### Advancing Web-Based Modeling Tools with Sirius Web:

An Illustration with SysON

27<sup>th</sup> International Conference on Model Driven Engineering Languages and Systems MODELS 24 22 - 1 Linz



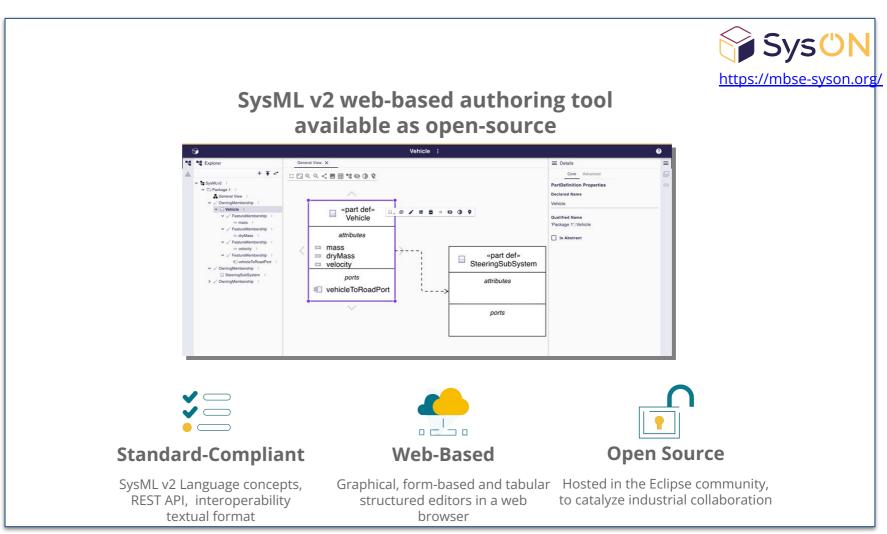


#### EASILY CREATE AND DEPLOY MODERN MODELING TOOLS TO THE CLOUD

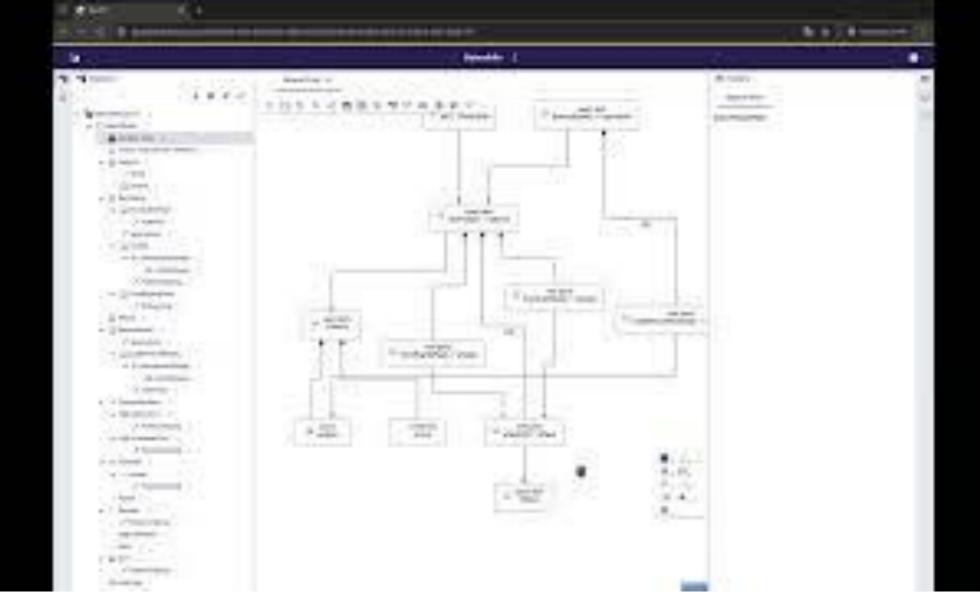


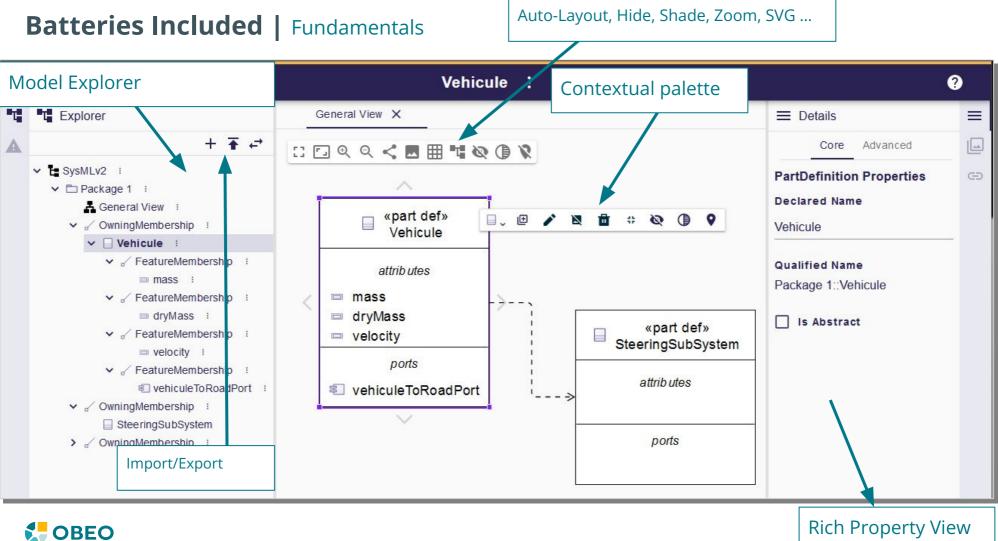


