

TRAME Team

- PhD on the analysis and verification of real-time systems (UML/PNO)
 - Timing constraints, coupling UML and Time Petri Net (with linear logic)
- Associate professor in a French engineering school (ESEO), Angers (west of France)
- Since 2004, leader of the TRAME team

TRAME (TRAnformations de Modèles pour l'Embarqué)

Model Transformations for Embedded systems

Goal :

- Developing semi-automatic assistants for the development of embedded systems using Model Driven Approach

In adapting :

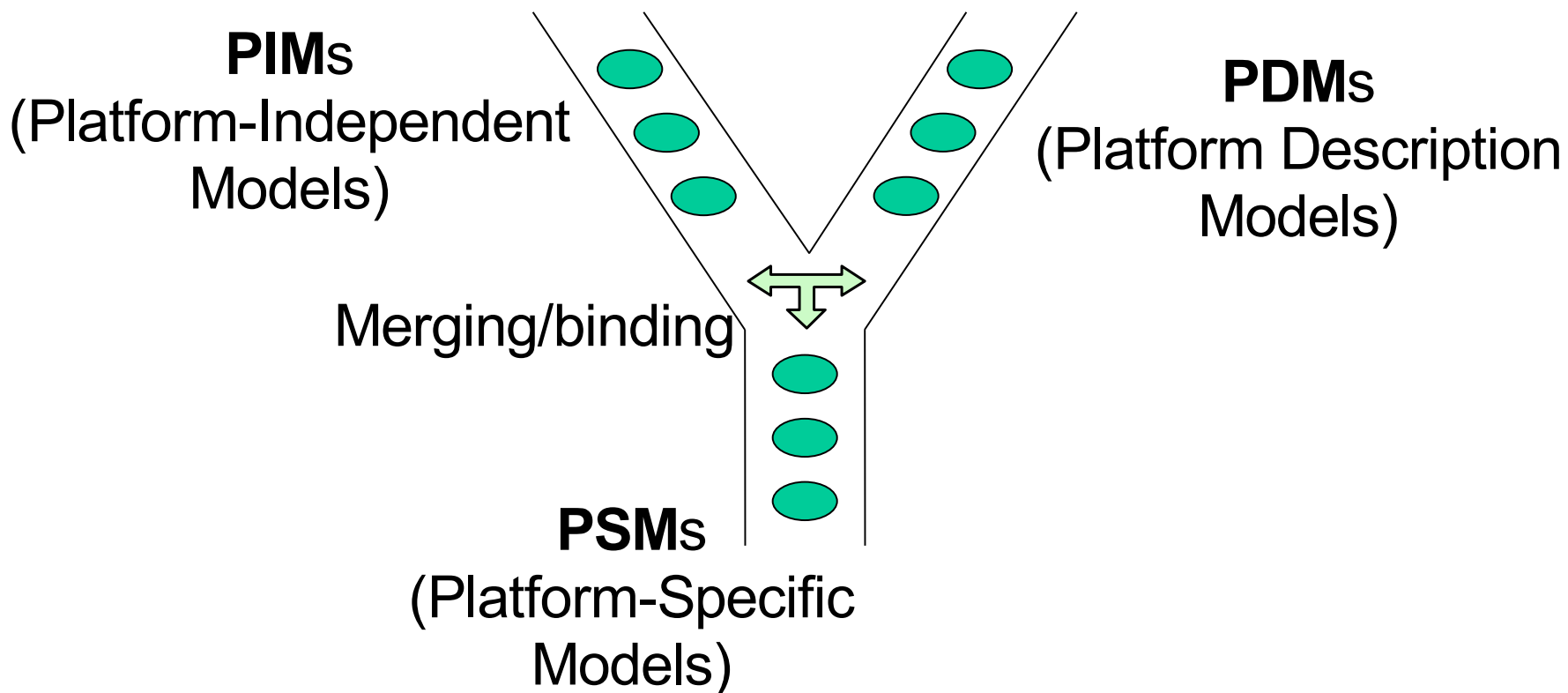
- Existing (industrial and/or research) models/tools for co-design

