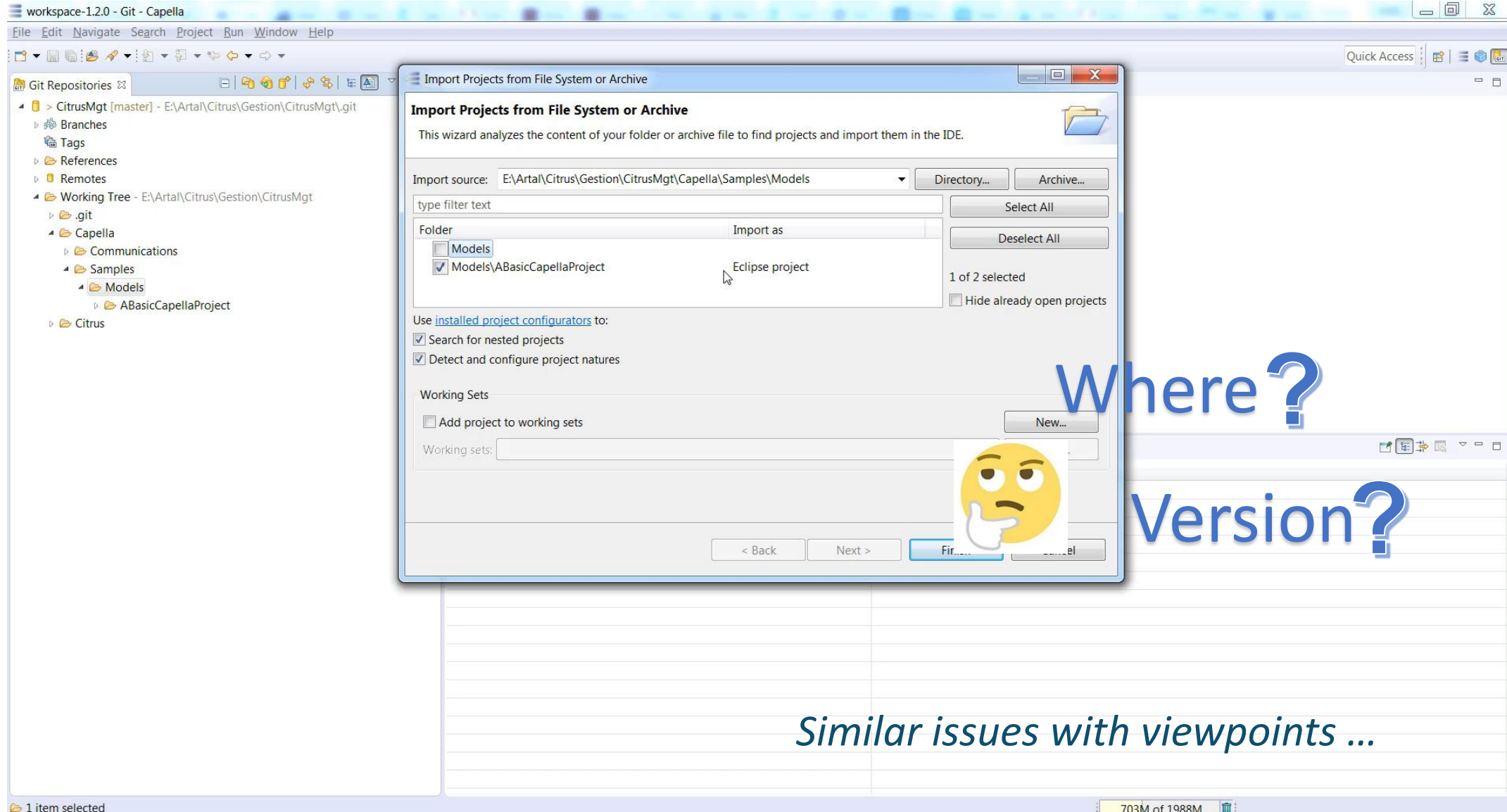




Yuzu  
*The Capella Assets Manager* 

*Ever been in this situation like this?*



workspace-1.2.0 - Git - Capella

File Edit Navigate Search Project Run Window Help

Git Repositories

- CitrusMgt [master] - E:\Artal\Citrus\Gestion\CitrusMgt\git
  - Branches
  - Tags
  - References
  - Remotes
  - Working Tree - E:\Artal\Citrus\Gestion\CitrusMgt
    - .git
    - Capella
      - Communications
      - Samples
        - Models
          - ABasicCapellaProject
      - Citrus

Import Projects from File System or Archive

Import Projects from File System or Archive

This wizard analyzes the content of your folder or archive file to find projects and import them in the IDE.

Import source: E:\Artal\Citrus\Gestion\CitrusMgt\Capella\Samples\Models Directory... Archive...

type filter text

Folder	Import as
<input type="checkbox"/> Models	
<input checked="" type="checkbox"/> Models\ABasicCapellaProject	Eclipse project

Select All

Deselect All

1 of 2 selected

Hide already open projects

Use installed project configurators to:

- Search for nested projects
- Detect and configure project natures

Working Sets

Add project to working sets

Working sets:

New...

< Back Next > Finish Cancel

Where?

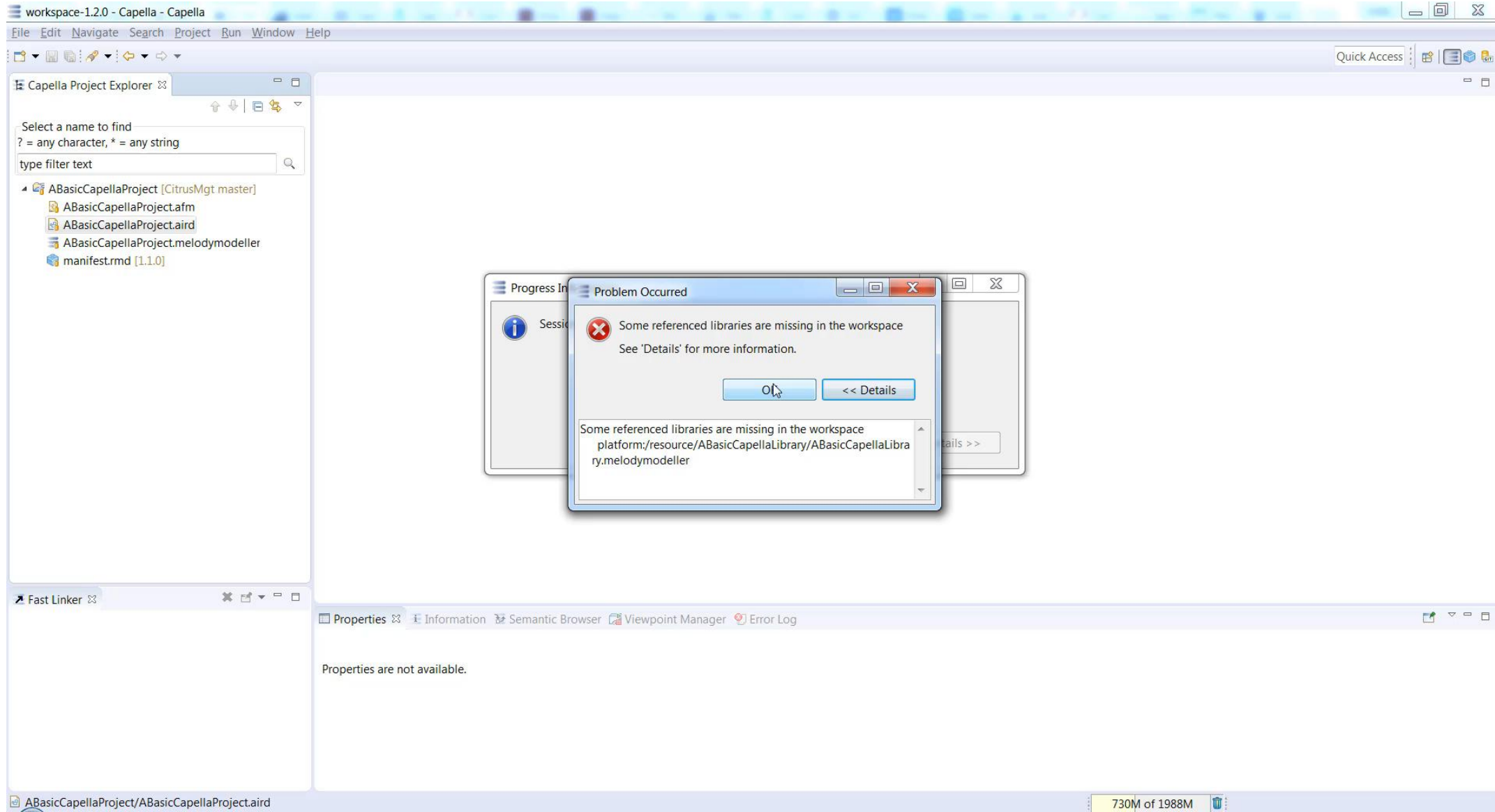
Version?

