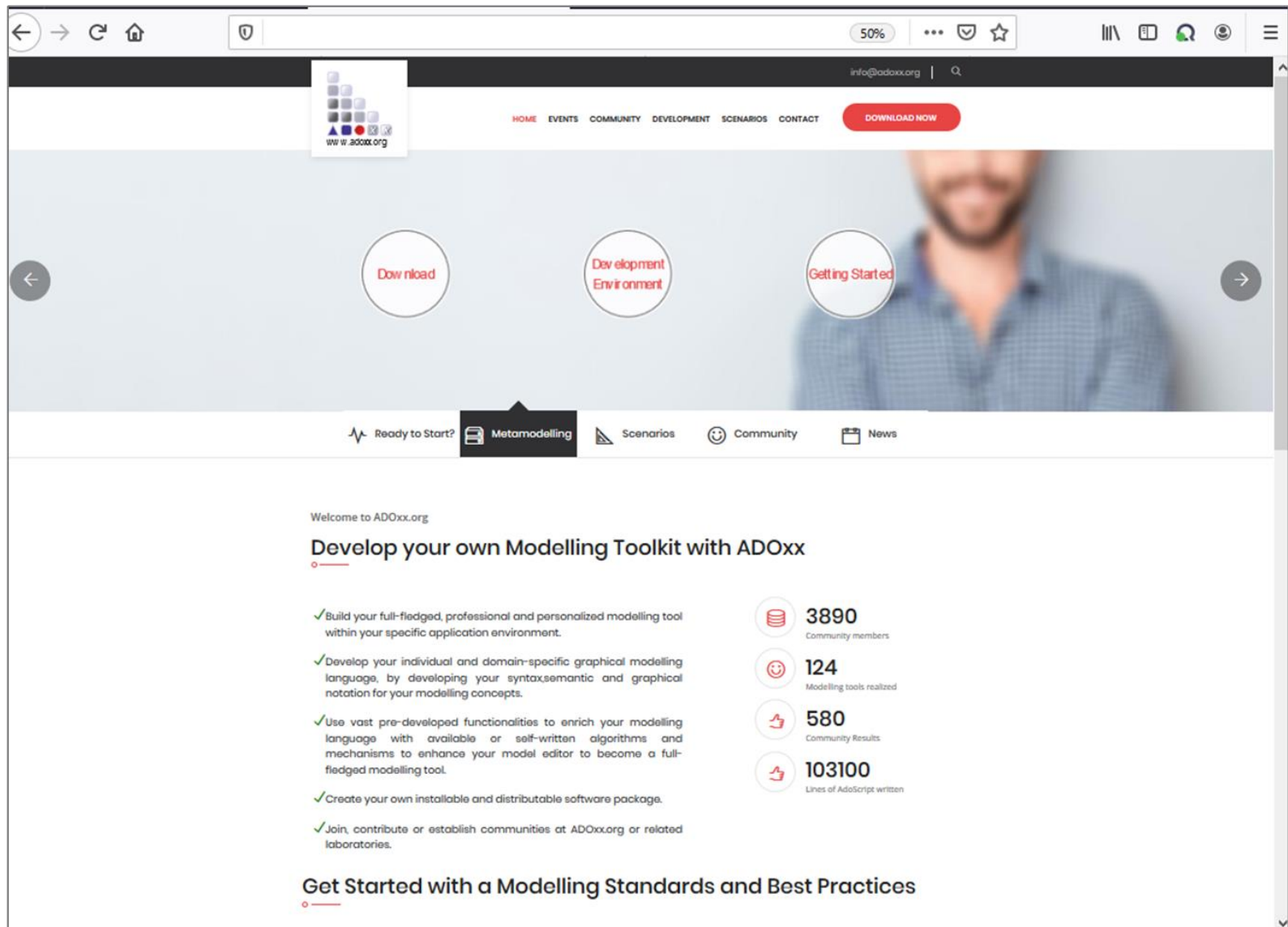
CloudSocket Webinar

Help improve ADOxx.org

"Develop your own Modelling Toolkit with ADOxx."

- Build your full-fledged, professional and personalised modelling tool within your specific application environment.
- Develop your individual and domain-specific graphical modelling language, by developing your syntax, semantic and graphical notation for your modelling concepts.
- Use vast pre-developed functionalities to enrich your modelling language with available or self-written algorithms and mechanisms to enhance your model editor to become a full-fledged modelling tool.

Coming Soon – New Webpage



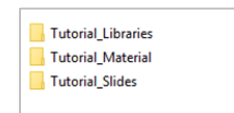
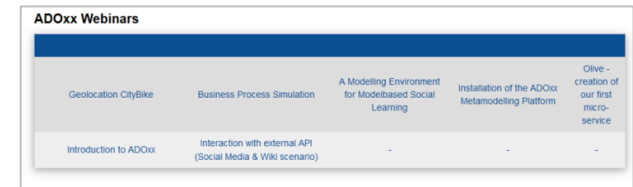
How ADOxx can help in implementing your Modelling Method



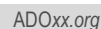
ADOxx Development Environment: Development Support I

Generic Development Support

- **Basic Introduction** into development environment
<https://www.adoxx.org/live//introduction-webinar>
- **Training Material** for Development of Modelling Languages and Mechanisms and Algorithms
https://www.adoxx.org/live/documents/10157/14782/2_ADOxx+Training+Materials.zip/279d4855-819f-4eeb-a37c-2a8d355fec01
- **Application Library Code Repository**
<https://www.adoxx.org/live/adoxx-application-library-code-repository>
- **Online Documentation** of ADOxx:
<https://www.adoxx.org/live/adoxx-documentation>

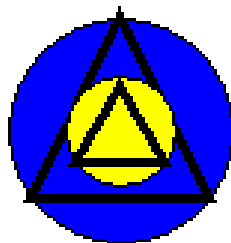


- Provision and Webinar for Java – DSL for ADOxx
<https://www.adoxx.org/live/adoxx-java>
- Provision of Meta Model Design Environment:
<https://www.adoxx.org/live/metamodel-designer>
- Provision of AdoScript Syntax Support in Microsoft Visual Studio Code: <https://www.adoxx.org/live/adoxx-development-languages-syntax-support-in-microsoft-visual-studio-code>
- Provision of GraphRep Repository:
<https://www.adoxx.org/live/adoxx-graphrep-repository-wiki/-/wiki/GRAPHREP+Repository/FrontPage>
- Provision of Powerpoint (EMF) to ADOxx (LEO) Converter:
<https://www.adoxx.org/live/emf2leo-converter-service>
- Collection of Scenarios and tool add-ons
https://www.adoxx.org/live/faq/-/message_boards/category/64152



GraphRep Repository – Sample I

1. Go to: <https://www.adoxx.org/live/adoxx-graphrep-repository-wiki/-/wiki/GRAPHREP+Repository/FrontPage>
2. Choose one element
3. Copy the GraphRep code
4. Insert the GraphRep Code in the GraphRep attribute of a class in your ADOxx Development Toolkit



```
GRAPHREP
SHADOW off
```

```
FILL color:blue
```

```
PEN style:solid w:0.01cm
```

```
ELLIPSE x:0.00cm y:0cm rx:1cm ry:1cm
```

```
PEN style:solid w:0.1cm
```

```
POLYGON 3 x1:-0.8cm y1:0.6cm x2:0cm y2:-1cm x3:0.8cm y3:0.6cm
```

```
FILL color:yellow
```

```
PEN style:solid w:0.01cm
```

```
ELLIPSE x:0.00cm y:0cm rx:0.5cm ry:0.5cm
```

```
PEN style:solid w:0.1cm
```

```
POLYGON 3 x1:-0.4cm y1:0.3cm x2:0cm y2:-0.4cm x3:0.4cm y3:0.3cm
```

```
ATTR "Name" x:0.00cm y:1.0cm w:c
```



EMF2LEO – Sample II

What is EMF2LEO:

- ↩ An ADOxx web-service which allows you to convert EMF files (general vector graphic files) into the LEO format files (used for defining the graphrep of a class).

When is EMF2LEO needed:

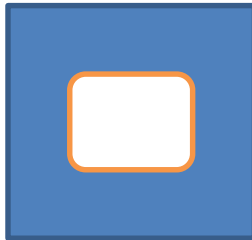
- ↩ When you want to simplify the process of designing complex images that you wish to assign to ADOxx classes as graphrep representation.
- ↩ When you already have (or designed) an EMF file and you wish to easily adjust it for ADOxx graphrep

How to use EMF2LEO:

- ↩ Go to the EMF2LEO web service: <https://www.adoxx.org/live/emf2leo-converter-service>
- ↩ Input a brief description of your EMF file (ex: actor, arrow, circle, etc)
- ↩ Select the EMF file
- ↩ Input the zoom factor (the size dependency between the EMF image and its conversion)
- ↩ Submit & Download the LEO file !
- ↩ Instructions on how to create EMF files can be found on the website.

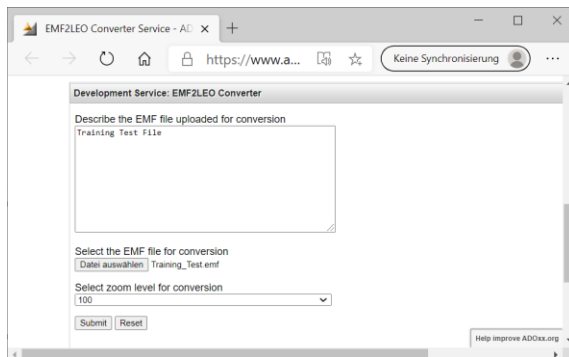


EMF2LEO – Sample III



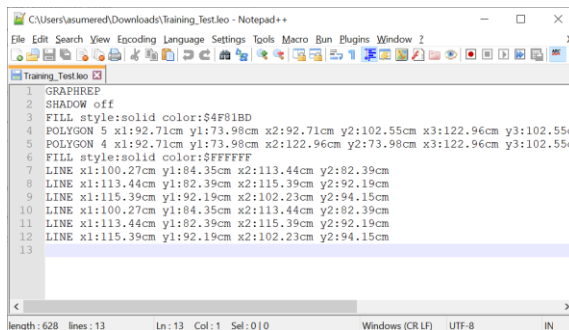
Create your own EMF File with PowerPoint:

- ⇨ Draw a picture of shapes in ppt
- ⇨ Group the shapes
- ⇨ Right click “Save as picture” – choose EMF format



Transform the File:

- ⇨ Describe the EMF file
- ⇨ Select the EMF file
- ⇨ Choose a zoom factor
- ⇨ „Submit“



How to use EMF2LEO:

- ⇨ Converted file is saved under Downloads
- ⇨ Open the file with an editor (eg: Notepad)
- ⇨ Copy the code to a GraphRep attribute in ADOxx

Development Service: EMF2LEO Converter

Describe the EMF file uploaded for conversion

Activity image

D:\7.Testing\EMF2LEO\EMF2LEO\Activity.emf

Select zoom level for conversion

100

The screenshot shows a 'B. Graphics' dialog box with the 'Text' tab active. The 'Text' area is empty. The 'Format' section on the right has buttons for 'Apply', 'Font', 'Color', and 'Image'. The 'B. Character' section at the bottom indicates 'Ln 1, Col 1'. The 'Close' button is at the bottom left.

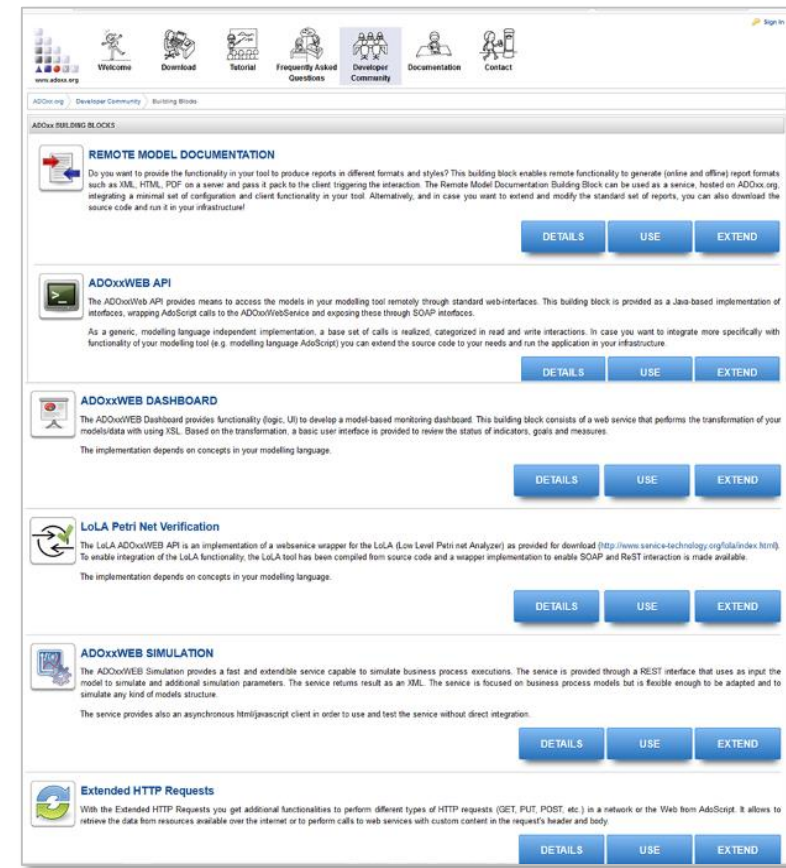
[illegible]



ADOxx Development Environment: Development Support III

Specific Development Support – Building Blocks

- **Remote Model Documentation**
Web-Service to generate standard export in standard formats
<https://www.adoxx.org/live/remote-model-documentation-details>
- **ADOxxWEB API**
Java Interface to ADOxx wrapping ADOScripts
<https://youtu.be/0CcRqfgF17E>
<https://www.adoxx.org/live/adoxx-web-api-details>
- **ADOWEB DASHBOARD**
Provides a Scorecard Dashboard
<https://www.adoxx.org/live/dashboard-version-2>
- **LoLA Petri Net Verification**
Formal verification of BPMN using Low Level Petri Net Analyser
<https://www.adoxx.org/live/adoxxweb-verification-details>
- **ADOWEB Simulation**
REST based service to provide simulations of petri nets and BPMN
<https://www.youtube.com/watch?v=2MdSFljGTZ4&index=2>
<https://www.adoxx.org/live/adoxxweb-simulation-details>
- **Extended HTTP Requests**
HTTP interaction Interface for ADOScript
<https://www.adoxx.org/live/extended-http-requests-details>

