



SQI / HCD Suite

Building a Network of
Educational Resource Repositories

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Structure of the Talk

- A Vision of Interoperability
- Interoperability Framework
- Status Quo of the evolving Educational Repository Network
- Integration Patterns
- Future Issues
- SQI Developers & Implementers Community

The Power of Share & Re-Use

“The whole power of science is
the power of shared ideas.”
(Paul Jones)

“Universities generate content every day through their courses and
seminars. Then they throw it away.”
(Dennis Tsichritzis)

“Every knowledge-based organization
– law firm, hospital, or professional services firm –
wastes time, money and human energy
recreating intellectual assets.”
(Thomas H. Davenport)

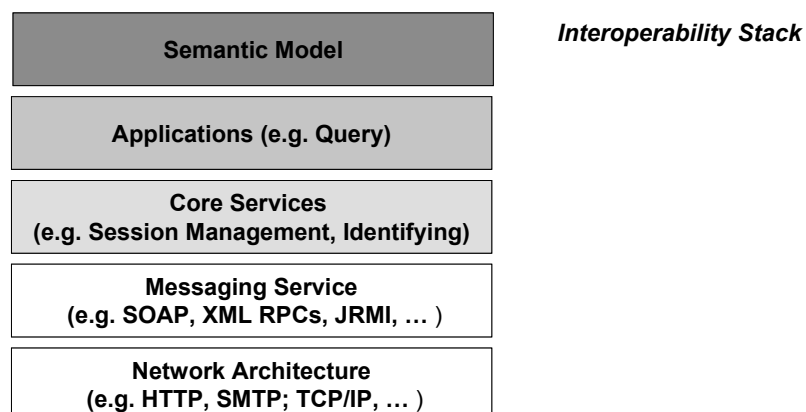
Interoperability: Share and Re-Use

- triggered by chronic under-funding & structural deficiencies (Tsichritzis 1999)
- Re-Use Scenarios: Acquisition vs. Participation (Collis & Strijker 2004)
- Various Re-Use Types:
 - adoption (take & use, data)
 - adaptation (take & customize, semantics)
 - inspiration (take & associate, pragmatics)

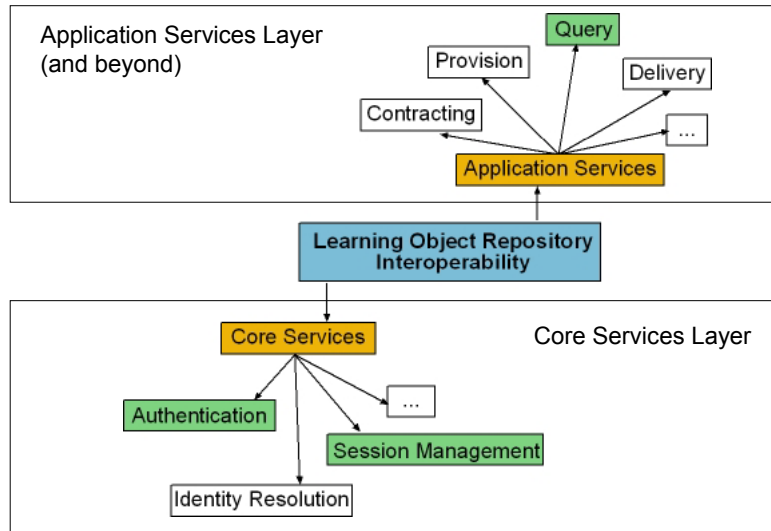
Interoperability II

- Vision of an Educational Semantic Web
- New Quality of Effectiveness and Efficiency in Retrieval of Learning Objects
- New Quality of Integration in e-learning applications
 - as precondition for collaboration in authoring and use
 - as precondition for sophisticated support and automation
- Open Up the closed world of proprietary applications / the hidden web

