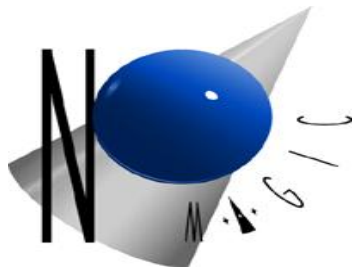


PHOENIX INTEGRATION
2015 USER CONFERENCE



No Magic

The Future of MBSE with MagicDraw

Jason Wilson

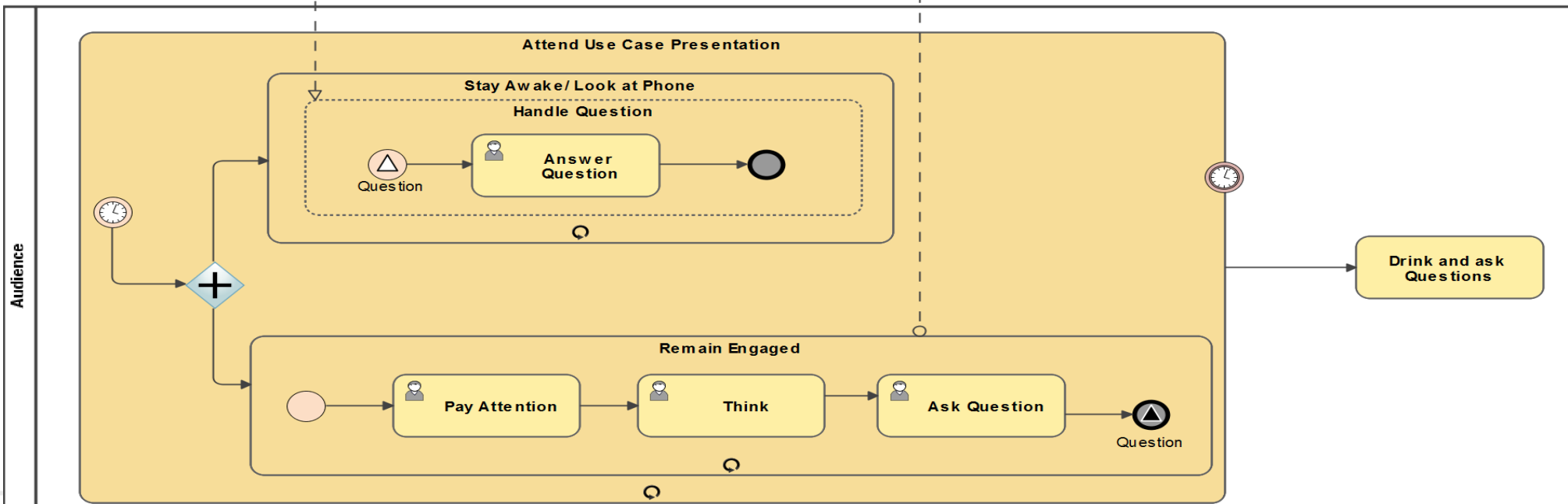
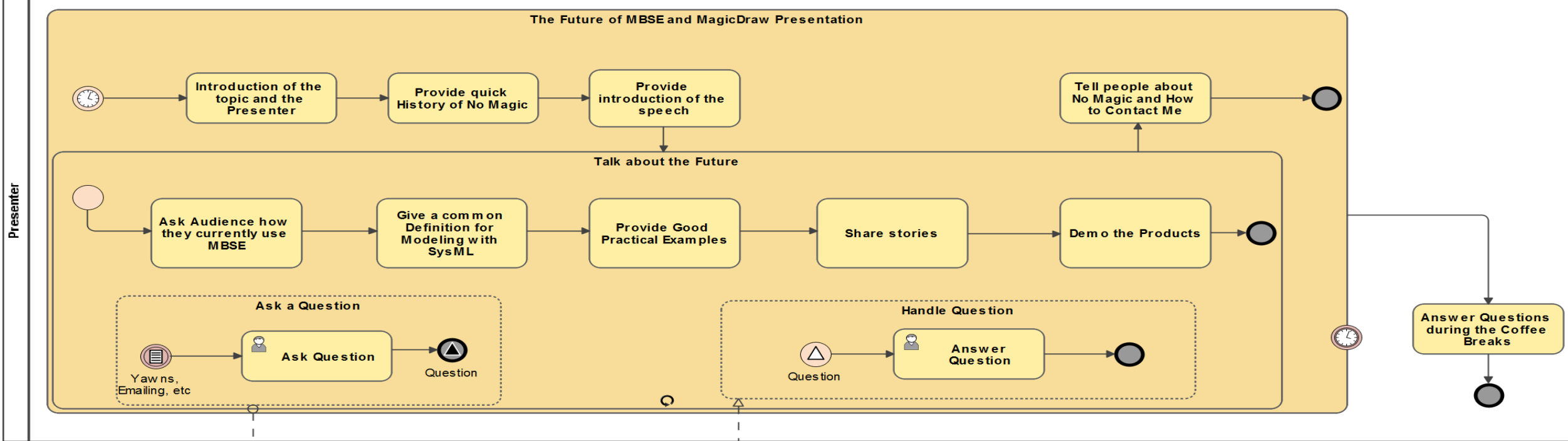
Director, Solution Architecture & Business Development

The Truth is in the Models™

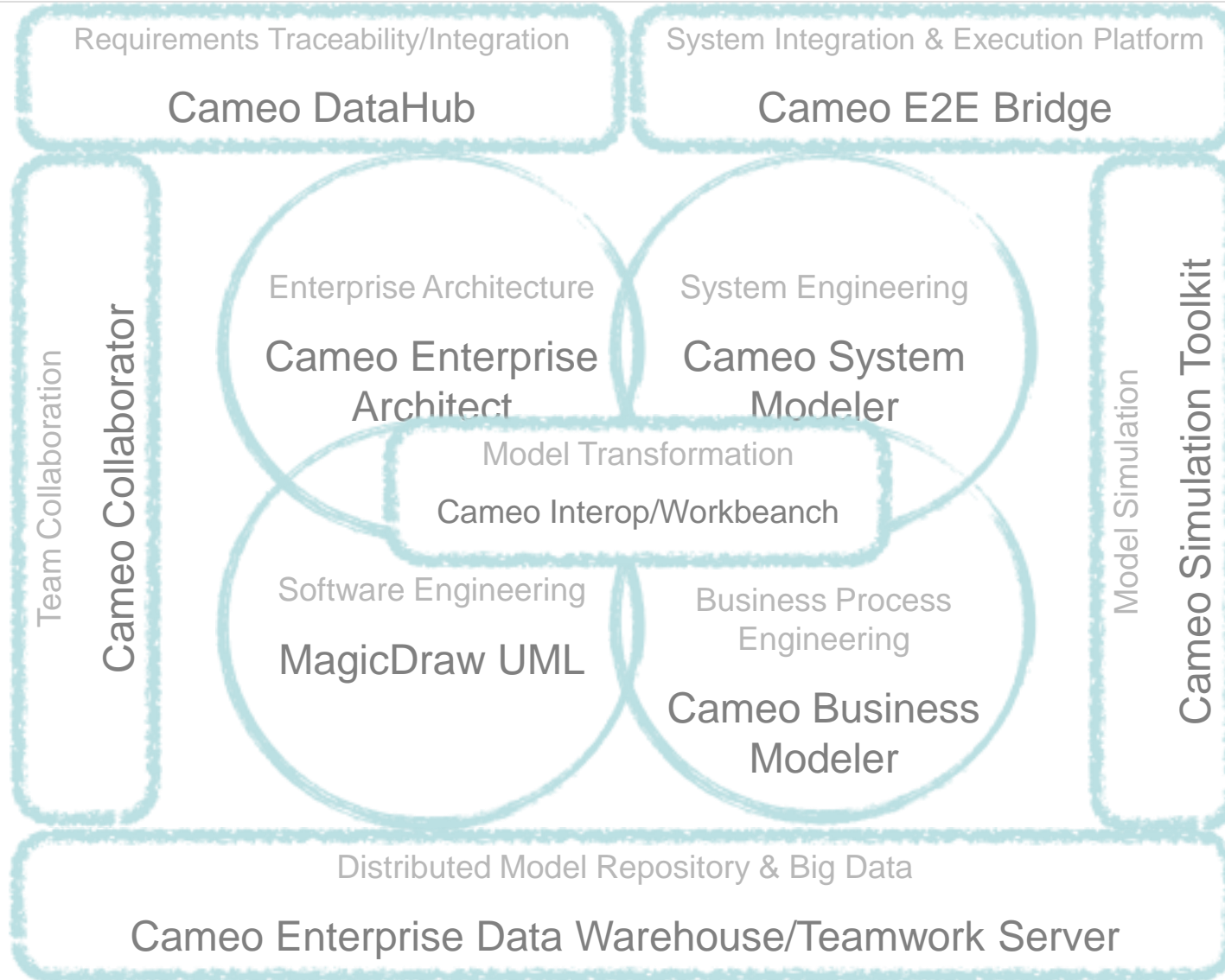
Jason Wilson Background



- Director, Business Development & Solution Architecture
- 5+ years @ No Magic Inc.
- 8+ years with MagicDraw
- On Going
 - Product Manager
 - Requirements Engineer
- Former
 - Director of US Development
 - Group Leader
 - Project Manager
 - Account Executive