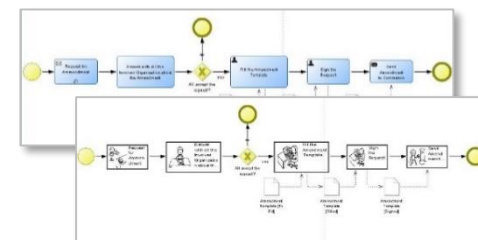
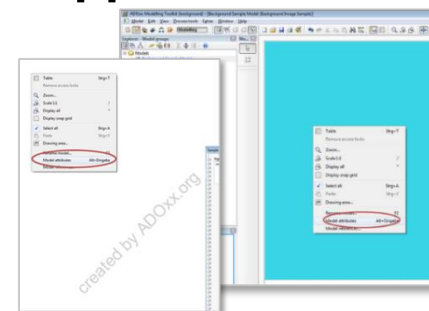




ADOxx Development Environment: Development Support IV

Specific Development Support – Code Snippets

- **Watermark and Background Image** for all models of a certain model type:
 - https://www.adoxx.org/live/faq/-/message_boards/message/87111
 - https://www.adoxx.org/live/faq/-/message_boards/message/87216
- **Simplified Modelling** – using buttons for modelling on touchpads
 - https://www.adoxx.org/live/faq/-/message_boards/message/87094
 - https://www.adoxx.org/live/faq/-/message_boards/message/87202
 - https://www.adoxx.org/live/faq/-/message_boards/message/87086
 - https://www.adoxx.org/live/faq/-/message_boards/message/87049
- **Bar Display** – showing attribute value beside the object in an own column
 - https://www.adoxx.org/live/faq/-/message_boards/message/87115
- **View Switch** – switching between different graphical representation
 - https://www.adoxx.org/live/faq/-/message_boards/message/87212
 - <https://www.adoxx.org/live/web/learnpad-developer-space/track-changes>





Development Tools & Building Blocks

Overview



Development Tools – Overview

1. ALL2ABL Converter Service

- <https://www.adoxx.org/live/all2abl-converter-service>

2. EMF2LEO Converter Service

- <https://www.adoxx.org/live/emf2leo-converter-service>

3. Java-Based MMDL

- <https://www.adoxx.org/live/adoxx-java>

4. MMDE – Modeling Method design Environment

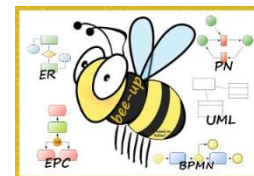
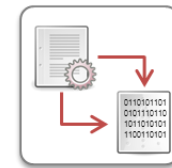
- <https://www.adoxx.org/live/metamodel-designer>

5. AdoScript Syntax Support for Microsoft Visual Studio Code

- <https://www.adoxx.org/live/adoxx-development-languages-syntax-support-in-microsoft-visual-studio-code>

6. Bee-Up

- <https://austria.omilab.org/psm/content/bee-up/info>

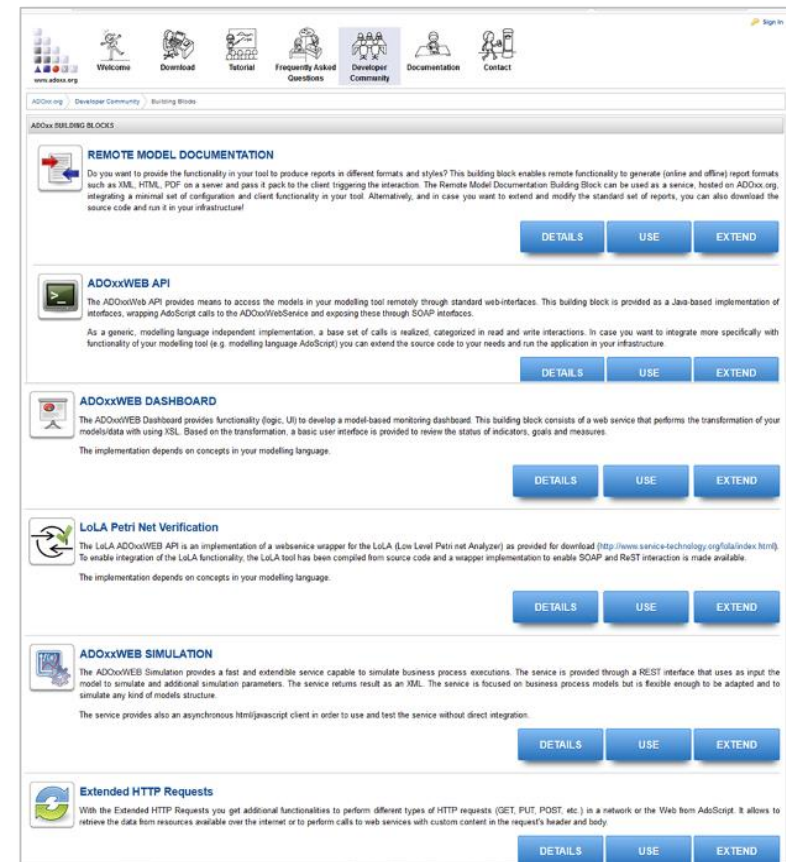




Building Blocks – Overview

<https://www.adoxx.org/live/building-blocks>

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START-UP PACKAGE: Development Support - Example

Example of development support for a modelling toolkit

1. Input for the modelling tool development

- a) Specification of the modelling languages

2. Selected ADOxx development support

a) ADOxx meta modelling platform (Core):

This software package consists of the meta modelling platform and its development environment.

b) Starting Points BPMN, UML, ER and UML

Those reference implementation can be downloaded to continue the development for each modelling method.

c) Meta Model Design Environment

This environment enables the design and specification of meta models. The documentation of available meta models enables a more transparent implementation.

d) Online Documentation

The online documentation provides explanation, sample code and community contributions.

e) Community Support

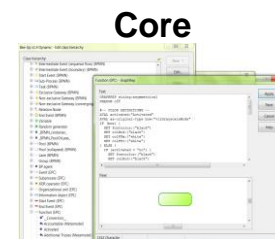
Frequently Asked Question enable the interaction with the ADOxx core team

f) Building Blocks

Add-On buildings blocks for simulation and WEB-API are provided to be integrated into the modelling tool.

g) Scenario Collection

Code snippets and suggestions are provided for the RDF export.



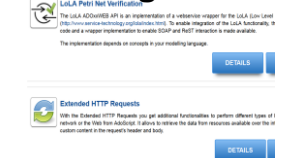
Starting Points



Community Support



Building Blocks





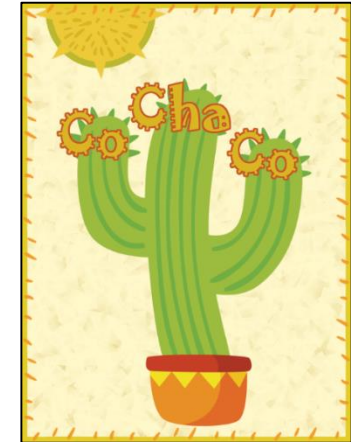
The Development Tool CoChaCo

Built on ADOxx

Development Tools – Demo

CoChaCo

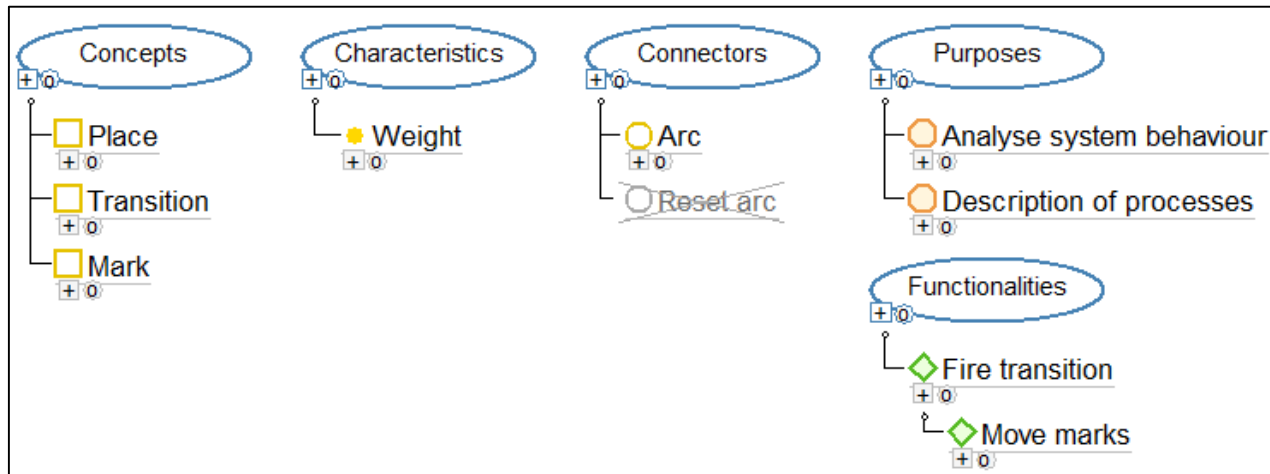
- supports the development of meta-models
- Concept, Characteristic and Connector
- <https://www.omilab.org/activities/cochaco.html>



1. Go to: <https://www.adoxx.org/live/cochaco4adoxx>
2. Download the CoChaCo4ADOxx package
3. Unzip the folder
4. Start the setup and follow the instructions during the setup process
5. Open the CoChaCo4ADOxx Modeling Toolkit
6. Start the creation of your meta model
 - The following demo shows Petri Nets.

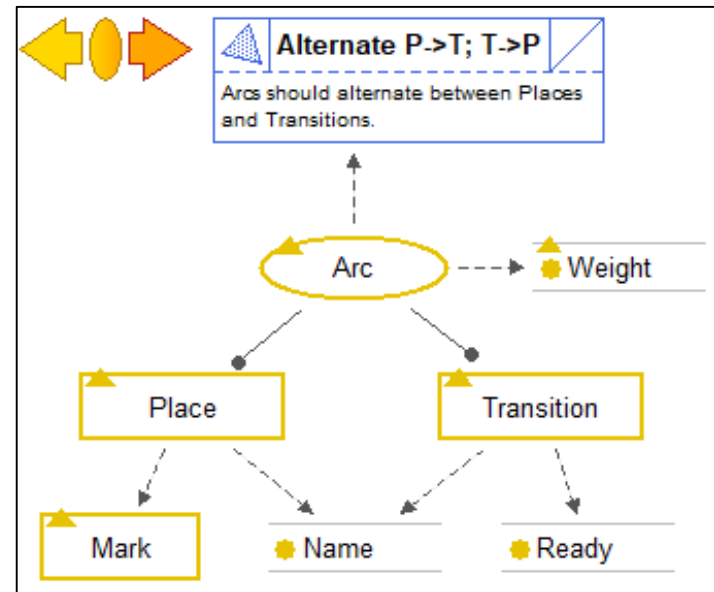
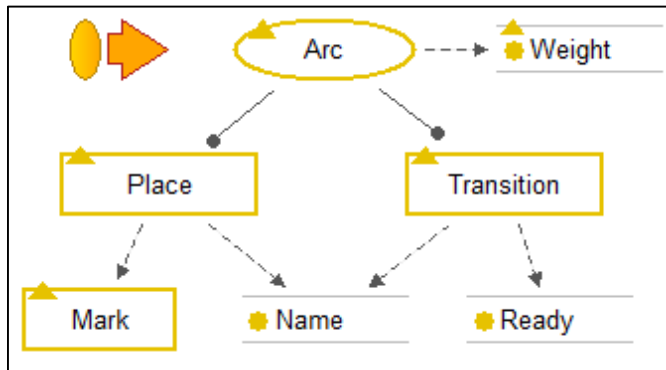
CoChaCo – Demo

Modeltype - Meta Model Concept Pool



CoChaCo – Demo

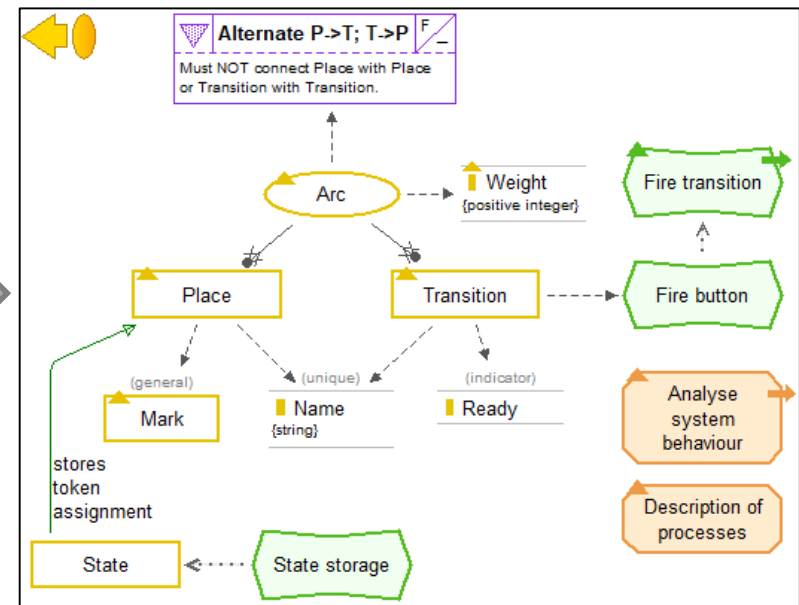
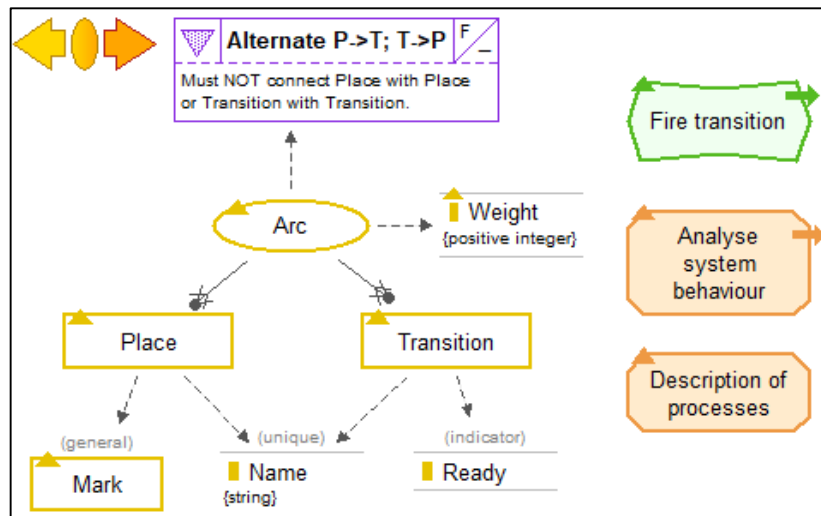
Modeltype – Concept Overview





