

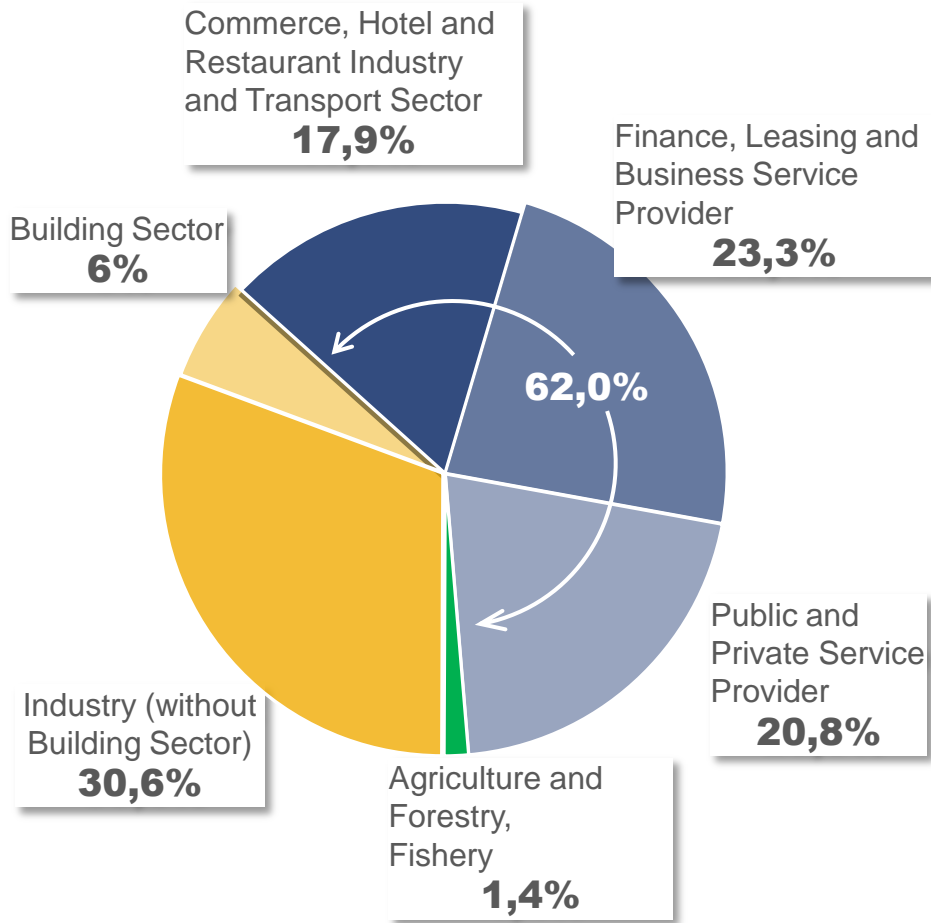
Towards a Unified Service Description Language