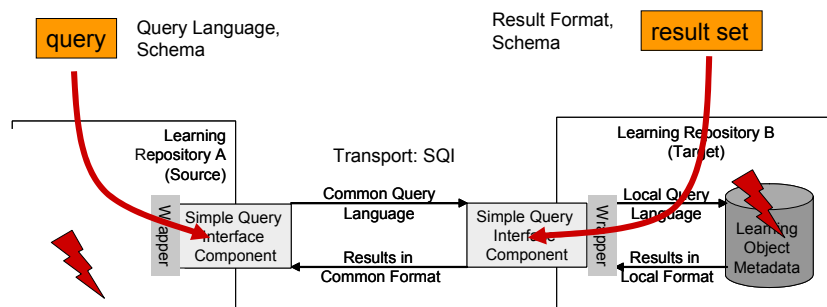
Interoperability Framework



Interoperability Framework II



Basic Idea of the Process



Design Rationales

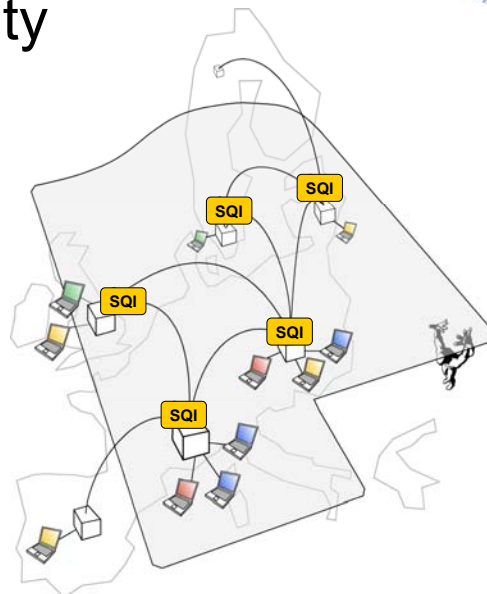
- Goal
 - Light-weight design and implementation
- Flexible
 - Synchronous and asynchronous mode
 - Centralized and Peer-to-Peer
- Open
 - Query Language (VSQI, QEL, XQuery...)
 - Result Format (complete records or not)
 - Metadata Schema (LOM, DC, ...)

Interoperability

... is knocking at the door:

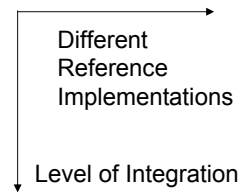
- HCD-Suite
- EducaNext
- Ariadne
- Clix
- BFI
- EduSource
- Edutella
- Edna
- Seminarshop
- Amazon
- KnowledgeBay
- LASON
- ...

Planned:
AeShareNet, Moodle,
OU London, Polycollege, ...

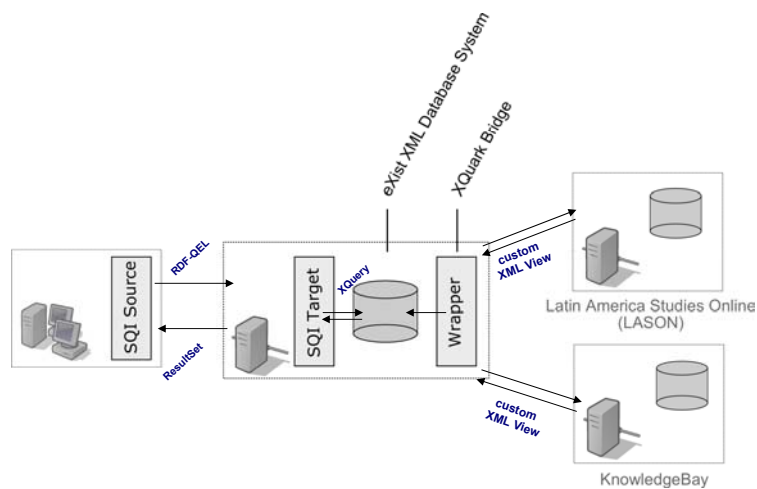


Integration Patterns

- Export & Advertise
- One-Way Integration
- Fully Qualified Nodes



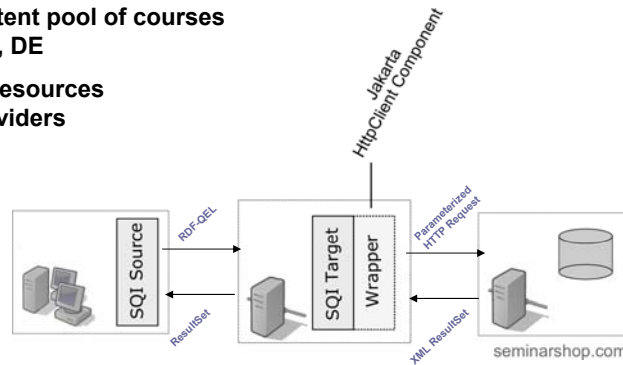
Case KnowledgeBay / LASON



Case Seminarshop

large content pool of courses
in AT, CH, DE

~ 20.000 resources
~ 650 providers



Case EducaNext

- EducaNext is a multilingual, academic **exchange portal**,

where **members of higher education, research organisations,**
and **professional communities**

