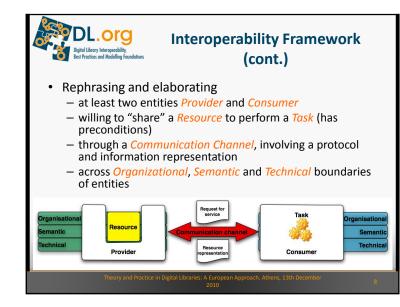




Interoperability Framework

- Three main aspects has to be captured:
 - *interoperability scenario, i.e.* a setting where interoperability takes place
 - *interoperability issue*, *i.e.* a problem hindering an interoperability scenario
 - *interoperability solution, i.e.* an approach aiming at removing an interoperability issue in the context of an interoperability scenario



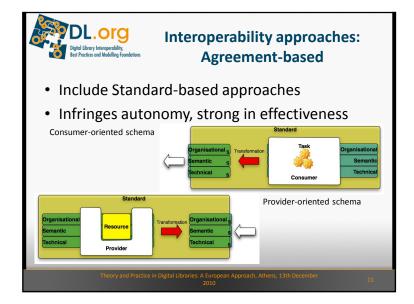


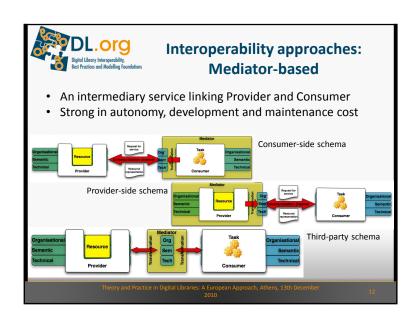
Interoperability Framework: DL.org focusing on the three key aspects Organizational deals with business goals and processes of an entity (Provider or Consumer) *Semantic* deals with the meaning of the exchanged resource and the rest of information *Technical* deals with technological solution supporting the operation of the Provider / Consumer as well as the communication among the two Dependencies / constraints among the three boundaries, e.g. organisational aspects has to be implemented by the technical aspects Implicit / hidden information, e.g. the technical aspects might implement part of the organisational aspects only Different approaches for diverse boundaries, e.g. human-centric vs. machine-centric Complete solutions involve all of them, e.g. the decision to rely on a certain technology might be useless if it is not complemented by proper organisational aspects



Interoperability Framework: Issue and Solution

- Interoperability Issue
 - the factor hindering interoperability scenario
 - task preconditions are not satisfied
- Interoperability Solution
 - it can be applied under certain conditions
 - if effective it removes the interoperability issue
 - it contains a "transformation function" (even in its most abstract case)
- A solution might be "wider" than the issue
 - this is not a problem if its transformation is scenario "safe"







Interoperability approaches: **Blending and Compound** solutions

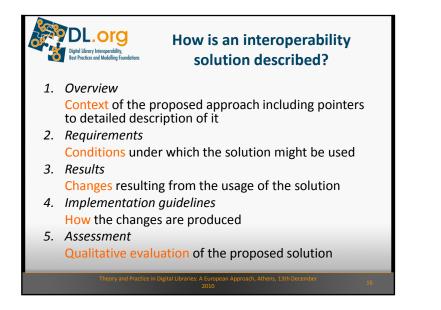
- Combining Standard-based & Mediator-based approaches, e.g.
 - a Mediator implementing a Standard and complementing it
 - two mediators or two standards form a new solution
- Compatibility issue among solutions
- Alternative solutions
- No solution exist vs for each problem there exists at least a solution



- an overview of the document
- 2. Interoperability Framework
 - a detailed description of the unifying framework

Cookbook

- 3. Interoperability "Solutions"
 - per domain best practices and solutions
- 4. Common Interoperability Scenarios
 - "complete" solutions to complex scenarios
- 5. Conclusions
- 6. Appendixes (Glossary & Solutions "views")







Cookbook Next Steps

- RFC feedback and contributions (ongoing)
- Cookbook 1.0 Release (Dec. '10 -> ...)
- Beyond DL.org
 - Cookbook wikification (editorial control)
 - Awareness raising

