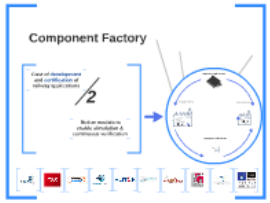
Try it!


Component Factory

Systemx
INSTITUT DE RECHERCHE TECHNOLOGIQUE
Systemx
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Prezi

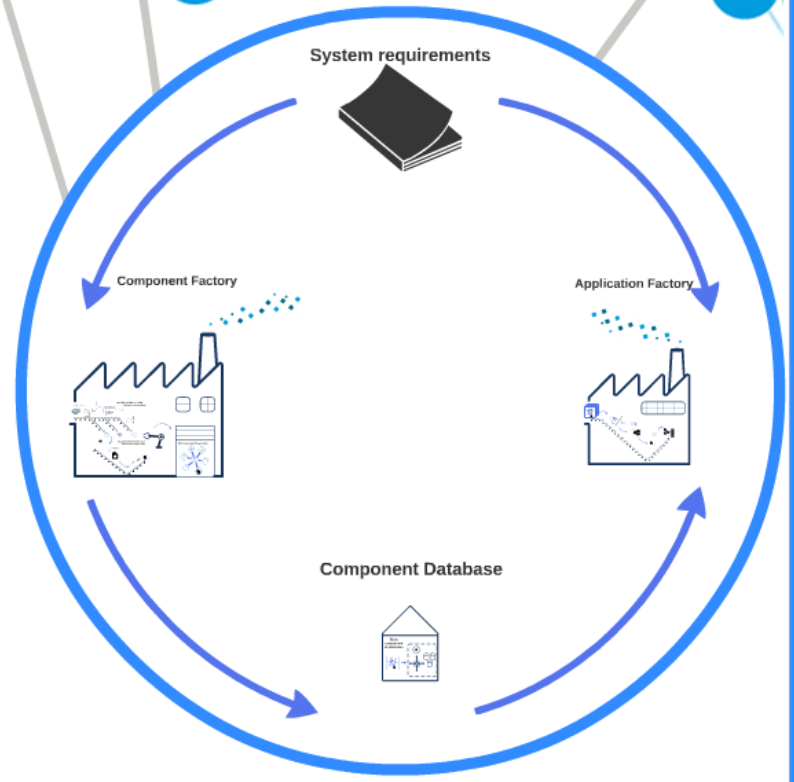
Component Factory

#DESIGN #MODELIZE #SIMULATE #EXPERIMENT

Cost of **development** and **certification** of railway applications

/2

Richer models to enable simulation & continuous verification



Scaleo chip · cea · ESTEREL Technologies · KRONO-SAFE · ALSTOM · apsys · Inria · Trusted Labs · MINES TELECOM INSTITUT Mines-Télécom

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Cost of development and certification of railway applications

/2

Richer models to enable simulation & continuous verification

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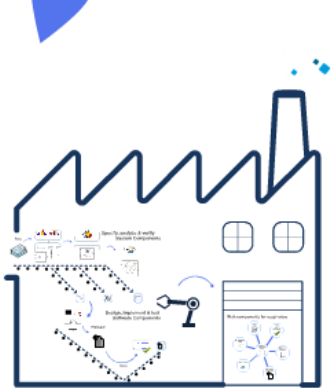
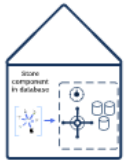
System requirements