can go to

share, retrieve, and re-use learning resources.

- Based on Universal Brokerage Platform
- (going open source soon)
- Increase your Social Capital through Participation

The EducaNext Portal for Learning Resources - Mozilla

http://www.educanext.org/ubp

EducaNext
Powered by the Universal Brokerage Platform

English

User: Fridolin Wild → Logout

Search: prolearn
Advanced Search
Browse Catalogue

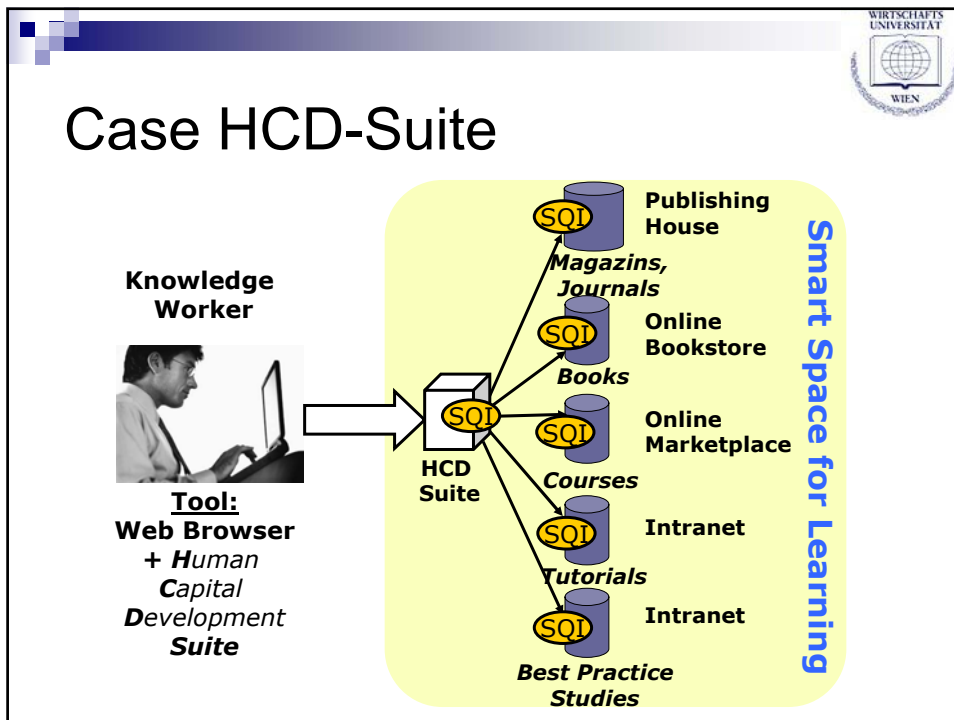
Learning Resource Search Results

26 items found

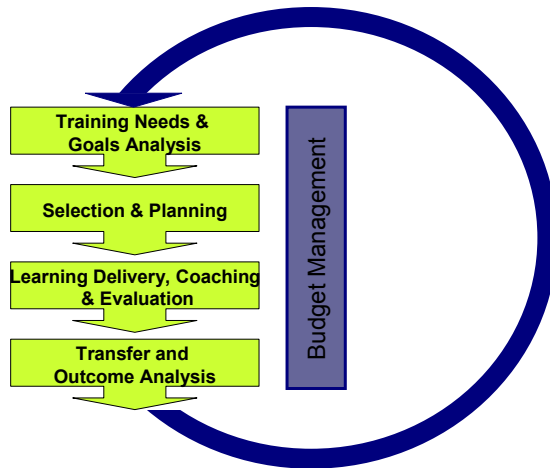
Page 1 of 3

Your search query yielded 26 Learning Resources

Title	Language	Author/Instructor	Prov.Date	Ranking
ProLEARN 1st TWS: 5D - Fifth Dimension - Local Learning Communities in a Global World	English	Eva-Lisa Ahnström	2004-11-15	213
ProLEARN 1st TWS: An Open Service Architecture for Dynamic Personalised eLearning - the iClass Approach	English	Vincent Wade	2004-11-15	213
ProLEARN 1st TWS: Challenges for Technology-enhanced Learning	English	Thorsten Leidig	2004-11-16	213
ProLEARN 1st TWS: Critical Success Factors For Implementing TEL	English	Frank Milius	2004-11-09	213
ProLEARN 1st TWS: DERIVE - Distributed Real and Virtual Learning Environment for Mechatronics and Teleservice	English	Dieter Müller F. Wilhelm Bruns	2004-11-15	213
ProLEARN 1st TWS: EU FUNDING FOR TEL	English	Colin Stewart Pat Manson	2004-11-15	213
ProLEARN 1st TWS: EU funding programmes	English	Eva Rose	2004-11-15	213
ProLEARN 1st TWS: EducaNext	English	Bernd Simon Fridolin Wild	2004-11-15	213



HCD Suite: Life Cycle



The ELEIA Smart Space for Learning - Mozilla

http://www.hcd-online.com/ubp

Powered by **HCD suite** English

User: Anonymous Login Browse Catalogue

Network Search Results

12 items found / Page 10 / Page 1 / 2 Page: 1

Remote service status: edutella: *finished*, LASON: *finished*, CLIX: *failed*, Knowledgebay: *finished*, Weiterbildungszentrum WU Wien: *finished*, Metzingen VHS-Kursdatenbank: *finished*, Amazon: *finished*, EducaNext-UPM: *finished*

Select	Title / Description	Price	Provider	Language