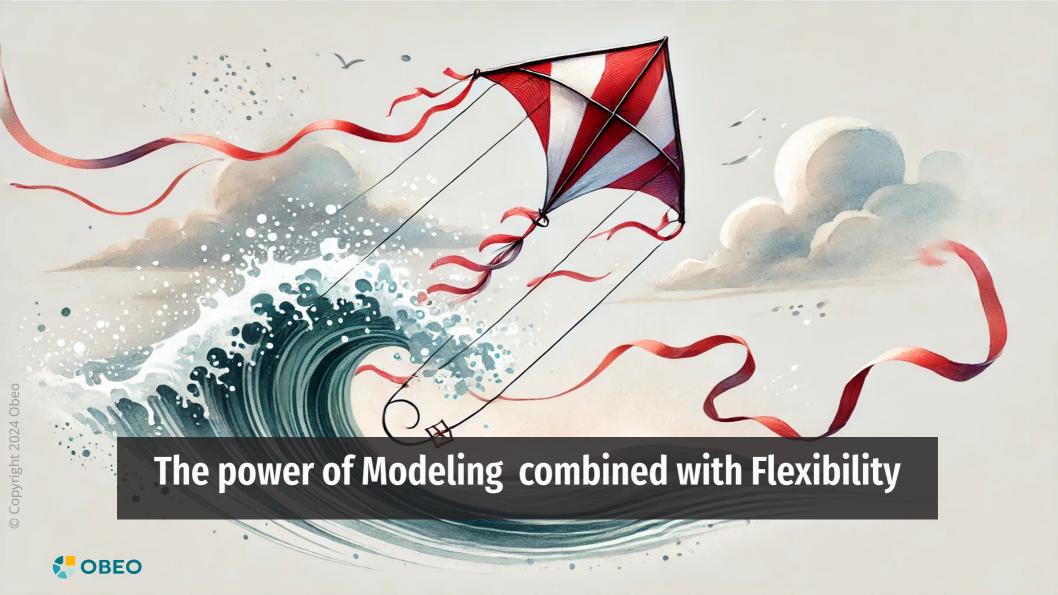
#### **Our Throughline during this Presentation : SysON**











#### The power of Modeling + Flexibility | Fundamentals

"Adapt the tooling to the goal, whatever the metamodel and its structure"

Domain/Ecore model

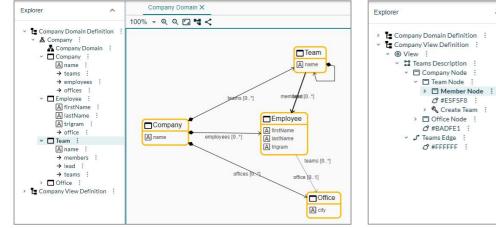
model +

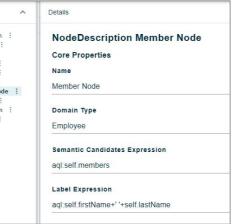
#### Editors specification (View Model)