No Magic Model Based Framework



AGENDA



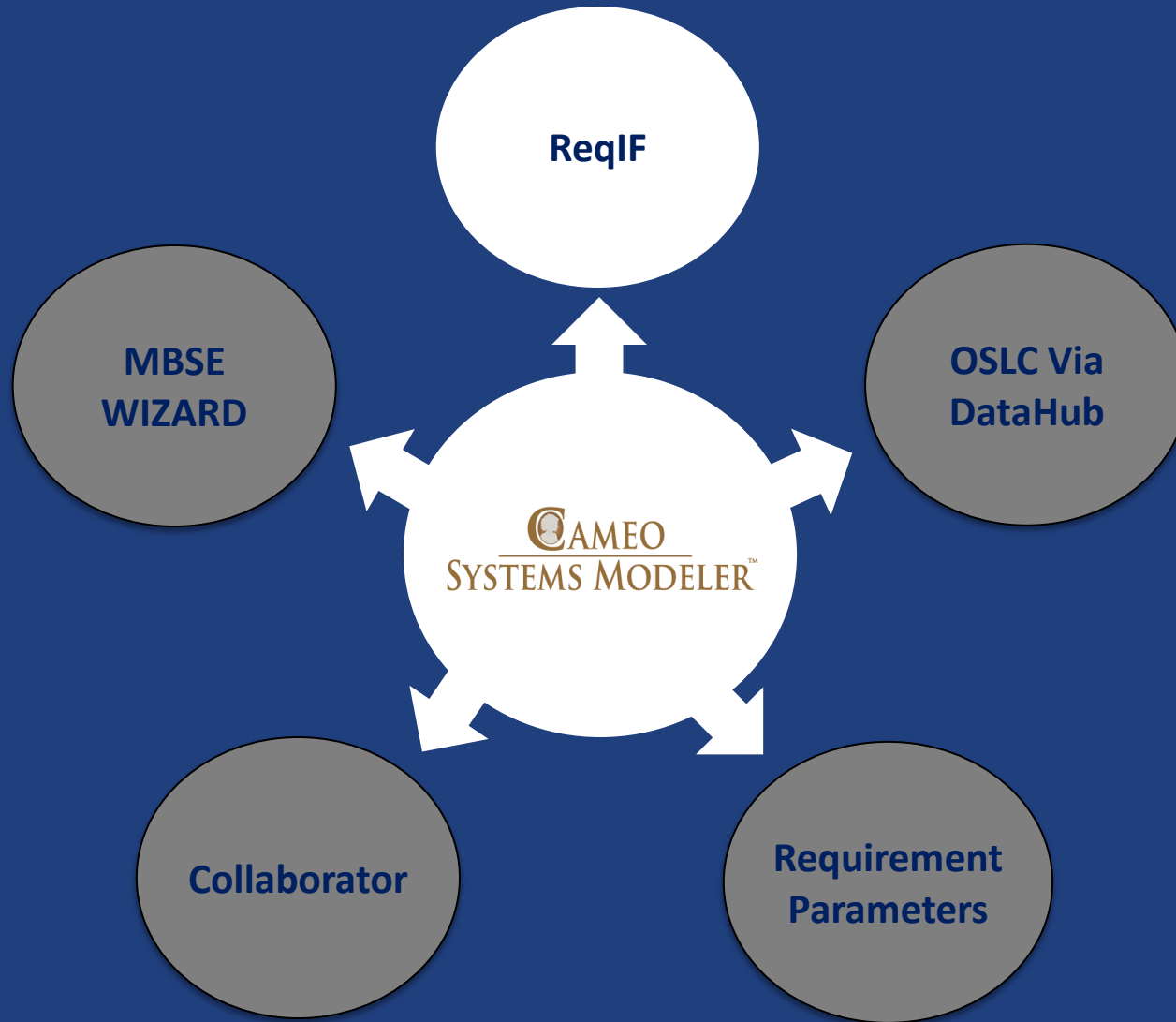
- ReqIF
- OSLC via Cameo DataHub
- Requirements Parameters
- MBSE WIZARD
 - Demo
- Collaborator
 - Demo from WIZARD



No Magic's Solution



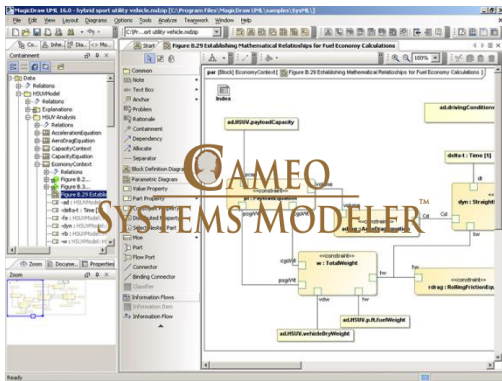
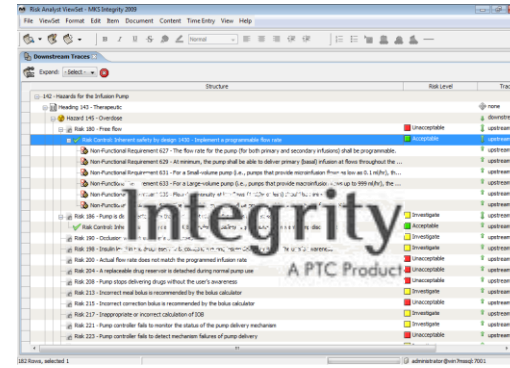
No Magic's Solution





ReqIF Import

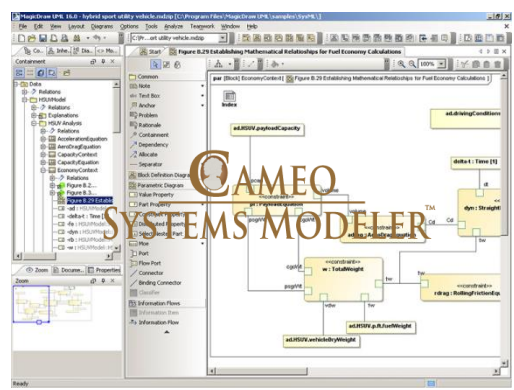
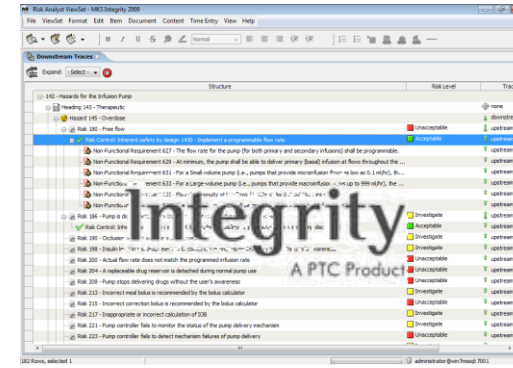
- Import
- Update
- Traceability