CoChaCo – Demo

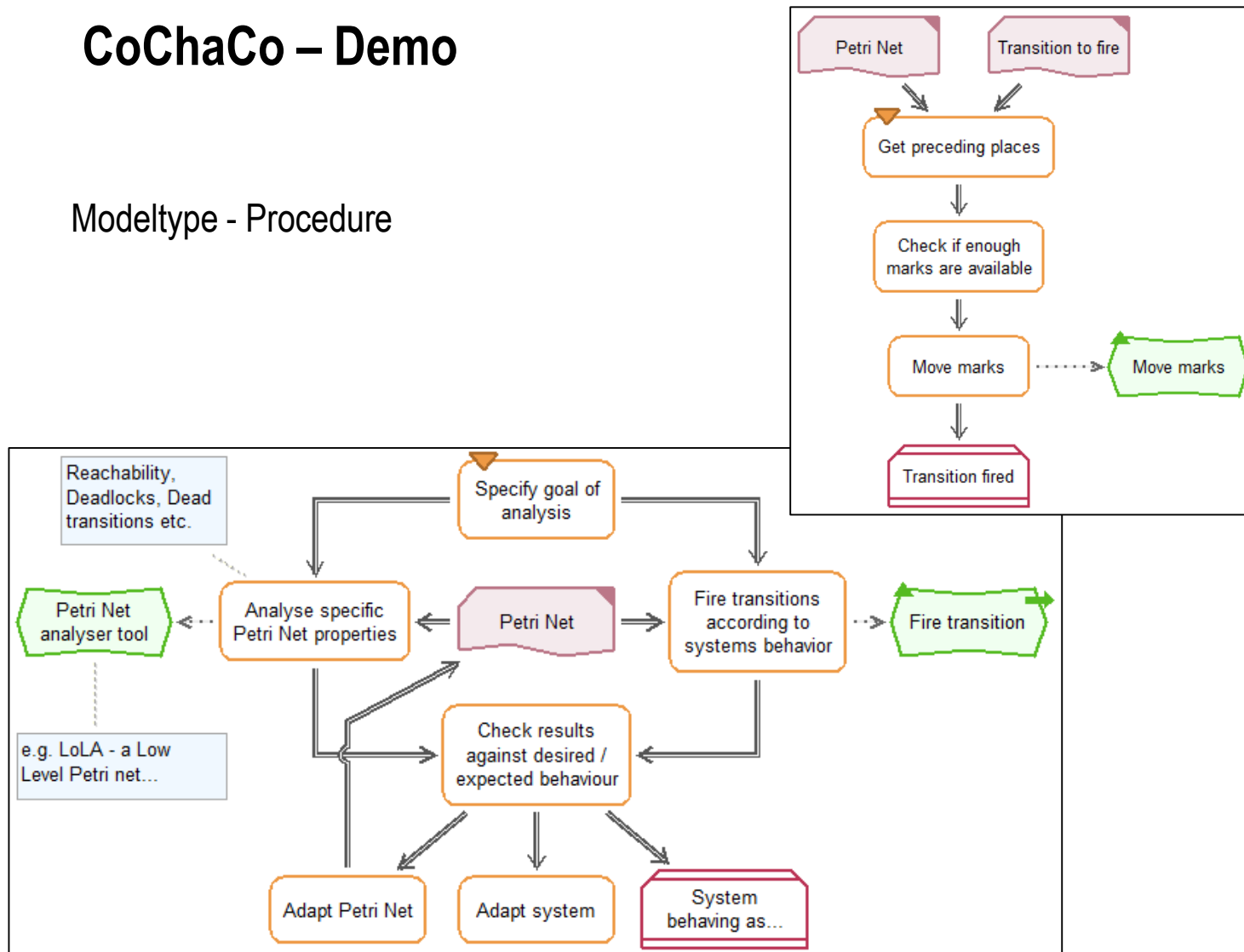
Modeltype – Concept Overview





CoChaCo – Demo

Modeltype - Procedure

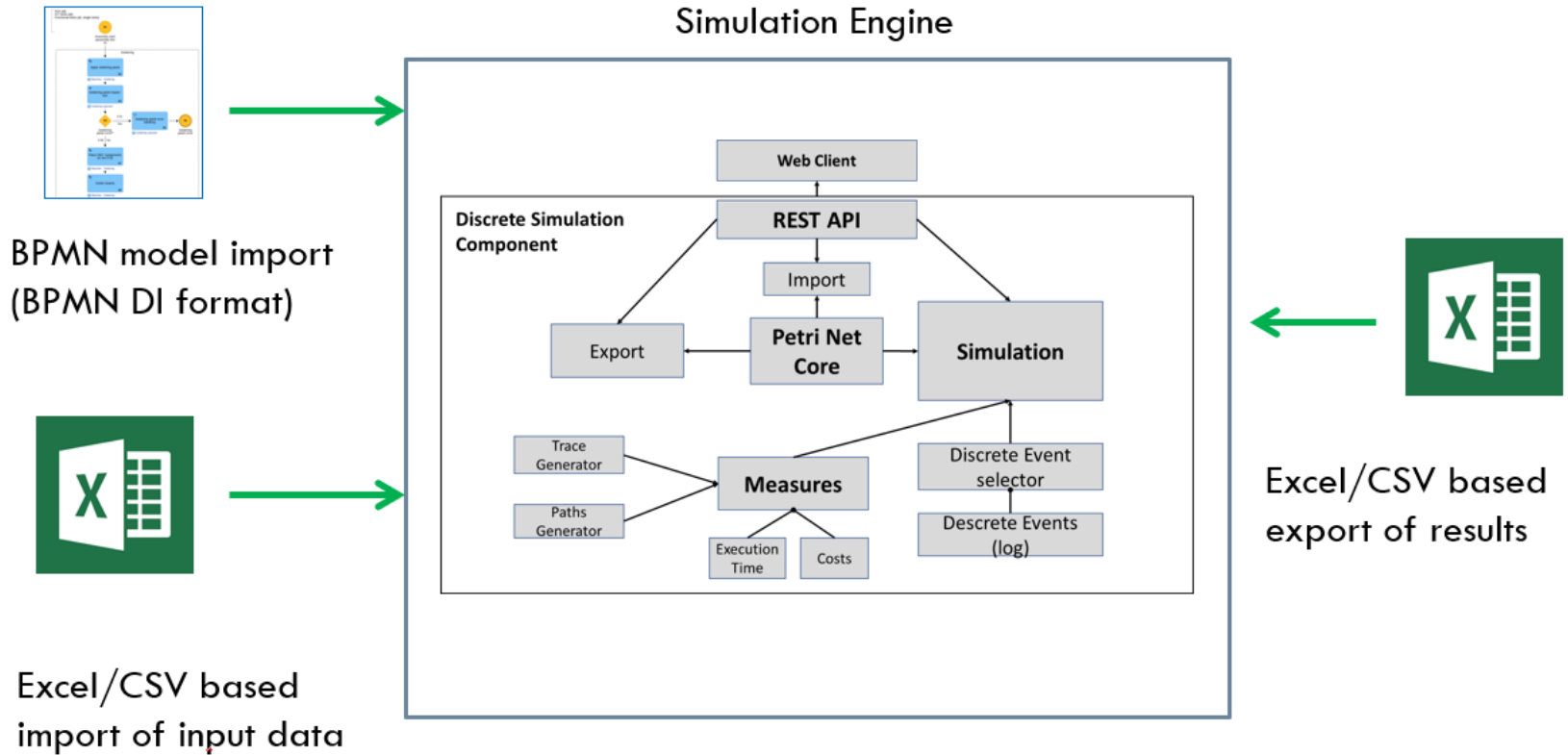




Innovation Items

Outlook

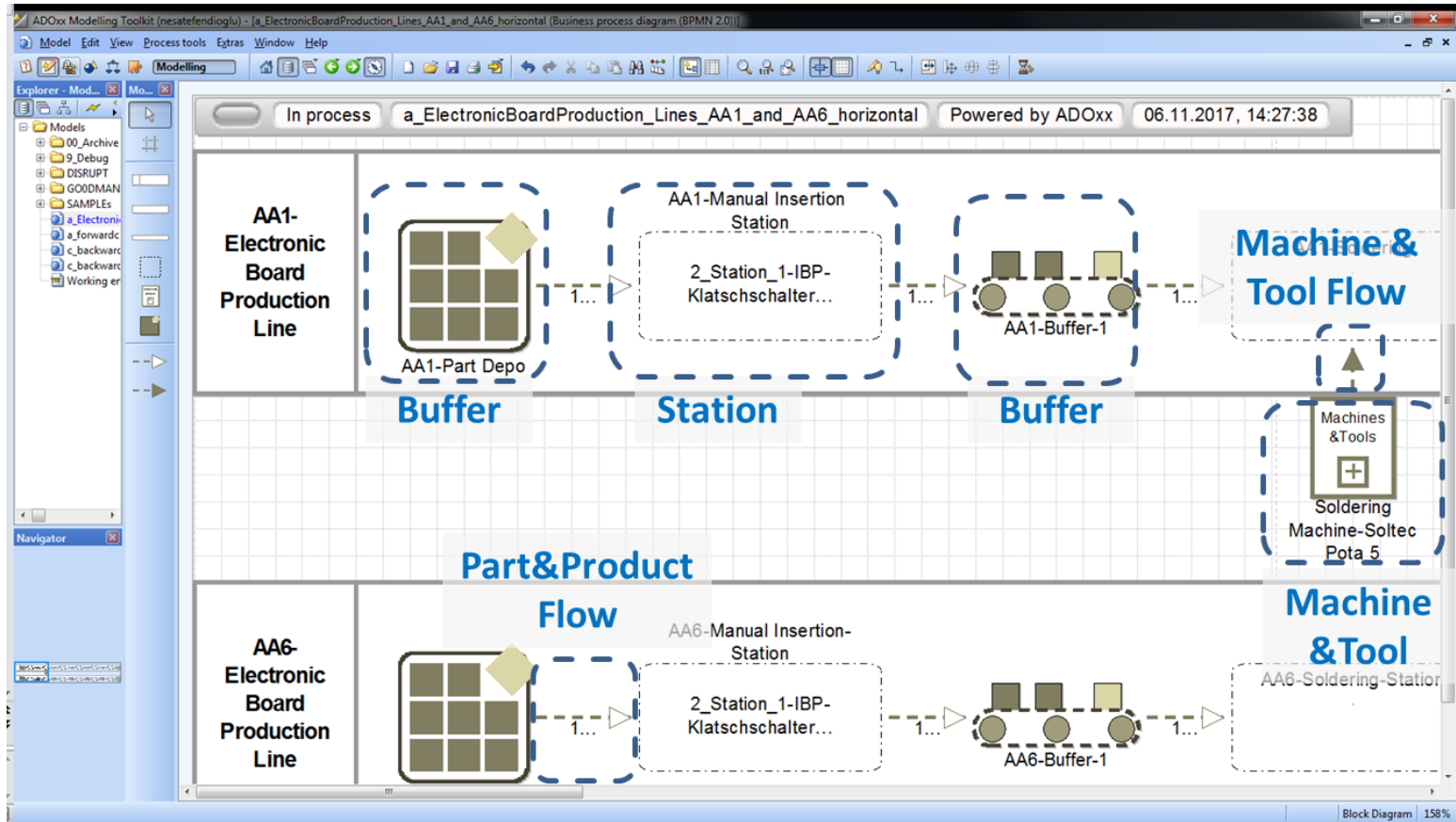
Knowledge-based Simulation



Development Space: DISRUPT

Access: <https://www.adoxx.org/live/web/disrupt/knowledge-based-simulation>

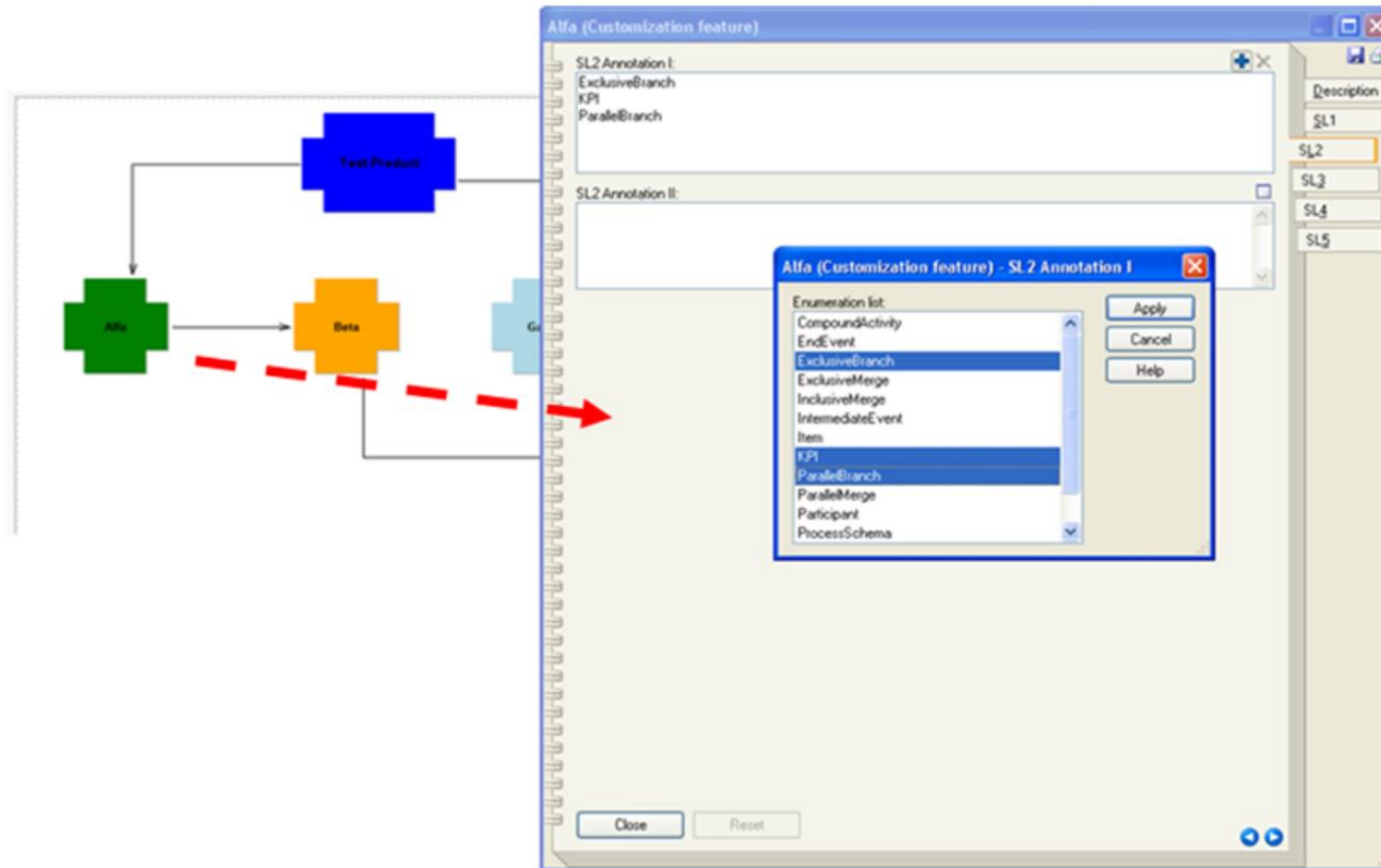
Industrial Business Process Management



Development Space: DISRUPT

Access: <https://adoxx.org/live/web/disrupt/industrial-business-process-management>

