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Ontology Network Life Cycle Model

An **ontology network life cycle model** is defined as the framework, selected by each organization, on which to map the activities identified and defined in the NeOn Glossary of Activities in order to produce the *ontology network life cycle*.

As in Software Engineering, in the *Ontology Engineering field*, there is not a unique model valid for all ontology development projects, since each life cycle model is appropriate for a concrete development, depending on several features.

The **ontology life cycle** is the <u>specific sequence of activities</u> that the ontology practitioners carry out for developing an ontology.



- NeOn Deliverable D5.3.1 (2007)
- I-SEMANTICS 2008
- □ PhD Thesis (2010)



Waterfall and Iterative-Incremental Models

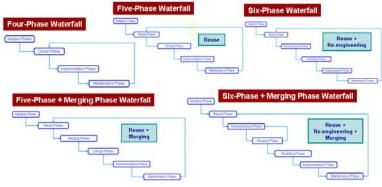


Waterfall Model

 To be used when: the requirements are completely known, without ambiguities and unchangeable at the beginning of the ontology network development.

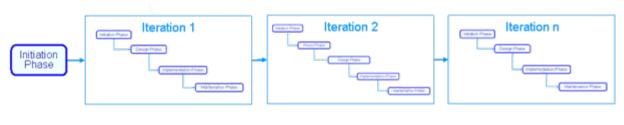


Scenarios identified caused the creation of different versions



Iterative-Incremental Model

- The development of ontology networks organized in a set of iterations.
- The result of any iteration is a functional and partial ontology network that meets a subset of the ontology network requirements.





PhD Thesis (2010)



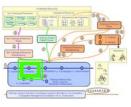
Scheduling. Filling Card



Scheduling

Definition

Scheduling refers to the activity of identifying the different activities and processes to be performed during the ontology development, their arrangement, and the time and resources needed for their completion.



Goal

The scheduling activity states a concrete programming or scheduling to guide the ontology network development, including processes and activities, their order, and time and human resources restrictions and assignments.

Input

Ontology Requirements Specification Document (ORSD).

Output

Schedule for the ontology network development.

Who

Software developers and ontology practitioners, who form the ontology development team (ODT), in collaboration with users and domain experts.

When

This activity must be carried out after the ontology requirements specification activity.



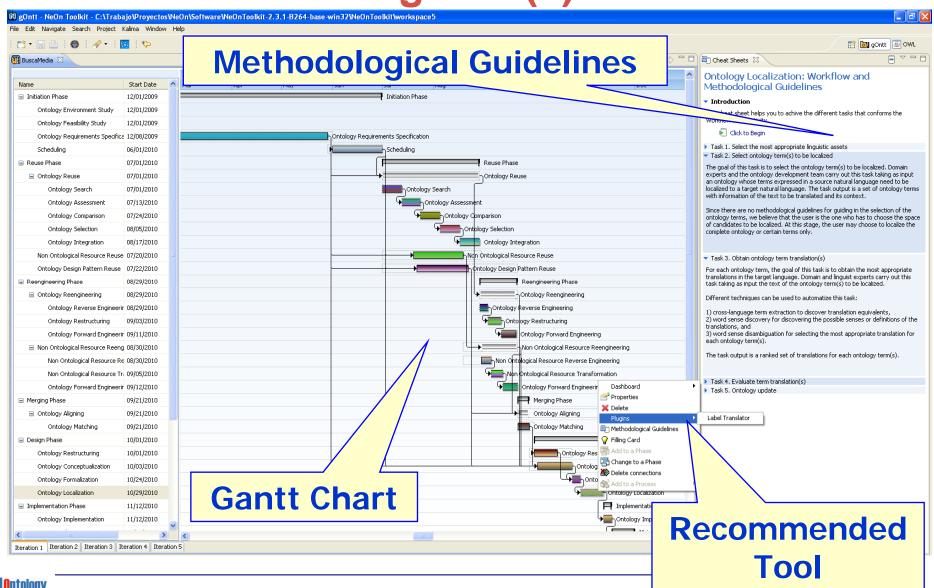


PhD Thesis (2010)

Scheduling: Technological Support. gOntt (I)