Component Factory



Application Factory

Component Database



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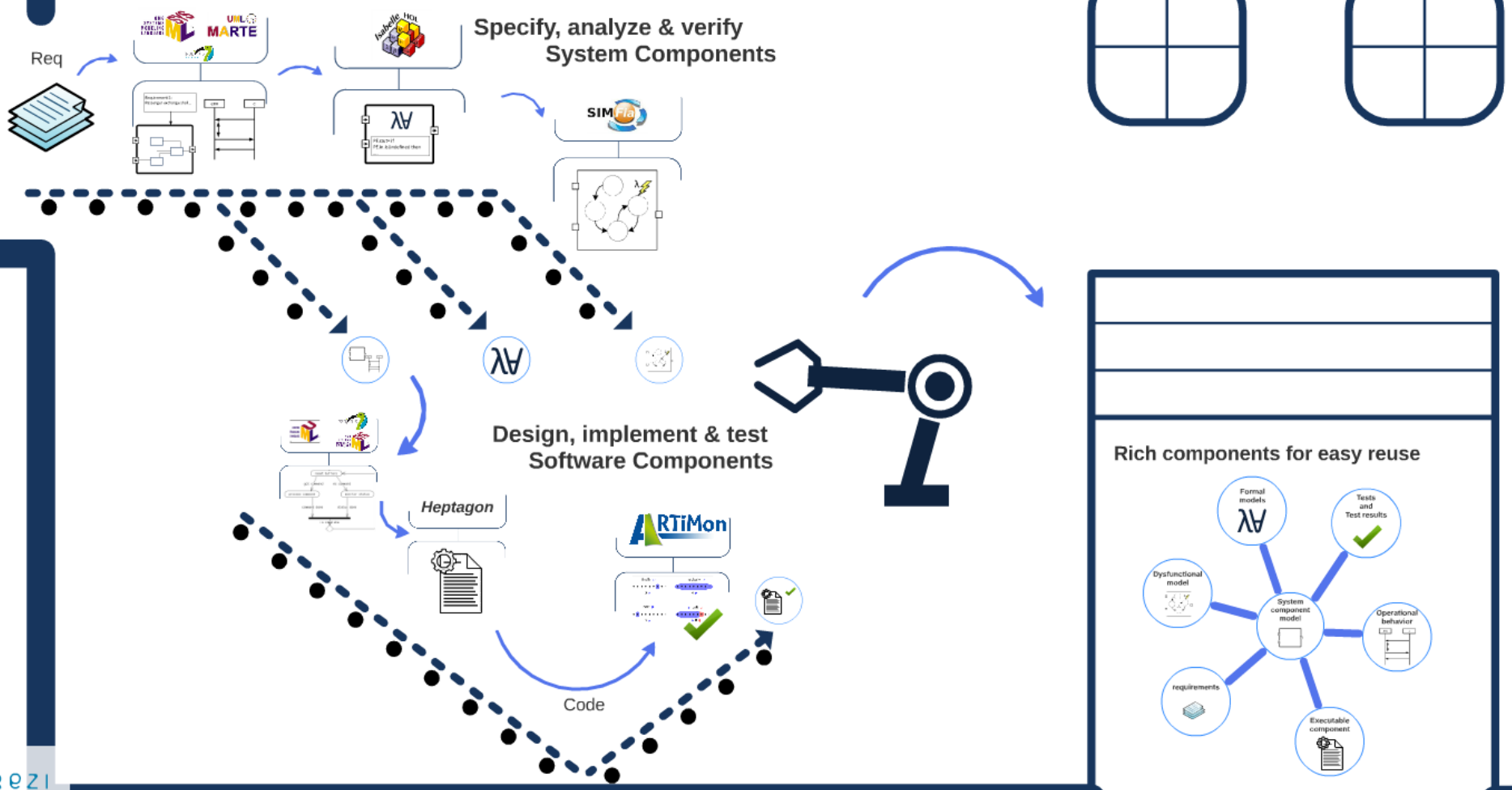
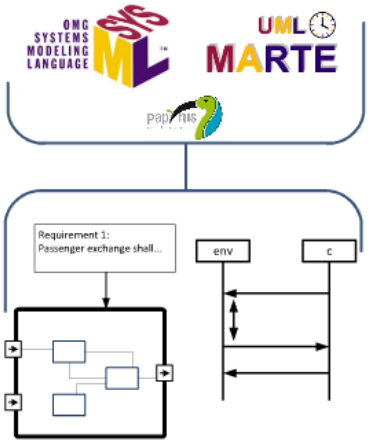
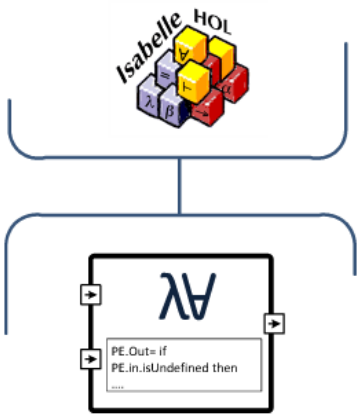

Req
MARTE
Specify, analyze & verify
System Components
SIMFIA
Design, implement & test
Software Components
Heptagon
ARTiMon
Code
Rich components for easy reuse
Formal models
Tests and Test results
Dysfunctional model
System component model
Operational behavior
requirements
Executable component

