

# SHORE –semantic hypertext object repository

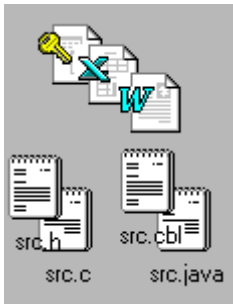
Overview and demonstration

Stuttgart, 10.6.2003  
Tammo Schnieder  
[www.OpenSHORE.org](http://www.OpenSHORE.org)

# Agenda

- What is SHORE and how does it work?
- Demo
- For what SHORE is good for
- Technical Details

# What shall be solved?



Software systems include many, many documents: Requirements, specifications, descriptions, handbooks, sources.

How their information is related is hardly recorded.

All documents have different patterns of structuring.

Humans are acquiring knowledge by

- First finding an overview
- Then trying to understand things
- and finally going into details



SHORE offers a way to the knowledge stored in structured documents

# What is SHORE?

- SHORE is a **web-based repository** that stores information extracted from **structured documents**  
e.g., XML-ified source code, requirement specifications
- Has a **flexible „meta model“** for coping with different kinds of textual structures
- Answers **complex queries** by using **Prolog**.
- Is delivered with a **language independent meta model** plus specializations for e.g. Java and COBOL models
- Contains some **programming language parsers** and easy to use **light weight pattern matching framework**

- Demo

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# For software development SHORE solves...

- ... how a team keeps the **overview**
- ... to see how the results of **project phases fit together**
- ... to get a better **view of future changes**
- ... to find hidden **dependencies** (e.g. cyclic dependencies)
- ... to see „**open ends**“

# SHORE is used at sd&m for...

- ...navigating and analyzing **programming sources**
- ... browsing and producing **specification and construction documents** (MS Office)
- ... browsing and editing **descriptive texts** linked to external information like module documentation
- ... navigating **databases**:
  - test cases
  - change requests
  - module descriptions



# SHORE can also be used for...

- ... analyze transformation steps
- ... navigate texts of the law (and accompanying commentaries)
- ... display schedules and related data
- and all other structured texts...

# Navigational highlights:

- Backward resp. „use“ references
- Display of usage by point & click
- Run queries by point & click
- Get call hierarchies over all involved interfaces
- Usage with any web browser
- one consistent view on all imported documents
- no need to use „interpreted attributes“ as in other tools

# SHORE offers more than navigating

- Display numbers of documents, objects etc. („**Mengengerüst**“)
- Display of open ends (**undefined objects**)
- Handling of **complex queries** possible (even recursive)
- **Export** of model, meta model, query results, ... **in text format**
- Generating of documents (Reports – with an external Perl framework)

