

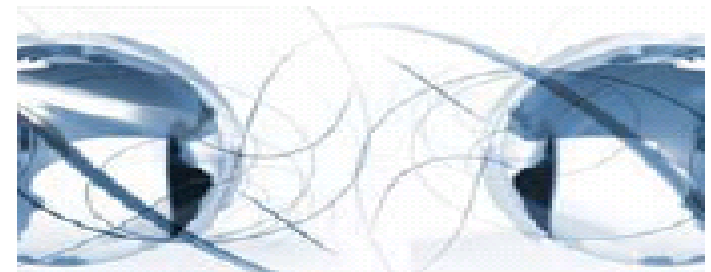
The THESEUS Research Program on Technologies for the Internet of Services

Dr. Regine Gernert
Federal Ministry of Economics and Technology

THESEUS
is funded by



- » The THESEUS Program Framework
- » The THESEUS Technology Framework



Mission

- » THESEUS develops and deploys new technologies for the Internet of Services
 - » for offering, trading and using conventional and digital services via the Internet in an open service market („Open Service Infrastructure“)
 - » for a better use of information over the Internet with the aid of semantic technologies („Knowledge Infrastructure“).

THESEUS is not about new search engines !

Budget & Sponsors

- » THESEUS Research is funded publicly and privately with a total of 180 Mio. Euro
- » THESEUS special projects support (THESEUS Talent Promotion Initiative, THESEUS SME Initiative, THESEUS Venture Capital Initiative) with ~ 10 Mio. Euro