1 item selected

703M of 1988M

*Similar issues with viewpoints ...*

*Hopefully, the project has been managed with Yuzu!*



The screenshot shows an IDE window titled "workspace-1.2.0 - Capella - Capella". The "Capella Project Explorer" on the left displays a project structure for "ABasicCapellaProject [CitrusMgt master]" containing files: "ABasicCapellaProject.afm", "ABasicCapellaProject.aird", "ABasicCapellaProject.melodymodeller", and "manifest.rmd [1.1.0]". A "Problem Occurred" dialog box is open in the center, displaying the following text:

**Problem Occurred**

Some referenced libraries are missing in the workspace  
See 'Details' for more information.

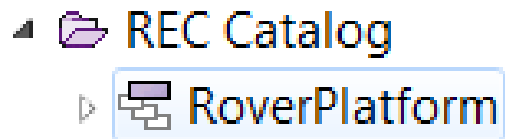
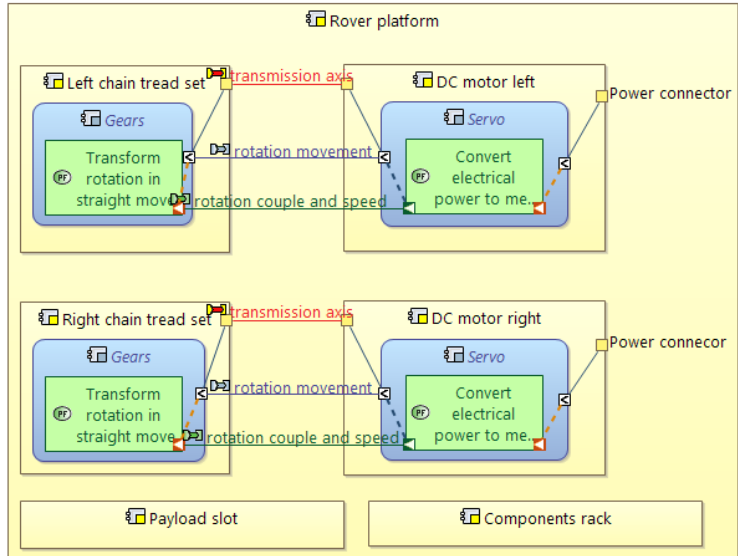
Buttons: **OK**, **<< Details**

Details text (visible in a scrollable area):

```
Some referenced libraries are missing in the workspace
platform/resource/ABasicCapellaLibrary/ABasicCapellaLibra
ry.melodymodeller
```

The IDE interface also shows a "Fast Linker" panel at the bottom left and a "Properties" panel at the bottom right with the message "Properties are not available." The system tray at the bottom right indicates "730M of 1988M" memory usage.

## Building Blocks library



Reusable Element Collection

Instantiate

Synchronize

## Project A

RoverPlatform [RoverPlatform]

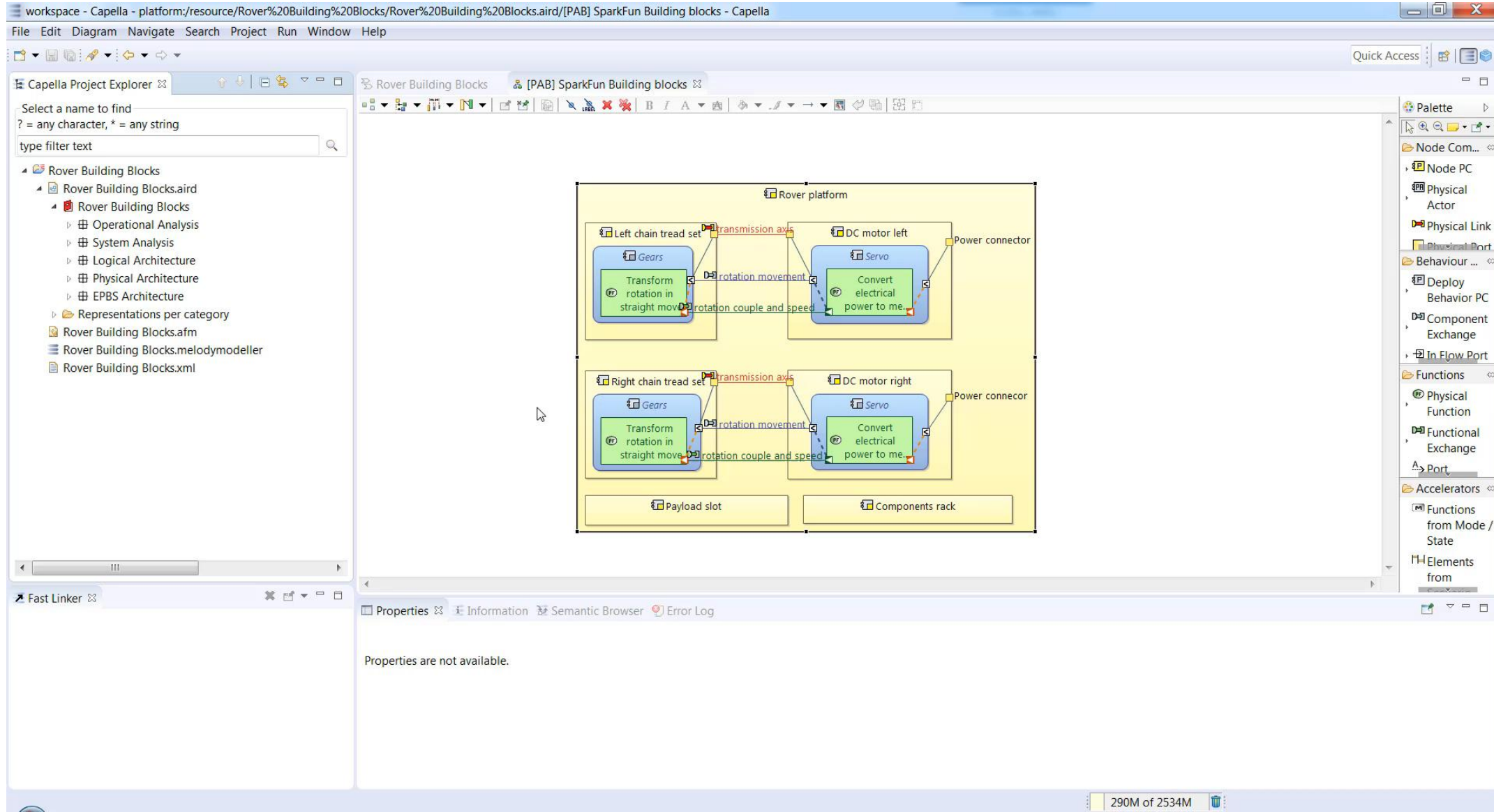
RePLica #1  
RePLica #2

## Project B

RoverPlatform [RoverPlatform]