Modeling Workbench

Obeo

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#### Products Im Mélanie Bats Toulouse ( • Sirius Web **Obeo SmartEA** Stéphane Bégaudeau Stéphane Drapeau Carquefou Pierre-Charles David Hugo Marchadour • Marketing Frédéric Madiot Loredana Chituc

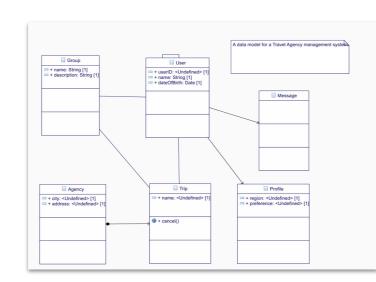


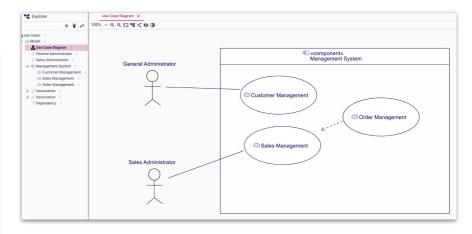
#### **Papyrus UML** | The power of Modeling + Flexibility

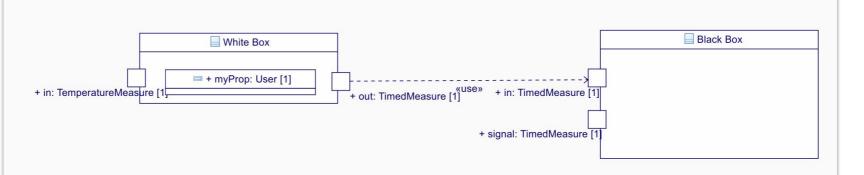
#### UML

UML implementation from Eclipse Standard conformant Supports profiles













#### "Projects" DSL | The power of Modeling + Flexibility

#### Projet Management DSL

Ecore Metamodel Uses Forms + Gantt

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Development	Wed, 13 Decem	ber 2 Sat, 16 Dec	ember 20						
Code Developr	m Wed, 13 Decem	ber 2 Fri, 15 Dece	ember 2023						Code Dev
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Release	Mon, 18 Decem	ber 2 Mon, 18 De	cember 2						
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#### **Guesstimate DSL** | The power of Modeling + Flexibility

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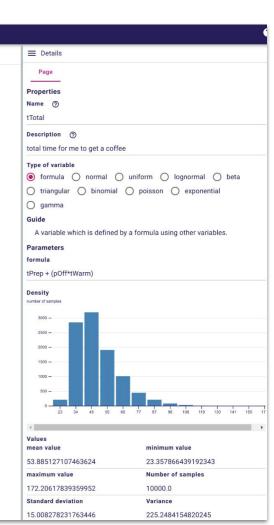
T Explorer



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How long to get my coffee X

how long it takes to get to work

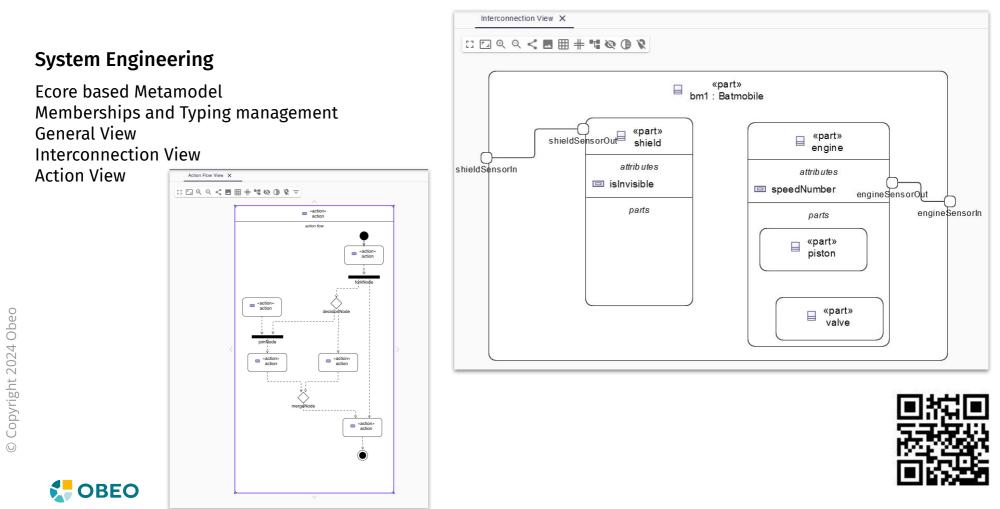


#### **Monte-Carlo Simulations**

Simple Ecore Model Formulas with textual syntax Uses Charts Uses Apache Commons Maths