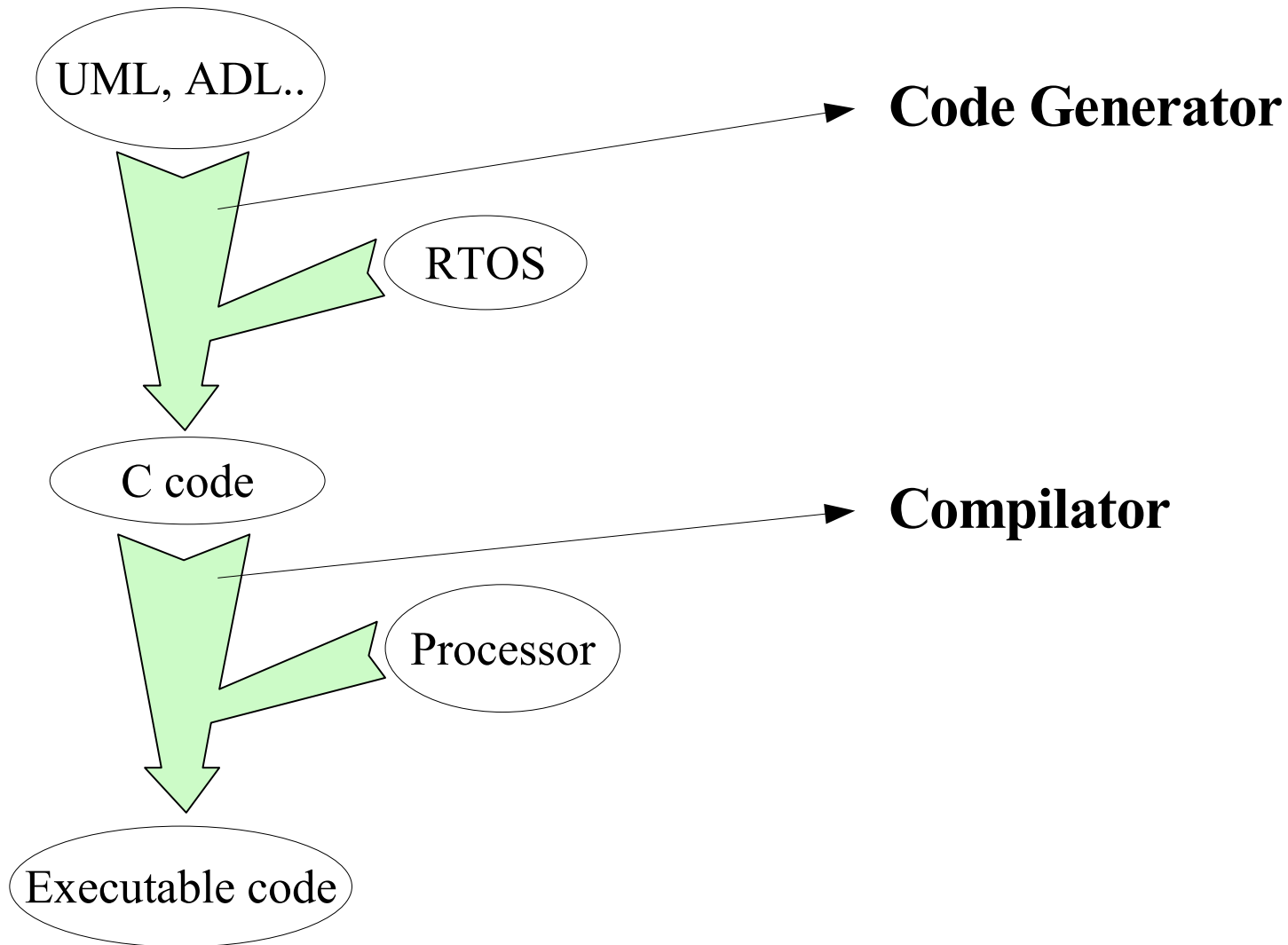
Based on previous or current works :

- High-Level Hardware Synthesis (GAUT)
- Design Flow for Process Control Applications
- Intelligent Sensor Architectures
- UML for Real-Time Systems (UML/PNO, <http://argopno.tigris.org>)