RePLica #1

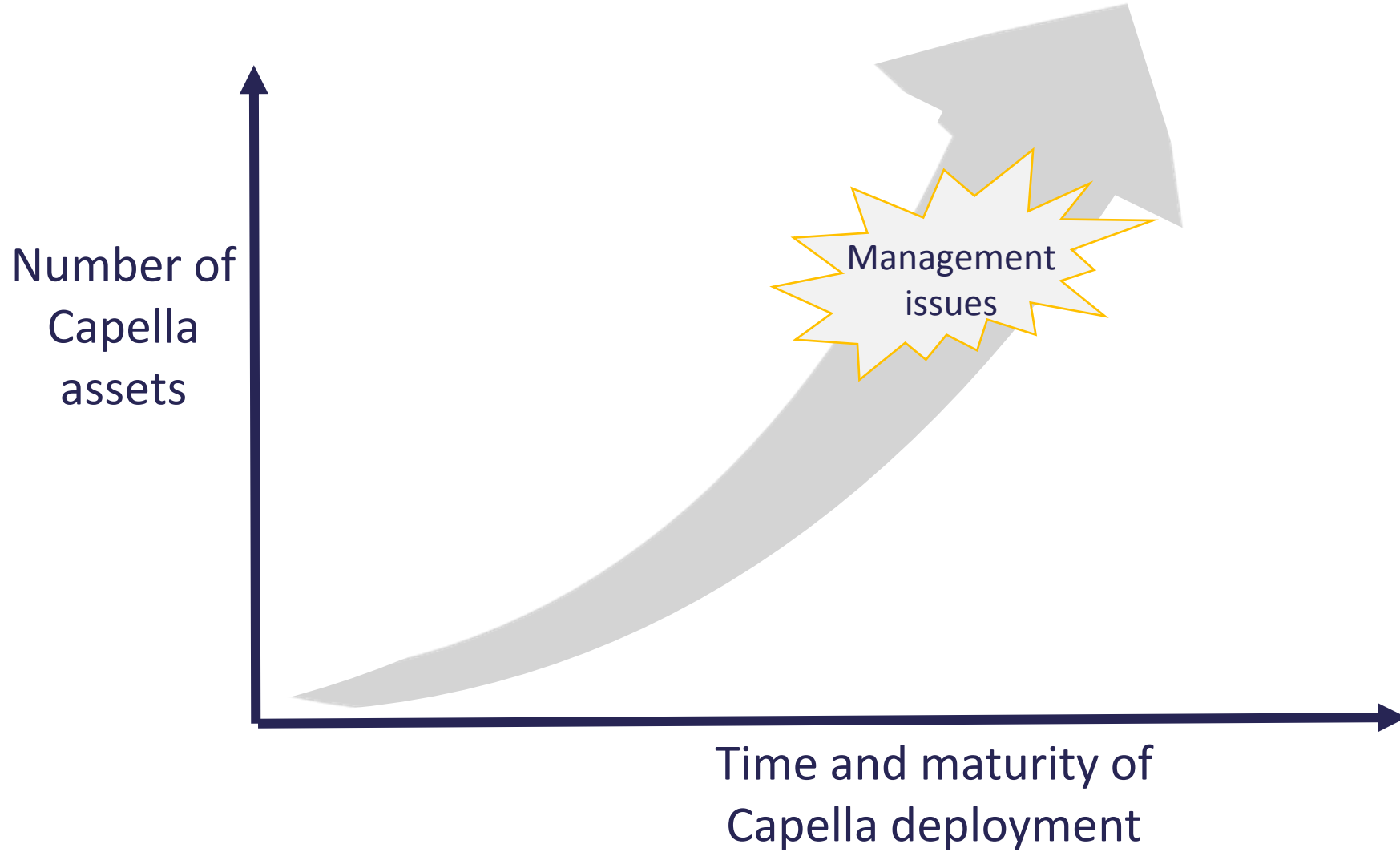
## One REC - One library

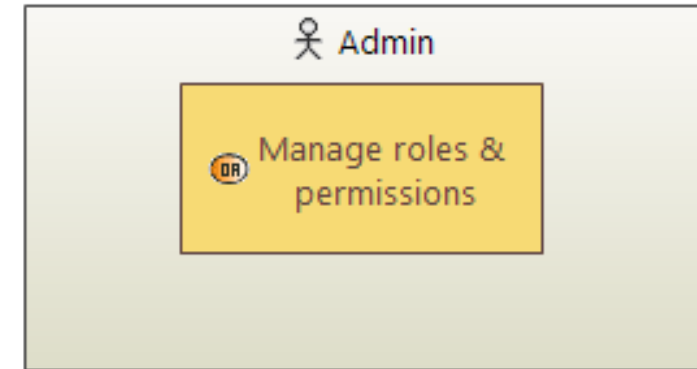
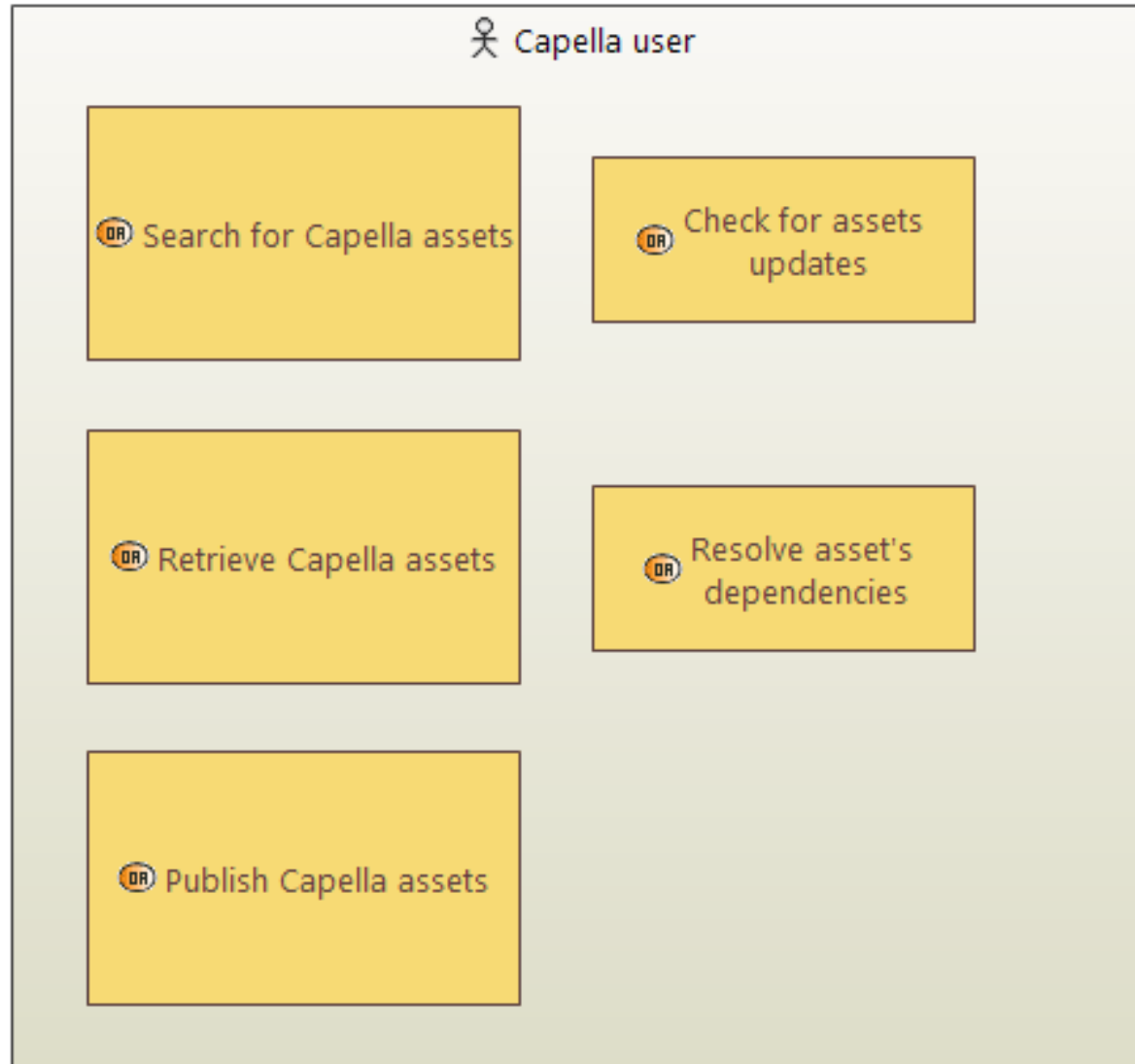