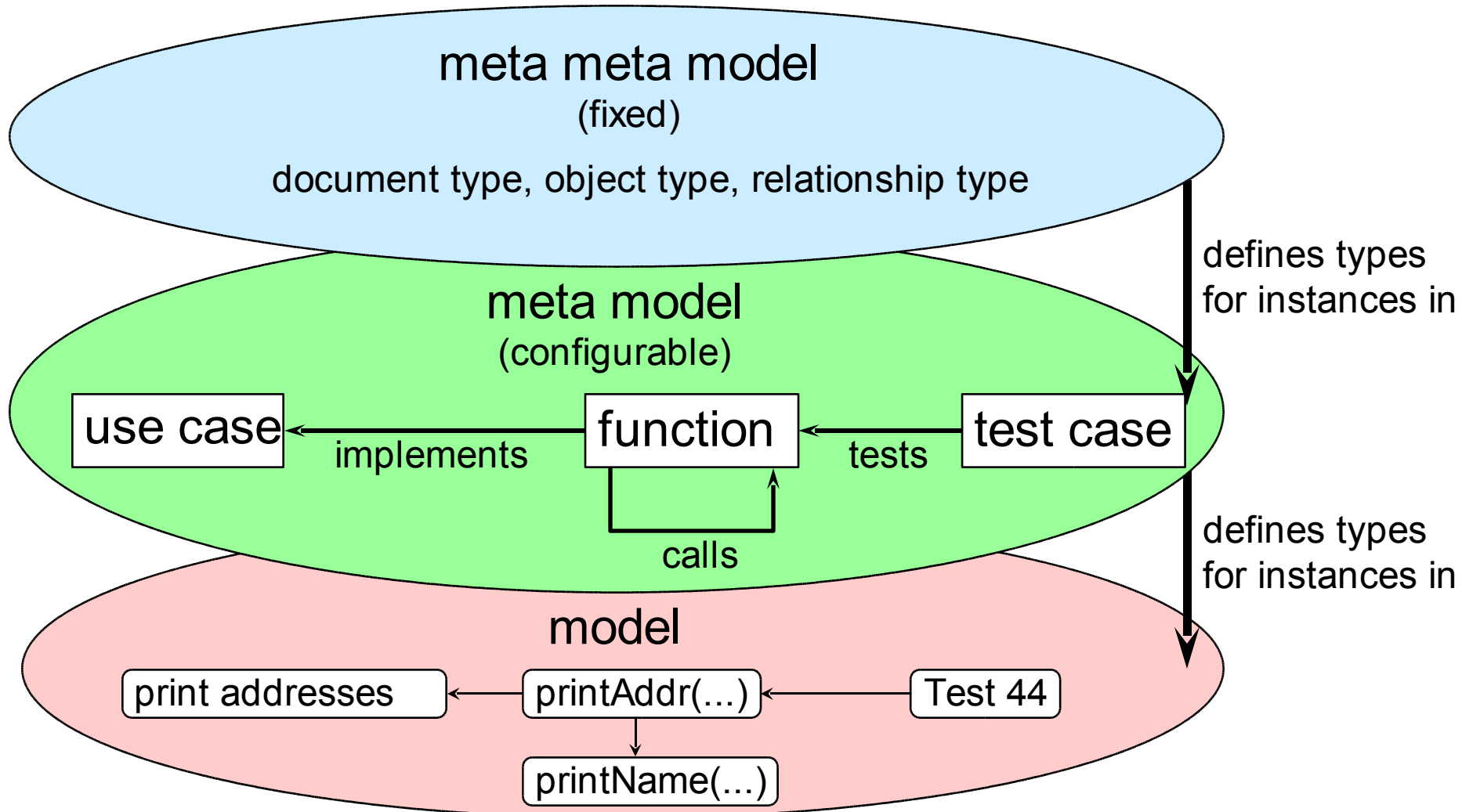
# Agenda

- What is SHORE and how does it work?
- Demo
- Examples for what SHORE is good for
- ➔ ● Technical Details