<input type="radio"/>	Unwiderstehliches Marketing Marketing-Wissen - Kompakt mit Schwerpunkt Werbung Warum ist Ikea mit uns per Du? Was haben Container auf Zügen mit Marketing zu tun? Wieso rettet Bruce Willis in "Stirb Langsam" die Welt mit einem Zippo-Feuerzeug? Und vor allem: Wie kann jeder Market ...	Yes	Weiterbildungszentrum WU Wien	German
<input type="radio"/>	Verkaufsaktives Telefonmarketing Die Teilnehmer/innen erhalten einen Überblick über die Chancen, die das Telefon als Marketinginstrument bietet. Erfolgreiche Techniken zur Führung von Verkaufs- und Beratungsgesprächen werden praxi ...	Yes	Weiterbildungszentrum WU Wien	German
<input type="radio"/>	Shakespeare, Einstein, and the Bottom Line : The Marketing of Higher Education, Availability: Usually ships in 24 hours	Yes	Amazon	English
<input type="radio"/>	Selling the Invisible : A Field Guide to Modern Marketing Availability: Usually ships in 24 hours	Yes	Amazon	English
<input type="radio"/>	Free Prize Inside! The Next Big Marketing Idea Availability: Usually ships in 24 hours	Yes	Amazon	English
<input type="radio"/>	The 22 Immutable Laws of Marketing : Exposed and Explained	Yes	Amazon	English

Resumé Cases

- Heterogenous Integration Patterns (SMEs, Brokers, Seminar Shops, Gateways, ...)
- Easy Implementation
(some done by students at WUW)
- Tutorial Package(s) on Implementation needed
(=> Prolearn D5.4 in July)

Future Issues

- Ranking
- Personalization of Searches
- Query Enhancement Mechanisms
 - Disjunctive Queries
- Application Innovations
 - Indexer / Crawler / Harvester
 - „Views“ (fixed queries e.g. for watches)

SQL Developers Community

The image shows two overlapping browser windows. The left window displays the Yahoo! Groups page for 'LORinterop'. The right window displays the VQWiki page for 'LorInteroperability'. The VQWiki page includes an introduction and a list of materials available.

<http://www.prolearn-project.org/lori/>

LORinterop@yahoogroups.com

LORinterop-subscribe@yahoogroups.com

Thanks for your Attention

Questions?