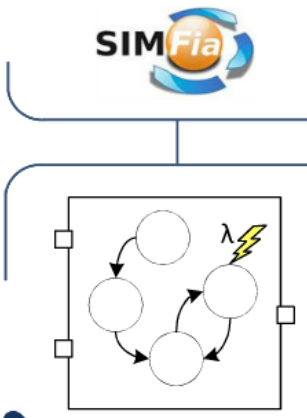
Prezi

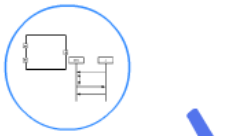
Req

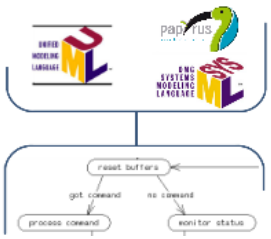




Specify, analyze & verify System Components







Design, implement & test Software Components

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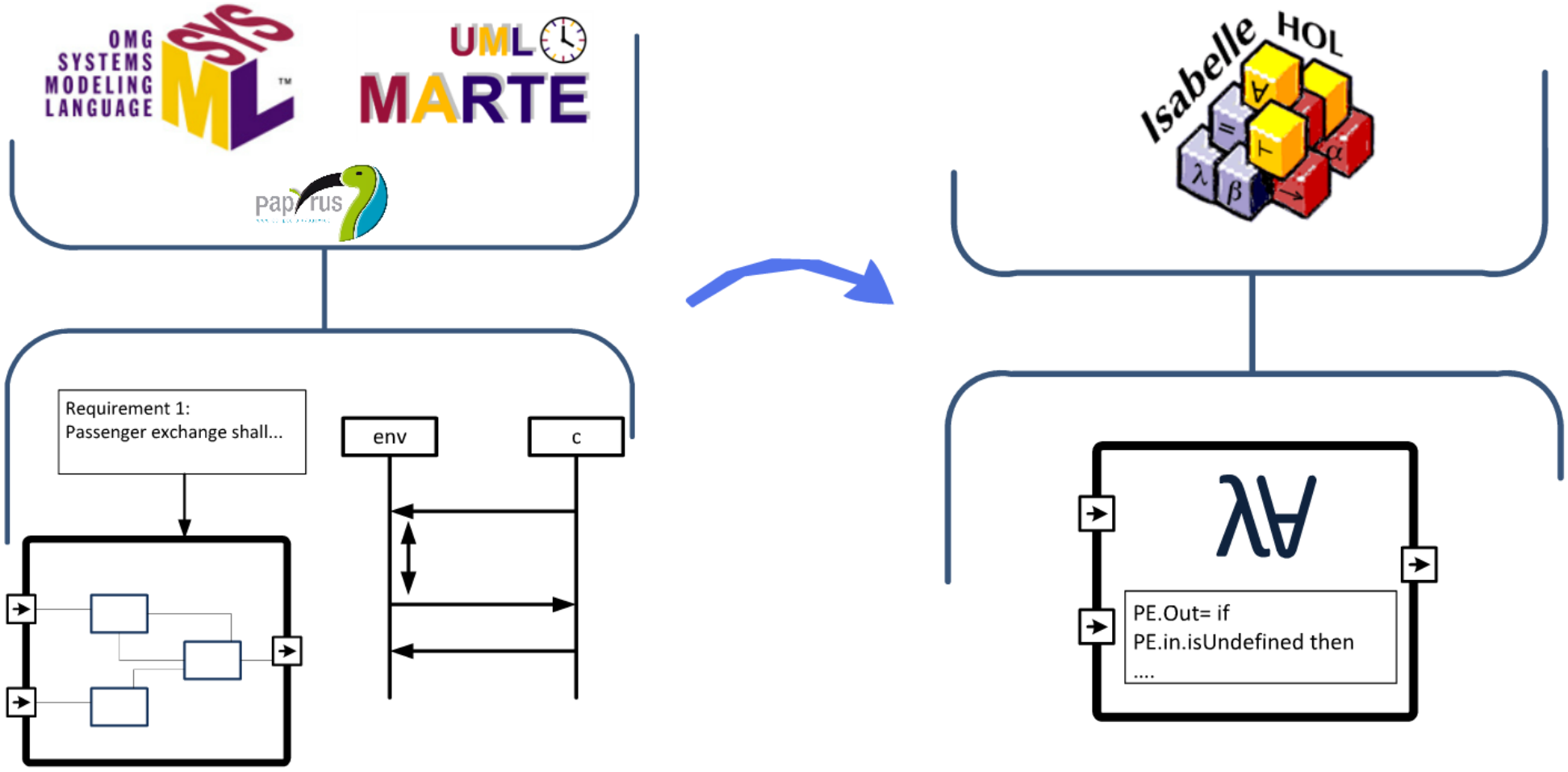
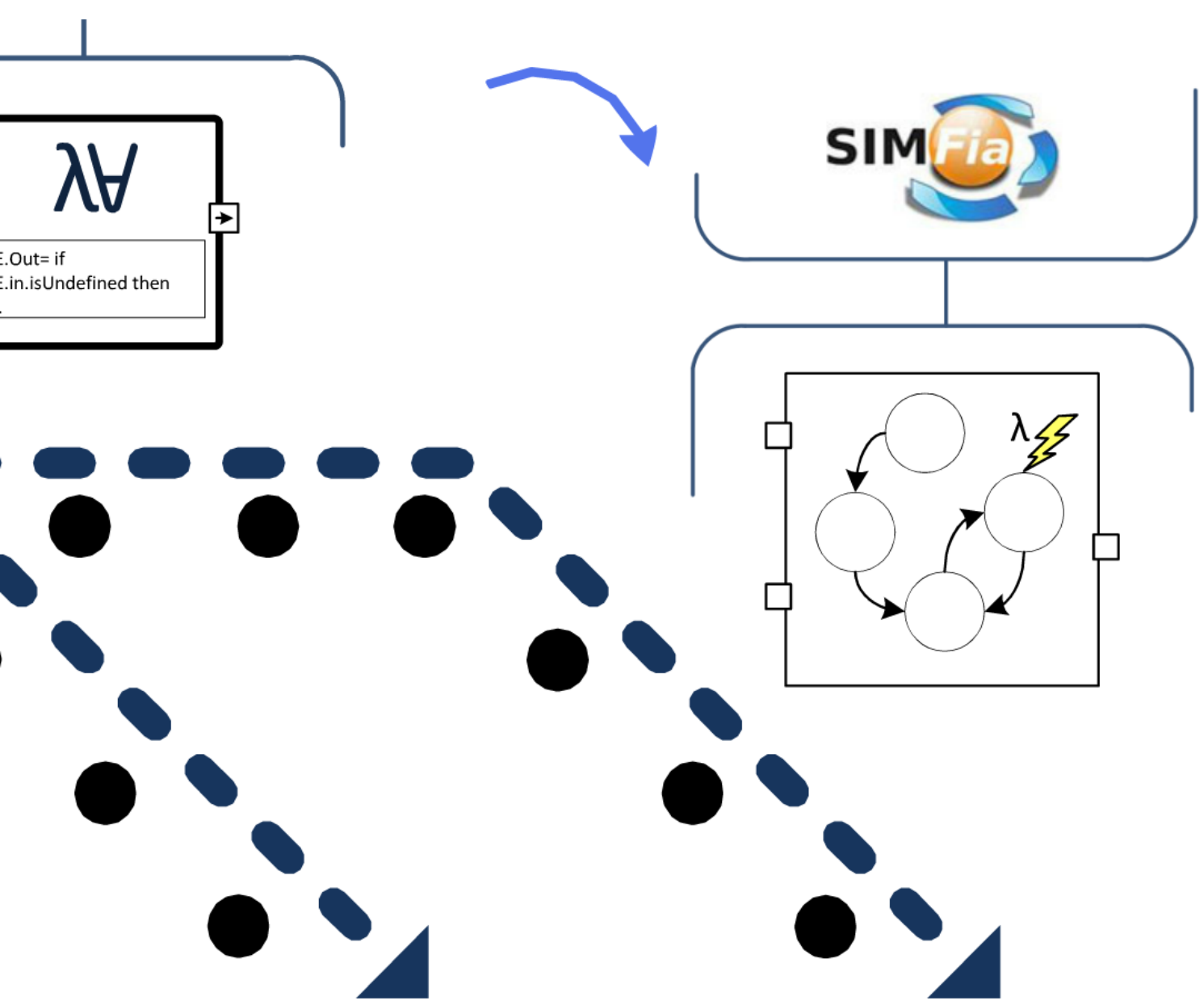
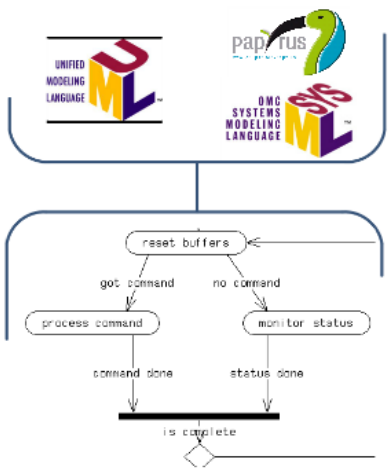
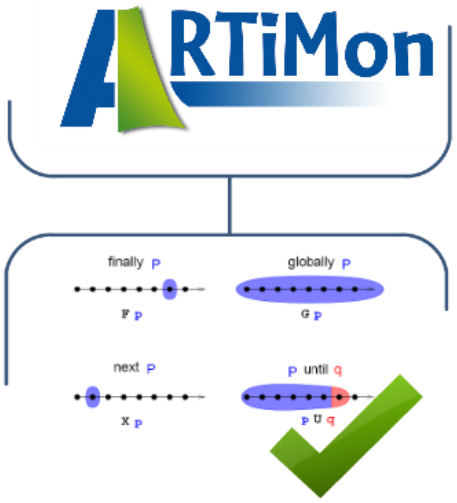