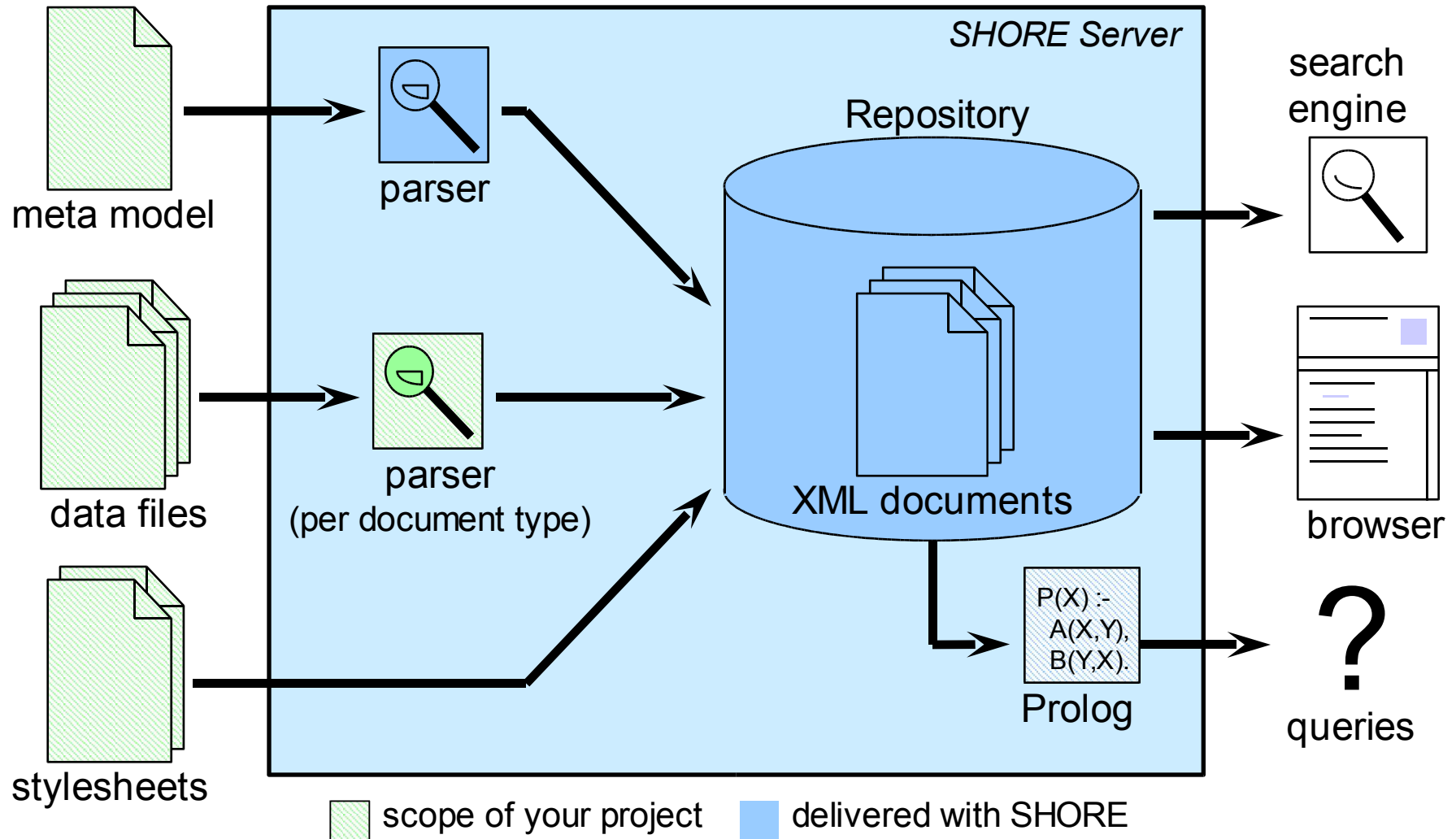
# SHORE has a flexible meta model

- standards and special cases can be handled
- meta model can also be changed later on
- possibility to create a domain specific modelling language