ReqIF Export

- Export
- Custom scripting
- Requirement mapping

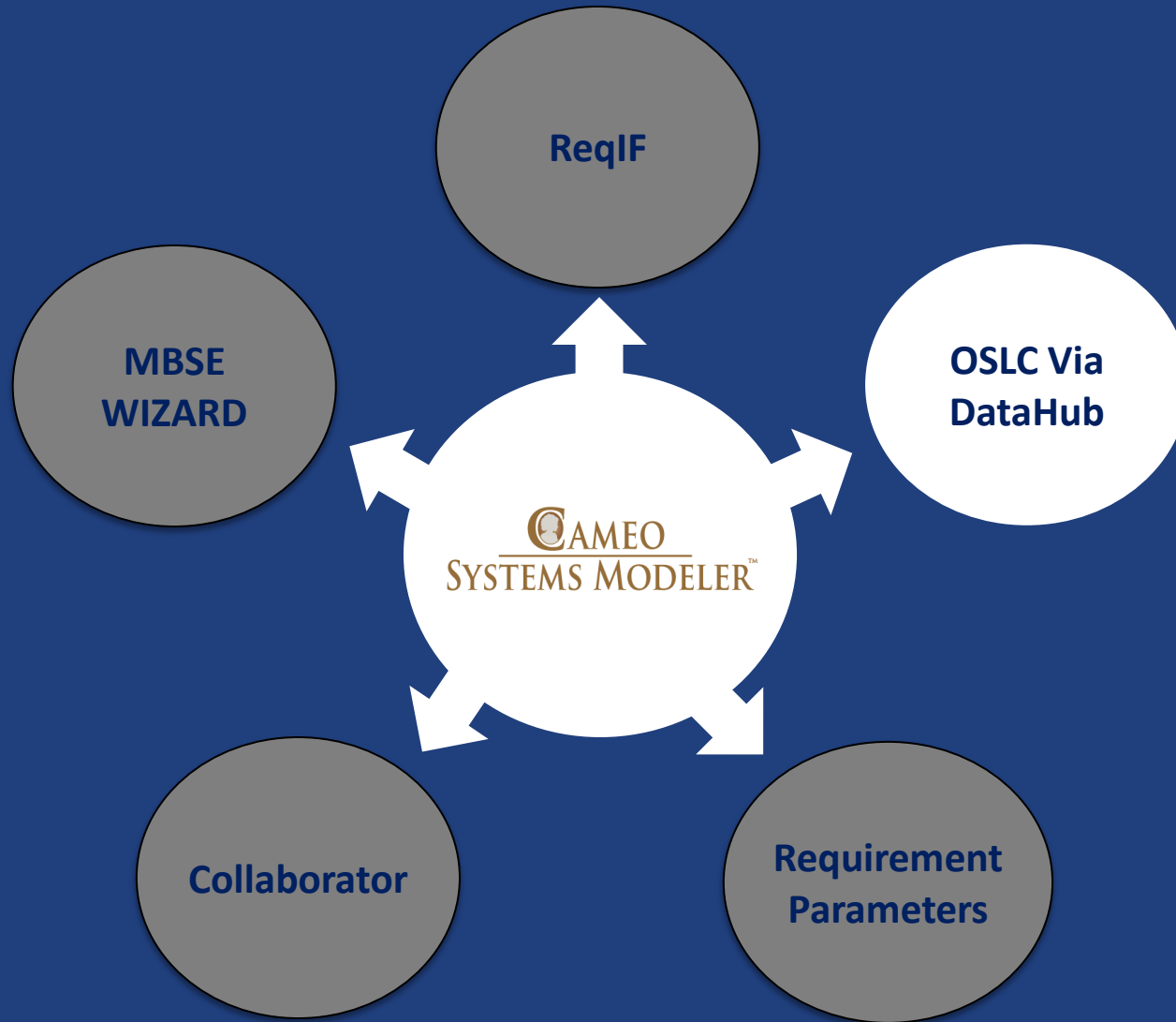


TEAMCENTER





No Magic's Solution



Cameo DataHub



The image displays the Cameo DataHub software interface, which integrates with other tools. At the top, three windows are shown: Microsoft Excel, Rational DOORS, and Rational RequisitePro. Large blue arrows point from these external tools towards the central Cameo DataHub window. The central window shows a Business Process Diagram (BPD) for a 'Credit Request' process. The diagram includes a start node, a decision diamond 'Approved?', and several activity nodes: 'Receive Credit Report', 'Check Credit', 'Include Approval Text', 'Established with prior credit', 'Include History of Transactions', and 'Include Standard Text'. The 'Cameo DataHub Explorer' on the left shows a tree view of project elements, including 'DOORS' and 'RequisitePro'. The 'Properties' window at the bottom shows details for a 'Requirement' object, such as its name, absolute number, and status.



Major features:

1. Supports IBM DOORS NextGen 4.x and greater via OSLC.
2. Supports OSLC query on IBM DOORS NextGen.
3. Supports OSLC link between IBM DOORS NextGen and MagicDraw.
4. Supports MagicDraw module in both local and teamwork project for synchronization with DOORS requirements.
5. Sync relationships across modules back to DOORS.



1. Traceability between requirements in DOORS with MagicDraw Models (Use cases, test cases, architecture design model, etc).

This scenario is used when the user needs to keep track between his/her architecture design with the targeted requirements in DOORS.



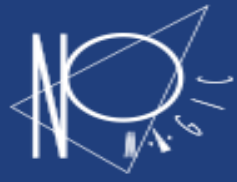
TRACEABILITY



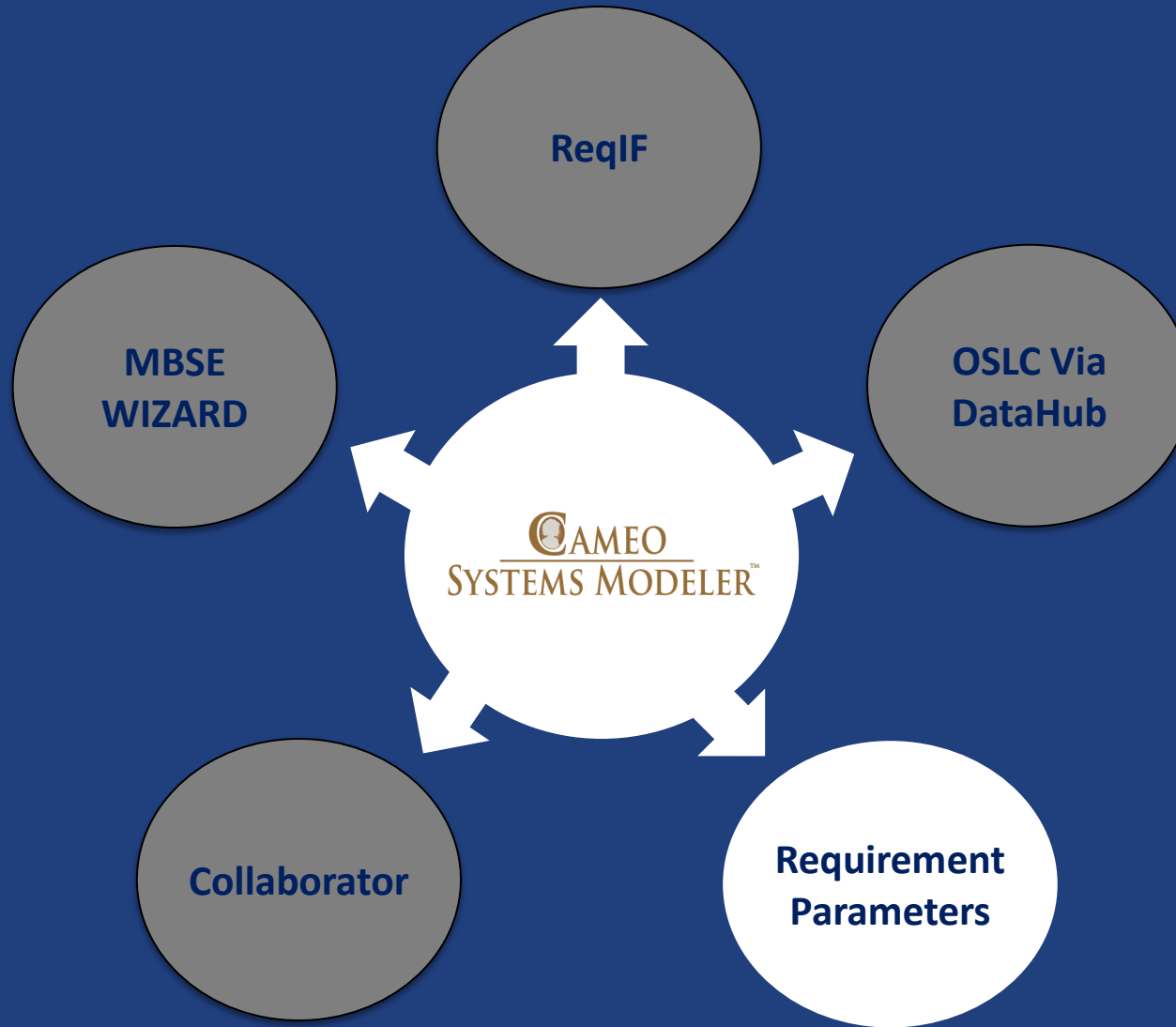


2. Sync SysML requirements with DOORS' requirements. This scenario is used when the user needs to replicate the requirements in DOORS into SysML's model as SysML requirements.