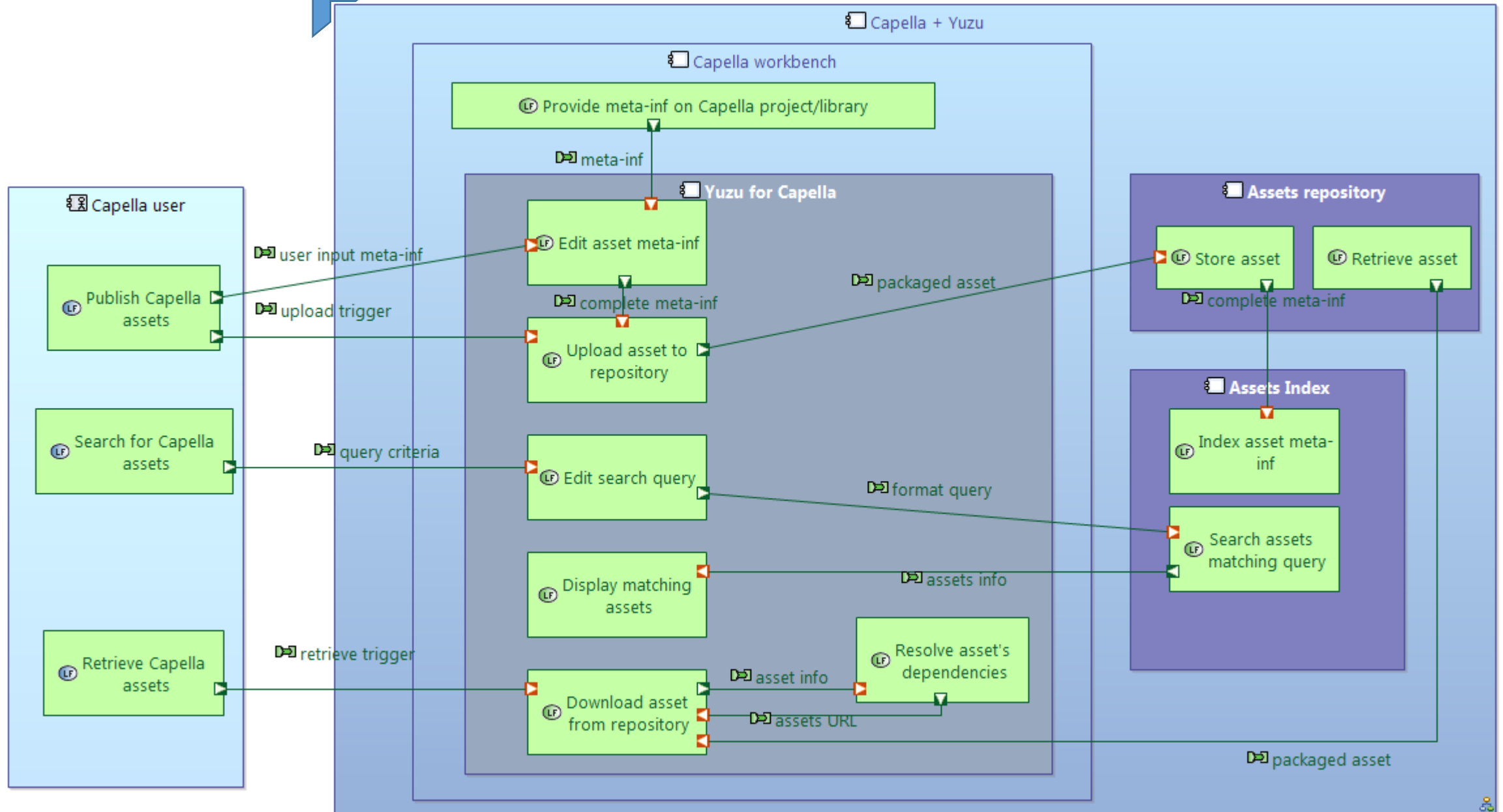
The screenshot displays the Capella software interface with the following components:

- Workspace:** workspace - Capella - platform:/resource/Rover%20Building%20Blocks/Rover%20Building%20Blocks.aird/[PAB] SparkFun Building blocks - Capella
- Menu:** File Edit Diagram Navigate Search Project Run Window Help
- Capella Project Explorer:**
  - Select a name to find
  - ? = any character, \* = any string
  - type filter text
  - Rover Building Blocks
    - Rover Building Blocks.aird
      - Rover Building Blocks
        - Operational Analysis
        - System Analysis
        - Logical Architecture
        - Physical Architecture
        - EPBS Architecture
        - Representations per category
      - Rover Building Blocks.afm
      - Rover Building Blocks.melodymodeller
      - Rover Building Blocks.xml

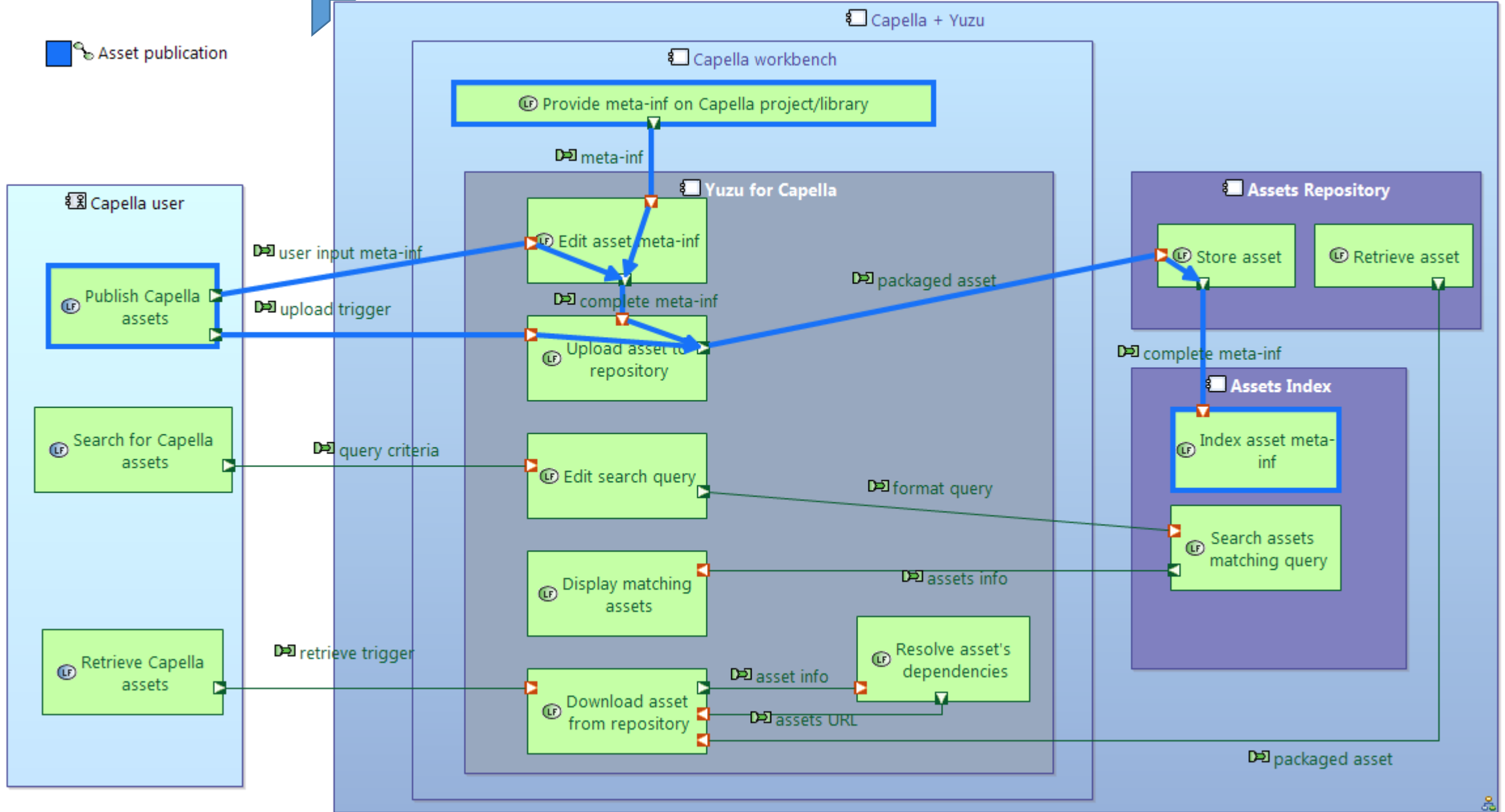
- Diagram:** Rover platform
- Left chain tread set
  - Gears
    - Transform rotation in straight move
  - transmission axis
  - rotation movement
  - rotation couple and speed
- DC motor left
  - Servo
    - Convert electrical power to me...
  - Power connector
- Right chain tread set
  - Gears
    - Transform rotation in straight move
  - transmission axis
  - rotation movement
  - rotation couple and speed
- DC motor right
  - Servo
    - Convert electrical power to me...
  - Power connector
- Payload slot
- Components rack
- Palette:**
- Node Com...
- Node PC
- Physical Actor
- Physical Link
- Physical Port
- Behaviour ...
- Deploy Behavior PC
- Component Exchange
- In Flow Port
- Functions
  - Physical Function
  - Functional Exchange
  - Port
- Accelerators
  - Functions from Mode / State
  - Elements from
- Fast Linker:** Properties Information Semantic Browser Error Log
- Properties:** Properties are not available.
- System Tray:** 290M of 2534M

