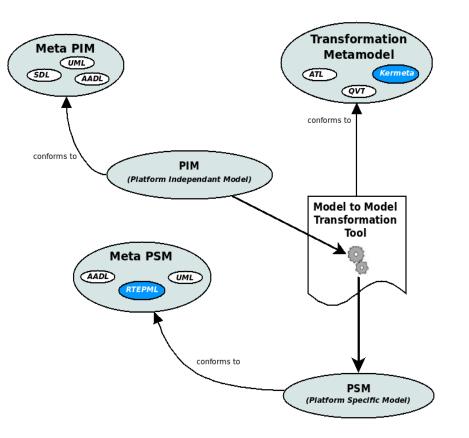
RTNS 2010 4th Junior Researcher Workshop on Real-Time Computing (JRWRTC10) November 4th, 2010, Toulouse, FRANCE

Towards a Behavioral Modeling of Real-Time Kernel in a Model Driven Development Approach

Cédrick Lelionnais & Jérôme Delatour TRAME Team http://trame.eseo.fr

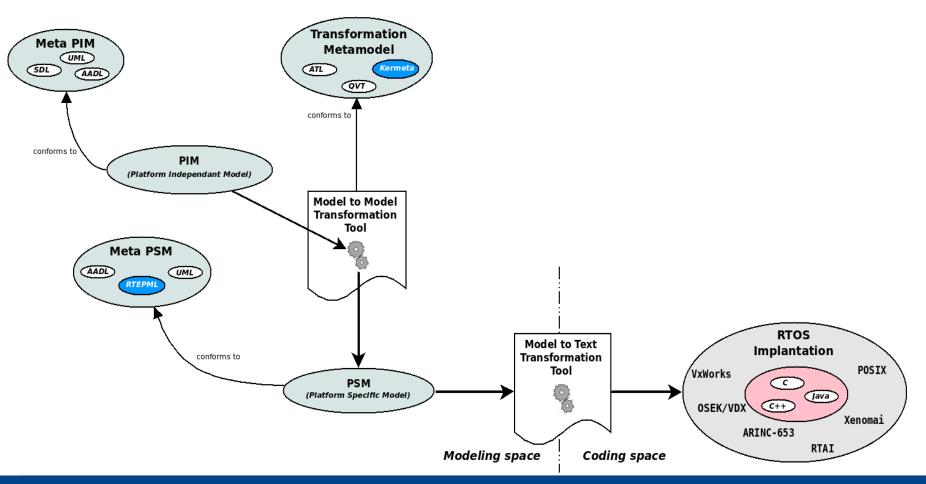


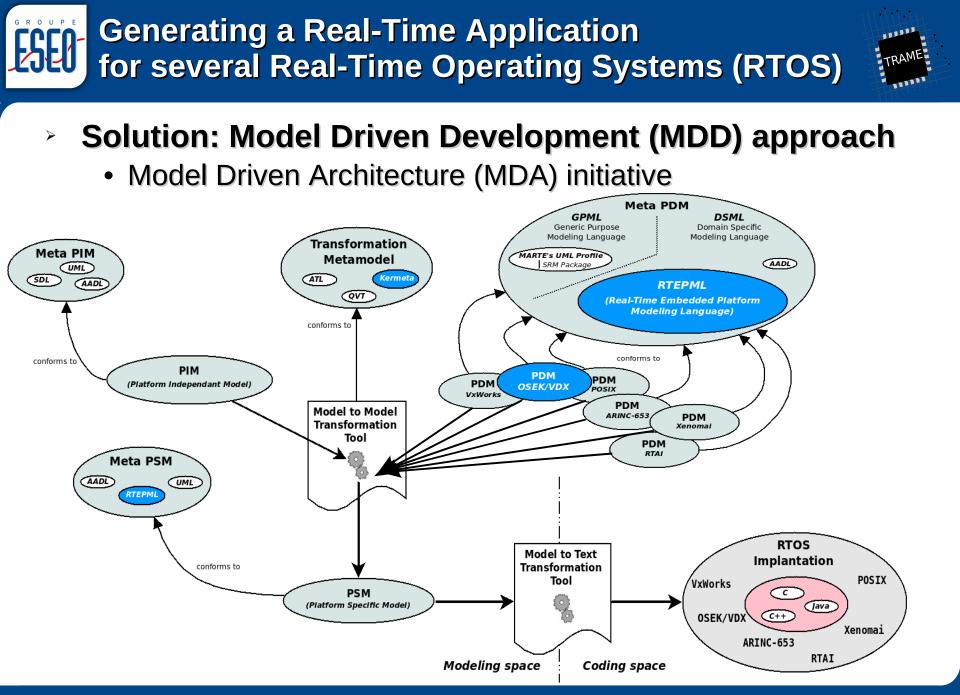
- Solution: Model Driven Development (MDD) approach
 - Model Driven Architecture (MDA) initiative