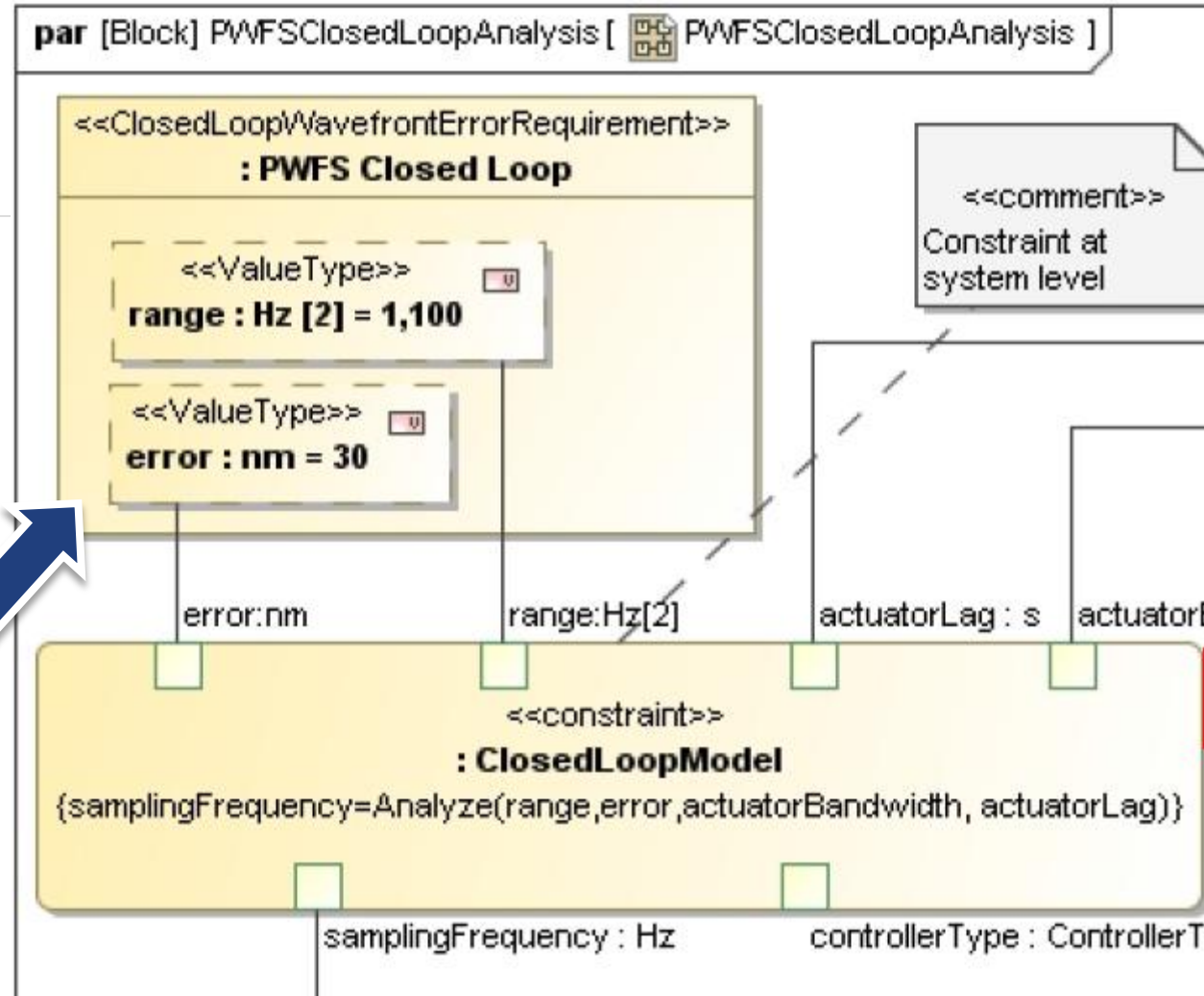
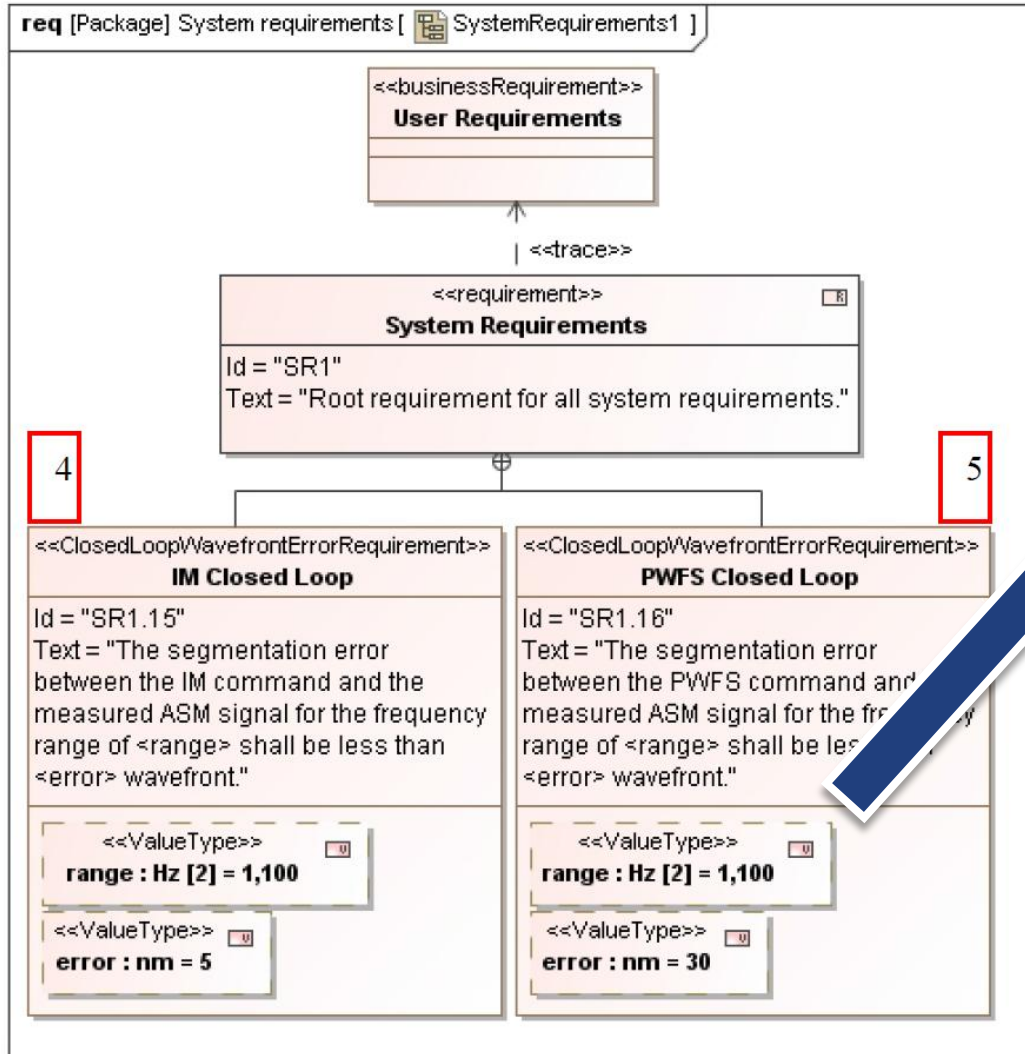
2.1 Supports two way sync. In this scenario we need to maintain the consistency between both DOORS and MagicDraw requirements.