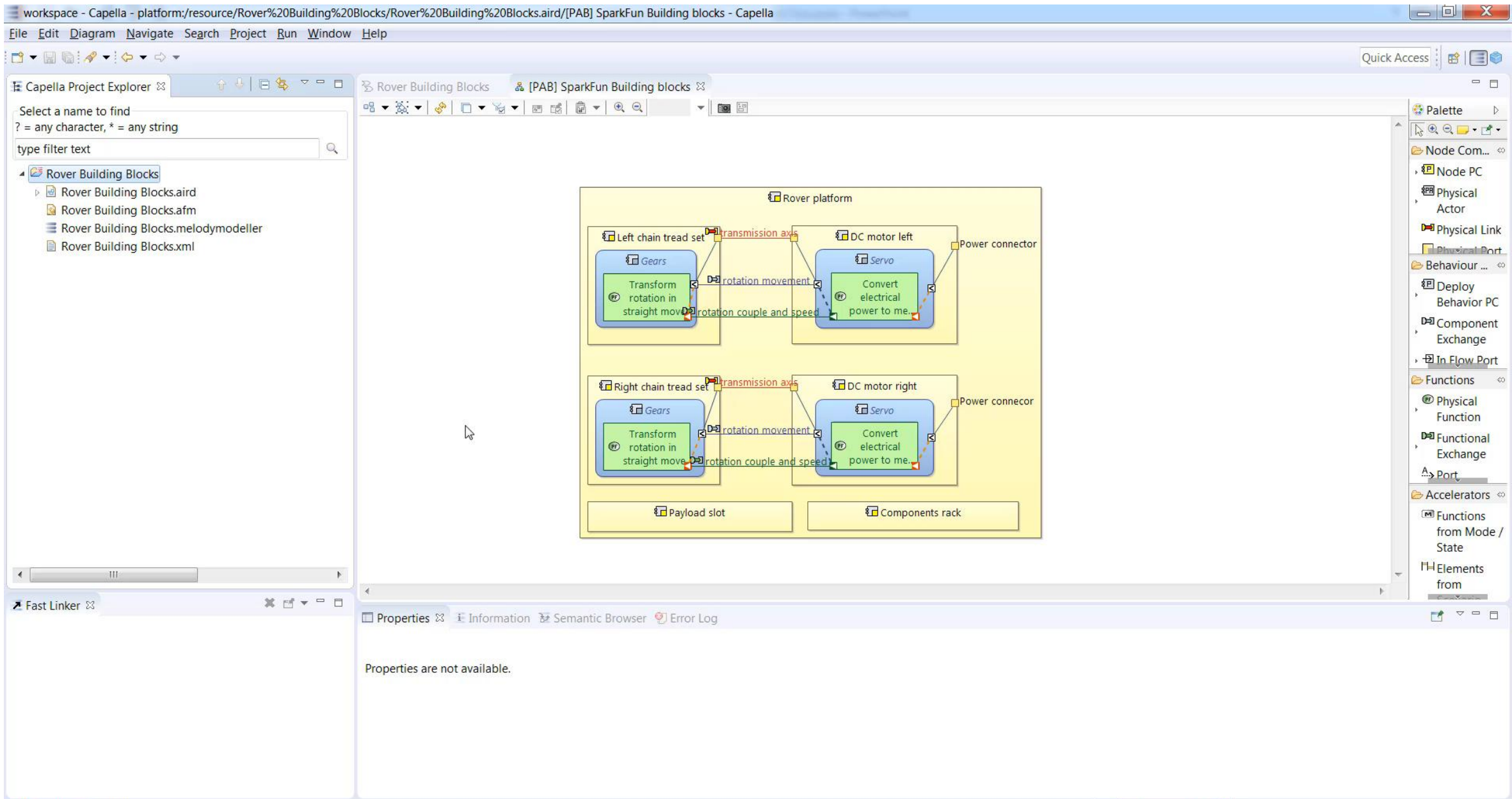




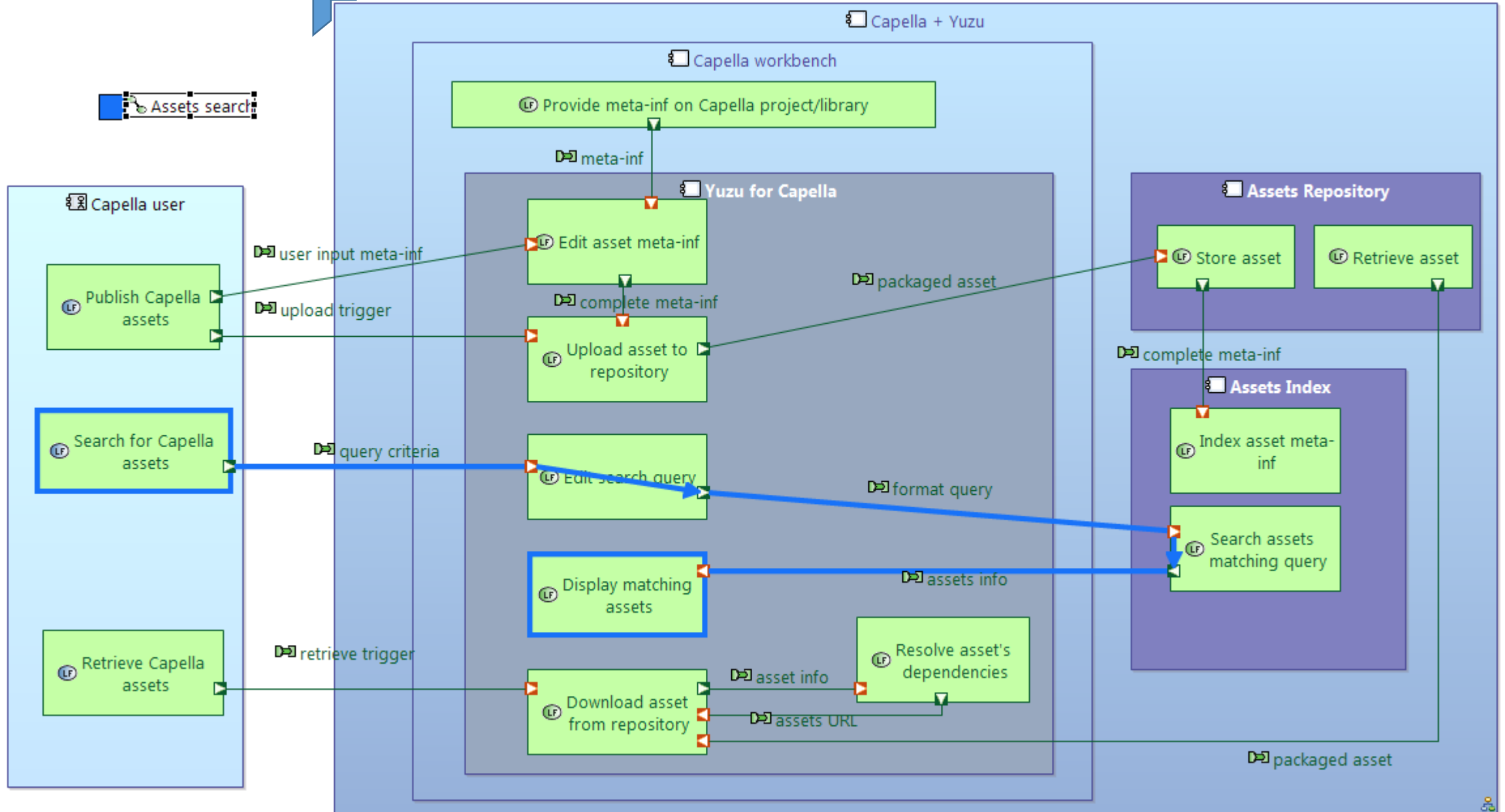








The screenshot displays the Capella IDE interface. The main workspace shows a mechanical diagram of a "Rover platform" (yellow background). It features two identical chains of components: "Left chain tread set" and "Right chain tread set". Each chain includes a "Gears" block (containing "Transform rotation in straight move"), a "transmission axis", and a "DC motor" block (containing "Servo" and "Convert electrical power to me."). The motors are connected to "Power connector" blocks. The diagram also includes "Payload slot" and "Components rack" blocks at the bottom. The Capella Project Explorer on the left shows the project structure for "Rover Building Blocks". The bottom status bar indicates "Properties are not available." and the system tray shows "453M of 2534M".



workspace-1.2.0 - Assets - null - Capella

File Edit Navigate Search Project Run Window Help

Quick Access

Queries

	Favorite	Name
1	<input checked="" type="checkbox"/>	My assets

My assets

Query: My assets capella

Query

Author  
viaud

Default

- Name
- Version
- Short Description
- Description
- From Date
- To Date
- Tags

Results (29/29)

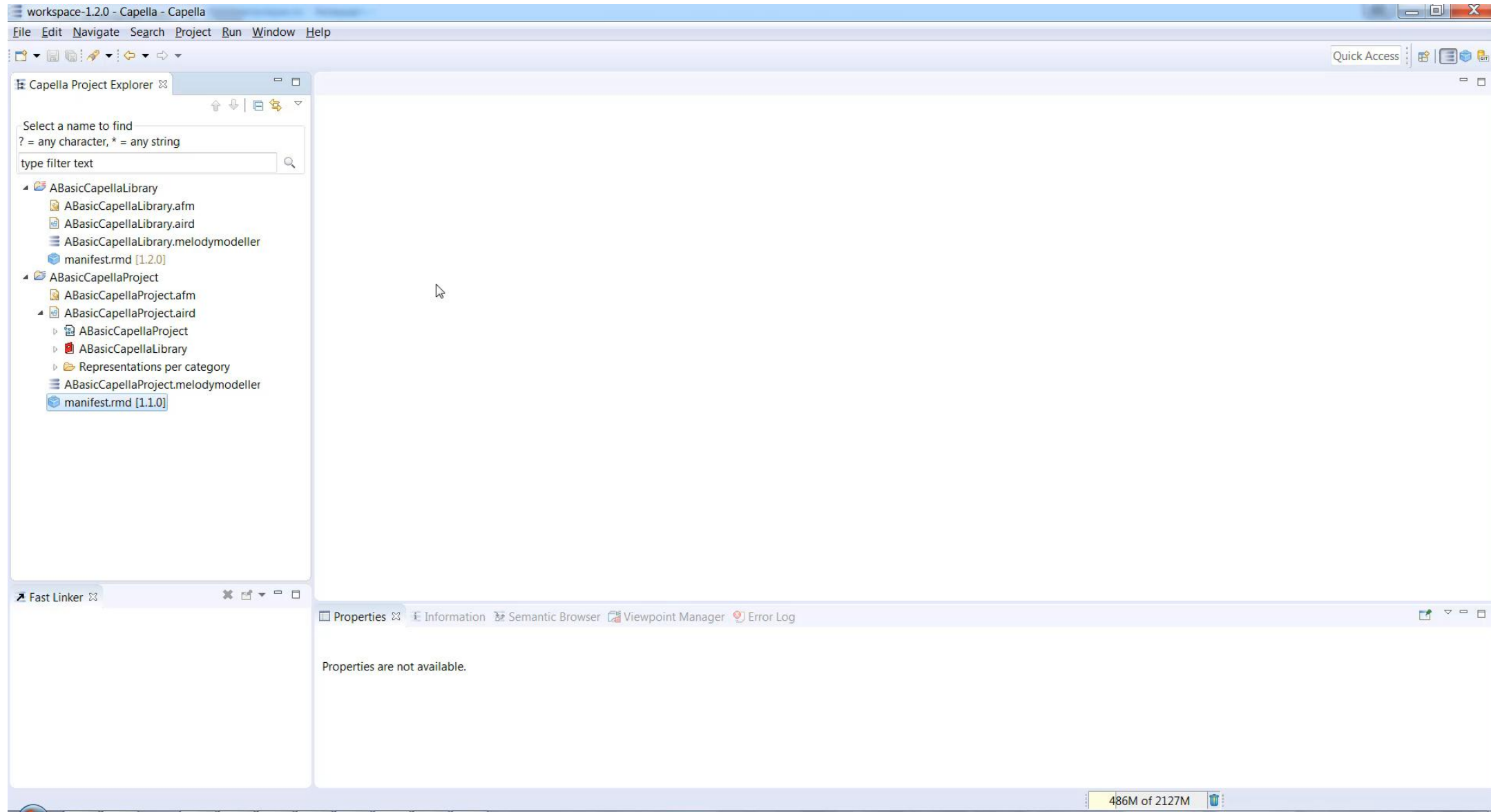
	Name	Version	S Description	Description	Date	Tags	Author	OA Count	SA Count	LA Count	PA Count