Dr. Orestis Terzidis, Vice President, SAP Research Karlsruhe
February 2011

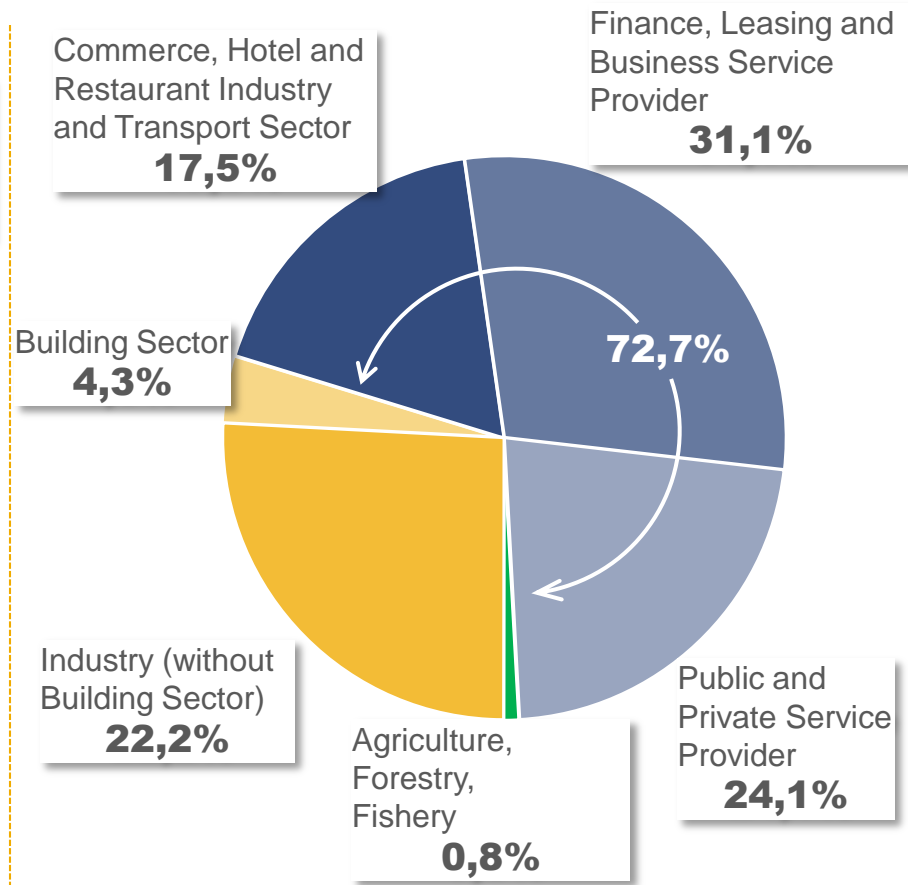


Gross Value Added in Germany

Growth Through Services



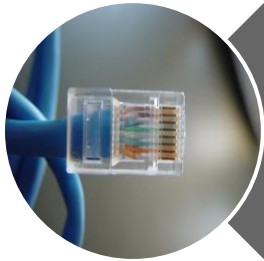
1991



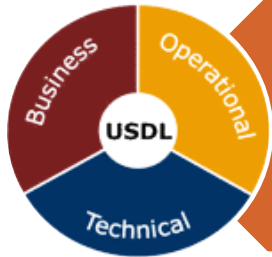
2009

Source: Statistisches Bundesamt, 2010

Driving Forces Industrialization of Services



Automation



Standardization



Specialization

Service Research Germany and EU

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages

THESEUS Forschungsprogramm

12 THESEUS Mittelstandsvorhaben

PROCESSUS Optimierung von Geschäfts- prozessen	MEDICO Intelligente Bildsuche in Medizindatenbanken	ORDO Ordnung digitaler Informationen	CONTENTUS Sicherung Kulturerbe	ALEXANDRIA Der Endnutzer- anwendungsfall	TEXO Entwicklung prototypischer Infrastruktur für das Internet der Dienste
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TEXO Service Marktplatz