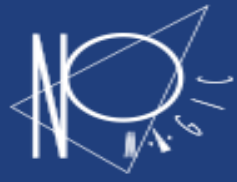
No Magic's Solution



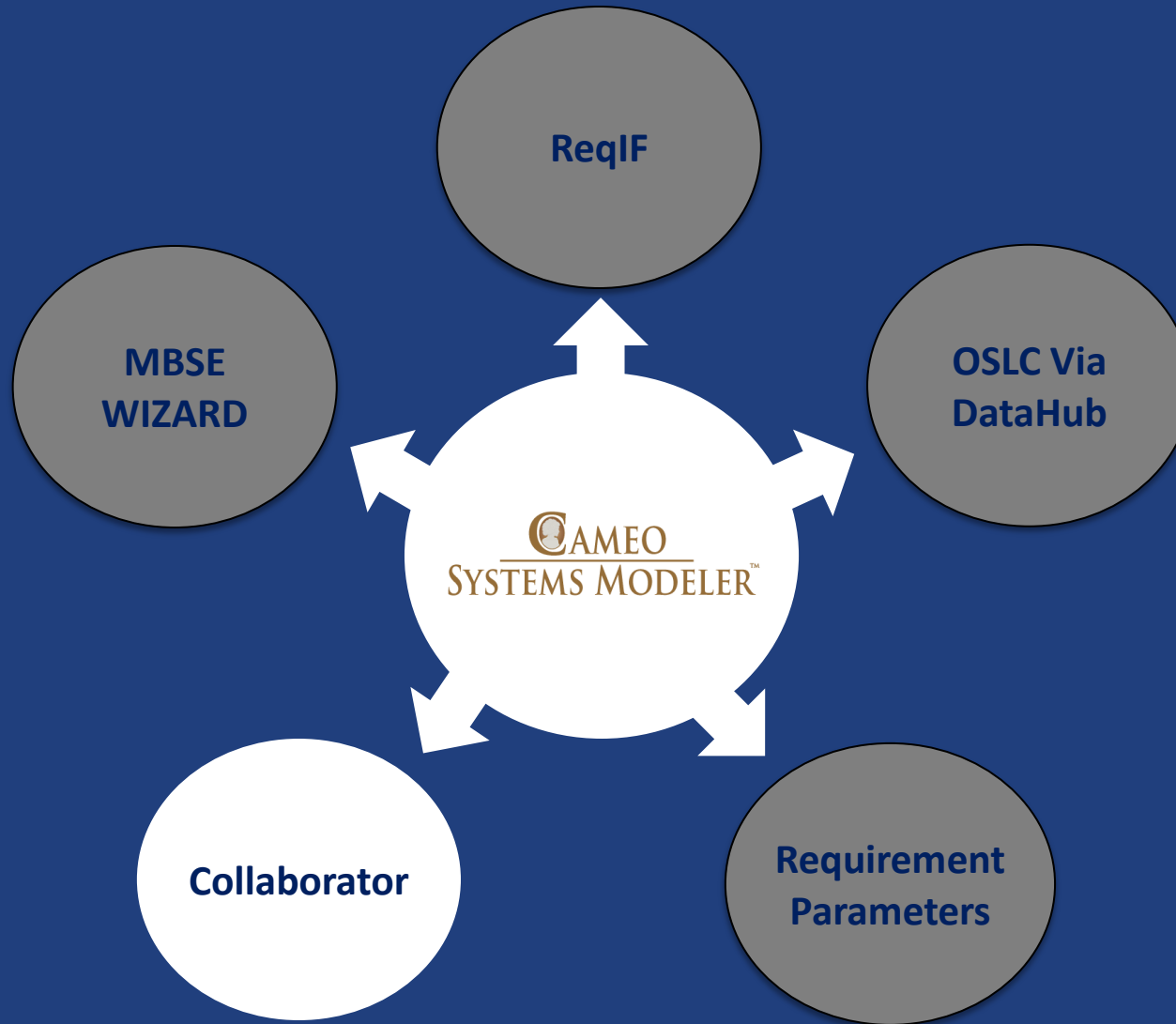
Requirement Parameters



Towards Model Re-usability for the development of telescope control systems



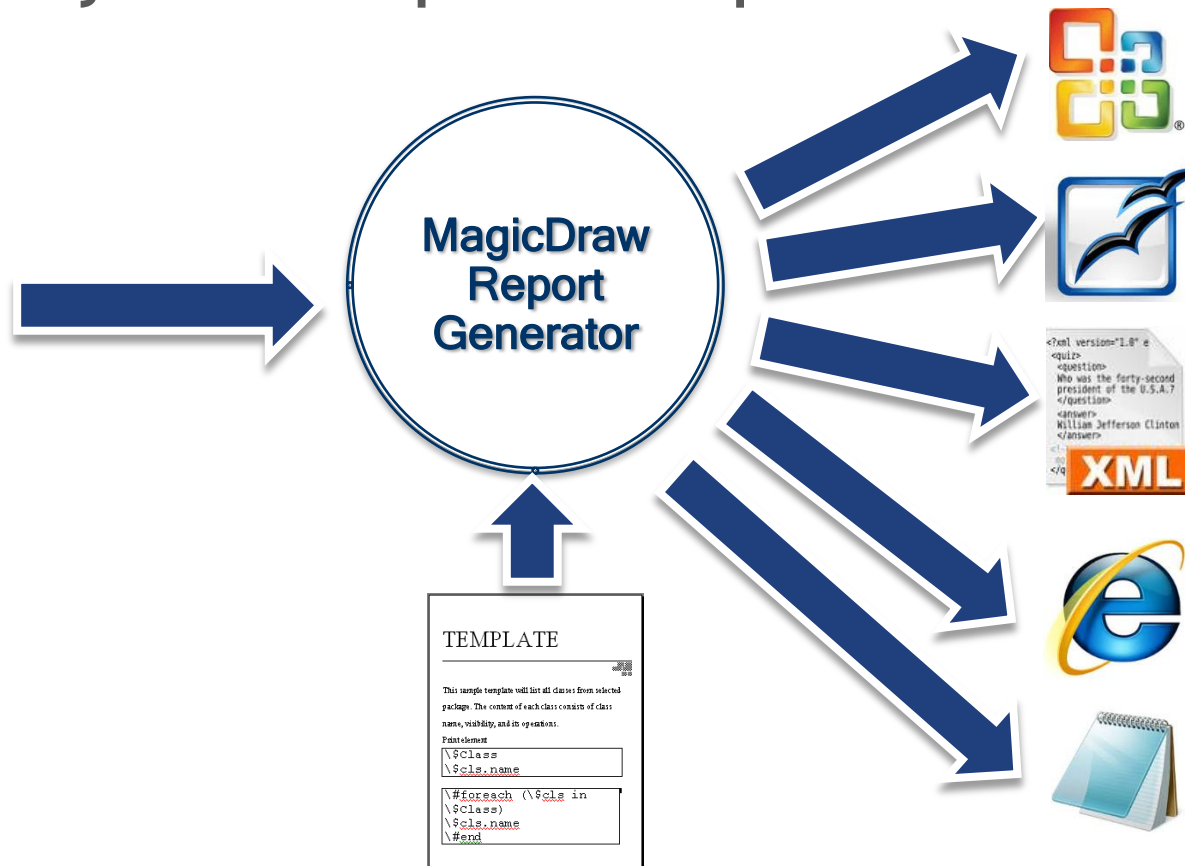
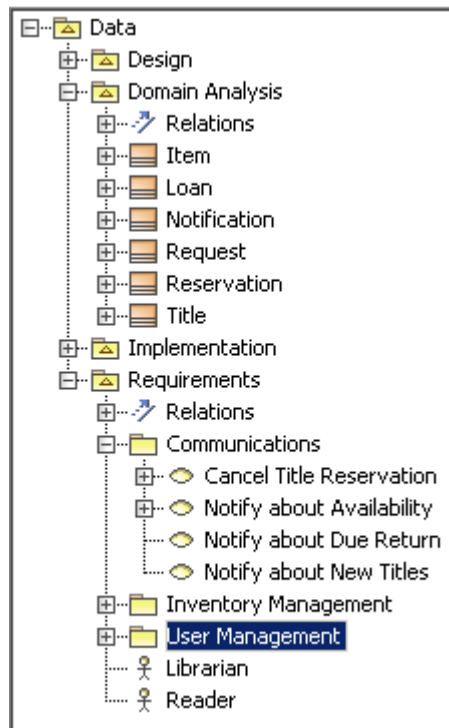
No Magic's Solution



MagicDraw Reports



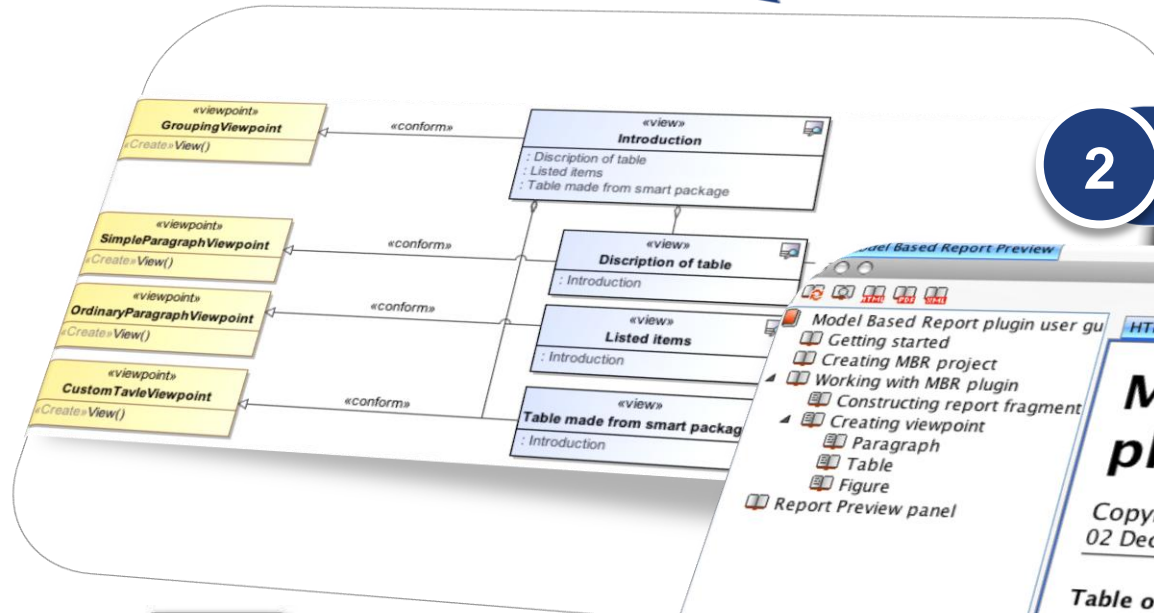
- You can generate an HTML, Microsoft Office, Open Office, XML, or any other simple text report from the model data