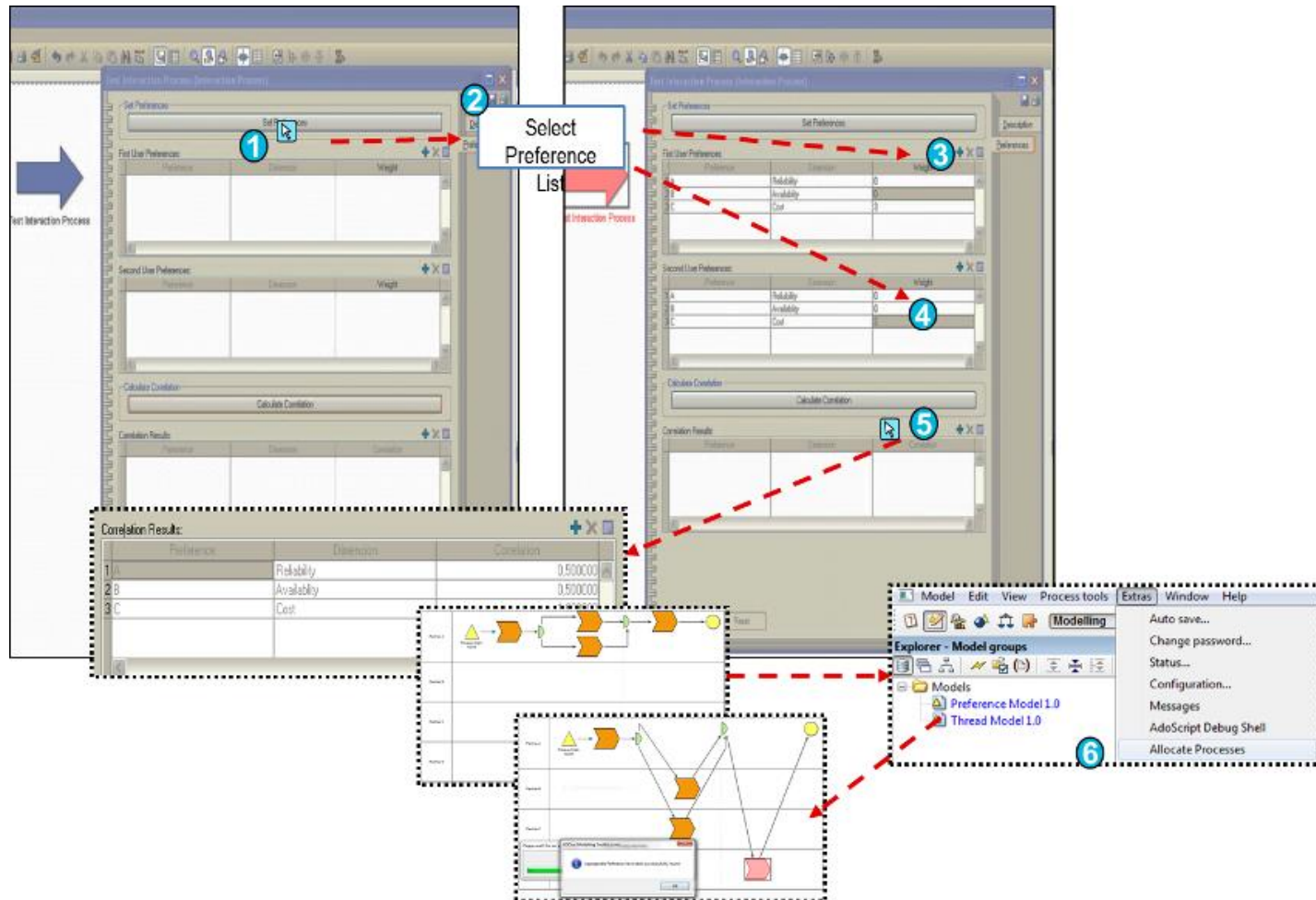
Semantic Lifting of Modelling Language



Development Space: BIVEE

Access: <https://www.adoxx.org/live/web/bivee-developer-space/modelling-language>

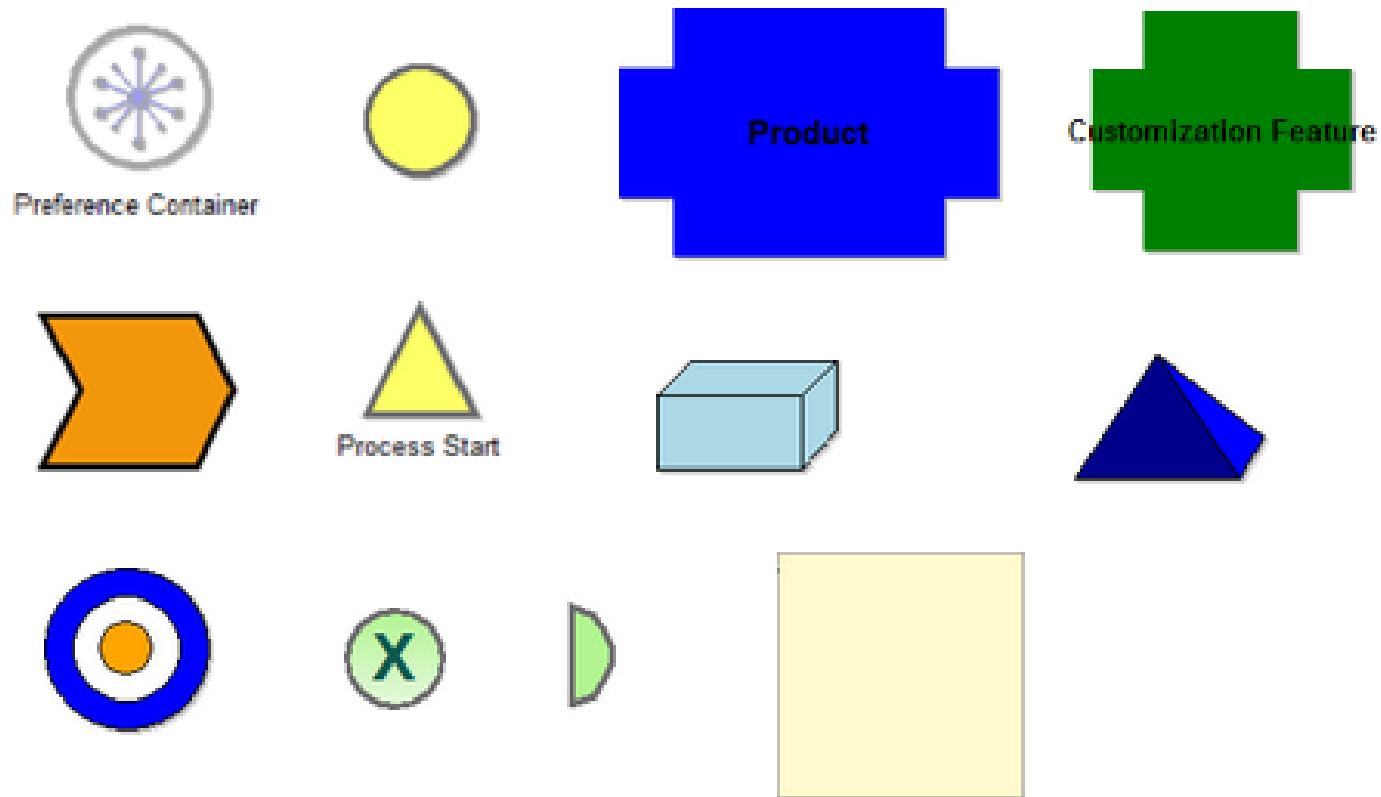
Cooperative Decision Making



Development Space: BIVEE

Access: <https://adoxx.org/live/web/bivee-developer-space/modelling-language>

Virtual Enterprise Modeling Application



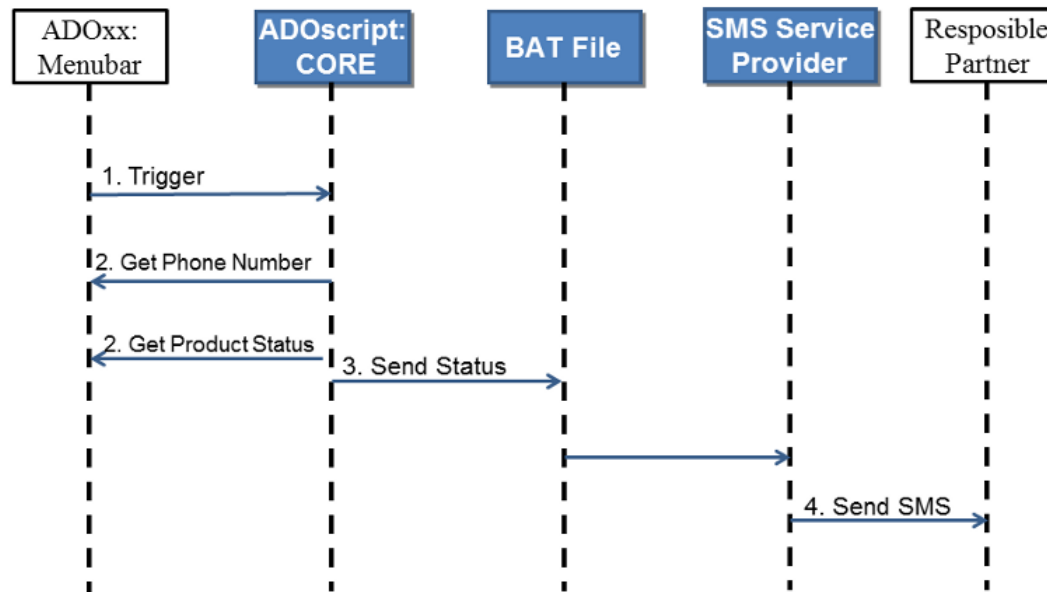
Development Space: BIVEE

Access: <https://www.adoxx.org/live/web/bivee-developer-space/modelling-language>

SMS Notification



ADOxx Realisation Approach



ADOxx® Tutorial

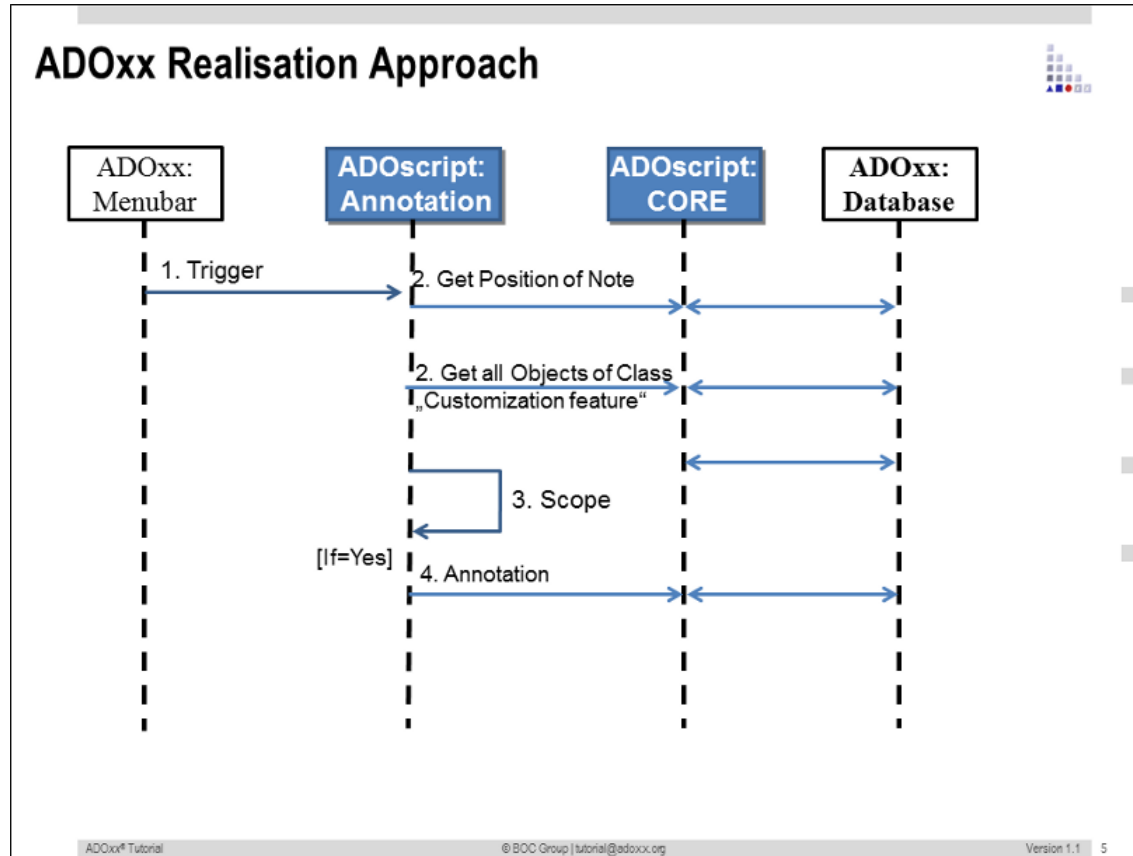
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Version 1.1 5

Development Space: BIVEE

Access: <https://adoxx.org/live/web/bivee-developer-space/mechanisms-and-algorithms>