1	▲ <b>ABasicCapellaLibrary [5]</b>										
2	ABasicCapellaLibrary	1.1.0	A basic example for Yu...	Only defines a Pro...	Wed Feb 14 16:27:...	[Yuzu, Demo]	viaud	0	0	0	0
3	ABasicCapellaLibrary	1.0.0	A basic example for Yu...	Only defines a Pro...	Wed Feb 14 15:55:...	[Yuzu, Demo]	viaud	0	0	0	0
4	ABasicCapellaLibrary	1.3.0	A basic example for Yu...	Only defines a Pro...	Wed Feb 14 17:45:...	[Yuzu, Demo]	viaud	0	0	0	0
5	ABasicCapellaLibrary	1.2.0	A basic example for Yu...	Only defines a Pro...	Wed Feb 14 16:58:...	[Yuzu, Demo]	viaud	0	0	0	0
6	ABasicCapellaLibrary	1.4.0	A basic example for Yu...	Only defines a Pro...	Tue Mar 06 15:05:4...	[Yuzu, Demo]	viaud	0	1	0	0
7	▲ <b>ABasicCapellaProject [2]</b>										
8	ABasicCapellaProject	1.0.0	A basic example for Yu...	This project uses a...	Wed Feb 14 15:55:...	[Yuzu, Demo]	viaud	0	0	0	0
9	ABasicCapellaProject	1.1.0	A basic example for Yu...	This project uses a...	Wed Feb 14 17:22:...	[Yuzu, Demo]	viaud	0	0	0	0
10	▲ <b>ABugProject [1]</b>										
11	ABugProject	1.0.0			Wed Feb 14 16:06:...	[]	viaud	0	0	0	0
12	▲ <b>ACapellaLibraryUsingALibrary [1]</b>										
13	ACapellaLibraryUsingALibrary	1.0.0			Wed Feb 14 18:29:...	[Yuzu, Demo]	viaud	1	0	0	0
14	▲ <b>ACapellaProjectUsingTwoLevelsOfLibraries [1]</b>										