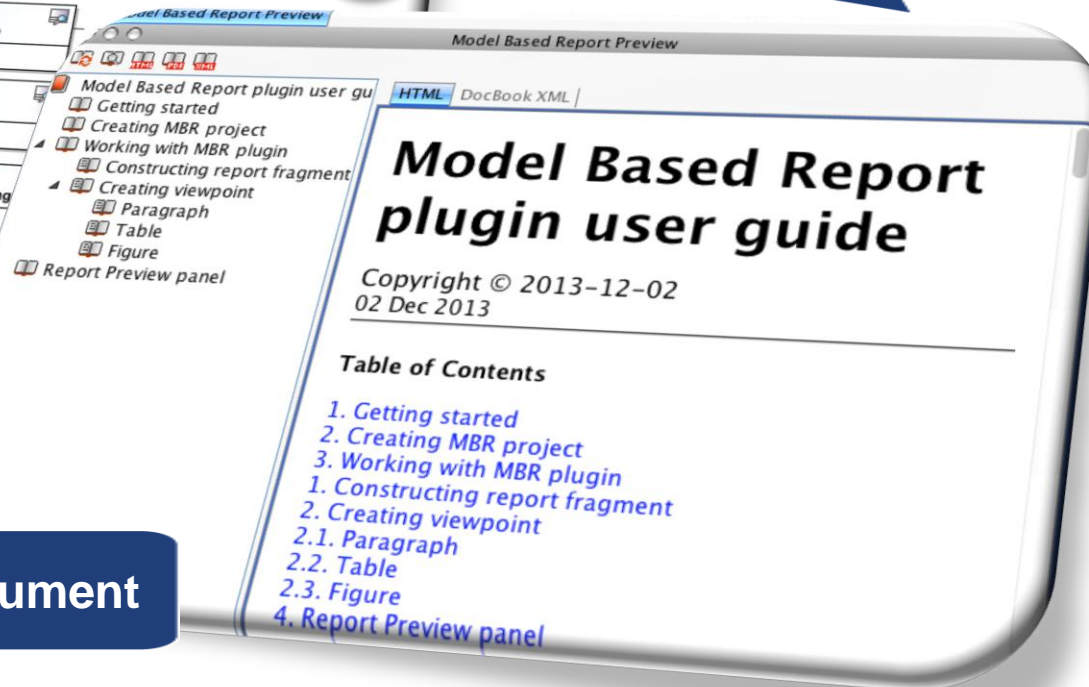
MagicDraw Model-based Reports*



1 Model Document



2 Preview Document

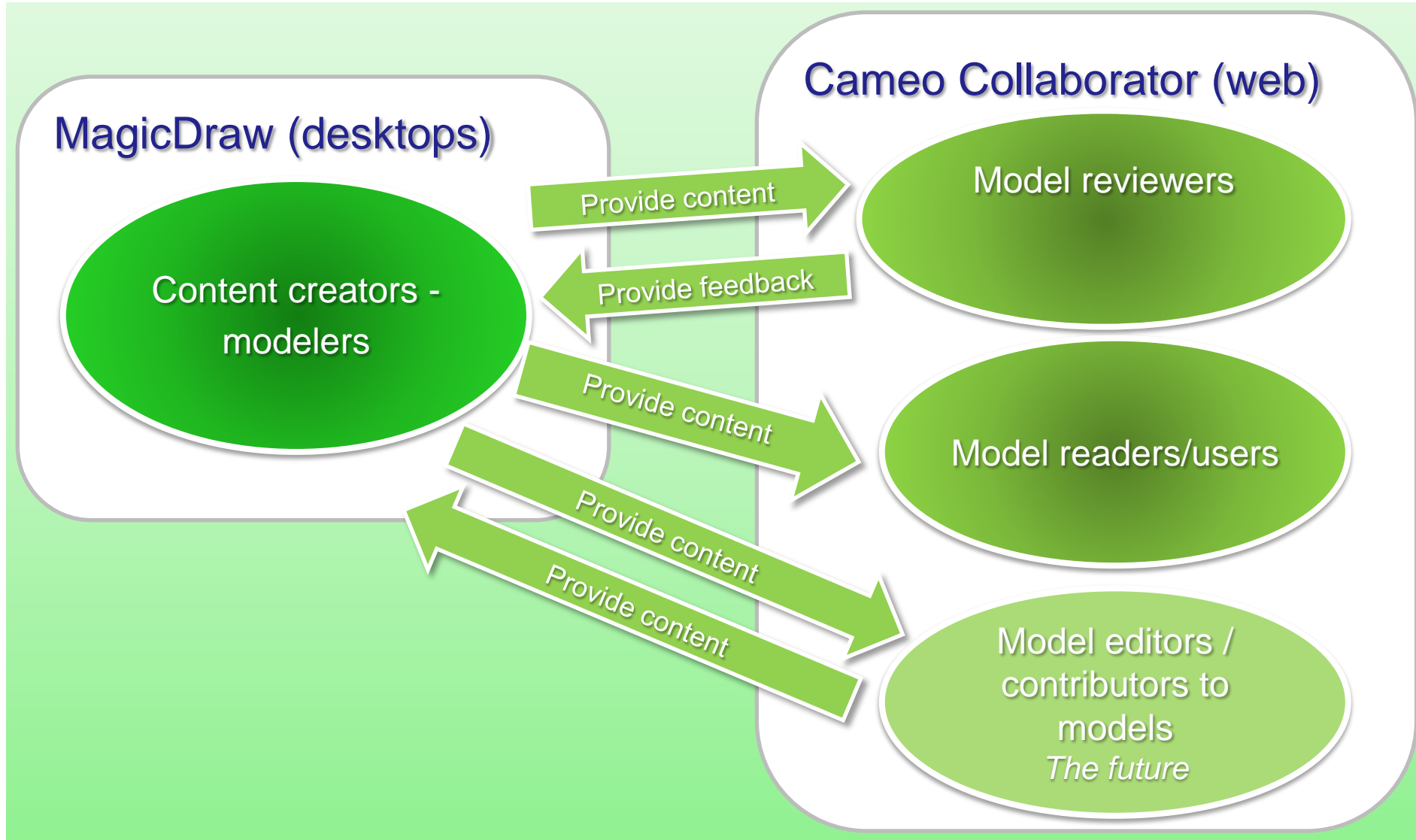


3 Publish Document

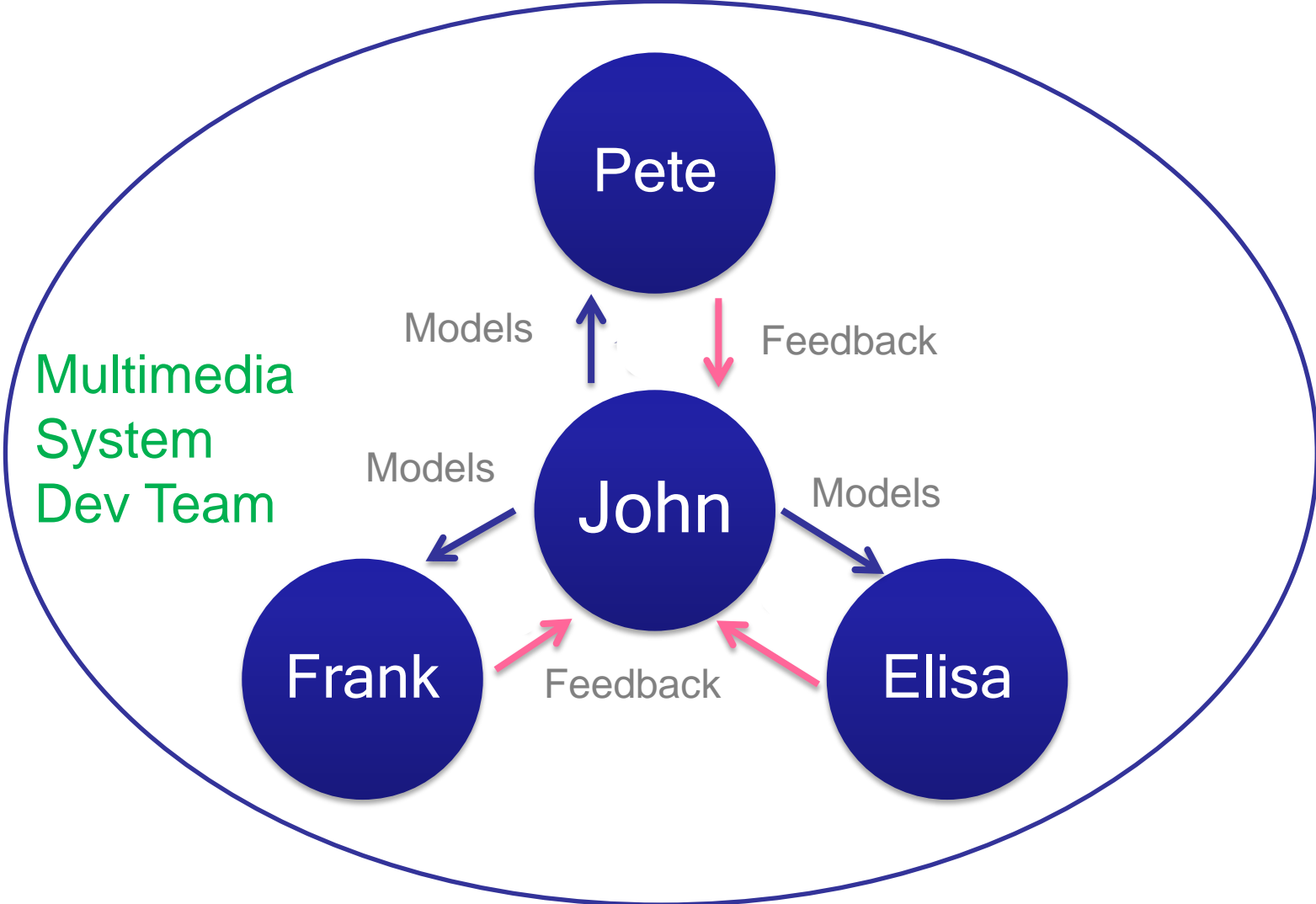


*Alpha version supported in MagicDraw 18.0

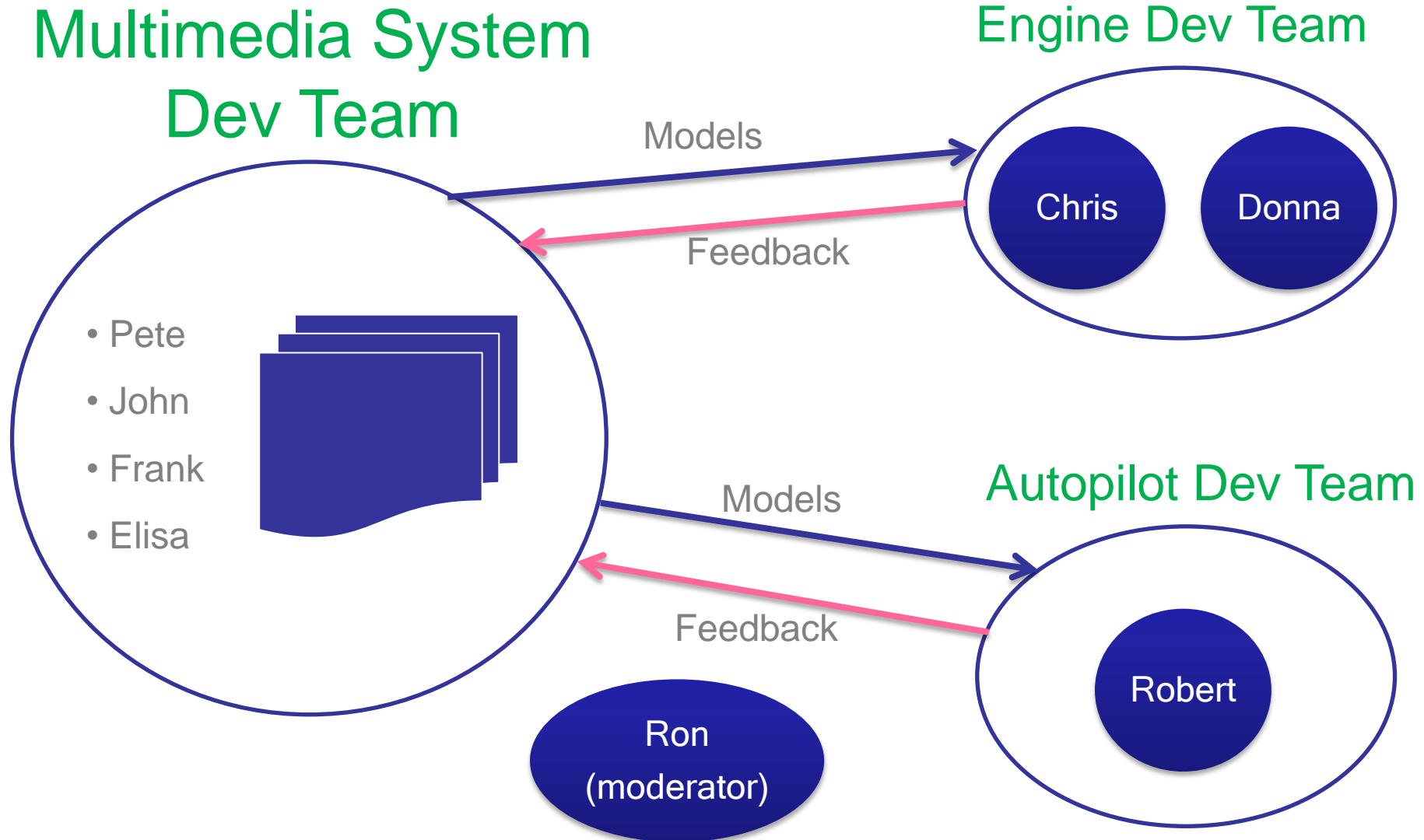
What is Cameo Collaborator?



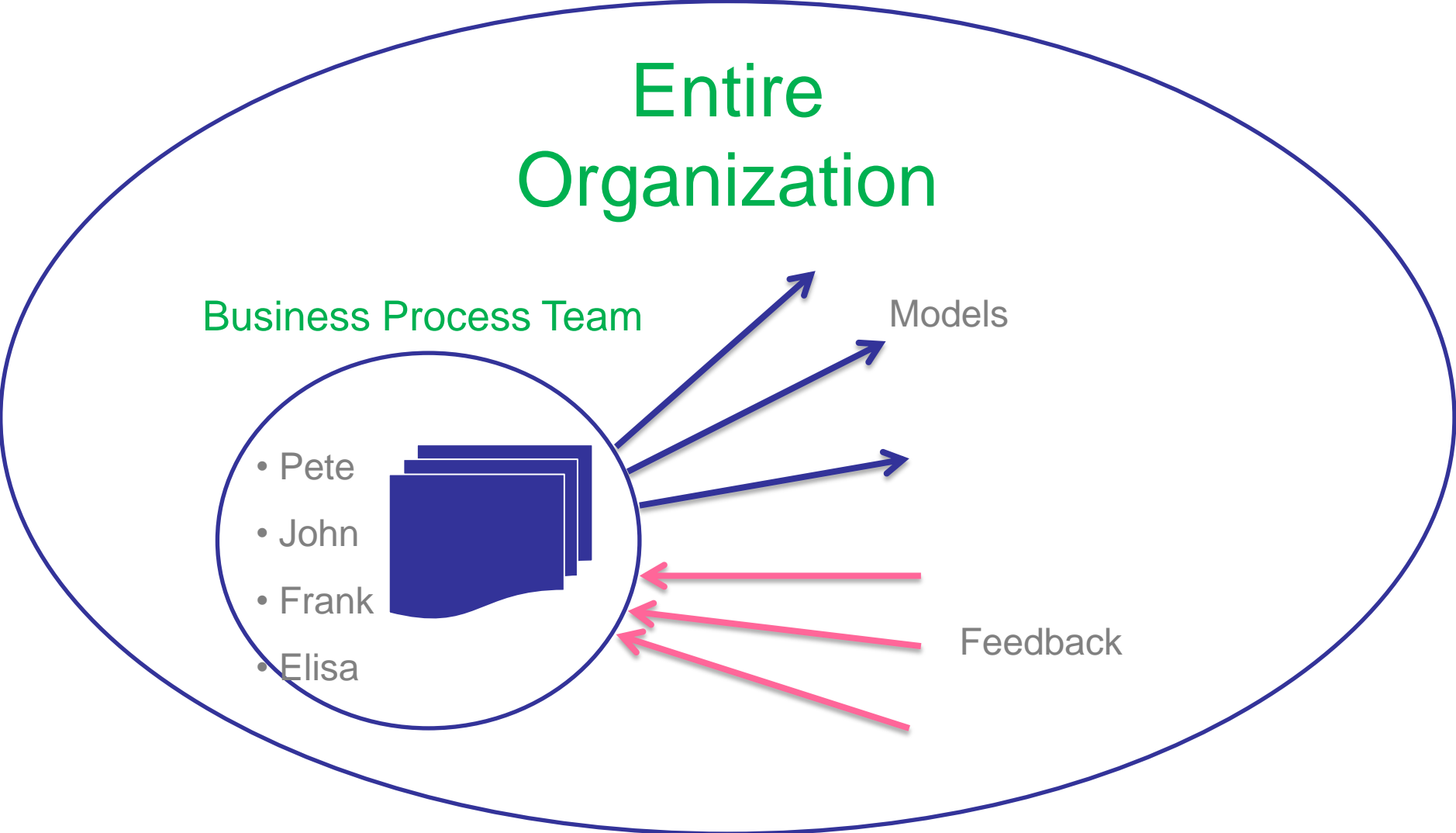
What is Cameo Collaborator: technical peer reviews



What is Cameo Collaborator: formal reviews



What is Cameo Collaborator: public community interaction



Graphical comments



Entire model Engineering Portal

Navigation

- 2.distiller block diagram (initial allocated)
- Distiller Block I
- distiller block c
- allocation
- Distiller Block I
- Tee Fitting
- distiller allocation
- distiller breakdown
- distiller breakdown
- fig 15.22 flow allo
- Revised Distiller Struc
- Revised Elaborated D
- Boiler
- Heat Exchanger
- Valve
- Distiller Use Cases
- Engineering Analysis
- Item Types
- Value Types
- model organization
- Tips & Techniques
- Power Station
- Start

2.distiller block diagram (initial allocated)

Characteristics

DONE All graphical comments

ibd [Block] Distiller [2.distiller block diagram (initial allocated)]