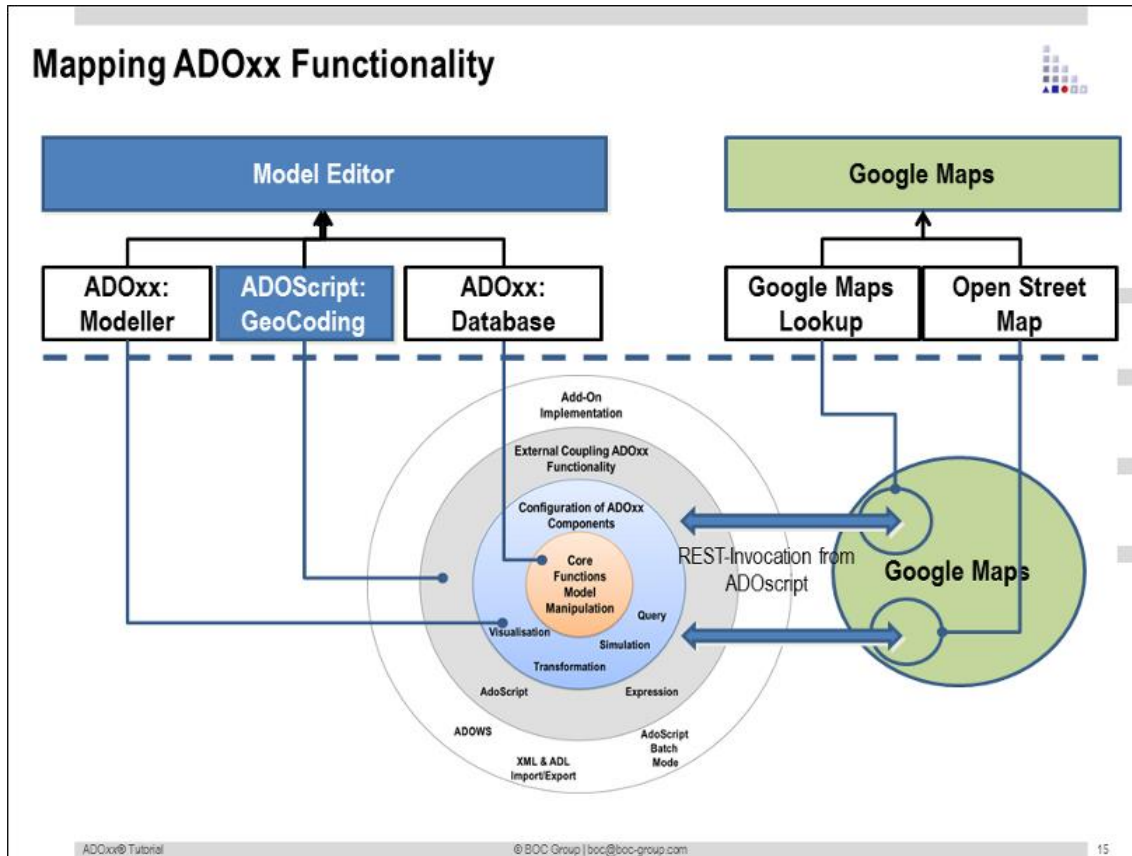
Annotation of Objects



Development Space: BIVEE

Access: <https://adoxx.org/live/web/bivee-developer-space/mechanisms-and-algorithms>

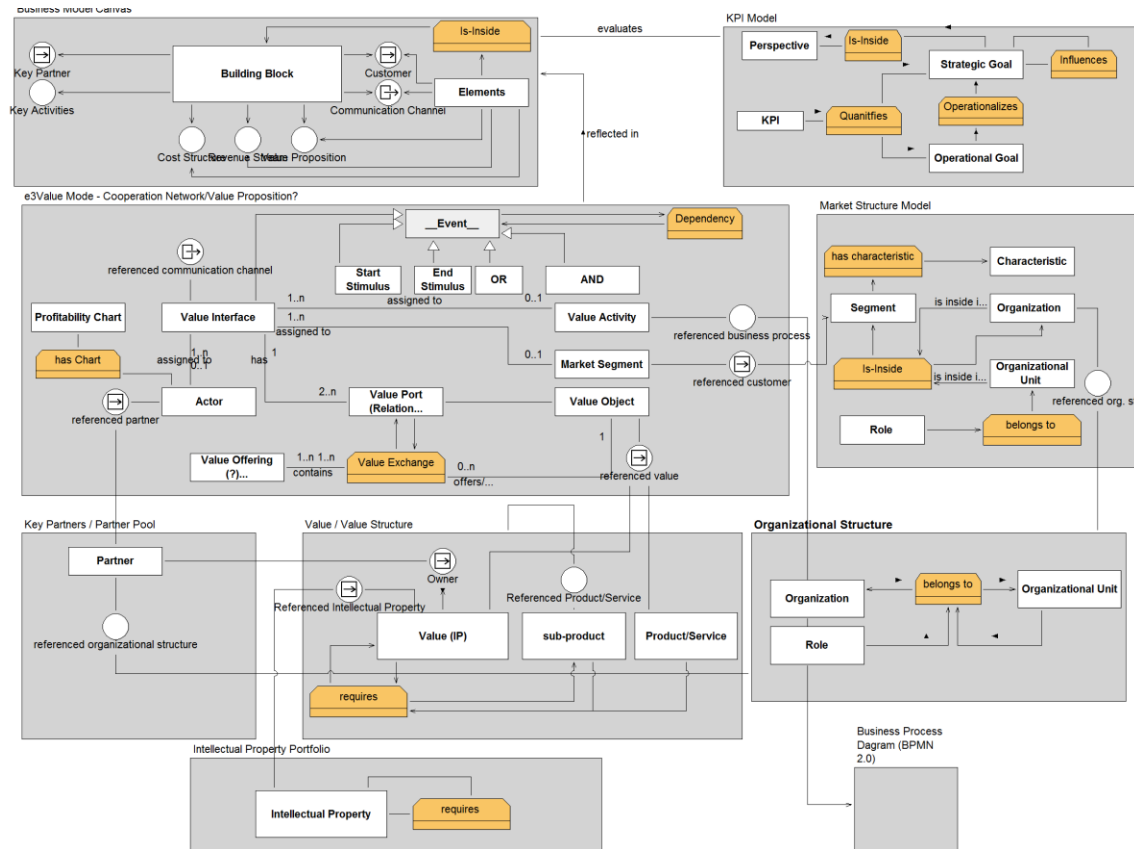
Geographic Location of Virtual Enterprise



Development Space: BIVEE

Access: <https://adoxx.org/live/web/bivee-developer-space/mechanisms-and-algorithms>

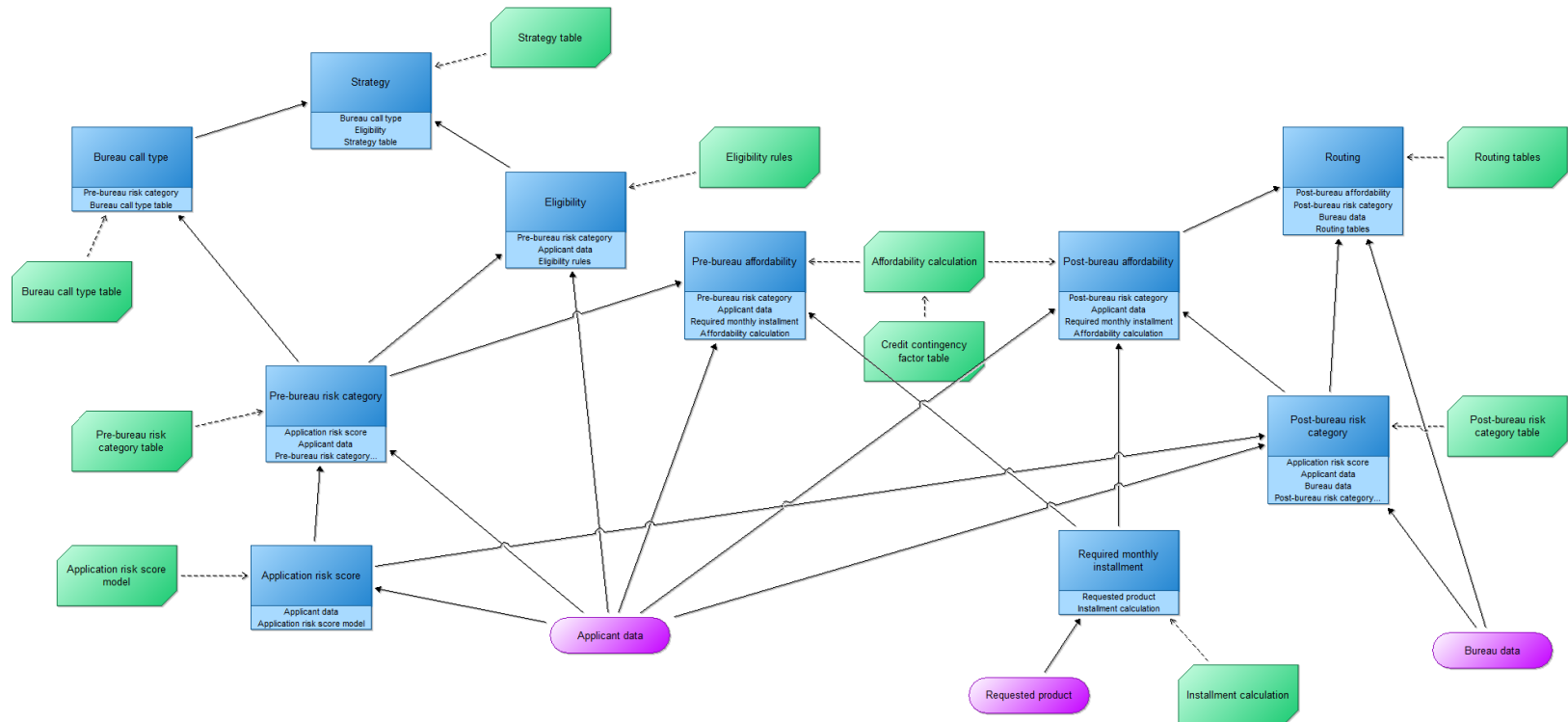
Business Modelling Toolkit (Business Modelling for Industry 4.0)



Development Space: CAxMan

Access: <https://adoxx.org/live/web/caxman/downloads>

BPMN 2.0 and DMN 1.0 Modelling Tool



Development Space: CloudSocket

Access: <https://www.adoxx.org/live/web/cloudsocket-developer-space/bpmn-and-dmn-tool>

BPaaS Design Environment Prototype



The screenshot displays a web-based form titled "Upload an individual image of the user (Activity Specification)". The form is divided into several sections:

- Service Requirement:** A section on the left with the text "Upload an individual image of the user".
- Name:** A text input field containing "Upload an individual image of the user".
- Description:** A large text area containing the following text:
 - Technical requirements:
 - Size
 - Memory requirements
 - Image format (Jpeg, TIFF, Pdf, PNG, etc)
 - Virus free-check
- Responsible Author:** A text input field at the bottom.

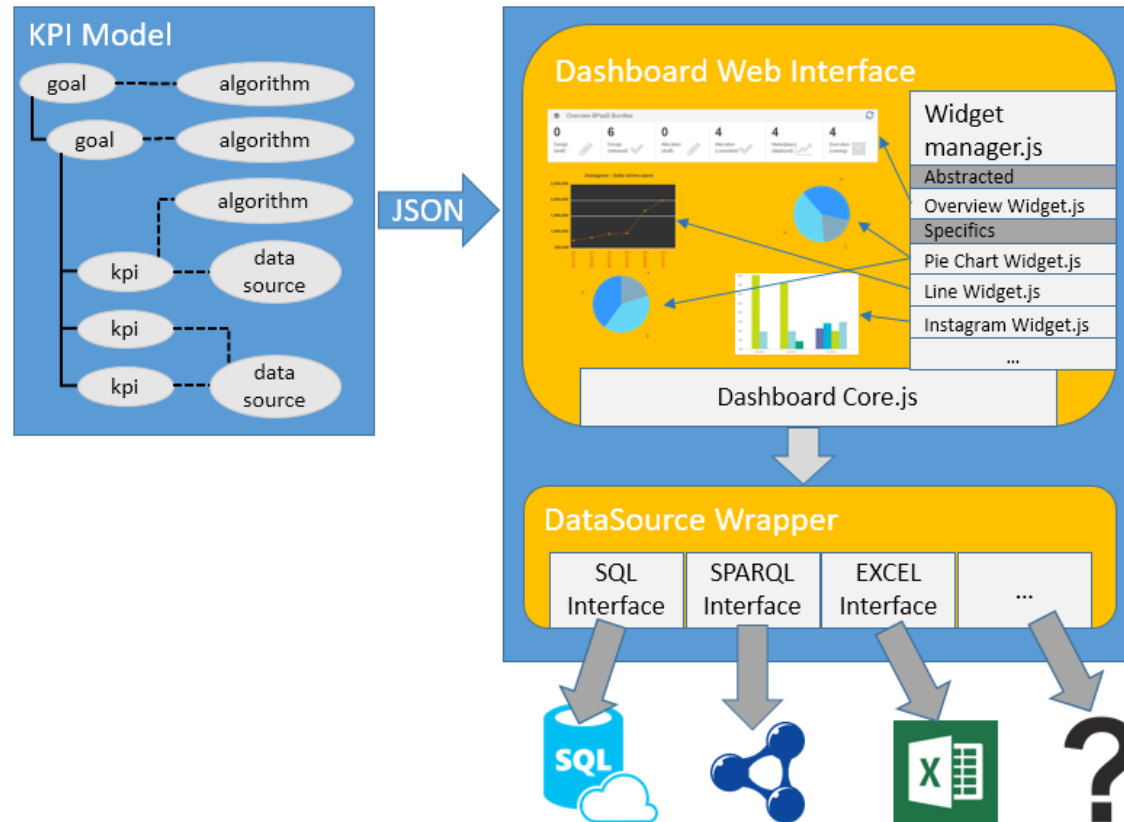
On the right side of the form, there is a vertical list of tabs for different types of descriptions:

- Service Requirement (highlighted)
- Functional Description
- Input Description
- Output Description
- Non-Functional Description
- Business Description
- Regulatory Description

Development Space: CloudSocket

Access: <https://www.adoxx.org/live/web/cloudsocket-developer-space/cloudsocket-prototype>