#### SysMLv2 a. k. a. SysON | The power of Modeling + Flexibility



#### Models in Different Shapes | The power of Modeling + Flexibility



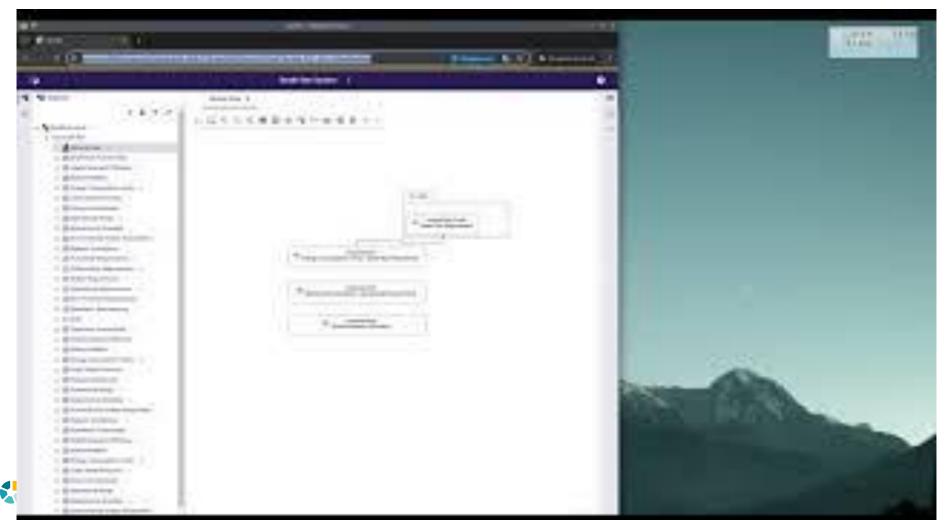


Explorer

## Eased Adoption and User Experience

Obeo

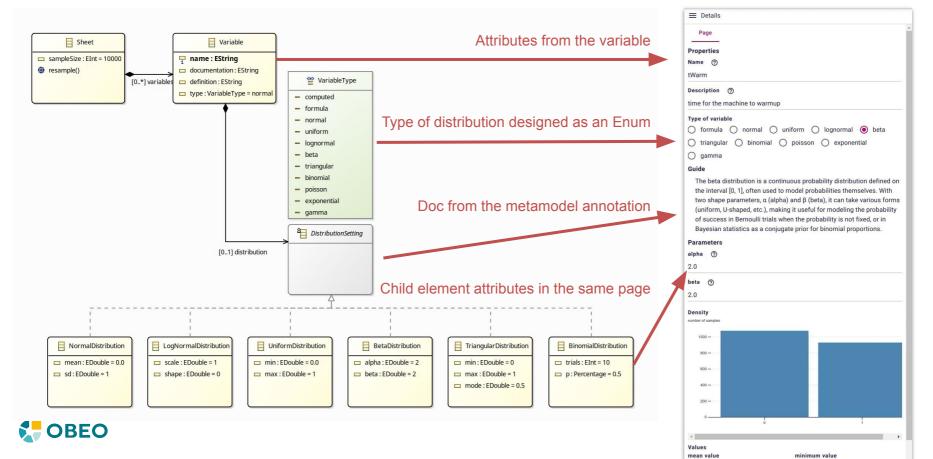
#### **One click Onboarding** | Eased Adoption and User Experience



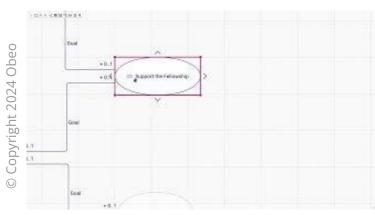
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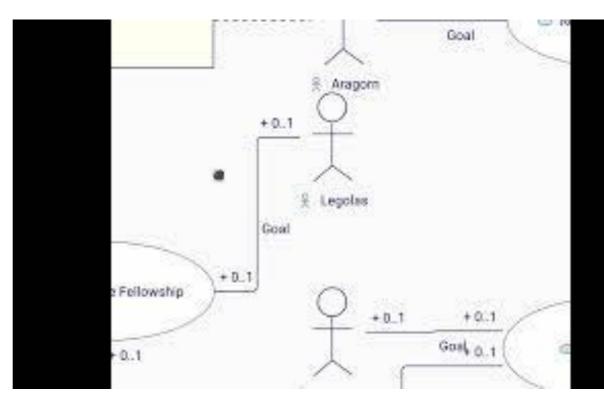
#### **Property Views** | Eased Adoption and User Experience