Properties

Property	Value

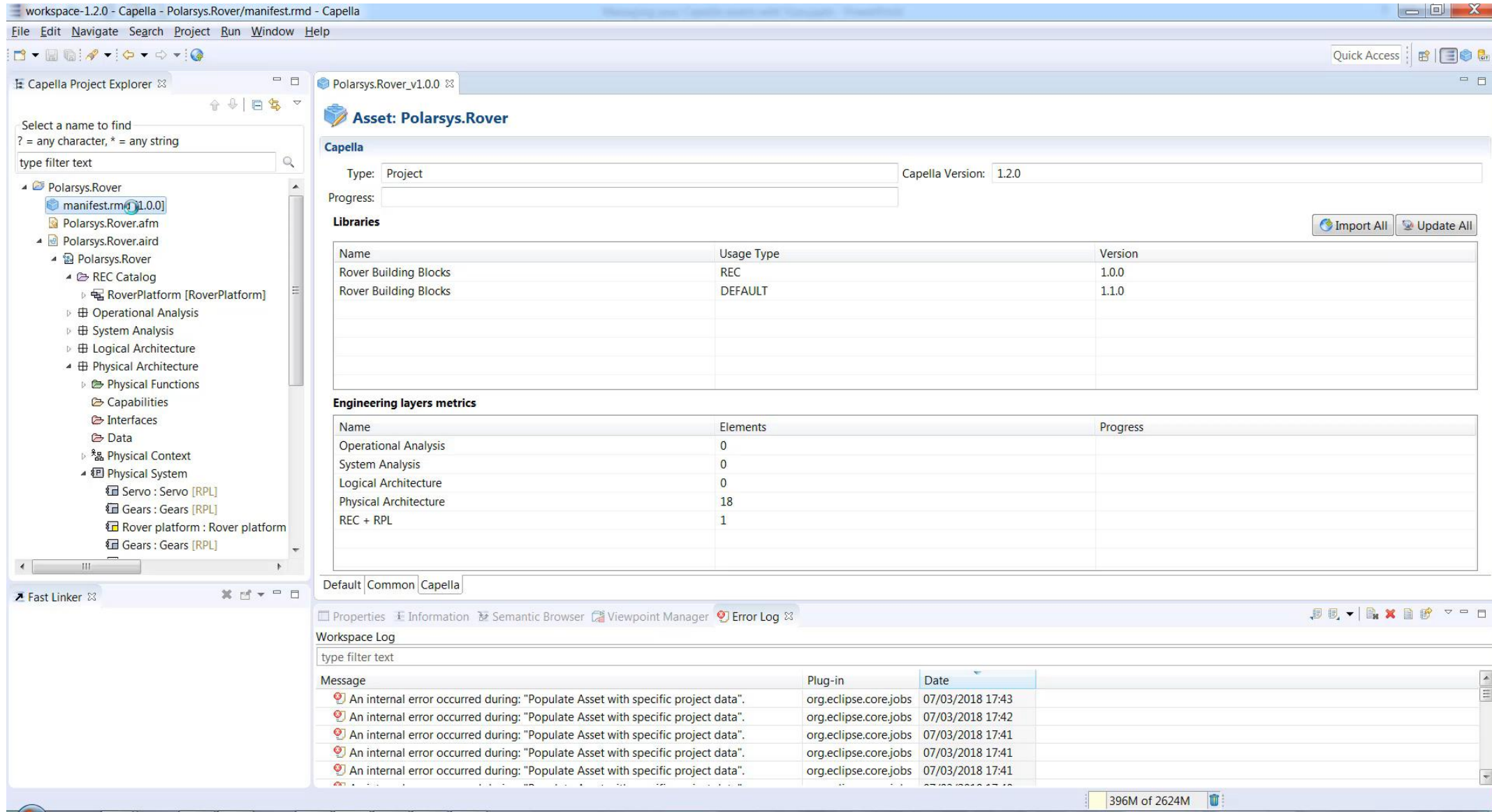
599M of 2299M

*Is there an updated version of the library I use?*

A screenshot of the Capella IDE interface. The title bar reads 'workspace-1.2.0 - Capella - Capella'. The menu bar includes 'File', 'Edit', 'Navigate', 'Search', 'Project', 'Run', 'Window', and 'Help'. The 'Capella Project Explorer' on the left shows a tree view with two main folders: 'ABasicCapellaLibrary' and 'ABasicCapellaProject'. Under 'ABasicCapellaLibrary', there are files: 'ABasicCapellaLibrary.afm', 'ABasicCapellaLibrary.aird', 'ABasicCapellaLibrary.melodymodeller', and 'manifest.rmd [1.2.0]'. Under 'ABasicCapellaProject', there are: 'ABasicCapellaProject.afm', 'ABasicCapellaProject.aird', a sub-folder 'ABasicCapellaProject' containing 'ABasicCapellaLibrary' and 'Representations per category', 'ABasicCapellaProject.melodymodeller', and 'manifest.rmd [1.1.0]'. The 'Fast Linker' is empty. The 'Properties' view at the bottom right shows 'Properties are not available.' The system tray at the bottom right indicates '486M of 2127M' memory usage.



*Has the REC evolved since the last time I've updated the RPL?*



The screenshot shows the Capella software interface with the following components:

- Capella Project Explorer:** A tree view on the left showing the project structure. The selected item is `Polarsys.Rover_v1.0.0` under `Polarsys.Rover`. The tree includes folders like `Operational Analysis`, `System Analysis`, `Logical Architecture`, `Physical Architecture`, and `Physical System`.
- Asset: Polarsys.Rover:** The main workspace area showing the asset's configuration. It includes a search bar, a `Type: Project` dropdown, and a `Capella Version: 1.2.0` field.
- Libraries Table:** A table listing the libraries used in the project.
 

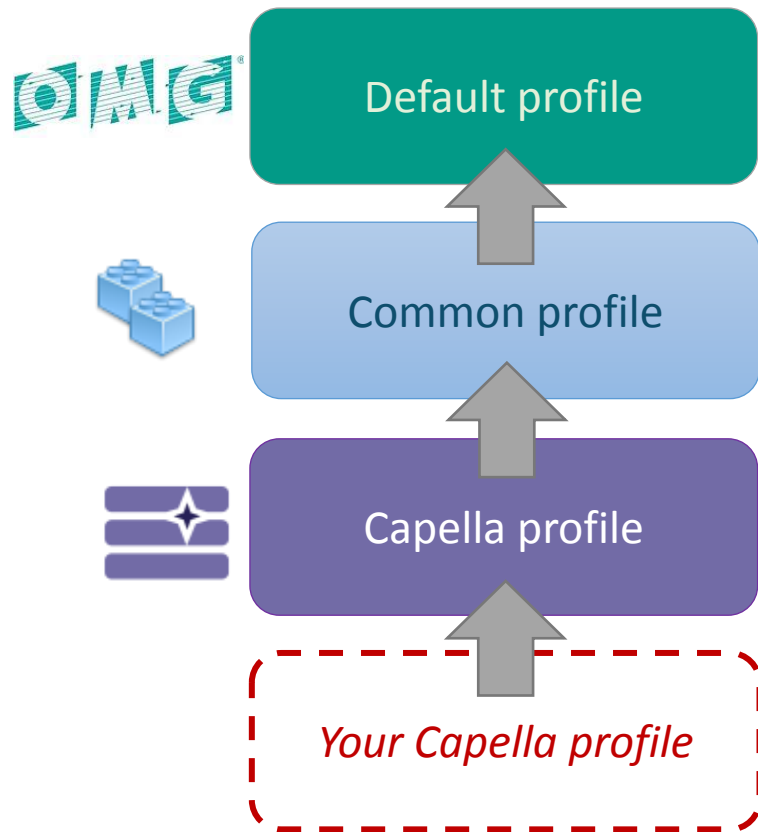
Name	Usage Type	Version
Rover Building Blocks	REC	1.0.0
Rover Building Blocks	DEFAULT	1.1.0
- Engineering layers metrics Table:** A table showing the progress of different engineering layers.
 

Name	Elements	Progress
Operational Analysis	0	
System Analysis	0	
Logical Architecture	0	
Physical Architecture	18	
REC + RPL	1	
- Workspace Log:** A log window at the bottom showing several error messages.
 

Message	Plug-in	Date
An internal error occurred during: "Populate Asset with specific project data".	org.eclipse.core.jobs	07/03/2018 17:43
An internal error occurred during: "Populate Asset with specific project data".	org.eclipse.core.jobs	07/03/2018 17:42
An internal error occurred during: "Populate Asset with specific project data".	org.eclipse.core.jobs	07/03/2018 17:41
An internal error occurred during: "Populate Asset with specific project data".	org.eclipse.core.jobs	07/03/2018 17:41
An internal error occurred during: "Populate Asset with specific project data".	org.eclipse.core.jobs	07/03/2018 17:41

Yuzu supports the **OMG RAS** standard for assets description & packaging.