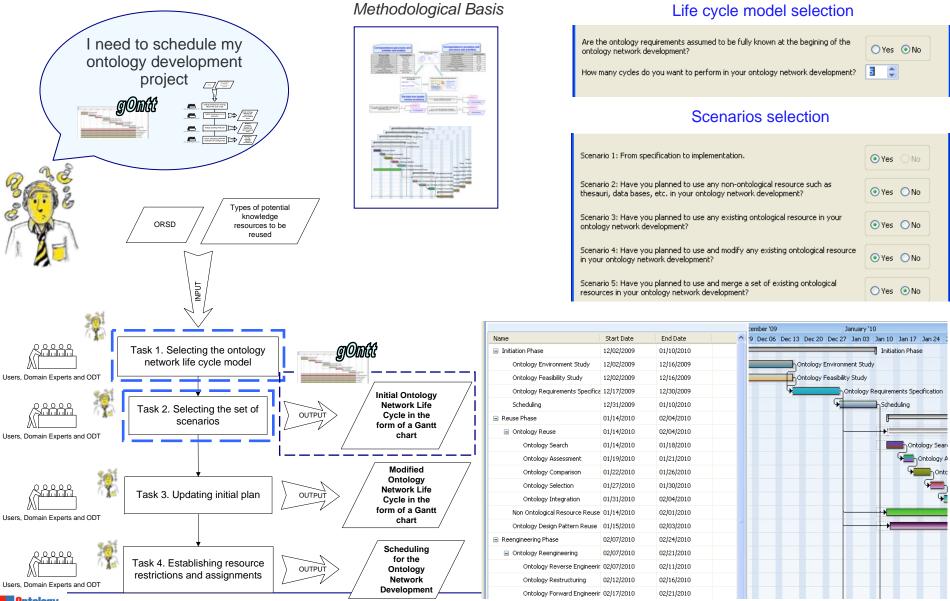
- gOntt helps in scheduling an ontology network development project
 - To create particular schedules from scratch
 - To create particular schedules in a guided way
 - gOntt provides wizard menus to select the ontology life cycle model and to select processes and activities
 - gOntt uses templates to automatically generate the initial plan for the ontology project in the form of a Gantt chart
- gOntt is a NeOn plug-in for integrating the NeOn Methodology and the NeOn Toolkit
 - gOntt provides filling cards, workflows, and methodological guidelines
 - gOntt triggers the NeOn plug-ins associated to each process and activity planned

Scheduling: Technological Support. gOntt (II)

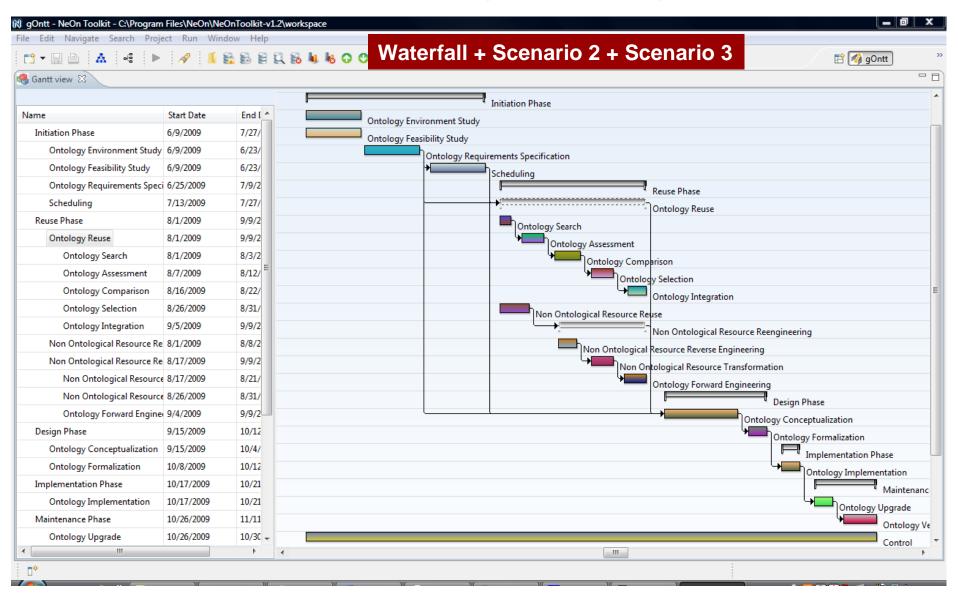




Scheduling: gOntt and Guidelines



Gantt chart for your project (I)



Gantt chart for your project (II)

