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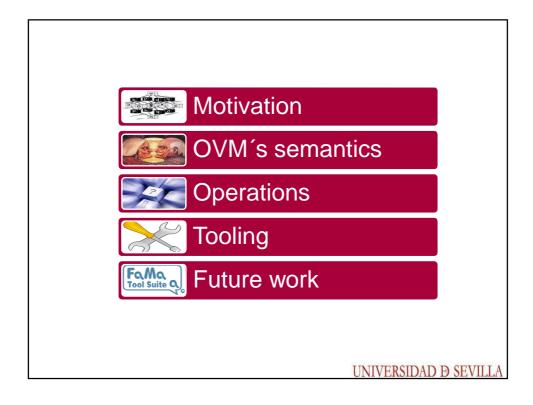
Applied Software Engineering

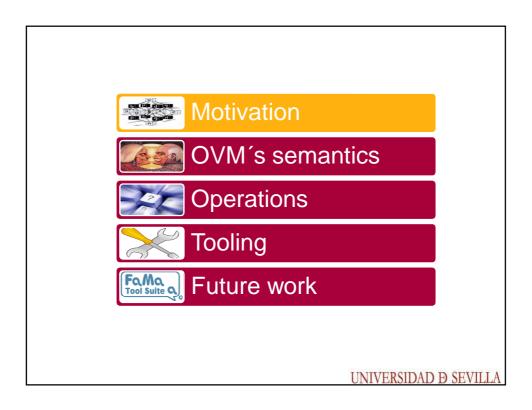
Automated Analysis of Orthogonal Variability Models. A First Step

Fabricia Roos Frantz and Sergio Segura



() Isa http://www.isa.us.es



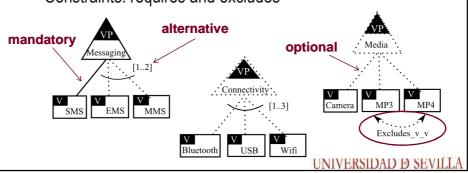


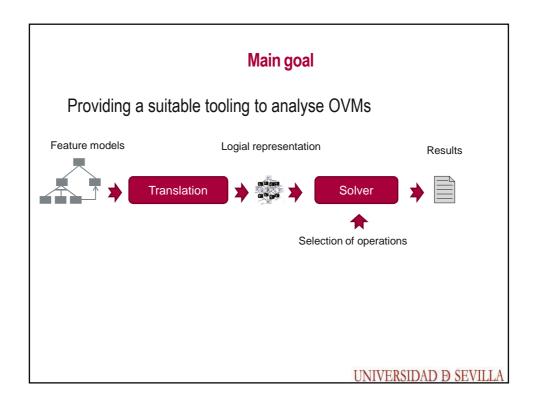
Orthogonal variability model (OVM)

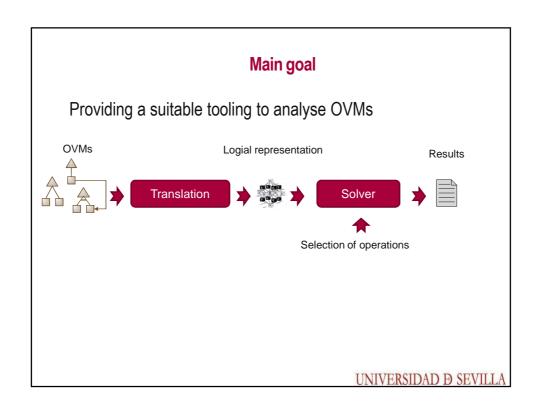
• OVM is a variability model that documents only the variability of a SPL [Klaus Pohl et al., Springer, 2005]

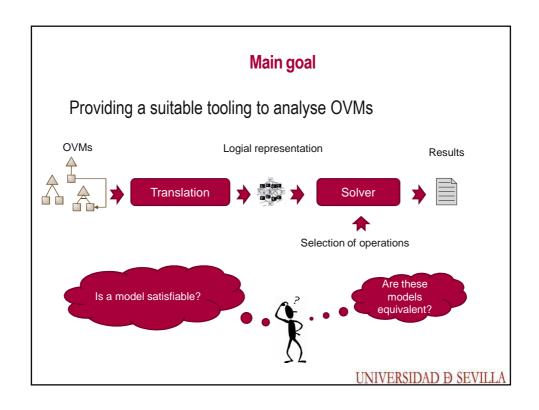


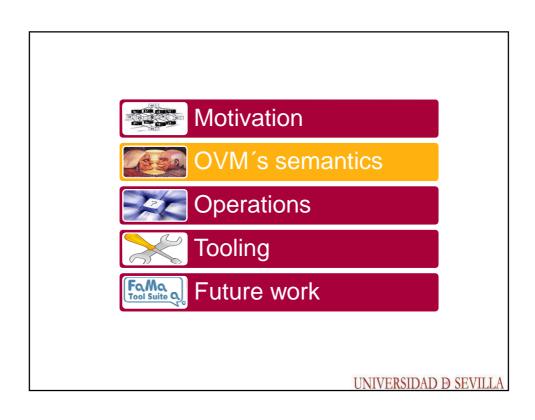
- Variation points and variants
- Mandatory, optional and alternative relationships
- Constraints: requires and excludes

