

the Brainware company



Intecs Vision on OSS Silvia Mazzini

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Intecs 2014 – Roma-Cagliari-Genova-L'Aquila-Milano-Napoli-Pisa-Torino-Munich-Paris-Toulouse-Munich

















- Long experience as commercial technology provider, since 1990, in the area of System and Software Engineering Methodologies
- Commercial products:
 - ✓ HoodNICE Full support to the HOOD design method
 - ✓ HRT-HoodNICE Full support to the HRT-HOOD method
 - UmINICE Full support to UML
 - ✓ HRT-UML Incorporates and improves the principles of HRT-HOOD into UML
- Focus on
 - \checkmark UML and other OMG profiles (e. g. SysML, MARTE) since 1996

















- Long experience with the Eclipse Modelling Framework (EMF), as reference modelling technology, for since 2006
 - ✓ Applied for tool prototyping in R&D projects (e.g. ASSERT)
- Usage and extensions of TOPCASED and Papyrus, since 2009
 - ✓ Reference modeling technologies for R&D projects and ESA studies (e.g. CHESS, FoReVeR, CONCERTO)
- Main committer of the CHESS Project under Polarsys
- Promoting Polarsys in Italy

















- Model based methodologies shall be shared published, free to everyone to increase the business
- ✓ Model based methodologies require standardized languages
 - education and training should be available, standardization should be supported
- Model based methodologies expensive tool support, integrated tool-chains (e.g for analysis, simulation, testing), ad-hoc customizations are often required (e.g. to adapt to company assets)
- The market of modeling tools is monopolistic, dominated by a limited number of companies (e.g. IBM, Matlab)
- Commercial modelling toolsets are very expensive, (long term) maintenance and support for customizations is not guaranteed



The OSS Business Model















- Delivery of OS tools
 - ✓ Improve visibility, usability and standardization
 - Enable peer review
 - ✓ Improve IP protection
 - ✓ Improve collaboration among research aand technology providers
 - Enable exploitation of prototypes, maturation of tools
 - Improve maintenance/evolution possibilities
- But OS tools have a cost
 - ✓ For development, maintenance, evolution
- OS providers may offer
 - Support, consulting, migration, training, customizations, development of specific applications



















- ESA should push for the development and maintenance of OOS technology to support basic modelling tools (e.g. modelling editors, team support, version management) the common needs of the Space European Industry
- But, keeping and protecting IPs of providers (as usual)
- OOS technology (even prototypes) can be shared, understood, changed, adapted (also for special/competitive/business sensitive needs), and <u>optionally</u> redistributed (under new, or extended IPs)
- European Providers can improve their competitiveness by offering services on the OOS technology (training, maintenance, adaption)
- The Space European Industry may share the cost for the development of basic, interoperable, reference tools and drive the requirements for their evolution (and develop their asset on top of them to improve its business) ESA/SAVOIR co could have a role here
- The evolution, adoption and standardization of OOS tools would be much faster – ESA/SAVOIR could have a role here
- The quality of collaboration (and competitiveness) among Space European Industries would improve



THANK YOU !



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