OMG
SYSTEMS
MODELING
LANGUAGE
SysML
UML
MARTE
papyrus
Isabelle
HOL
Requirement 1:
Passenger exchange shall...
env
c
λ∀
PE.Out= if
PE.in.isUndefined then
....


λ
E.Out= if
E.in.isUndefined then
SIMFia
λ

Design, implement & test Software Components



Heptagon



Code

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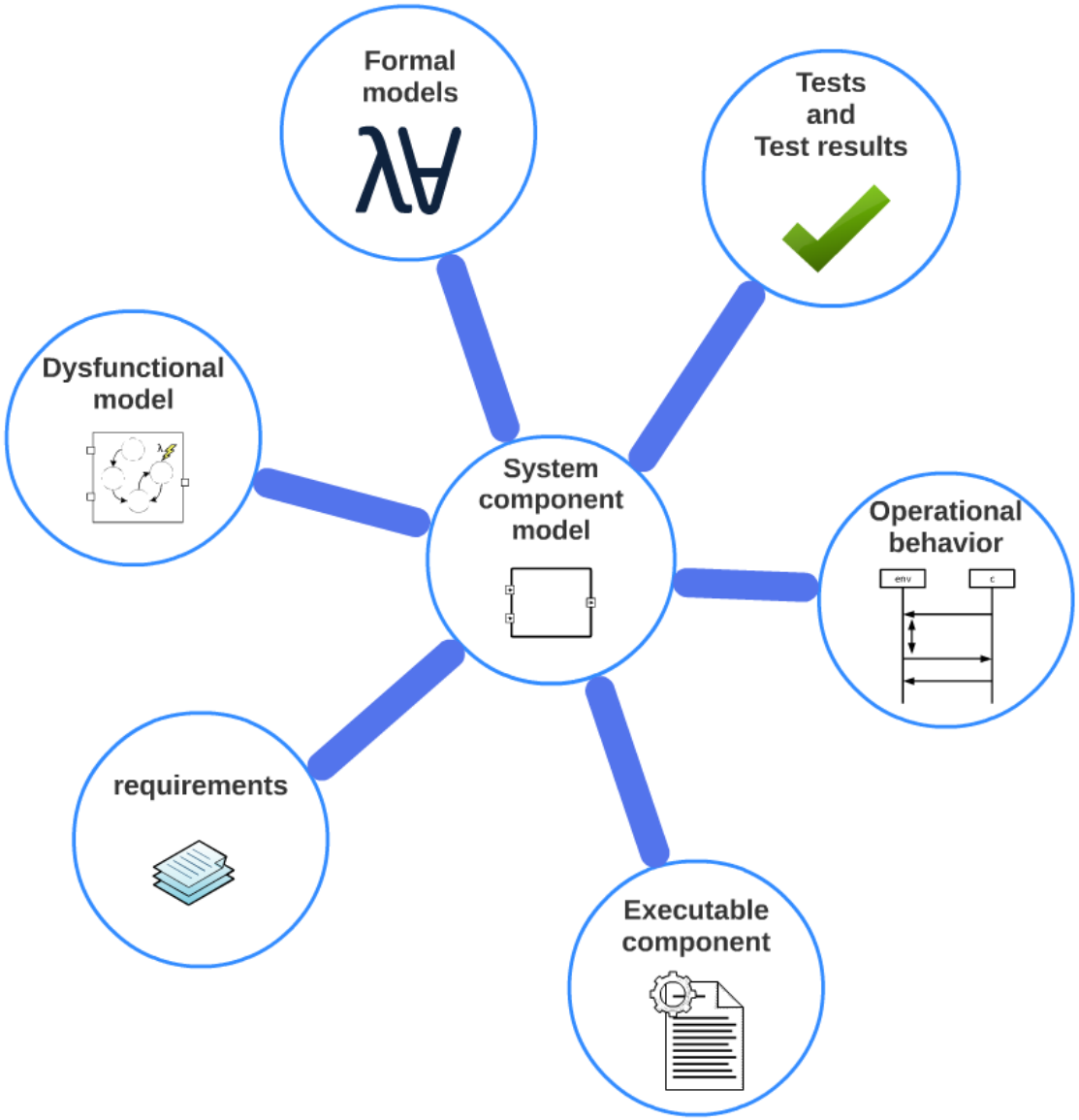
Rich components for easy reuse



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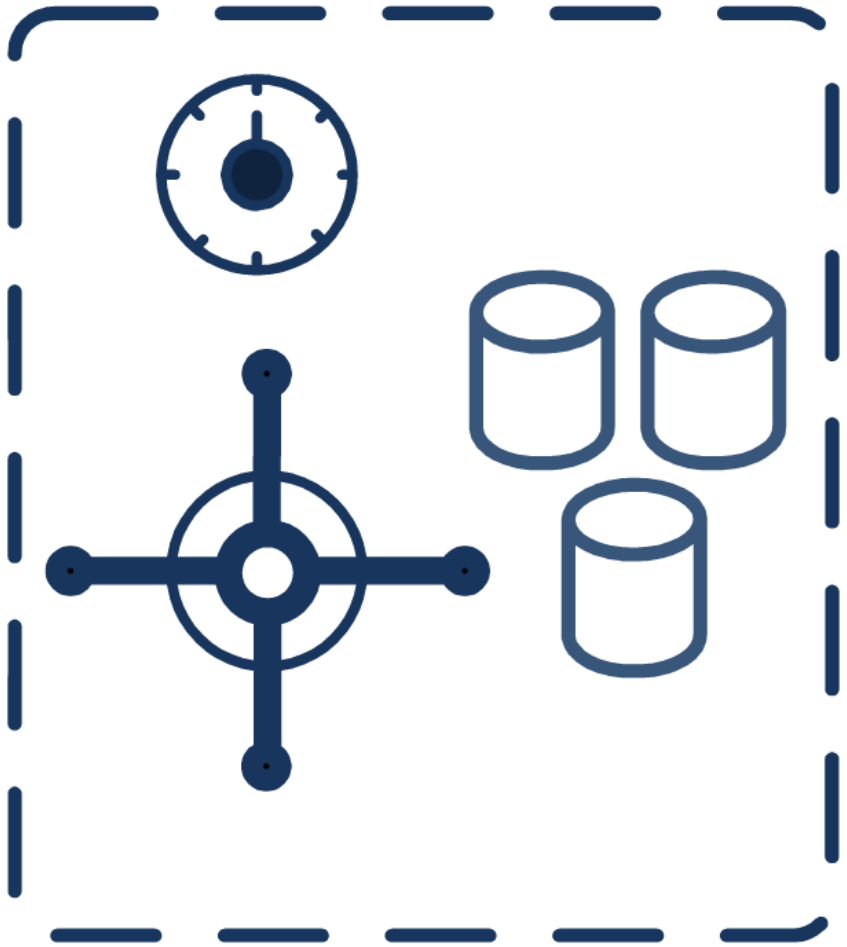
Store component in database