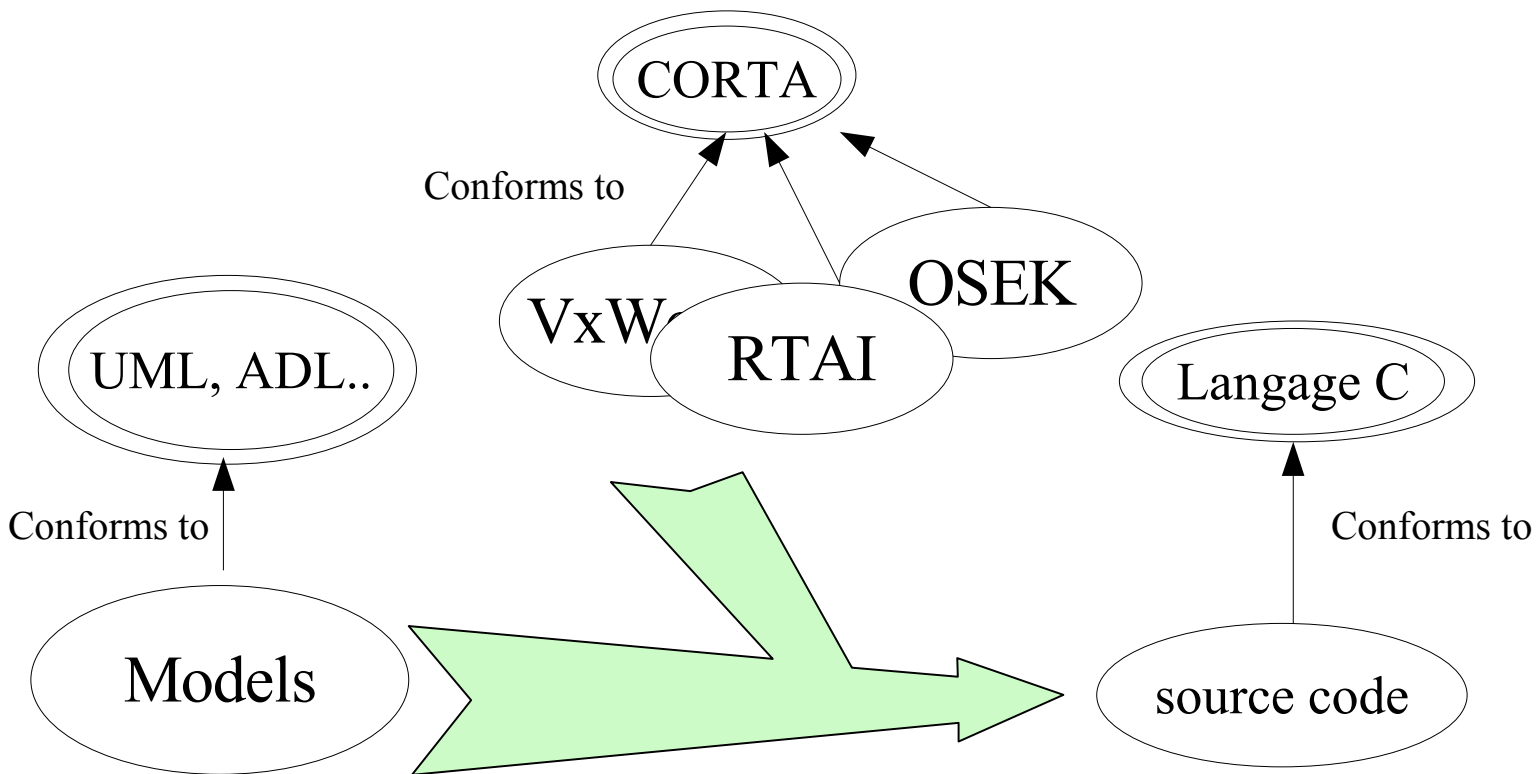
- University
 - On metamodel definition
 - IRCCyN, Nantes (5 masters in 2003/2005)
 - LESTER, Lorient (2 masters in 2004-2005)
 - LAAS, Toulouse
 - On transformation language
 - ATLAS, Nantes (1 master in 2003)
- Industrial
 - ATMEL, Thales, CEA
 - TopCased (www.topcased.org)
 - Open 4 Autosar
- Definition of UML MARTE profil (future real-time UML profil)
 - www.promarte.org

Meaning of platform for real-time embedded systems ?