BPaaS Evaluation Environment Prototype



Development Space: CloudSocket

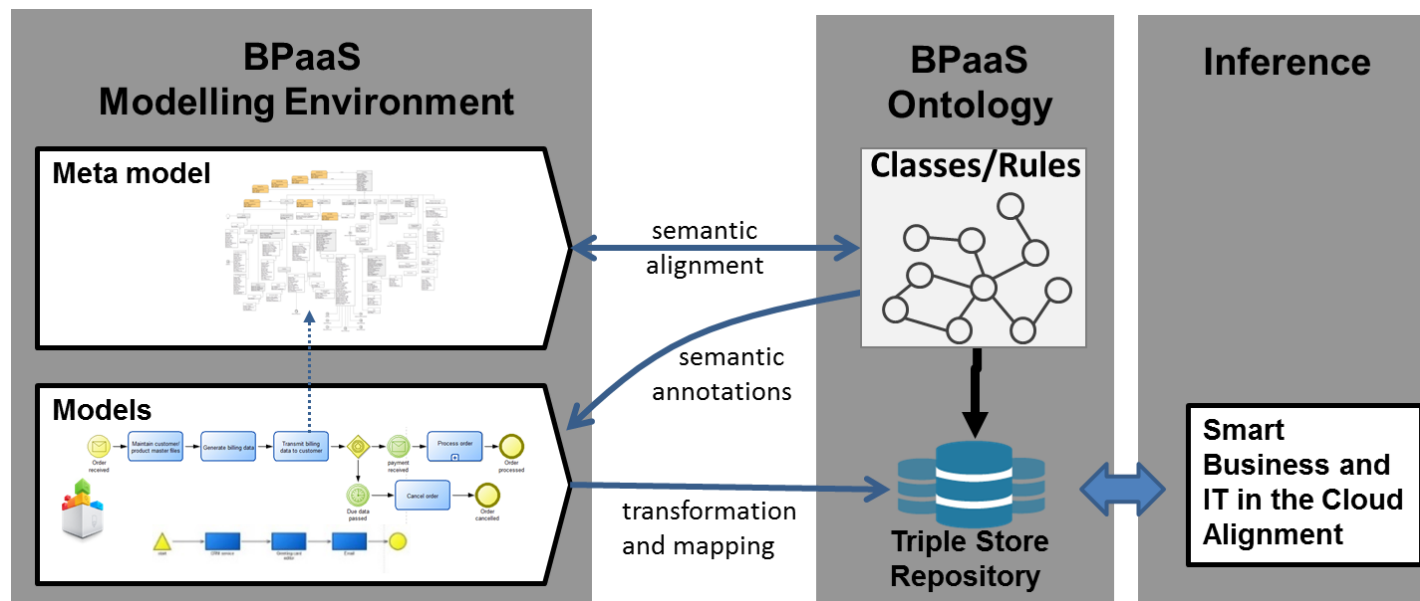
Access: <https://www.adoxx.org/live/web/cloudsocket-developer-space/bpaas-evaluation-environment-prototype>

BPaaS Design Environment Prototype v1.0 (RESEARCH)



human interpretation
informal and semi-formal

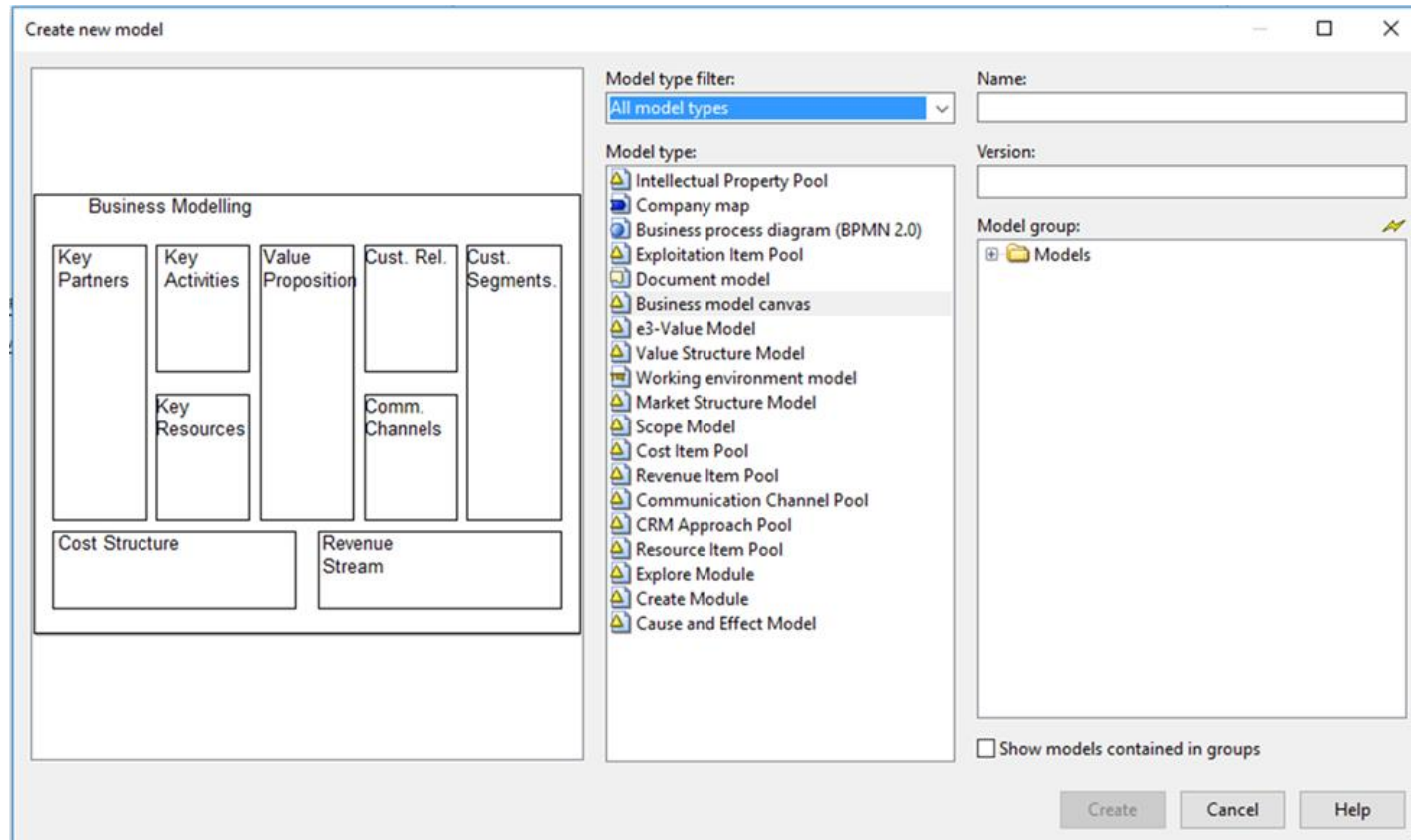
machine interpretation
formal



Development Space: CloudSocket

Access: <https://www.adoxx.org/live/web/cloudsocket-developer-space/bpaas-design-environment-prototype-research>

Asymmetric Business Process Modelling



Development Space: DISRUPT

Access: <https://adoxx.org/live/web/disrupt/asymmetric-business-modelling>

ADOxx KPI WEB DASHBOARD



The screenshot displays the ADOxx Modelling Toolkit (Admin) interface. The main workspace shows a KPI model diagram with the following components:

- Efficiency Improved (Goal)**: Represented by a blue triangle.
- Efficiency (KPI)**: Represented by a target icon.
- Sensor 1 (Metric)** and **Sensor 2 (Metric)**: Represented by blue circles with the Greek letter alpha (α).

Relationships in the diagram:

- Sensor 1** and **Sensor 2** are connected to **Efficiency (KPI)** via **input** arrows.
- Efficiency (KPI)** is connected to **Efficiency Improved (Goal)** via a **quantify** arrow.

The **Extras** menu is open, and the **Generate Web Dashboard Json** option is highlighted with a red circle. The **Efficiency (KPI) (KPI)** configuration window is also open, showing the following details:

Fields:

Field Name	Field Measure Unit
1 value	[1-5]

Data Aggregation Type: Not aggregated

Target Range: value > 0 && value <= 4

Alert Ranges:

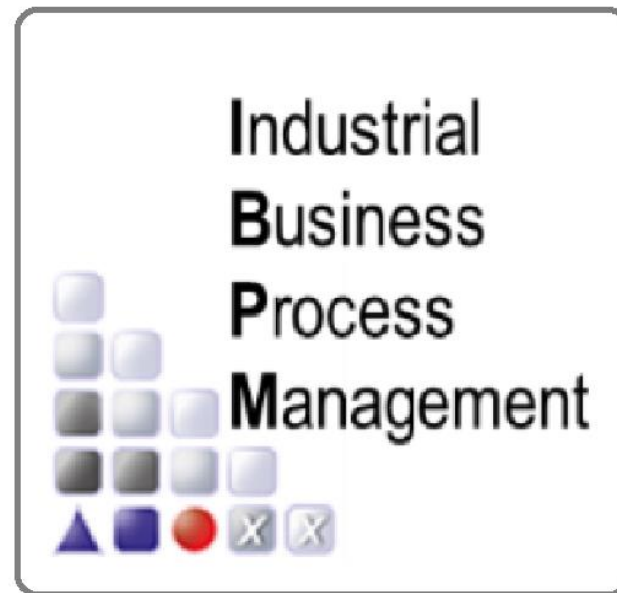
Alert Color	Alert Range
1 yellow	value == 4

Buttons: Close, Reset. Page: 1/2

Development Space: GO0D-MAN

Access: <https://www.adoxx.org/live/dashboard-version-2>

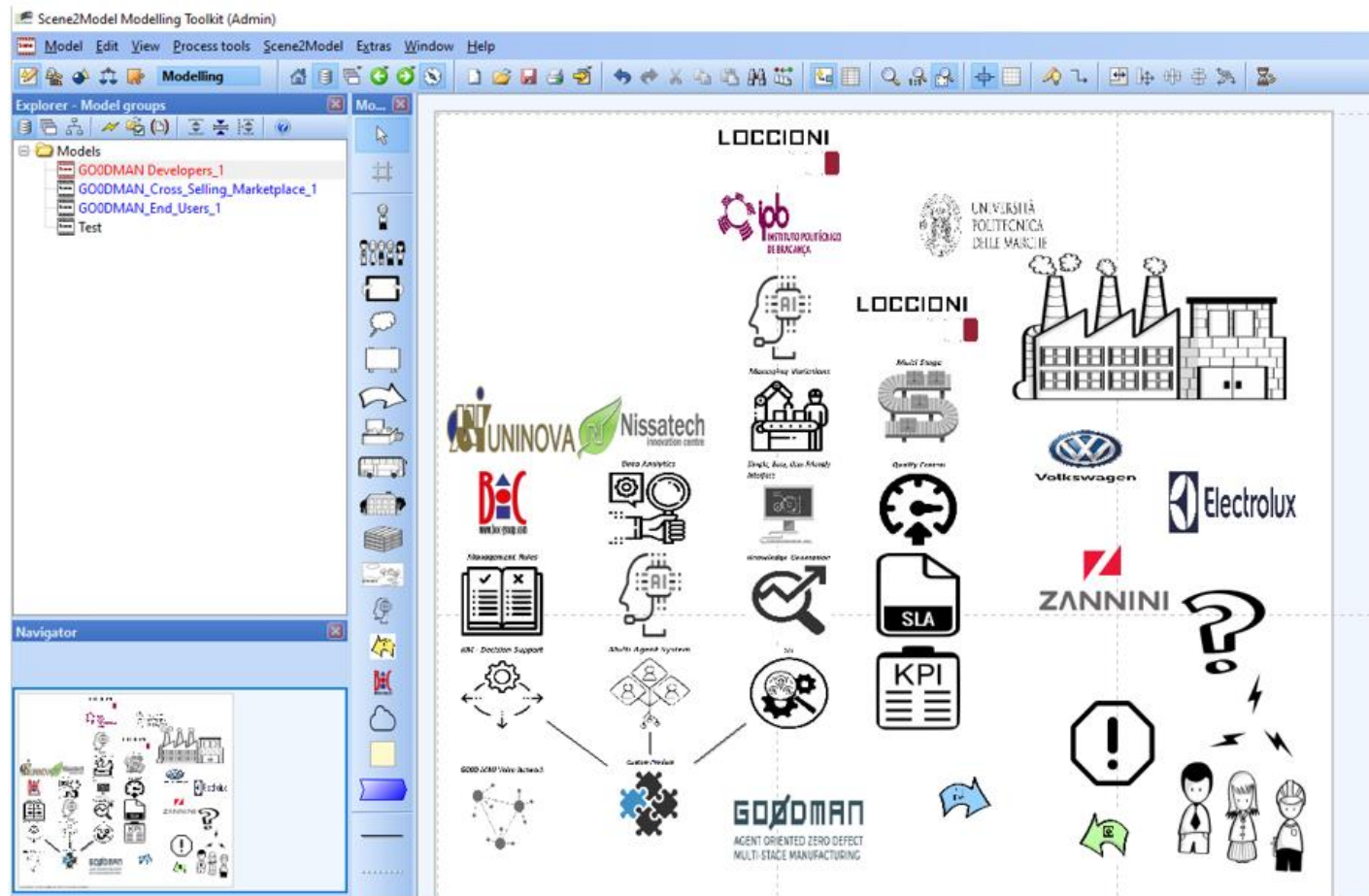
ZDM Knowledge Management Environment for IBPM



Development Space: GO0D-MAN

Access: <https://www.adoxx.org/live/web/go0d-man-european-research-project/zdm-knowledge-management-environment-for-ibpm>

