# **Exploitation, Dissemination, Standardisation (WP7)**

Yvan Lussaud, OBEO



### **Business Model Canvas - Obeo**

| Key Partners                           | Key Activities  | Value Propositions  | Customer Relationships  | Customer Segment                                      |
|--|---|---|---|---|
| Sirius Existing<br>Users               | Communication & Events  | Dev outsourcing / expertise for - extraction rules - core new feature - high quality                    | <ol> <li>Open Source</li> <li>Software Editor guaranties</li> </ol>                                 | M&T Architect of                                      |
| MW Partners                            | Software Edition Professional   | Better Collaboration between doc & model authors  |   | Sirius community  2. System Engineers  3. Requirement |
| eclipse  Evangelists (MBSE, Req, Wiki) | Services  Key Resources  •MW Engine of WP6  •Expertise on MW internal: •Listing of existing users / customers of Obeo | Support & Maintenance Training  | 1. Conferences 2. Eclipse.org 3. Direct sales   | Engineers  4. Enterprise Architects  5. Pre-sales     |
| Cost Structure                         | products  | Integration with SCM, ALM, Editors  Revenue Streams   |   |   |
| Salaries of consultant                 | ts & MW committers es, communication, web)  | <ol> <li>Professional Services</li> <li>New features funding</li> <li>New option in Obeo Des</li> </ol> | per working day (on site or remote) igner annual support contract senses for collaborative features |   |



3

### WP7

# UNIT as a tool and technology provider



### Integration with Siemens Teamcenter PLM visualization

Required for FORD-OTOSAN use case

Using <u>JT Open Toolkit</u>'s C++ application programming interface for 3D product information <u>ISO 14306:2012</u> Industrial automation systems and integration -- JT file format specification for 3D visualization

### Integration with <u>IBM Rational DOORS</u> or <u>Esterel SCADE Suite</u>

Required for HAVELSAN use case

using <u>ReqIF</u> (Requirement Interchange Format) Standard and <u>Eclipse's Requirement</u> Management Framework (RMF)



### WP7 Market



Obeo Sirius

• 200 clients and about 10000 prospects

• 60% of Obeo's revenue

**MBSE** 

System analysis and live cycle tooling

 About 50 million euros (IBM, Siemens, Dassault System, PTC, ...)

Enterprise Architecture

• 100 million euros in France alone

9000 people certified Togaf 9 in the world

Competitors

- Reqtify, Recycle, DoorsNG
- Assets of MW: Open source, Interoperability, not only focused on requirements



# WP7 KPI



|  | Actual | Goal |
|--|--------|------|
| Number of users (not counting MW participants) | 0      | 10   |
| Number of projects using MW outcomes           | 0      | 6    |
| Unique visitors of MW website per month        | 0      | 300  |



# WP7 Exploitation



### Release of Tarski platform (WP3) – UNIT and KOCSISTEM

- Automated analysis and dynamically configurable semantics of traceability links
- Standalone and open source https://github.com/ModelWriter/WP3

# Achievement: Synchronization of EGR & FEAD designs with specifications

- Improve review process of engineering teams
- Impact analysis of design changes

### Release of M2Doc – Obeo

- ModelWriter helped us to ramp-up MS Word document creation and Java API
- New product of MS word document generation M2Doc
- Future new feature for traceability using ModelWriter mapping API



### WP7 Exploitation



### Release of Synchronization Engine and UI – Obeo

- Synchronization engine frist version
- First implementation of GUI

# Ontology consistency checking – CNRS and Airbus

- Identify and remove inconsistencies from the knownledge base
- Solution based on Airbus needs

# MS Word plug-in – UNIT and HISBIM

- Enable seemless integration with ModelWriter on Eclipse platform
- GUI is almost ready
- Working on integration of Eclipse platform and MS Word plug-in with respect to ModelWriter workspace



## WP7 Exploitation



#### Release of Component Ontology – Airbus

- partially describes the vocabulary used in the SIDP documents and database
- Improves the SIDP model developed in first semester
- Used for semantic annotation and link creation

Web based services for Turkish language support – Mantis

#### Highlight experience of industrial end users

- Airbus
- Havelsan
- Ford-Otosan



# WP7 Dissemination



#### 6<sup>th</sup> international ModelWriter Workshop (25 February 2015)

- Product owner review
- Integration of first release

#### 7<sup>th</sup> international ModelWriter Workshop (6 June 2016)

- At Airbus headquarter
- Brain storming and progress presentation
- Mapping base design and sketches of GUI by Obeo

#### Airbus Friday TechTalk

- Demonstration of current state
- Presentation of objectives



# WP7 Dissemination



#### MPM4CPS (Multi-paradigm Modeling for Cyber-physical Systems) Cost Action

• UNIT and AIRBUS are Management Committee Members representing Turkey and France in this COST action

The European Research Network on Software-intensive Systems-of-Systems (SiSoS)

• UNIT is a participant in the network

#### **ITEA3-Assume** project

• Ford-Otosan, Havelsan, KocSistem and UNIT participates in that project



#### WP7

### Dissemination



### **ACM Applied Computing Symposium**

• Paper submited and uneder review

# SAT/SMT/AR Summer School

Poster presentation

### **VTSA Summer School**

Poster presentation



# WP7 Dissemination





### Target developers as early adopters

• EclipseCon, SiriusCon, Eclipse Demo Camp

Move MW project to Eclipse foundation



# WP7 Standardization



### Modular architecture

- Open source
- API
- Definition of domain model for mapping

### Used standards

- EMF based of MOF
- XMI serialization
- Standard ontology formats (owl, rdf, turtle, ...)