**Bundesministerium
für Wirtschaft
und Technologie**



Private Sponsors



SIEMENS

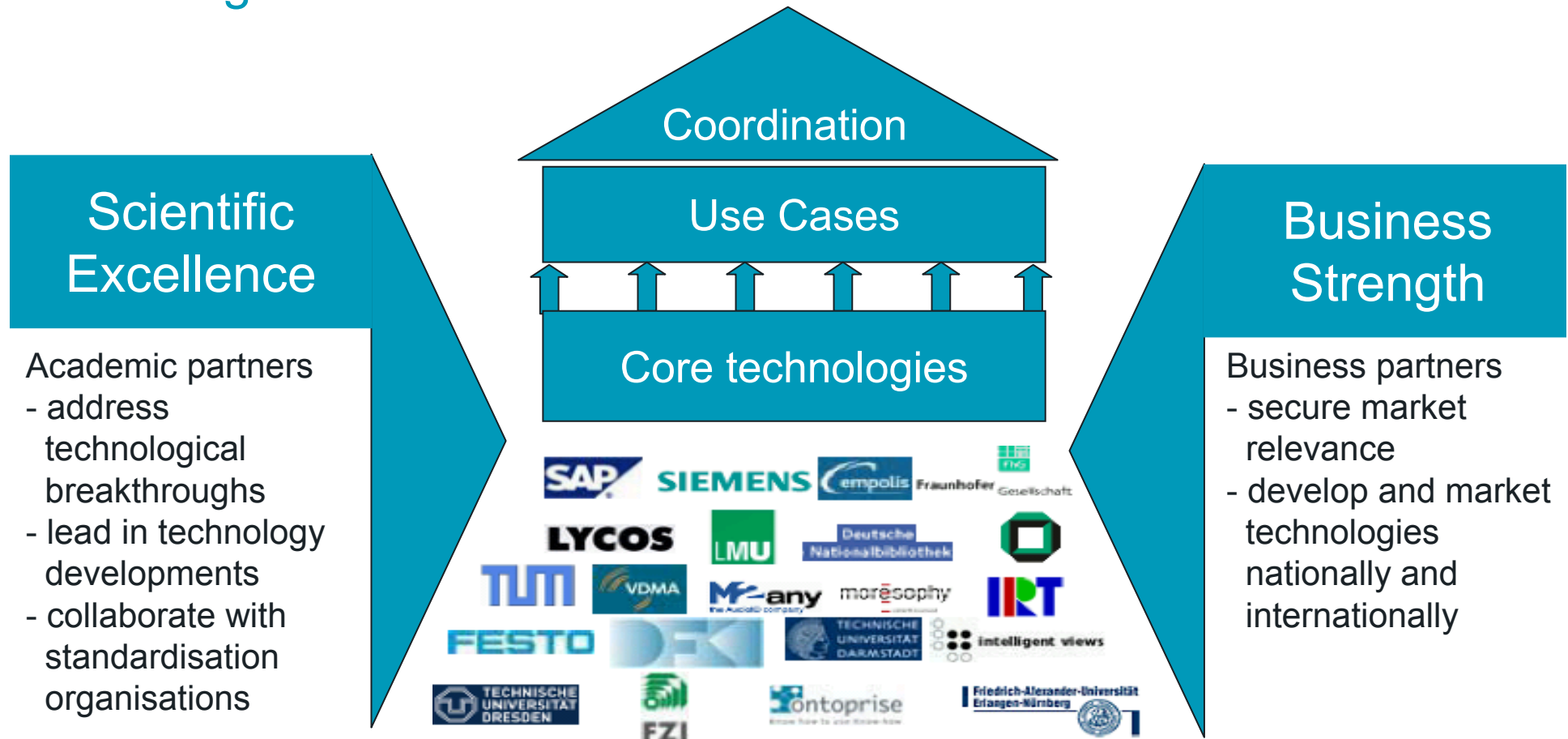


FESTO

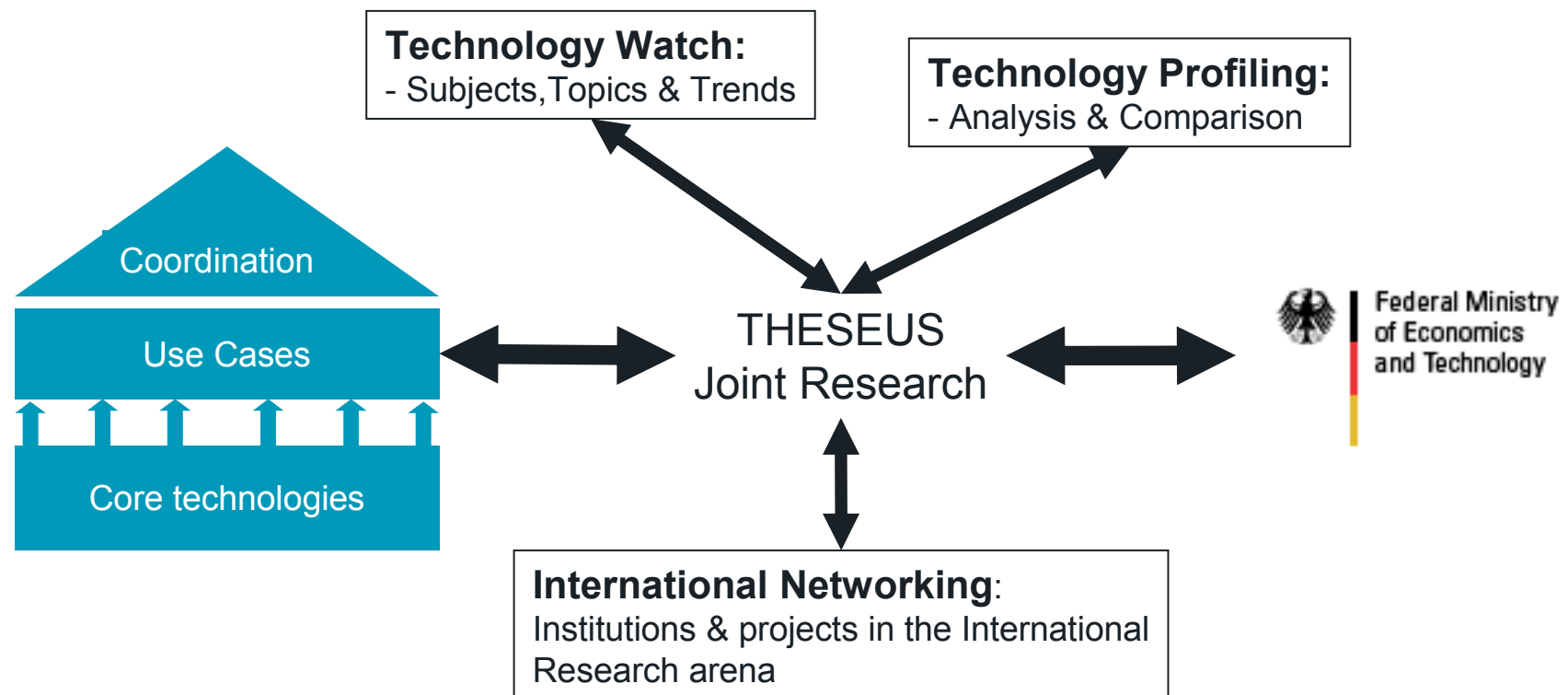


and other partners

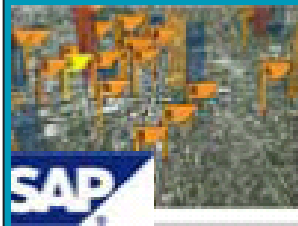
Program Structure



Collaboration Framework



THESEUS Application Use Case Technologies



TEXO

Internet-based
service management



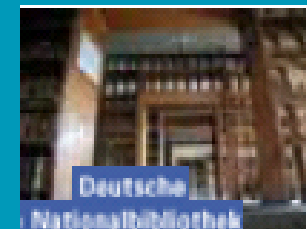
PROCESSUS

Knowledge based
Business Process
Management



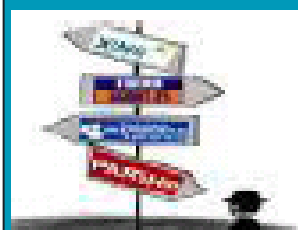
MEDICO

Medical diagnostics
information & knowledge
management



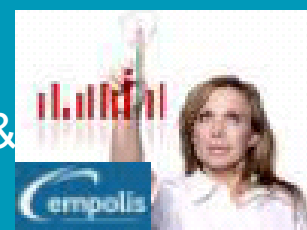
CONTENTUS

Knowledge based access
to the cultural heritage



ALEXANDRIA

Community driven
semantic annotation of
information



ORDO

Personalized Information &
Knowledge Management

THESEUS Core Technology Cluster (CTC)



**Image and Video Analysis
Video and Audio Codecs**

**Ontology
Development &
Management**



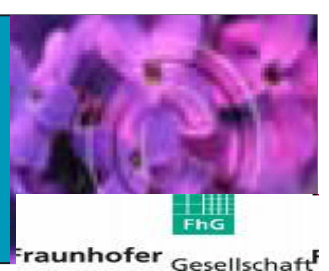
**Multimodal
Dialogue Shell
for various devices**