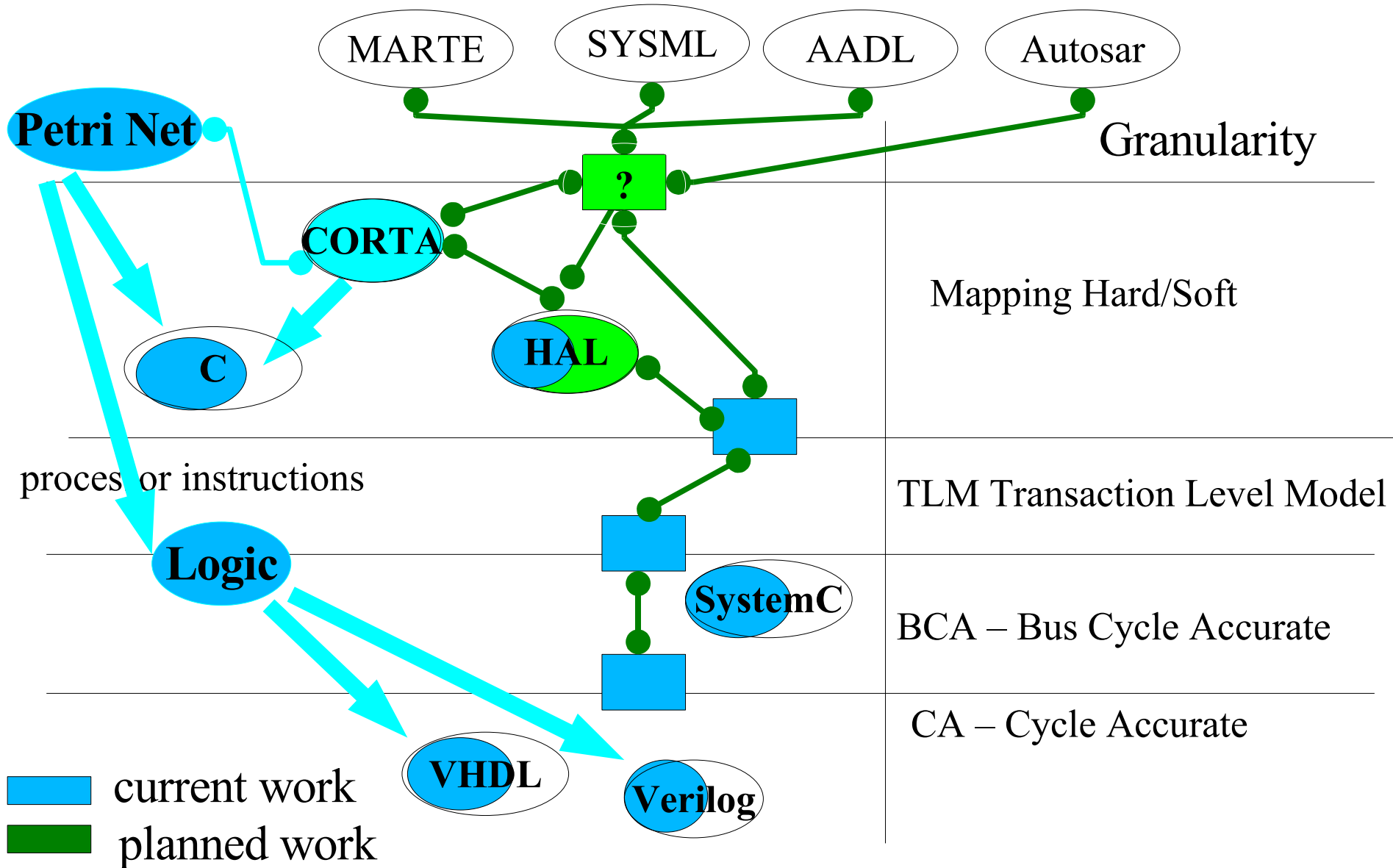




CORTA : Concept of Real-Time Application



Different platform abstractions



- Everything !
- Discussions and reflexions
- Exchange on experimentations
- Model patterns and Meta-Model zoo
- DSL
- Tools
 - TRAME : experience of ATL, experiment on Eclipse (EMF, GMF and GMT)