

CSU Software Engineering Group's Collaborations with European Institutions

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Goals of International Collaborative Research Program

- Develop techniques, processes and tools supporting use of models at runtime
 - Leverage development models at runtime
 - Use of aspect-oriented models to describe variants that are composed with base system during runtime

Initial Funding

- Provided by the NSF's Office of International Science and Engineering (2004-2005)
 - Planning visits/workshops program
 - Funded trips by the CSU team to collaborating sites in Norway, Canada and France

Collaborators

- IRISA/INRIA (France): Jean-Marc Jezequel, Benoit Baudry
- Lancaster University (UK): Gordon Blair, Awais Rashid
- SINTEF (Norway): Geir Horn, Arnor Solberg
- Carleton University (Canada): Murray Woodside, Dorina Petriu

Results

- European group (UK, France, Norway) applied for funding under the EU FP7 program in 2007
 - Spent sabbatical at Lancaster and INRIA/IRISA France in 2006-2007
- US team submitted a PIRE grant in 2007
- EU project funded; PIRE grant was not

The EU Project



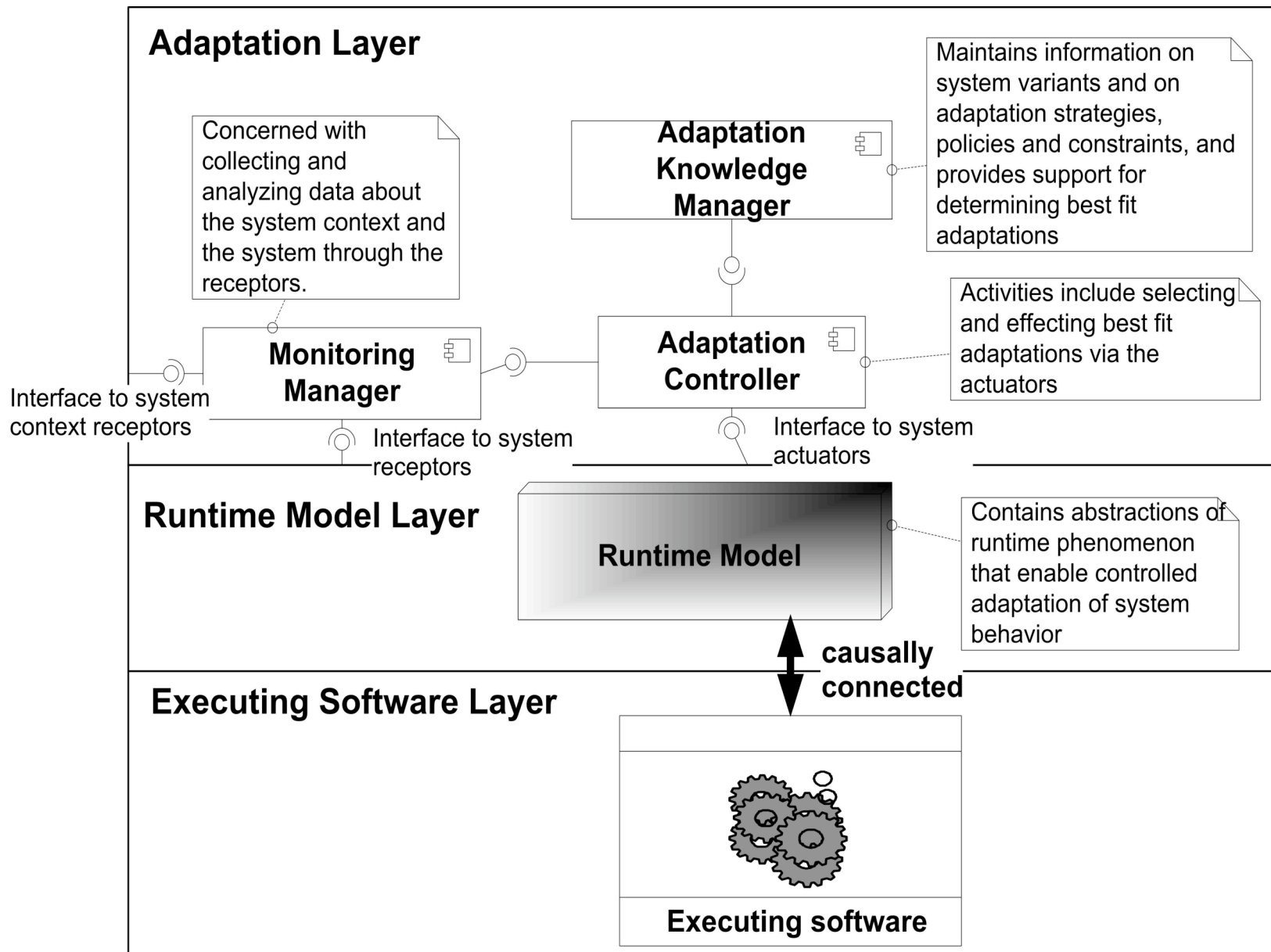
- Dynamic Variability in complex, Adaptive systems (DiVA)
 - The goal of DiVA is to provide a new tool-supported methodology with an integrated framework for managing dynamic variability in adaptive systems. This goal will be addressed by combining aspect-oriented and model-driven techniques in an innovative way.
- Funded by the ICT - Information and Communication Technologies priority of the EU's Seventh Framework Programme.

Industrial Partners

- CAS
- Pure Systems
- Thales

<http://www.ict-diva.eu/>

Models@run.time



Potential Collaboration Area

- *Infectious Disease Decision Support System (DSS) Framework*
 - **Long-term objective is to develop an adaptable low-cost framework that extends the current capability of national and local health organizations in developing countries to establish and operate effective prevention and control programs for mosquito-borne infectious diseases.**
 - **The near-term aims are to develop:**
 - a dengue DSS framework that can be adapted by health professionals
 - a framework that supports the generation of DSS's for different infectious diseases.
- *Adaptive Disaster Management Systems*

CSU/INRIA Collaboration

- **MoCAA Equipe Associée**
- **Primary focus areas**
 - **Semantic model composition**
 - **Human-driven runtime adaptation**
 - **AOP and testing**
- **<http://www.irisa.fr/triskell/matt/>**