**Visualization
Technologies
for User Interfaces**



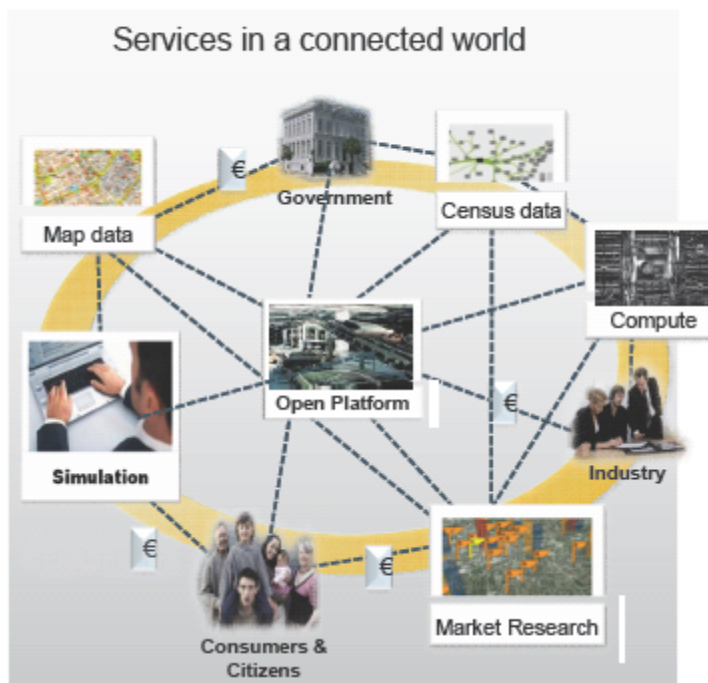
**Statistical
Machine Learning
Technologies**

**Information Security &
Privacy Technologies**



Standardized Evaluation & Testing

TEXO - The „Internet of Services“ platform



**A trusted
Service Ecosystem of
Service Providers, Consumers
and Brokers
buying, selling, repurposing and
composing services
for different needs**

- resulting in -

**A new way of organizing the
interaction between
partner ecosystem,
the community
& service consumers**

TEXO - The „Internet of Services“ platform

TEXO focusses on Web Based Business Services and their semi-automatic composition.

Services will

- become **tradable** &
- **composed** from services of different providers
- be offered, delivered & executed automatically & **supported by IT**

Research project TEXO will offer

- **customized & personalized services**
- **community involvement** to improve services, both for providers & consumers of services
- seamless & smooth adaptation and **integration of services into the user environment**