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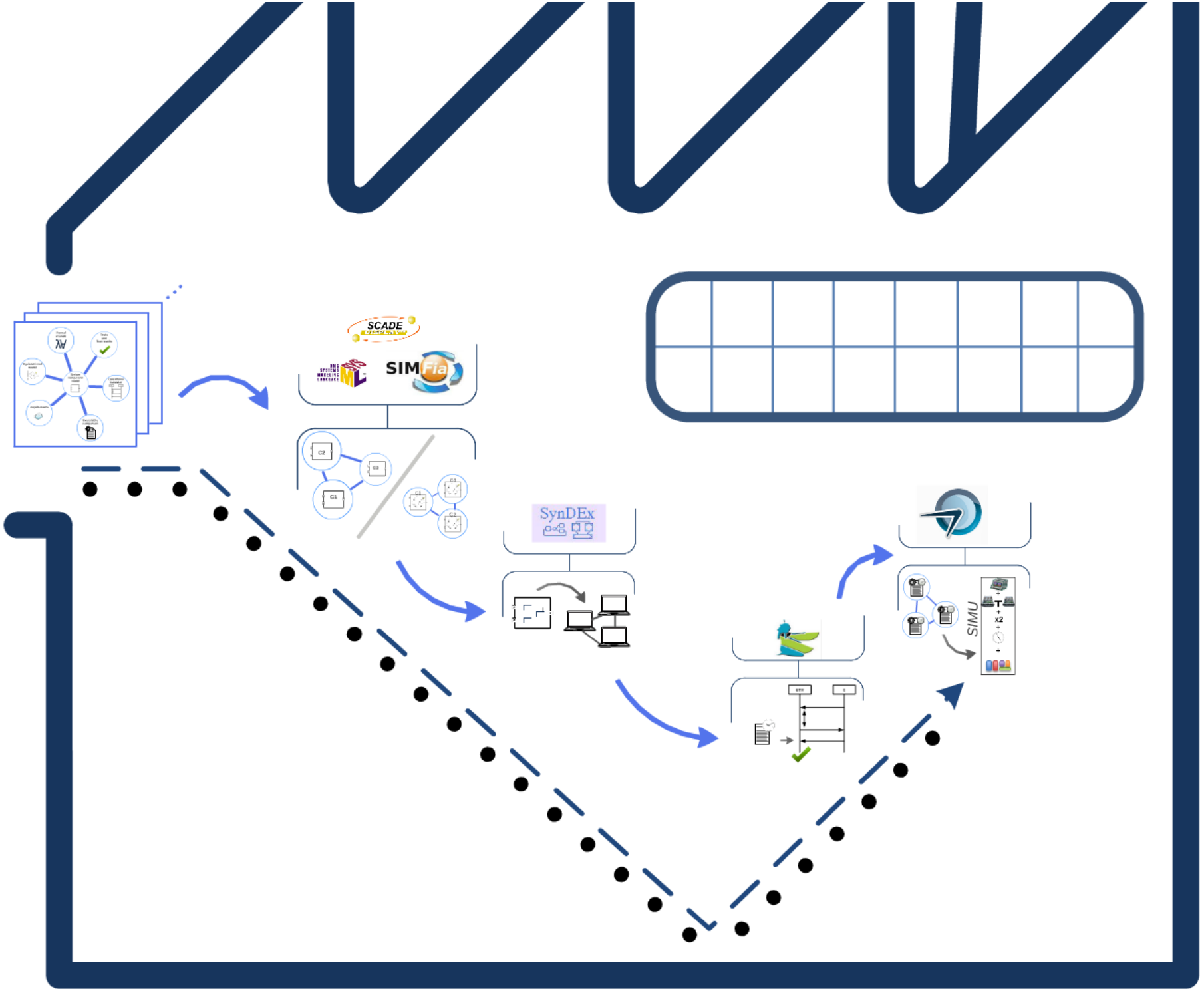

