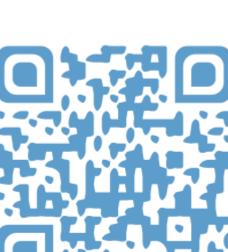


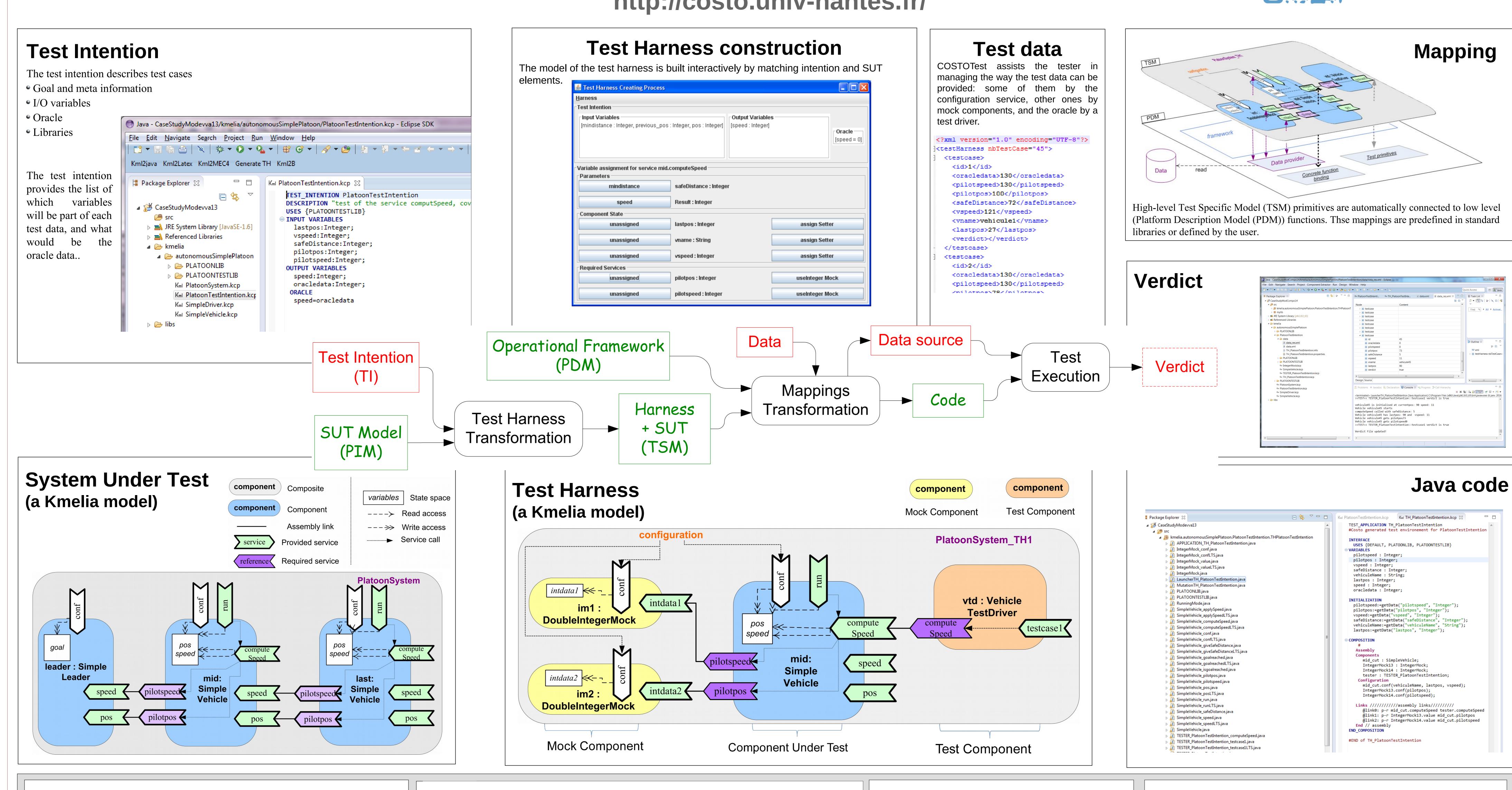
# **COSTOTest**: a Tool for Building and Running Test Harness for Service-Based Component Models Software







http://costo.univ-nantes.fr/



## **Abstract**

Early testing reduces the cost of detecting faults and improves the system reliability. In particular, testing component or service based systems during modeling frees the tests from implementation details, especially those related to the middleware. COSTOTest is a tool that helps the tester during the process of designing tests at the model level. It suggests the possibilities and the lacks when (s)he builds test cases. Building executable tests is achieved thanks to model transformations

## **Some Publications**

- Pascal André, Gilles Ardourel, and Christian Attiogbé. Dening Component Protocols with Service Composition: Illustration with the Kmelia Model. In SC'07, volume 4829 of LNCS. Springer, 2007.
- Pascal André, Gilles Ardourel, Christian Attiogbé, and Arnaud Lanoix. Using assertions to enhance the correctness of kmelia components and their assemblies. Electronic Notes in Theoretical Computer Science, 263:5 – 30, 2010. Proceedings of FACS 2009.
- Pascal André, Jean-Marie Mottu, Gilles Ardourel. Building Test Harness From Service-based Component Models. In the Proceedings of the Workshop MoDeVVa 2013 associated with Models2013, pp. 11-20, Miami, USA, 2013.

# **Key features**

- Component and Service
- Required service context Model-checking
- Contract and Protocols

Assembly and mappings

- Theorem proving
- Model Transformation
- Mutation

Model Testing

• Test Harness

### For further information

Please contact jean-marie.mottu@inria.fr pascal.andre@univ-nantes.fr

#### **AeLoS/AtlanModels Teams**

LINA - UMR 6241

CNRS - Université de Nantes – EMN – France

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