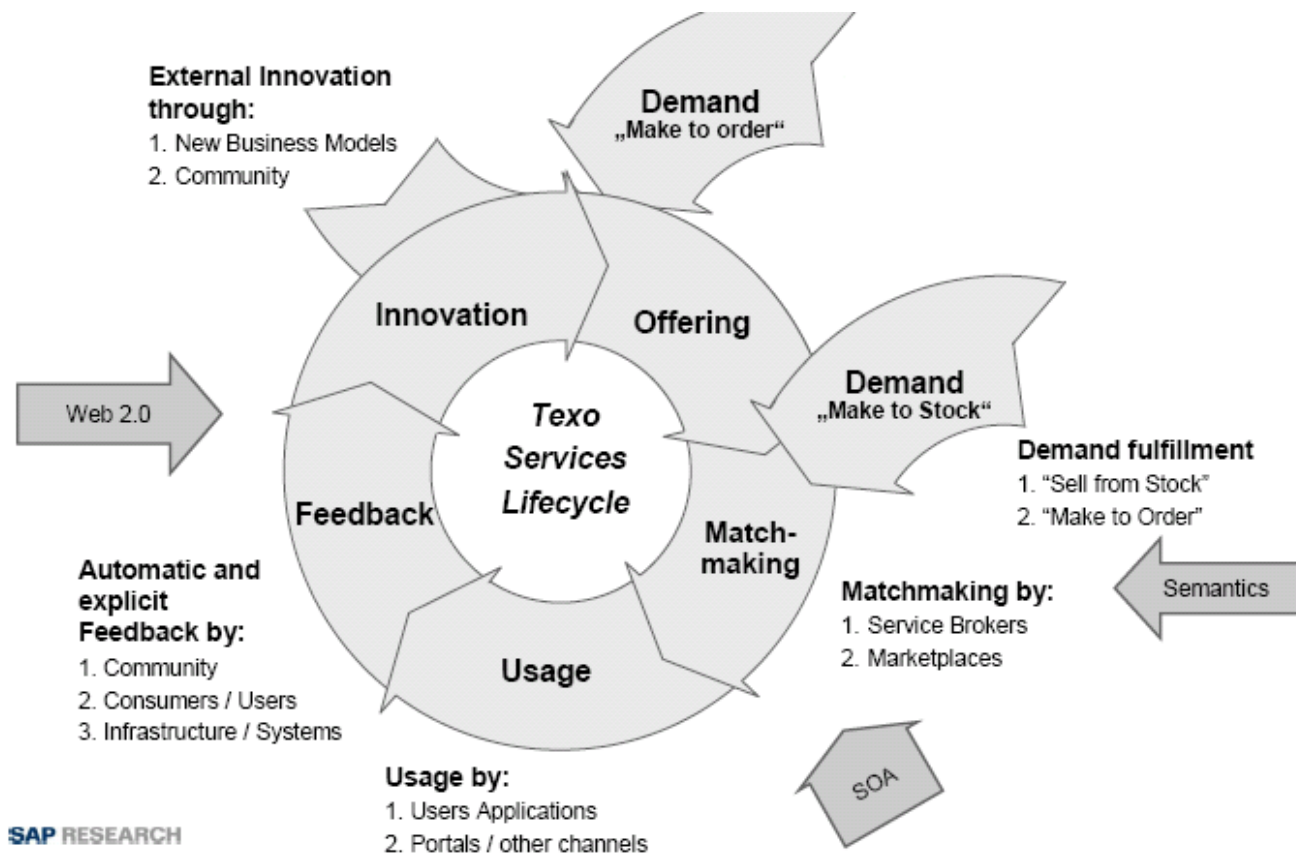
Within the research program THESEUS

- TEXO will provide IT concepts & support for a Services Platform on the Internet supporting Business Webs



TEXO Service Lifecycle

Texo addresses the full service lifecycle from innovation to consumption.