CTC – wissenschaftliche Grundlagen

Publicly Funded Projects

ARC SEM:
Service Ecosystems

Smart Services CRC: Service
Economy and SMEs

FAST: Service Mashups

SOA4ALL/ Shared Service
Platform for Business
Processes

ServFace Service Consumption

Shape: Service Adaptation

ITAIDE: Global Trade and
Logistics

PremiumServices: Innovative
Pricing Mechanisms

Resevoire: Grid Management

SecureSCM: Globalizing SCM
Interactions

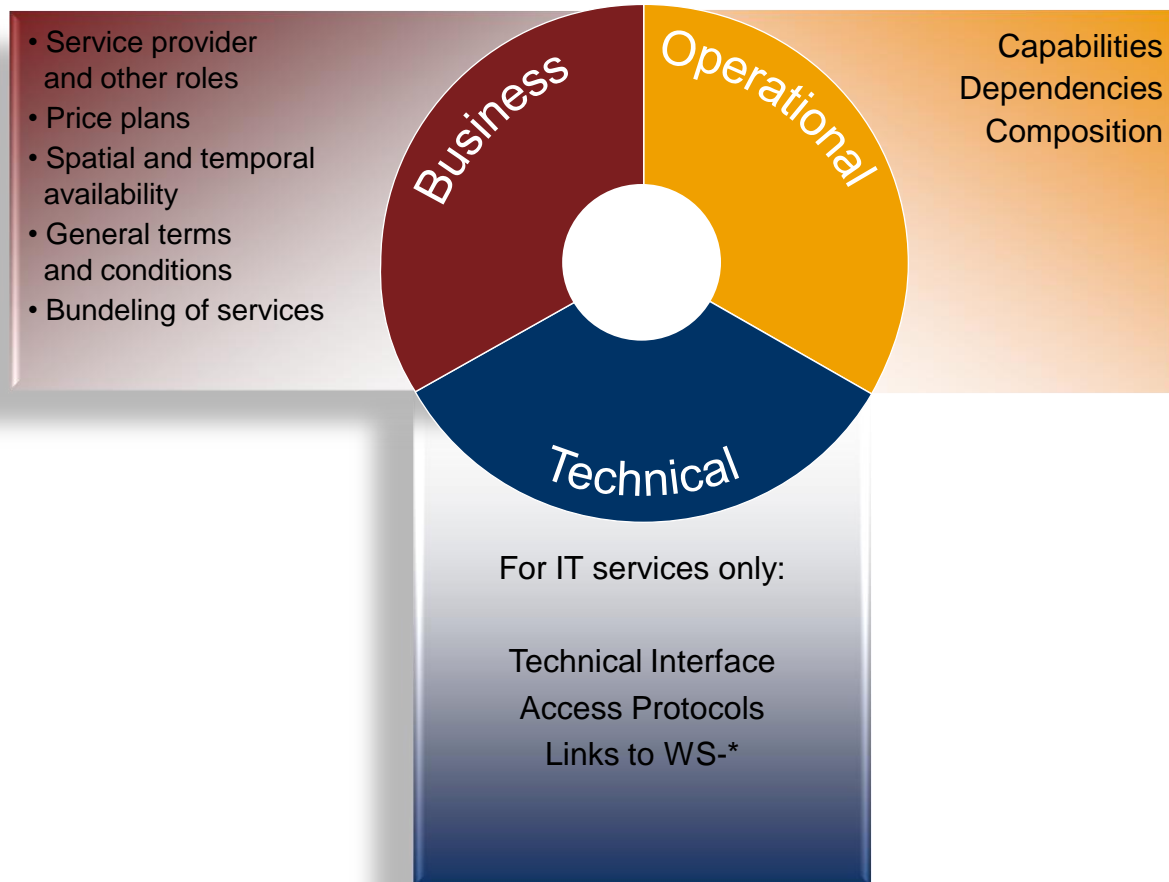
SLA@SOI: Business and
Technical SLAs

Virtex Virtualization of IT

ExtremeOS Virtual Operating
Systems

USDL Overview

A Master Data Model for Services



- USDL extends available service description approaches by operational and business aspects
- USDL Community Web Site: www.internet-of-services.com
- Shift market power to service providers

Structure of the Artifact

6 modules investigated

- Service (Core), Foundation, Participants, Functional, Interaction, Pricing

2 modules currently in focus

- Service Level, Legal

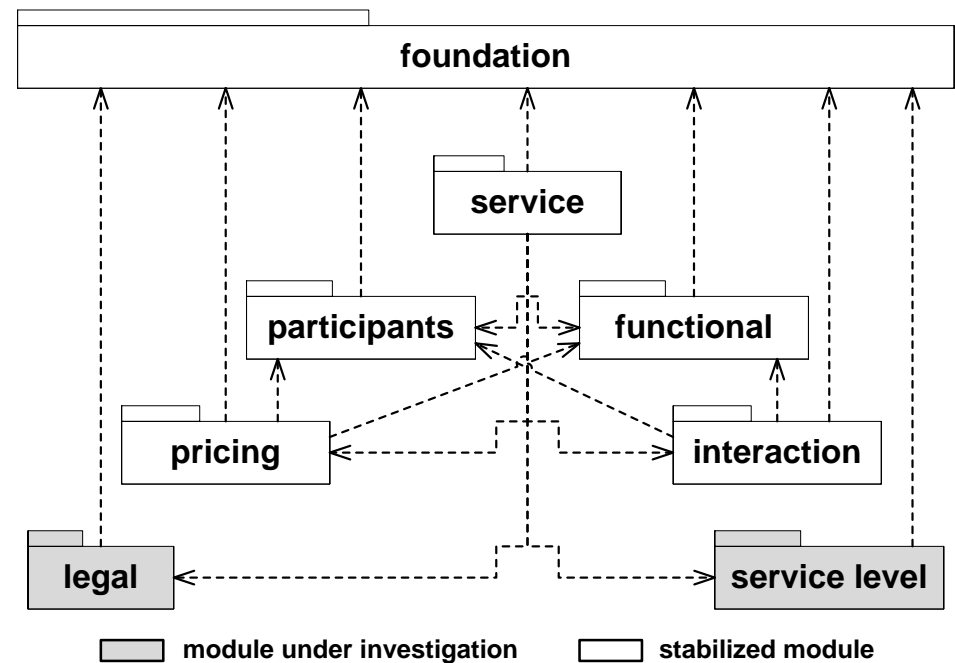
Formalized in UML (Eclipse Modeling Framework)

XML syntax for exchange

USDL Editor

- Eclipse plug-in
- Web version under construction

Basic USDL-compliant repository



Towards Standardization

Kick-off via W3C Incubator

Founding members

- SAP (Chair)
- Siemens
- DFKI
- attensity

Participants

- Hewlett Packard
- Computer Associates
- Innovimax
- Stanford University
- University of Helsinki
- Open University
- Ontotext

Mailinglist / Invited Experts

- Progressive
- Seekda
- Ingbus
- Plusnet
- Fraunhofer ISST
- ...



<http://www.w3.org/2005/Incubator/usdl/>



Thank You!

Contact information:

Dr. Orestis Terzidis
Vice President SAP Research
Vincenz-Priessnitz-Str. 1, 76131 Karlsruhe
orestis.terzidis@sap.com