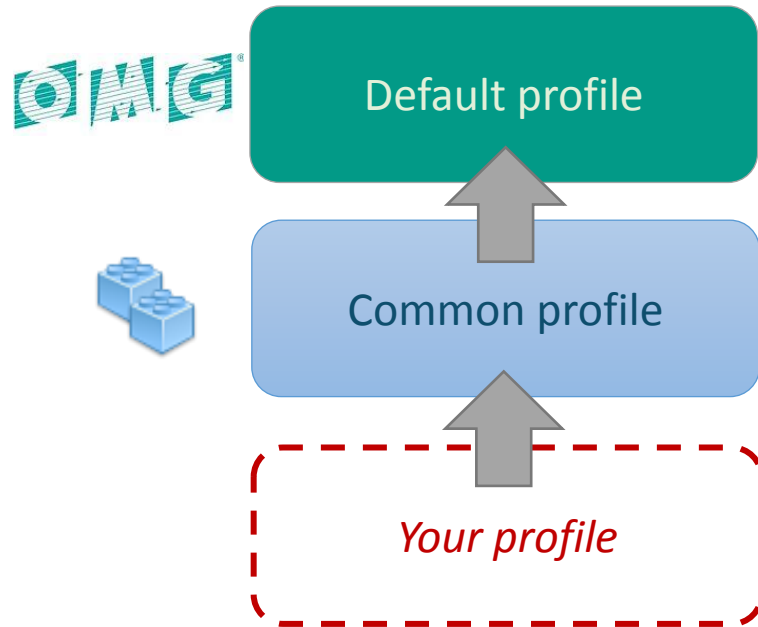
RAS allows to define « profiles » for describing the assets according to business views



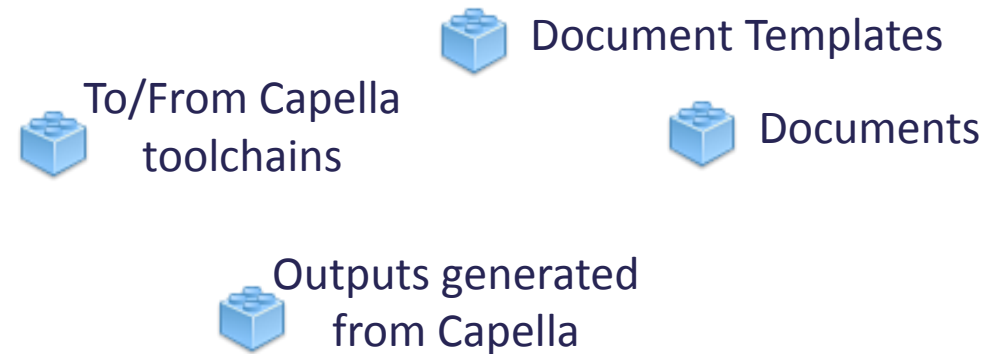
- Artifacts ( $\approx$  files)
- Version, Tags, Use contexts
- ...
- Author / contributors
- Changelog
- ...
- Architecture metrics
- Specific dependencies: library, REC/RPL
- ...
- Your business specifics

Yuzu supports the **OMG RAS** standard for assets description & packaging.

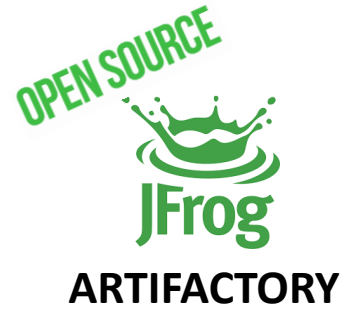
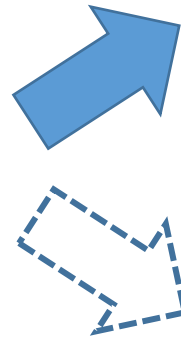
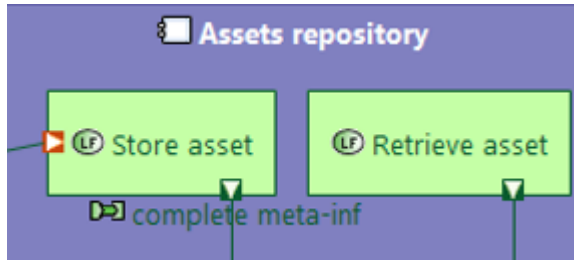
RAS allows to define « profiles » for describing the assets according to business views



Capture specific relationships  
between Capella assets and  
**other types of assets**





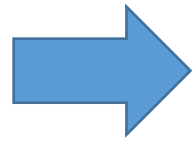
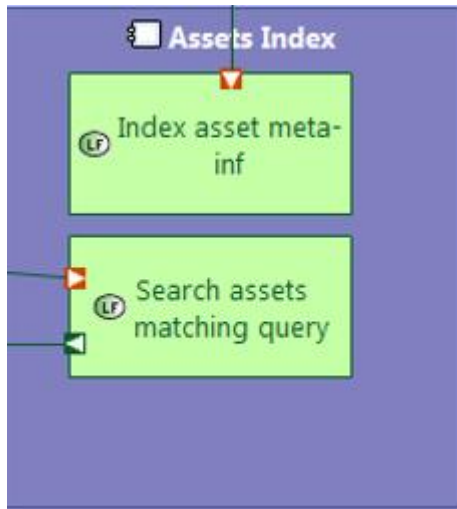


- Access ctrl (users management, groups, permissions, LDAP)
- Local & Remote repository (proxy)
- Mirroring
- High Availability



Full integration with Software Configuration Management

- Publish => commit + tag / push
- Retrieve => pull



OPEN SOURCE



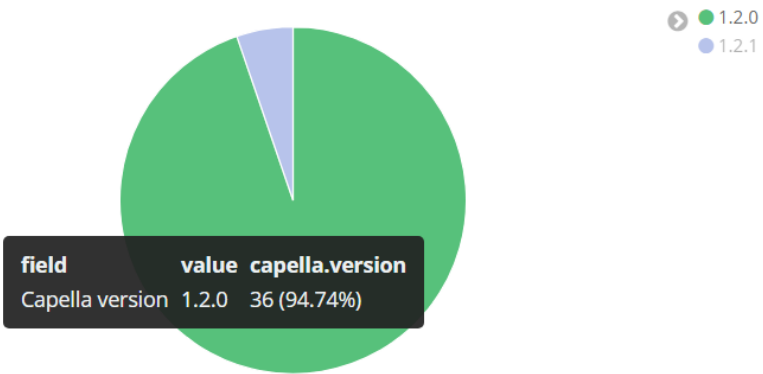
elasticsearch

- Powerful search engine
- Built on big-data technology

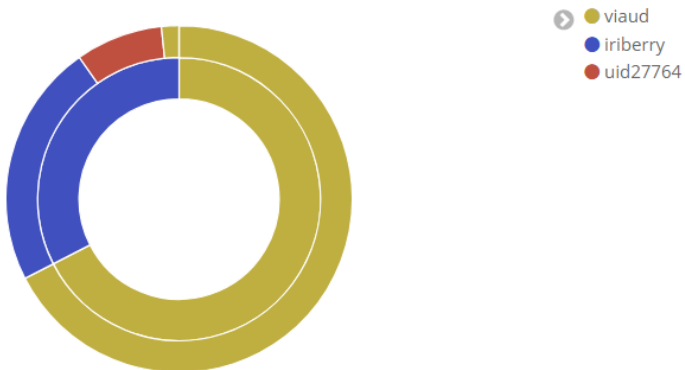
## Build your dashboards based on Capella assets data

- Evolution of Capella metrics over time for one/a set of project/s
- Progress of the deployment of a Capella version

Capella version



Most Prolific



More information on  
<http://capella.artal-group.com>



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INTEGRATION SUPPORT

CAPELLA EXTENSIONS

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# CAPELLA

OPEN SOURCE SOLUTION FOR MODEL-BASED SYSTEMS ENGINEERING