THESEUS Technology Framework

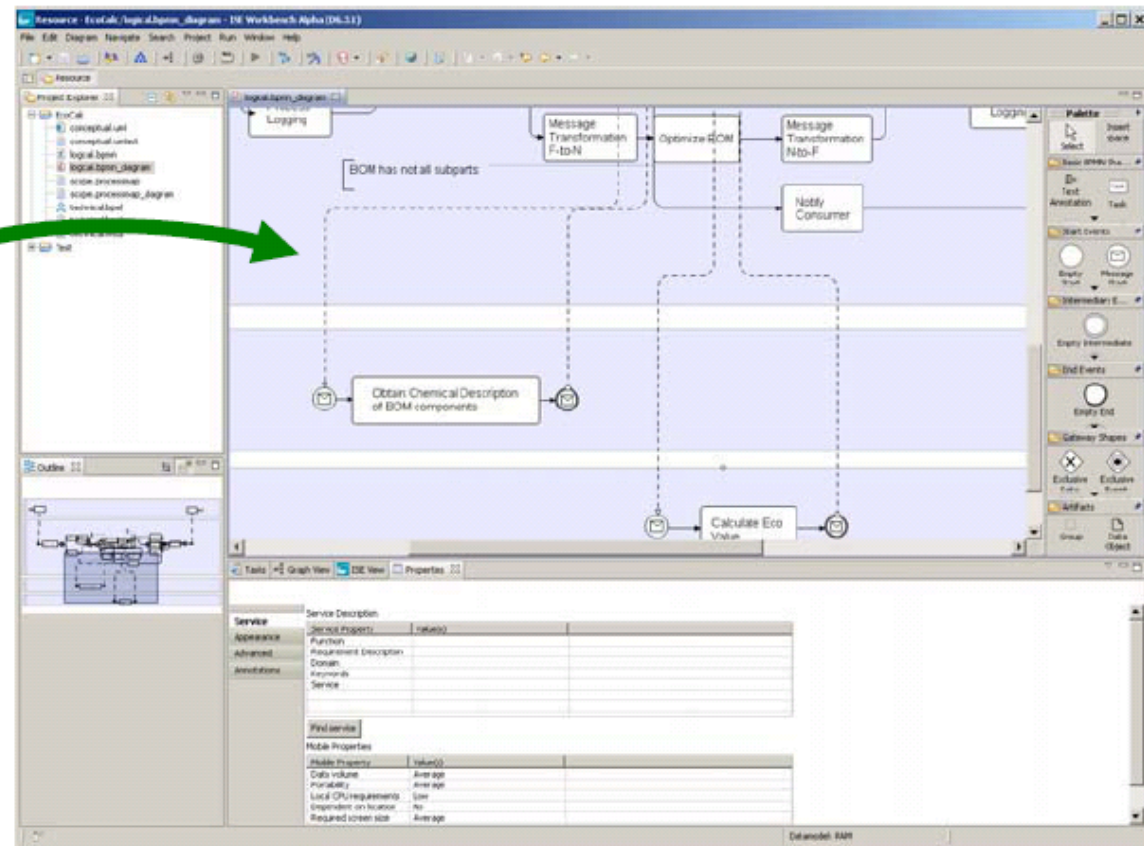


Forschungsprogramm für eine
neue internetbasierte Wissensinfrastruktur

Texo Services Descriptions

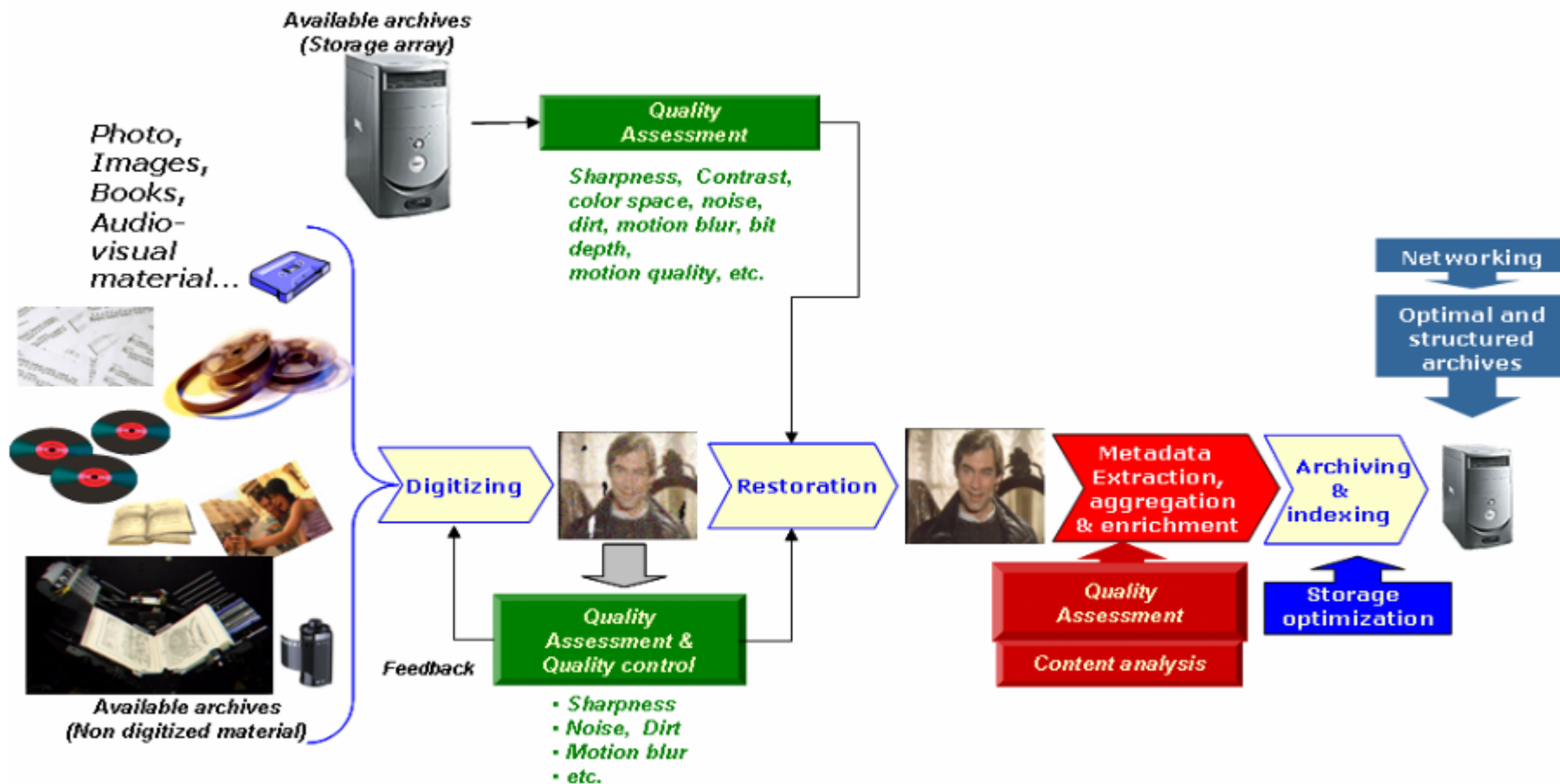
	Starting Point Based on Business Model Ontology of Data model 0	Conceptual Perspective	Logical Perspective	Technical Perspective
Value Chain Model	VALUE PROPOSITION, EXCHANGE CHANNEL, RELATIONSHIP NETWORK, and REVENUE MODEL	UML Diagram	UML Class	MODEL
Work Flow	VALUE CONSUMPTION and CAPABILITIES	UML Activity	UML Class	BPFL
Use Case	SYSTEM REQUIREMENTS	UML Class	UML Diagram Profile	OWL
Process Flow	TARGET CUSTOMER ACTORS, and FUNCTIONS	UML Use Case	Diagram	DFP
Rules	POSSIBLE	OWL	Decision Table	OWL