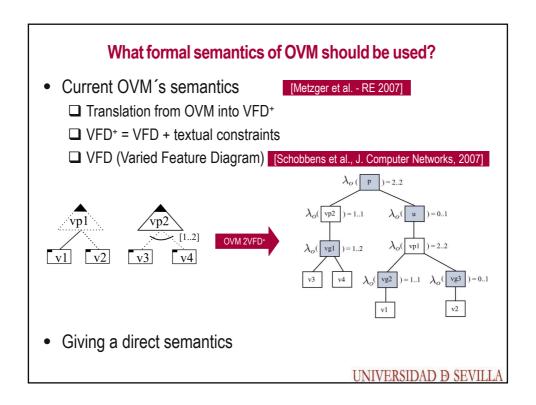


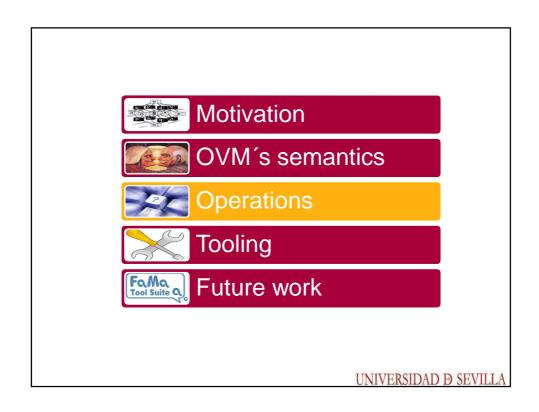


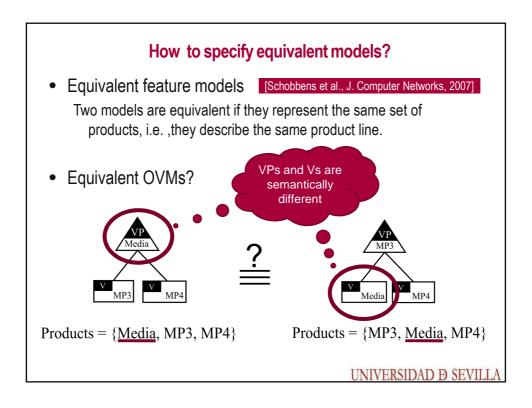


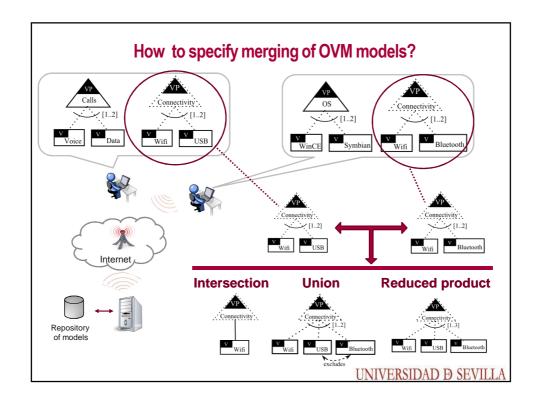


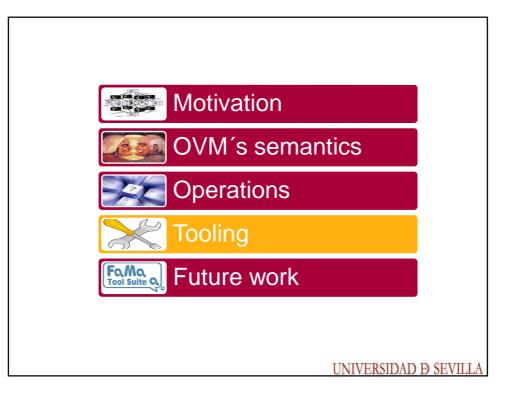












Tooling for the analysis of OVMs

How to provide a suitable tooling to analyse OVMs?

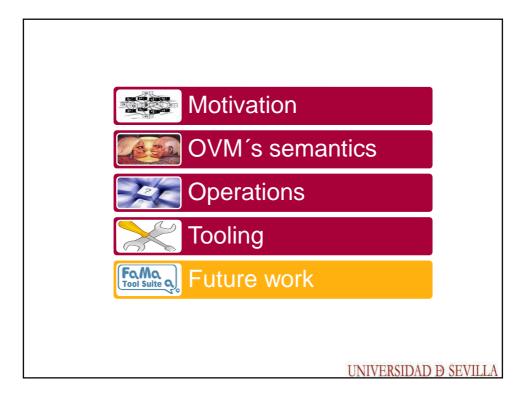
FAMA

FAMA-F is a formal framework for the automated analysis of software product lines in general and feature models in particular.

FAMA-FW an extensible framework for the automated analysis of Variability Models integrating different logic paradigms and solvers.

FaMa website: http://www.isa.us.es/fama

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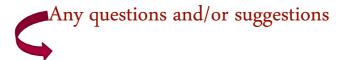


Future work

- Studying OVM's semantics
- Working on equivalent OVM models
- Formal definition of merging of OVM models
- Using FAMA as tool support
- Integrate with existing OVM edition tools

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Thank you!!





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