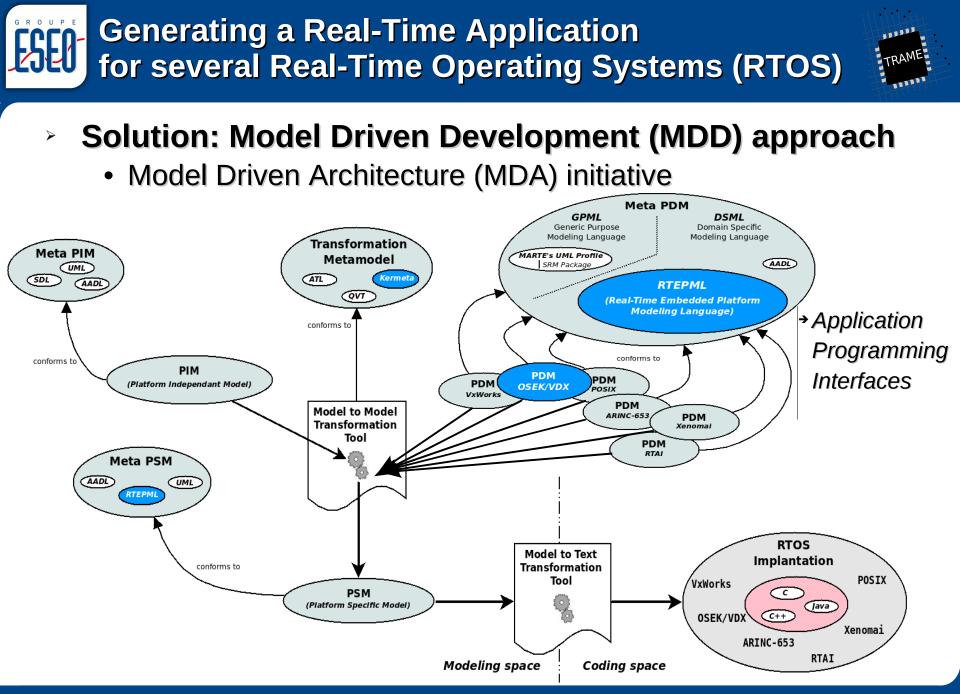


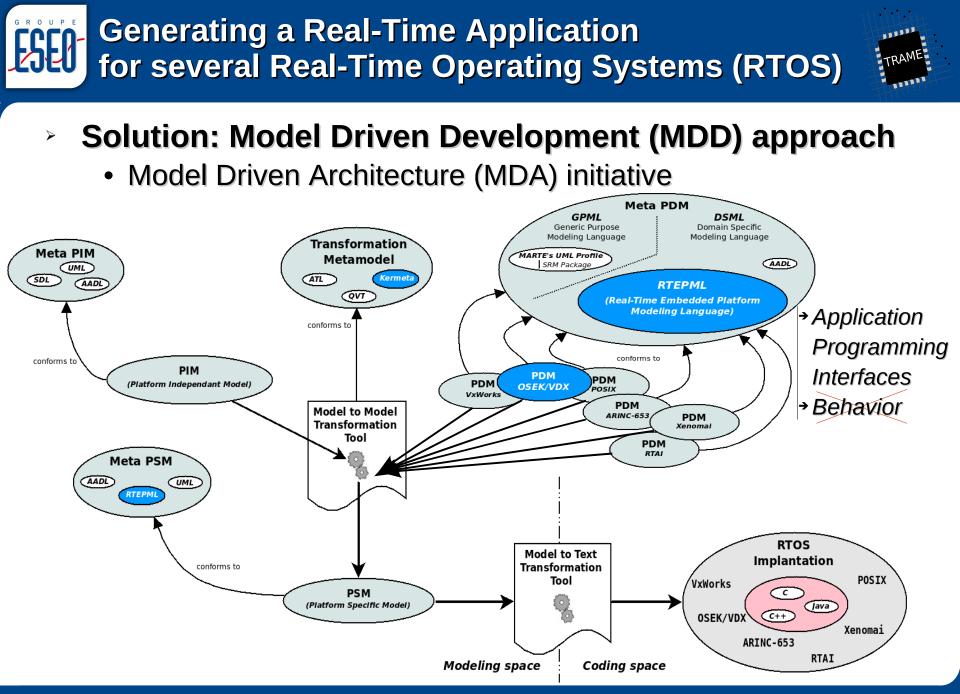


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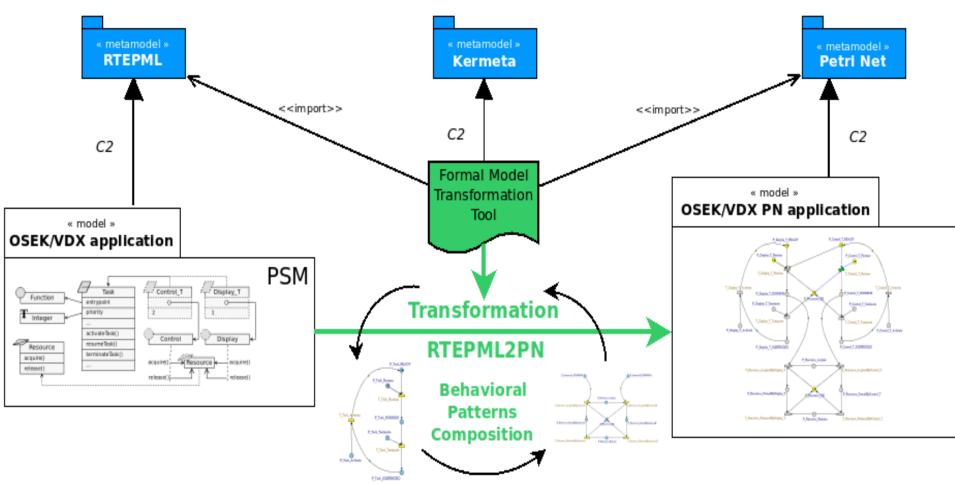






Towards a Formal Behavioral Modeling

- A six-month experimentation relying on OSEK/VDX
 - RTEPML to Petri Net Transformation Prototype

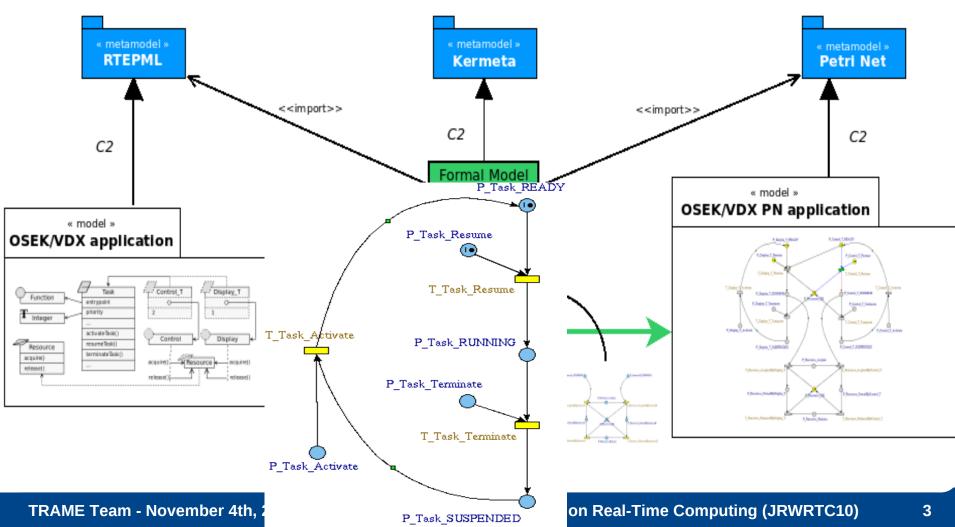


Towards a Formal Behavioral Modeling

A six-month experimentation relying on OSEK/VDX

TITL

• RTEPML to Petri Net Transformation Prototype







4

- Feedback
 - 70% OSEK/VDX's concepts formalized
 - Transformation prototype developed in 2 months
- Future Prospects
 - Correctness of behavioral patterns
 - Consideration of other RTOS
 - Extension of RTEPML's syntax





Thank you for your attention