Service Description Standards



ISE Workbench Development Platform

THESEUS Semantic Technologies: CONTENTUS Application Use Case





Technologies for the Internet of Services International THESEUS Symposium 2009

Federal Ministry of Economics and Technology, Berlin
June 29-30, 2009

Preliminary Program

TOPICS

Visions for the Internet of the Future
Business Perspectives
Service Infrastructures
Semantic Technologies

KEYNOTE SPEAKERS

PUBLIC SERVICES:

Parliamentary State Secretary Dagmar Wöhrl, German Federal Ministry of Economics and Technology
Prof. Dr. João Schwarz da Silva, European Commission

BUSINESS:

Prof. Dr. Lutz Heuser, SAP AG
Dion Hinchcliffe, Hinchcliffe & Company
Martin Jetter, IBM Germany
Dr. Markus Junginger, Festo AG
Dr. Rainer Ruggaber, SAP AG

RESEARCH:

Dr. Reinhold Achatz, NESSI & Siemens Corporate Research & Technologies
Agata Filipowska, Poznan University of Economics
Prof. Dr. Yanbo Han, Chinese Academy of Sciences
Prof. Dr. Masaru Kitsuregawa, University of Tokyo
Pieter van der Linden, QUAERO
Prof. Dr. Rudi Studer, Research Center for Information Technology (FZI)

Preliminary Program

WORKSHOPS

BUSINESS PERSPECTIVES

Business Models for the Internet of Services
Economics 2.0
Microblogging in the Enterprise

SERVICE INFRASTRUCTURES

Service Platforms
The SeMantic Information Logistics Architecture (SMILA)
Service Innovation

SEMANTIC TECHNOLOGIES

Mobile Services
Ontology Design & Ontology Management
Service Description Languages
Semantic Image Annotation
Knowledge Visualization

APPLICATIONS

Multimedia Search Technologies

Demos & Open Spaces

Demonstrations will be provided by THESEUS project partners and other symposium participants. Open Space sessions will be organized on “Hot Topics” either in advance or during the symposium spontaneously.



THESEUS

Forschungsprogramm für eine
neue internetbasierte Wissensinfrastruktur



Theseus, ancient King of Athens,
victory over the cruel Minotaur monster