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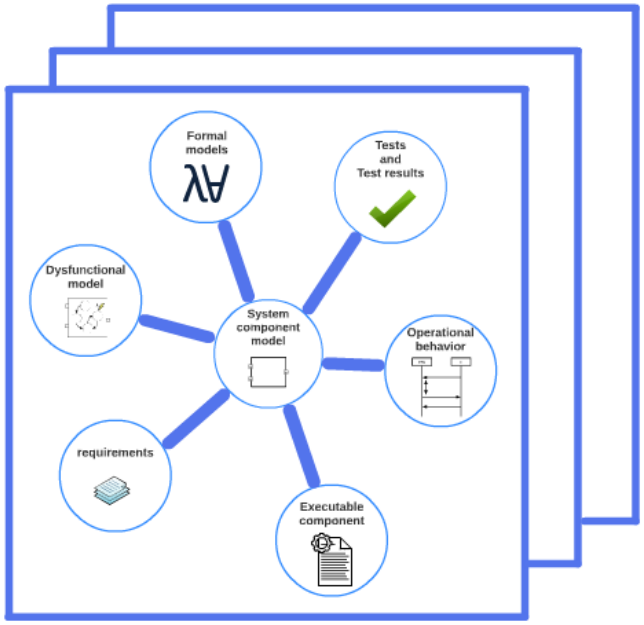

SCADE DISPLAY™

OMG SYSTEMS MODELING LANGUAGE SysML™

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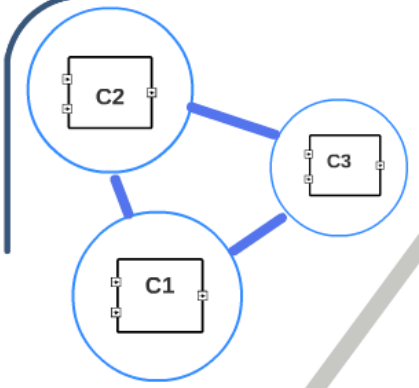

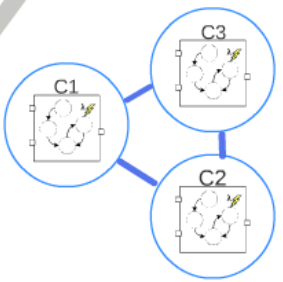

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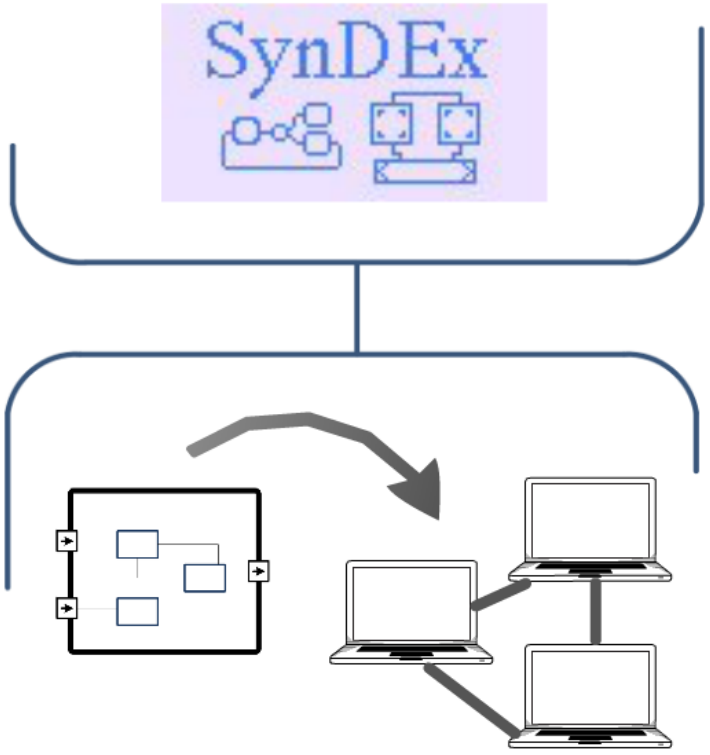