#### Great by default and 100% customizable through the view model



#### **Rendering Quality** | Eased Adoption and User Experience

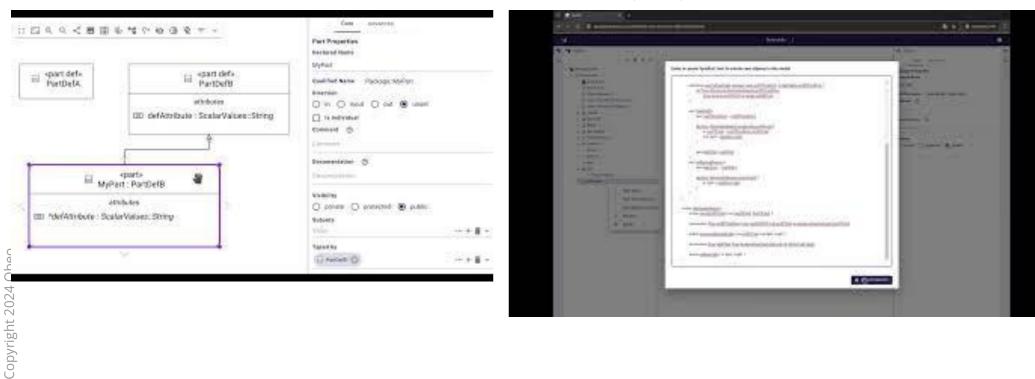




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#### Tailored Text editing | Eased Adoption and User Experience