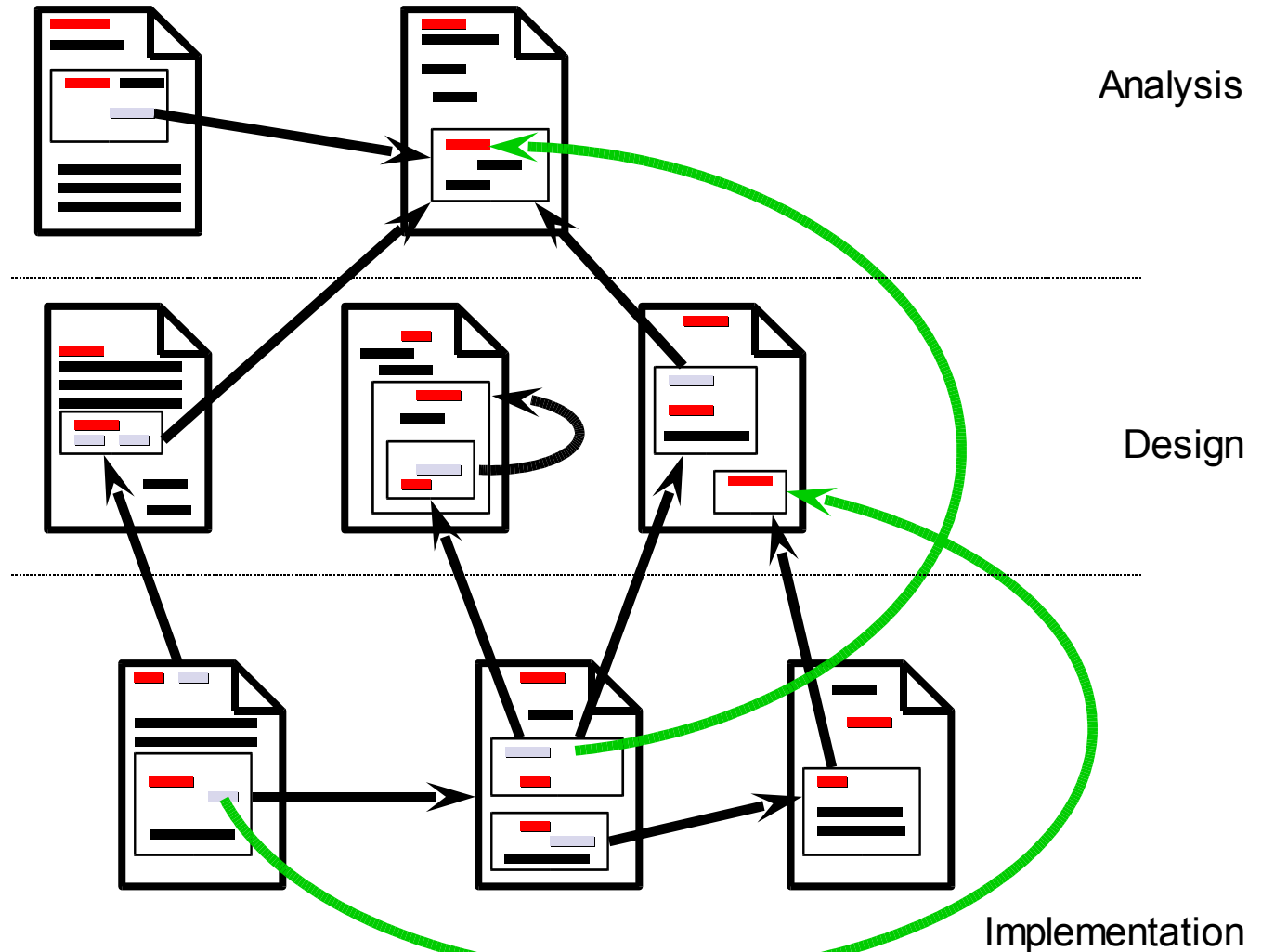
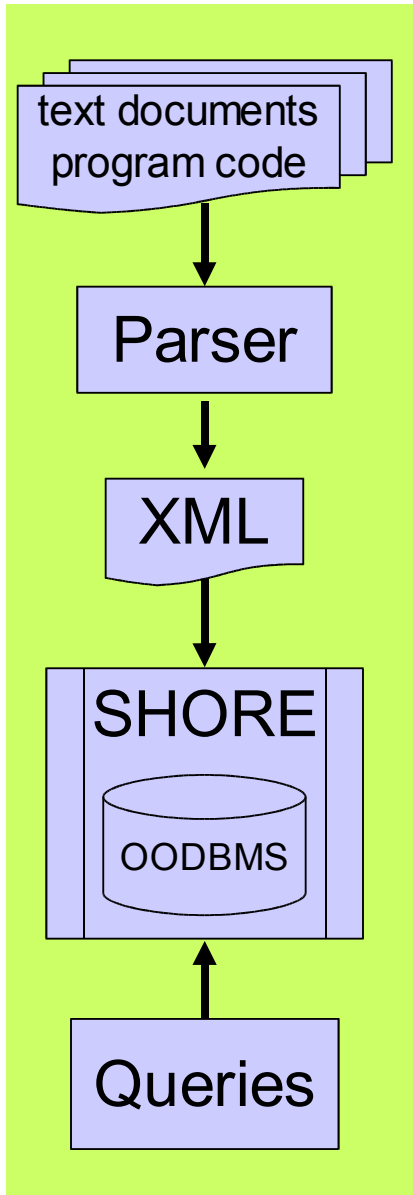
# Model Layers



# Principle Of Function



# Linking of documents





# History of SHORE

- in the 90s: HORA, the mother of SHORE was developed at sd&m
- 1997-2001: development of SHORE at sd&m
- 2002: SHORE is provided as Open Source by current and ex sd&m people as OpenSHORE

# Links

- Homepage: <http://www.openshore.org>
- OpenSHORE sources and mail lists:  
<http://sourceforge.net/projects/openshore/>
- software design & management AG:  
<http://www.sdm.de>