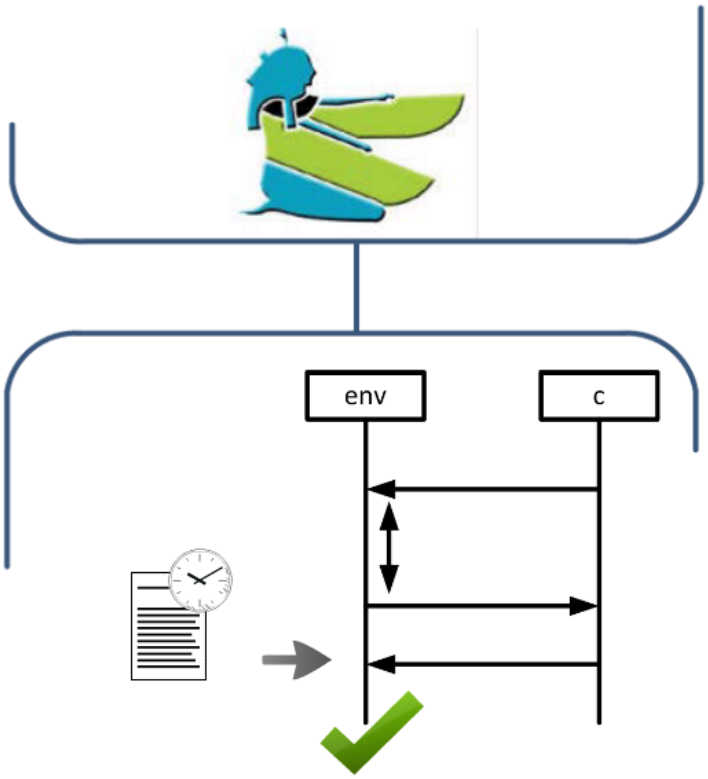

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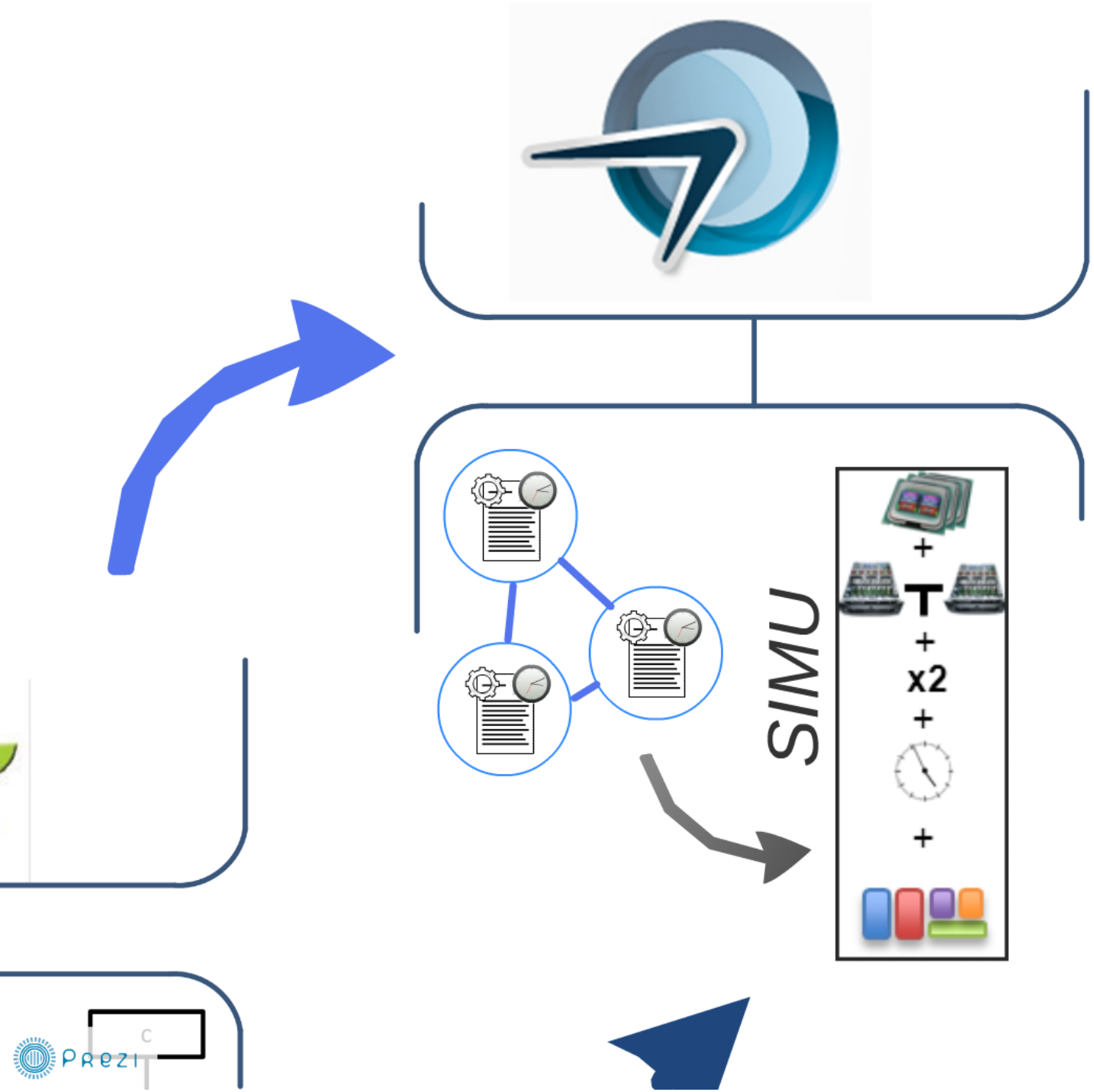
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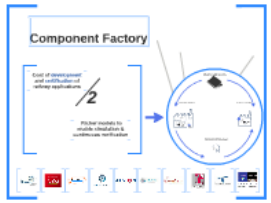
Try it!



Prezi