«FlowPort» dirty water : H2O main1 : H2O

«FlowPort» c in : Fluid «FlowPort» c out : Fluid

condenser

main2 : H2O «FlowPort» middle : Fluid

evaporator : Boiler

top : Fluid «FlowPort» bottom : Heat «FlowPort»

main3 : H2O «FlowPort» h out : Fluid «FlowPort» h in : Fluid «FlowPort»

main4 : H2O «FlowPort» purified : H2O

q in : Heat q1 : Heat

drain : Valve

allocatedFrom =

- a4
- a4

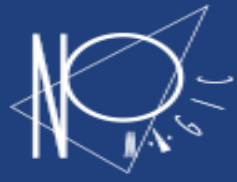
sludge2 : Residue «FlowPort» sludge : Residue

Index

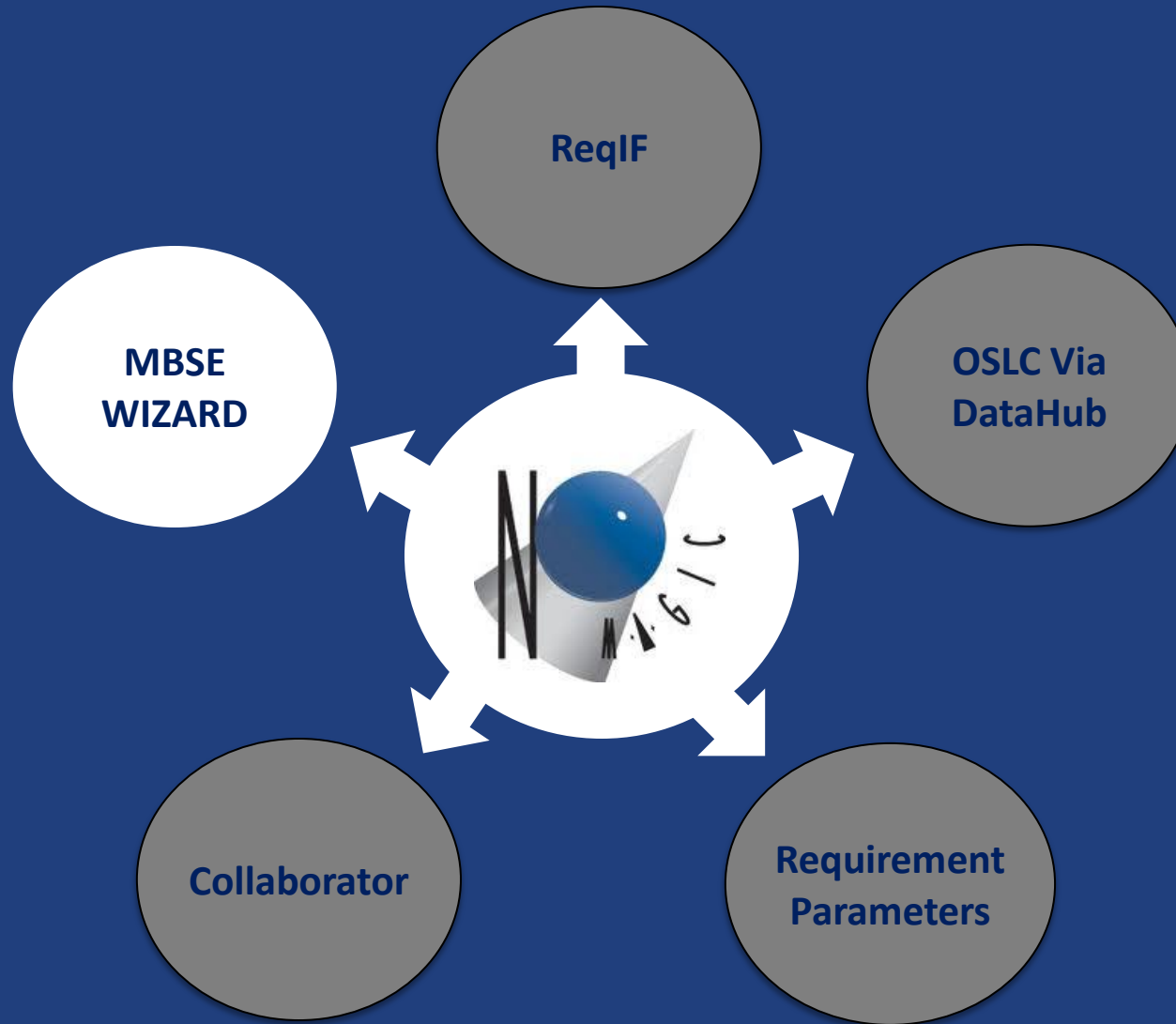
Add connector here

:Residue

Please delete this connector



No Magic's Solution



MBSE WIZARD

The MBSE wizard will allow new Systems Engineers to model using your everyday modeling techniques. The wizard allows Systems Engineers to add information to the MBSE WIZARD and create models without modeling. This concept is a rather basic fill in the blank method.

The screenshot shows a 'System Requirements' dialog box with a blue title bar. At the top right is a circular logo for 'Model-Based SysML Systems Engineering'. The main text reads: 'Let's start fleshing out requirements on any system elements that come to mind or make sense. Elements marked in red do not have any requirements assigned. You should consider creating or assigning requirements for them.' Below this is a list of 'Existing requirements:' with one entry: '5 Wizard [Vehicle::1-Requirements]'. To the right of the list are buttons for 'Show', 'Delete X', and 'More >>'. Below the list are input fields for 'Name:' (containing 'Wizard Phone'), 'Requirement text:' (containing 'The wizard shall have the ability to be used on a mobile device'), and 'Rationale:'. A 'Create' button is to the right of the 'Requirement text' field. At the bottom of the dialog are buttons for '< Back', 'Next >', 'Close', and 'Cancel'. A 'Help' link is also present.

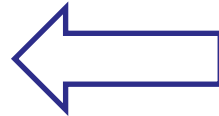
This screenshot shows a tree view of 'Existing functions:'. The functions listed are:

- t(New name : test1)
 - out New name :
- a(test : test1, out2)
 - in test : Vehicle::4-Input-Output Definitions::out2
 - out out2 : Vehicle::4-Input-Output Definitions::out2
 - in in2 : Vehicle::4-Input-Output Definitions::out1
- s(input test : test1, output : out1)
 - in input test : Vehicle::4-Input-Output Definitions::test1
 - out output : Vehicle::4-Input-Output Definitions::out1

This screenshot shows the 'Create new elements here.' section. It contains the text: 'Create new elements here. You can create multiple elements by typing each element name in a new row.' Below this text is a 'Create' button. To the right is an 'Add Input/Output' button.

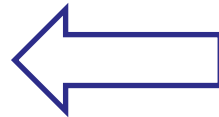
SysML Diagrams

- *Use Cases*
- *Activities*
- *Requirements*



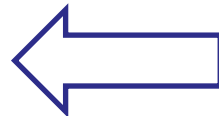
CURRENT FORM

- **Blocks**
- **Internal Blocks**



Version 1 June 10th.

- Sequence
- State Machines
- Parametric Diagrams



Version 2 TBD

Introduction to Model-Based Systems Engineering (MBSE) with SysML



Sandy Friedenthal

- Will be using MagicDraw in the training on Thursday



JUNE 7-JUNE 10, 2015

MBSE/SysML, Modeling, Enterprise Architecture,
Business Architecture & Integration, Ontology, and IoT

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Business Architecture & Integration, Ontology, and IoT

Network and interact with industry experts to learn more about Model-Based Systems Engineering (MBSE, SysML), Enterprise Architecture and Integration, Business Process Modeling (BPMN) and other technologies, and how these solutions work together to improve collaboration and ensure project success.

Whether you are a software developer, systems engineer, project manager, CIO/CTO/CEO, business analyst, or software architect, you will benefit from our interactive breakout sessions - more than 50 sessions in three tracks plus hands-on training and workshops.



Courtyard by Marriott; Allen, Texas

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Full Day Model Based System Engineering Training

Who Should Attend?

CIOs, CTOs, CEOs, Systems Engineers, Project Managers, Business Analysts, Enterprise Architects, Software Architects, Developers, and Educators.

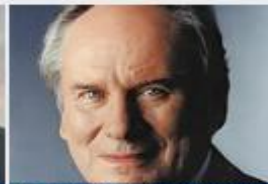
2015 SYMPOSIUM FEATURED SPEAKERS



John Zachman
Zachman International



Richard Soley
Chairman & CEO, OMG



Dr. August-Wilhelm Scheer
Founder and Director, IDS Scheer AG



Dennis E. Wisnosky
Founder and Senior Principal Partner, Wisdom Systems, Inc.



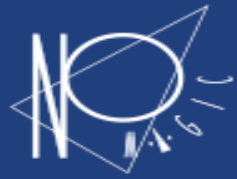
Sanford Friedenthal
MBSE Consultant



Gary Duncanson
CEO, No Magic

A ONE-OF-A-KIND GLOBAL CONFERENCE EXPERIENCE

- More hands-on workshops, more training, more live demos, tutorials, and a full day Industrial Internet Consortium Workshop
- Network and interact with UML, SysML, Business Analysts and Enterprise Architecture industry experts
- More than 50 interactive breakout sessions
- Experienced industry leaders delivering the information you need



DEMO

Our recipe for success



think **BIG**

start **SMALL**

and **EVOLVE**