Scene2Model GO0D MAN Scenario



Development Space: GO0D-MAN

Access: https://www.adoxx.org/live/documents/895204/0/GO0DMAN_S2M_Scenario.pdf

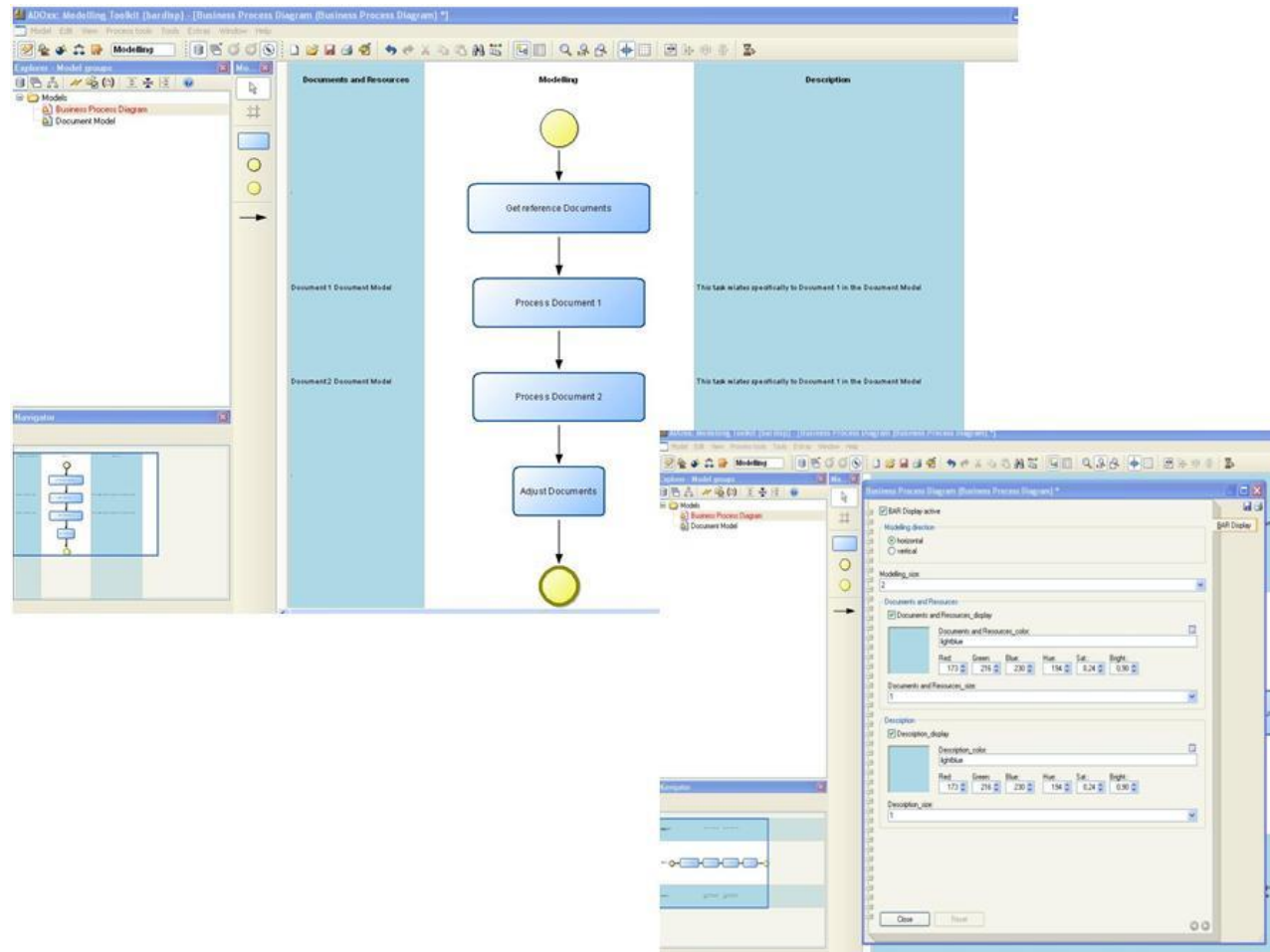
Access Rights



Development Space: LearnPAd

Access: <https://adoxx.org/live/web/learnpad-developer-space/access-rights>

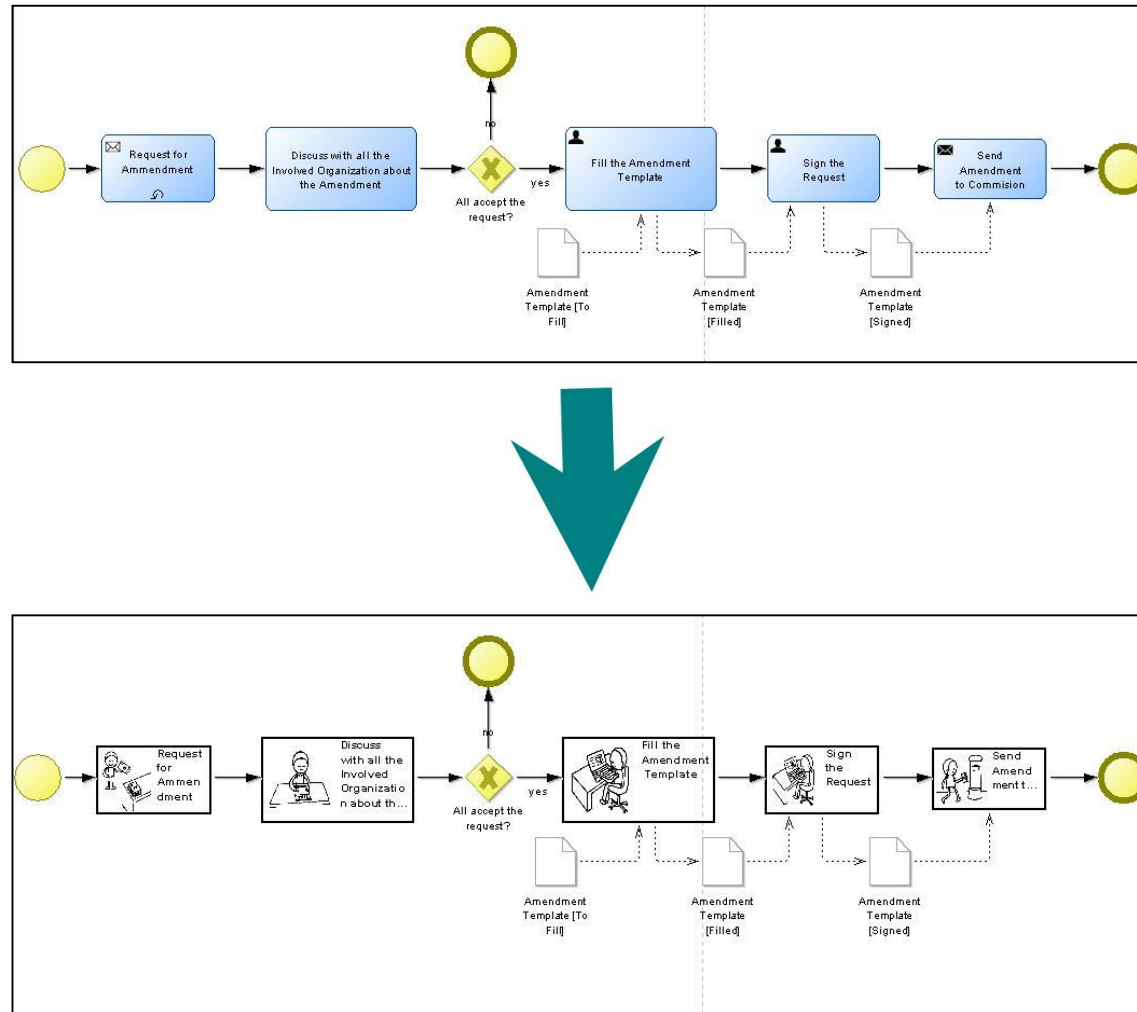
Bar Display View



Development Space: LearnPAD

Access: <https://adoxx.org/live/web/learnpad-developer-space/bar-display-view-learnpad>

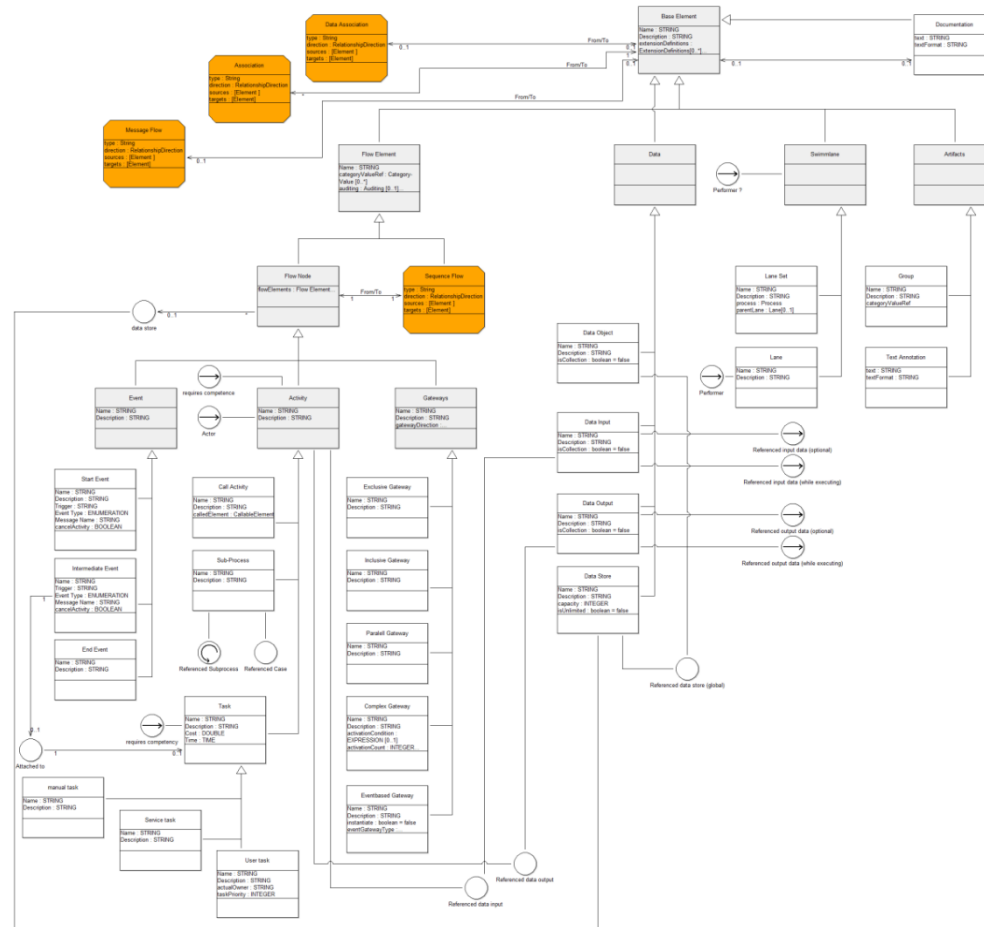
People-like view



Development Space: LearnPAD

Access: <https://adoxx.org/live/web/learnpad-developer-space/people-like-view1>

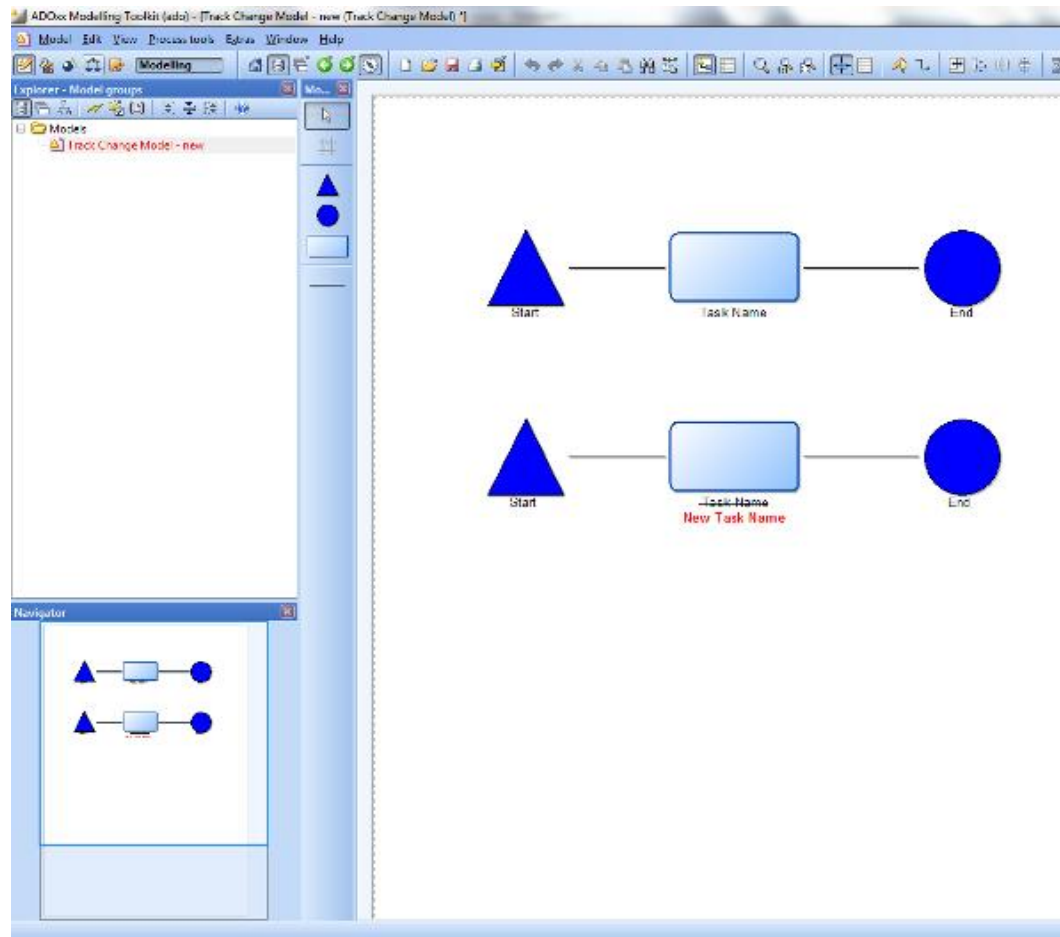
LearnPAD Meta Model



Development Space: LearnPAD

Access: <https://adoxx.org/live/web/learnpad-developer-space/learnpad-meta-models>