#### "Smart" label edit

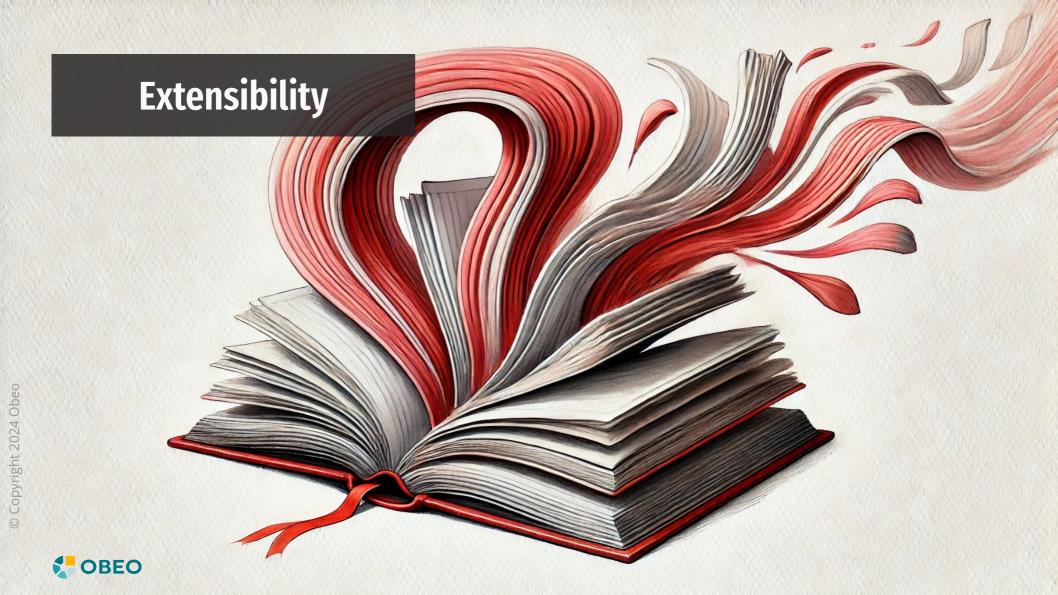


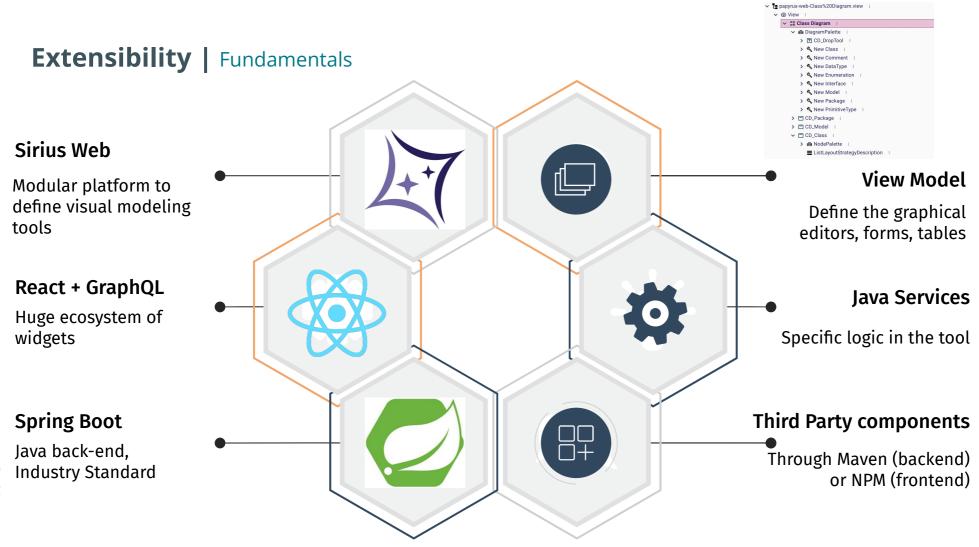
#### Import/export .sysml files. Import elements from sysmlv2 syntax:



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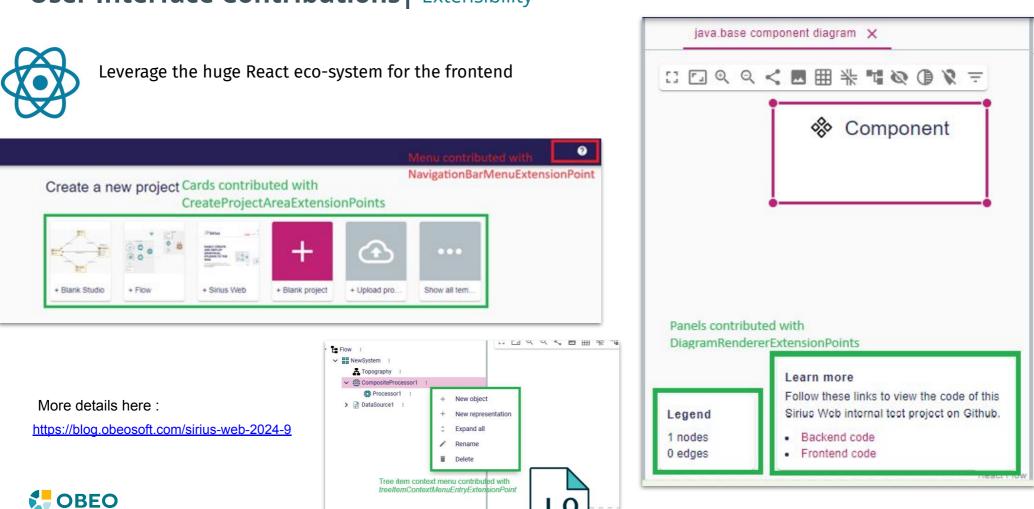




