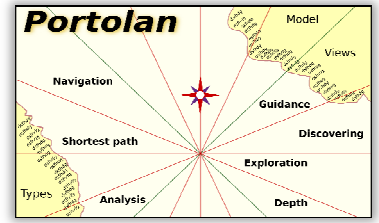




Portolan

A Model-Driven Eclipse-Based Customizable Solution for Tool Cartography



Prototype initiated and currently developed by the **AtlanMod Team (INRIA & EMN)**



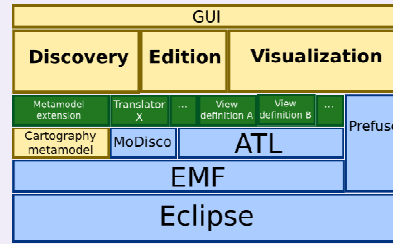
Identify Interoperability Solutions:

In both the business and IT worlds, companies are now using **many different software tools** covering multiple inter-connected domains and related features. Because of the **high complexity** and **heterogeneity** of these organizations, it is more and more important to be able to have a **real clear vision of the actual situation** in terms of considered tools and various relationships (either already existing or potential) between them. This knowledge is fundamental in the process of:

- **evaluating/measuring** deployed architectures;
- **specifying** their future evolutions;
- **elaborating on brand new solutions.**

Model-Driven Cartography

- **Metamodeling** for map definition & representation
- **Megamodeling/model weaving** for inter-element relationship management
- **Model transformation** for visualization generation

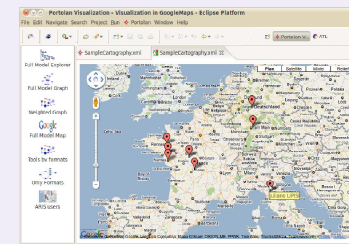
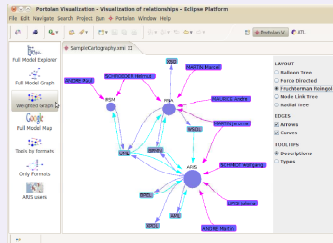
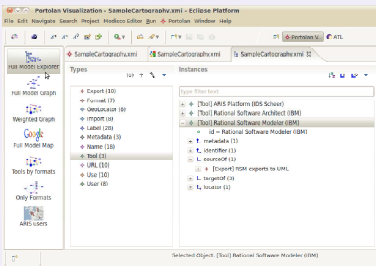


- **Raised level of abstraction** (domain-focused)
- **Extensible & reusable components**

What Is Portolan?

Portolan provides a customizable **model-based & model-driven cartography platform** for efficiently initiating interoperability establishment processes composed of the following steps:

1. **Establish a cartography** of the current situation
2. **Exploit/analyze** this cartography
3. **Identify which bridges** could be used, **specify** the missing ones
4. Implement the missing (parts of) bridges using this information



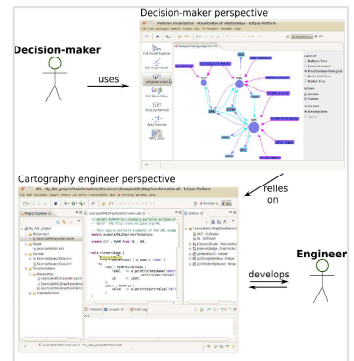
Some available examples of cartography visualizations:

- MoDisco Model Browser
- Prefuse Visualization Toolkit
- KML in Google Maps
- Possibly others...

Portolan Perspectives

The **decision-maker** is the end-user

The **cartography engineer** customizes the environment



Portolan Main Features

- **Discover maps** representing tools, formats, users, etc and their relationships
- **Fully navigate and edit** these maps
- **Augment or specialize** these maps (manually or automatically)
- **Visualize** these maps in different ways for a better understanding
- Provide relevant outputs to **determine interoperability solutions**

Contact Us

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Download a ready-to-use bundle from:
http://www.emn.fr/z-info/atlanmod/index.php/Model-Driven_Cartography

Related Projects

Eclipse-M2M ATL: <http://www.eclipse.org/m2m/atl/>
Eclipse-MDT MoDisco: <http://www.eclipse.org/MoDisco/>
Prefuse Visualization Toolkit: <http://www.prefuse.org>
KML (OGC® open standard) in Google Maps:
<http://code.google.com/apis/kml/documentation/mapsSupport.html>