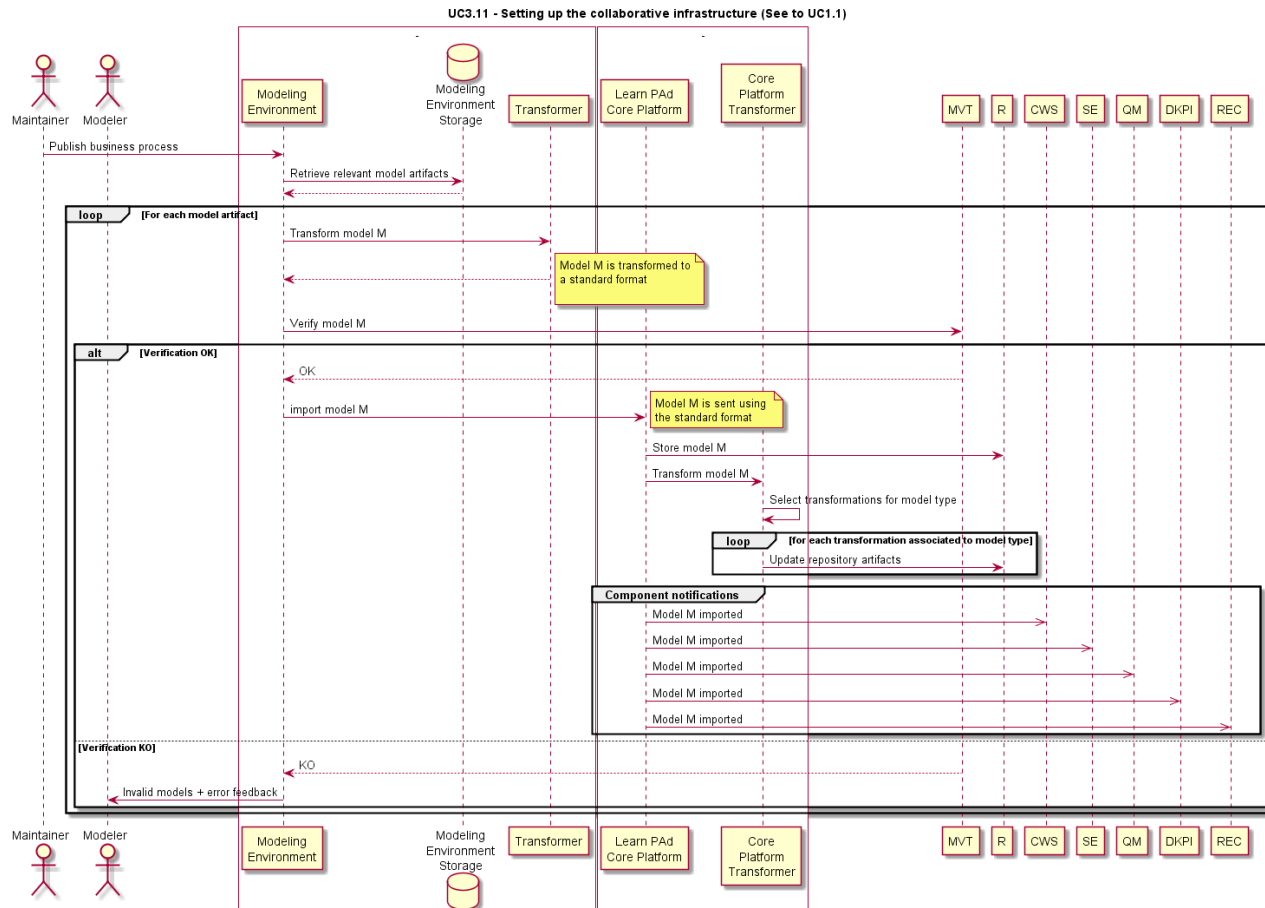
Track Changes



Development Space: LearnPAD

Access: <https://adoxx.org/live/web/learnpad-developer-space/track-changes>

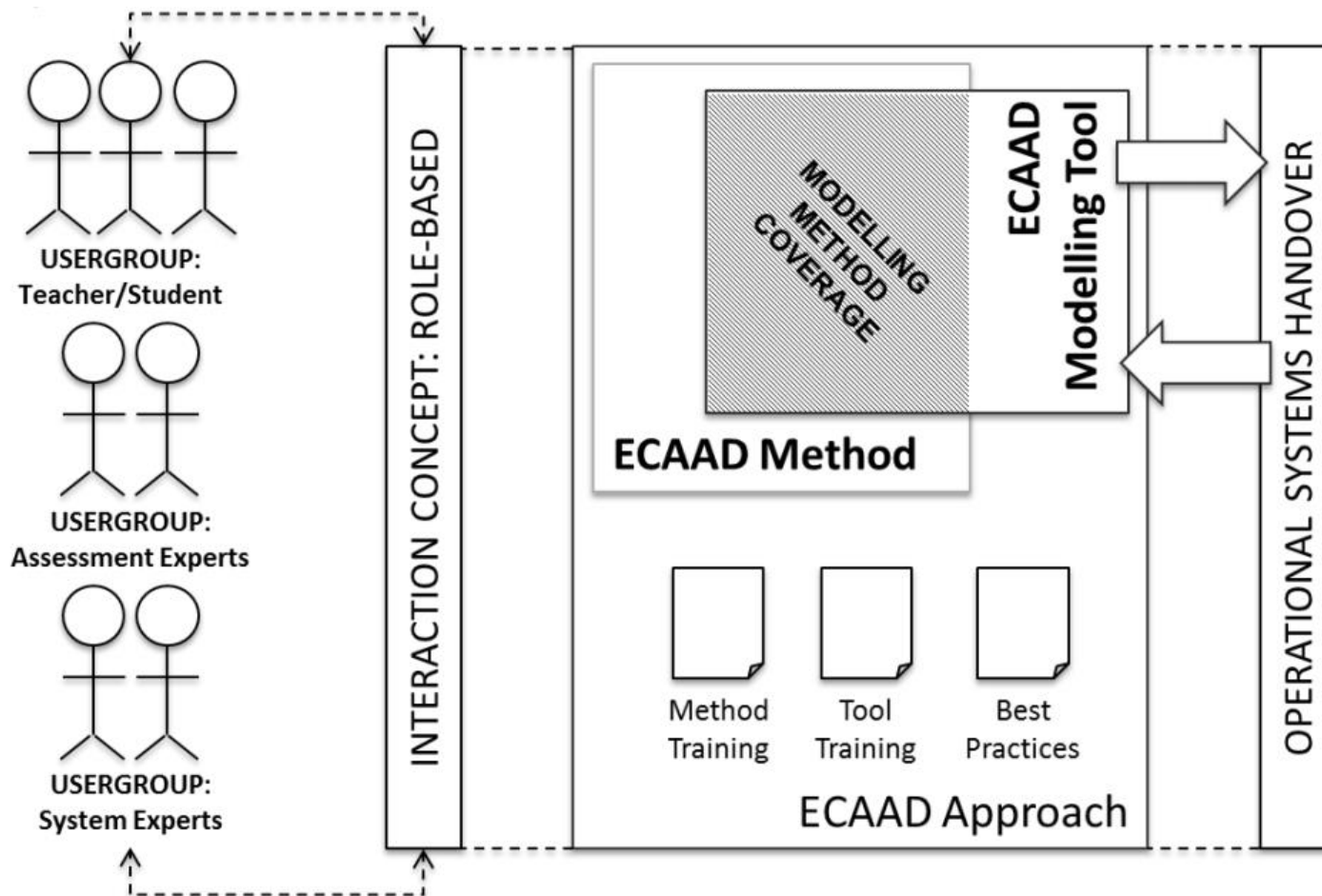
Model Content Import/Export



Development Space: LearnPAD

Access: <https://adoxx.org/live/web/learnpad-developer-space/transformation>

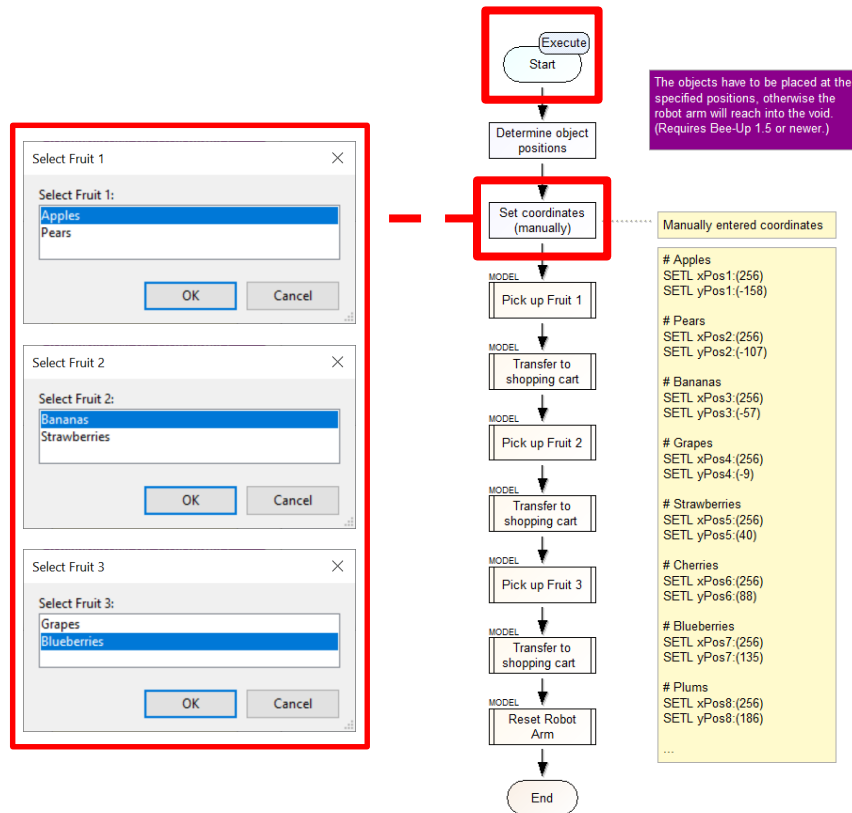
Evidence Centered Activity and Assessment Design (ECAAD)



Development Space: NEXT-TELL

Access: <https://adoxx.org/live/web/next-tell-developer-space/ecaad-v3>

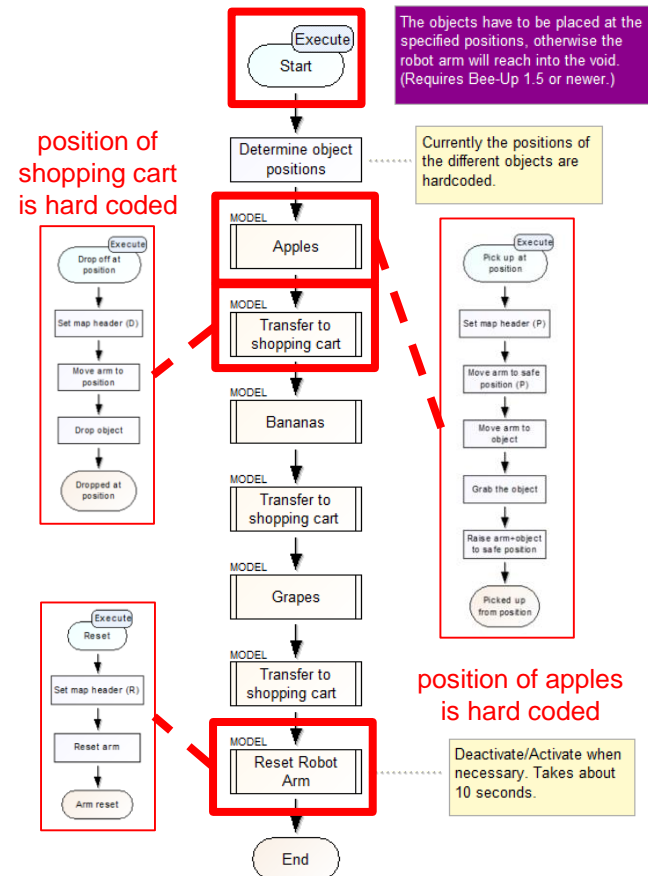
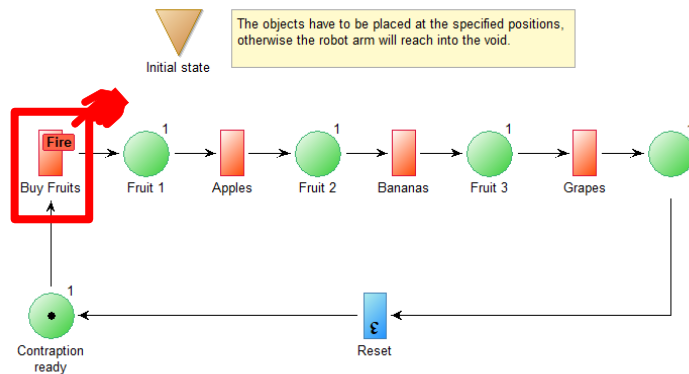
Model-based operation of Robots



Development Space: ComplAI

Access: <https://adoxx.org/live/web/complai/downloads>

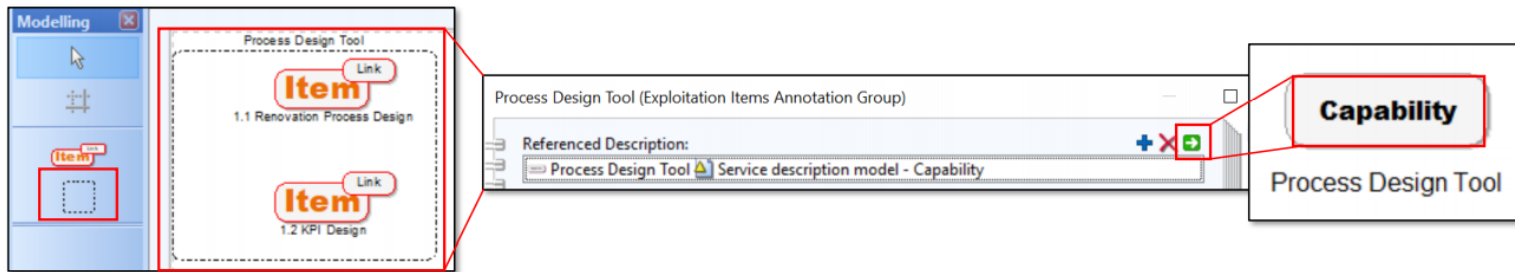
Workflow Bindings



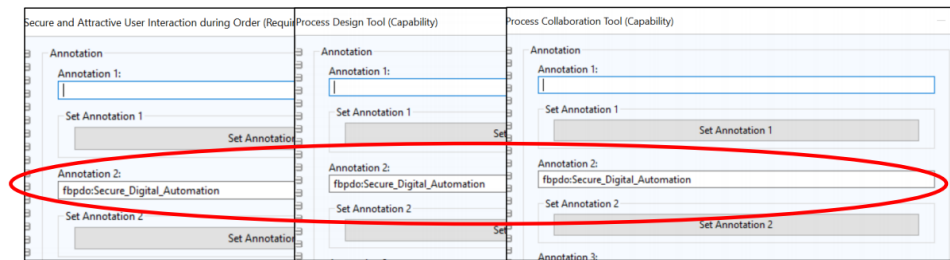
Development Space: ComplAI

Access: <https://adoxx.org/live/web/complai/downloads>

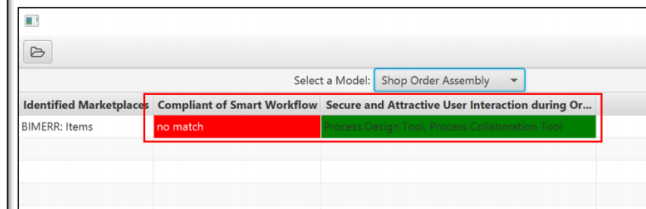
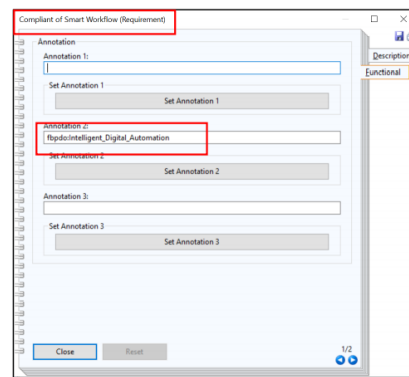
Semantic Matching



Match



No Match



Development Space: Change2Twin

Access: <https://adoxx.org/live/web/change2twin/downloads>

Thanks for your attention!