#### Backend Implementations | Extensibility

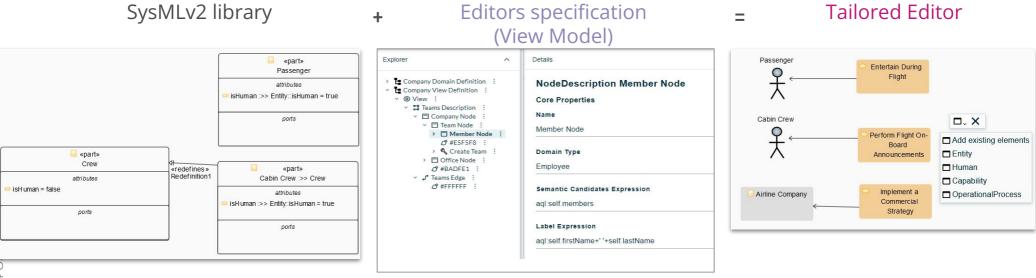






#### User Interface Contributions | Extensibility

#### Model Based | Extensibility

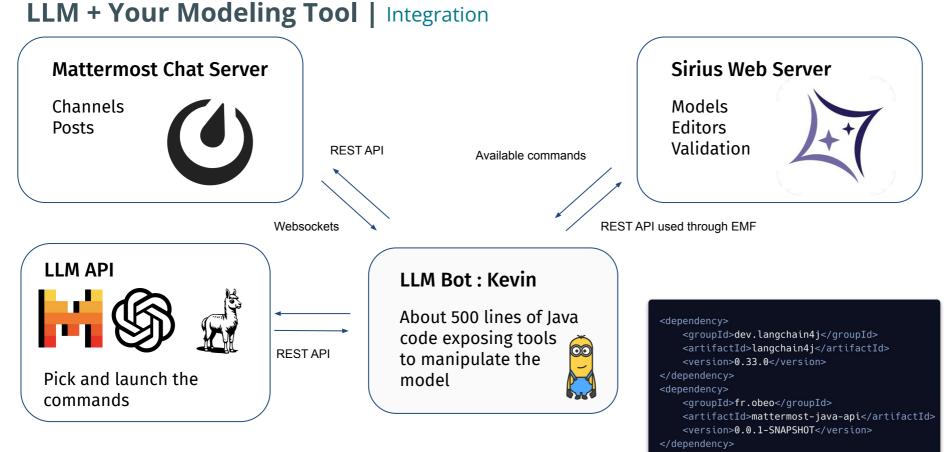






# **Experimental Prototype**

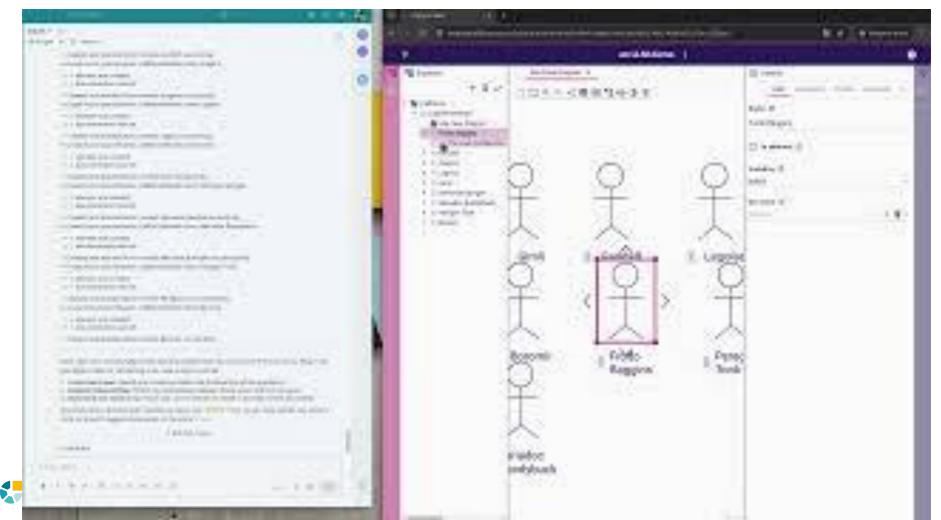




This to illustrates you can start your prototype early and easily. Iterate, evaluate and focus on the research.

#### COBEO

#### LLM + Your Modeling Tool | Integration



#### Industrial Strength | Fundamental

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**Strong, well known technological basis** Java, Spring Boot, Eclipse Modeling and React

#### Obeo is here to support

Training, sponsored development, industrialization

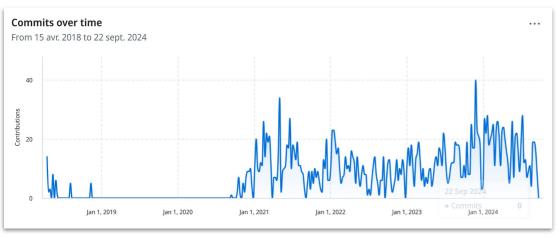
#### In the context of R&D projects

**Trainings & on Demand Expertise** Pool of days to assist **Sub contracting** Develop features and POCs in R&D project **Project Member** Obeo R&D initiative as part of the project



**Enterprise Commercial Offer : Obeo Cloud Platform** History and versioning, monitoring, team management ...





# Release every 8 weeks



COBEO

https://github.com/eclipse-sirius/sirius-web https://github.com/eclipse-syson/syson

#### Tell the community you are using it!

