



GENESIS



Workshop **“Enterprise Interoperability for Businesses and Governments”** **(ISBG 2007)**

A dissemination / coordination event of the Enterprise Interoperability Cluster

**Organised by the GENESIS - IST Project,
in conjunction with the
i-ESA 2007 Conference, Madeira, 27th March 2007**

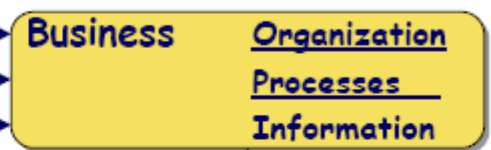
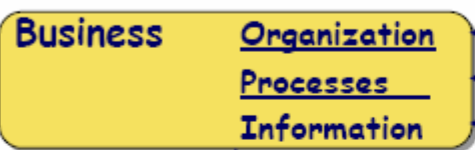
**Yannis Charalabidis
National Technical University of Athens
yannisx@epu.ntua.gr**

The interoperability “layers”

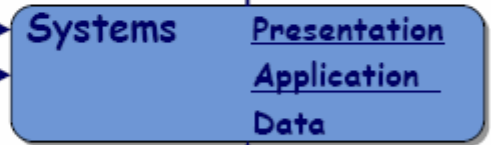
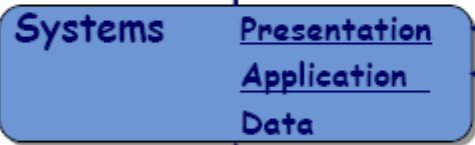
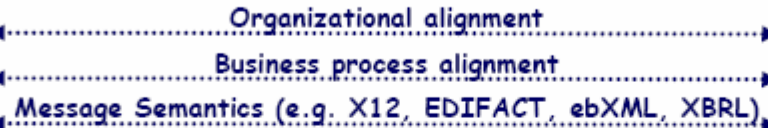
Enterprise/Administration A

Enterprise/Administration B

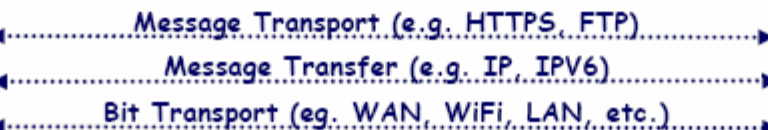
Legislation, Directives, Guidelines



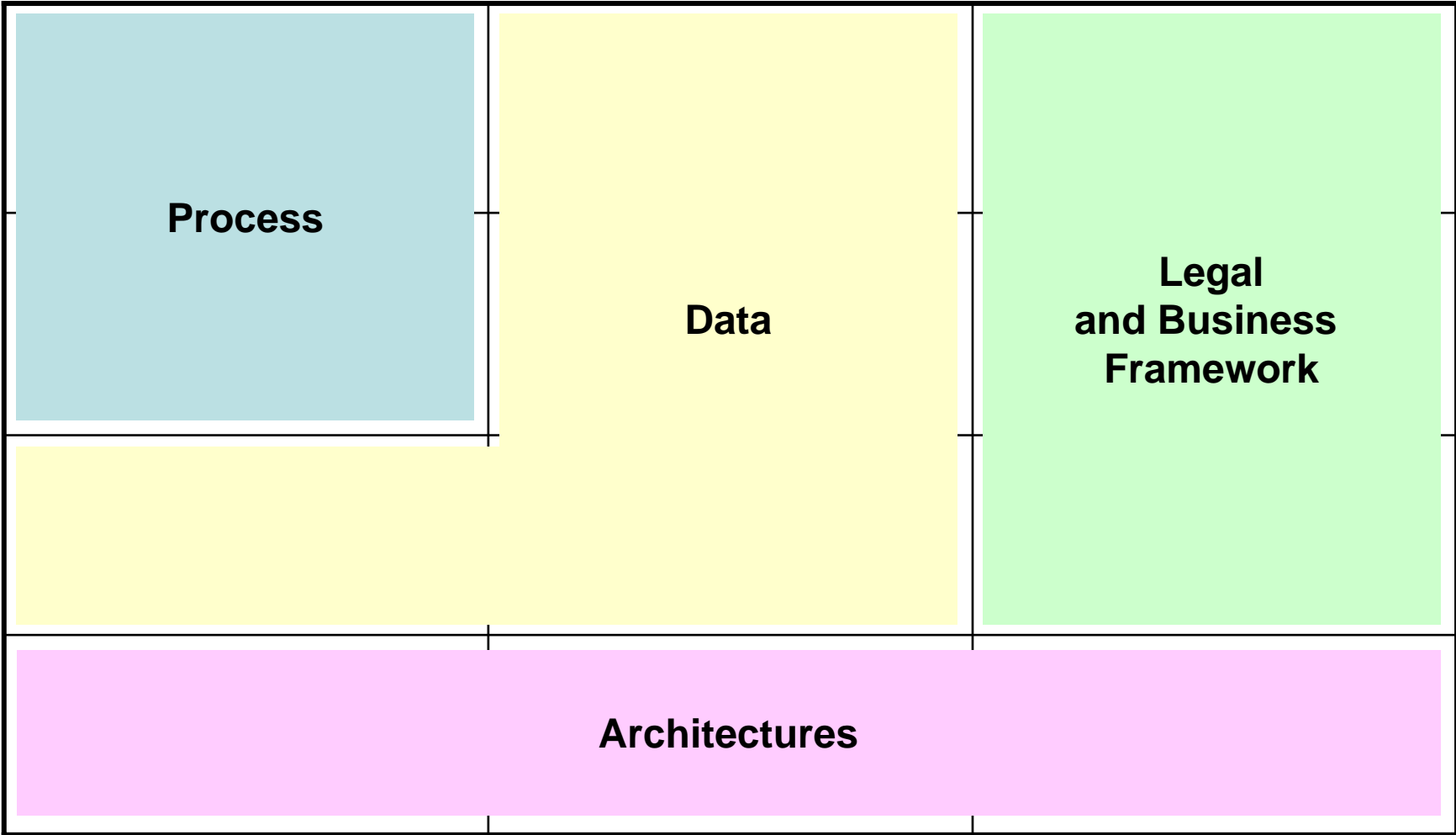
Organization
Semantics



Technology



The Enterprise Interoperability Map



The questionnaire process

- Participants: interoperability project managers and interoperability experts from Europe, US and China
- Question 1: rate the interoperability research topics as to their completeness in eBusiness domain
- Question 2: rate the interoperability research topics as to their importance for eGovernment
- Processing: match the two worlds ...

Interoperability Practices eBus -> eGov Rating

Score	Interoperability Research Area
9,4	Web Services Specifications and Standards (SOAP, WSDL, WS-Security, WS-Reliability, WS-I profiles)
9,3	XML business documents libraries (UBL, OAGIS, eBIS-XML, xCBL, etc)
8,9	Security and authentication mechanisms (e-IDs, certificates, digital signature, etc)
8,8	Core Component Technical Specification (CCTS) modelling and components definitions
8,7	Legal and Business Rules Modelling and Execution (UML/OCL, R2ML, Business rules engines)
8,6	Data Modelling – Overall Semantics (common data dictionaries, ontologies, semantic annotation of data elements - metadata)
8,5	Overall Interoperability Frameworks (EIF, eGIFs) and certification mechanisms
8,4	Legal Frameworks modelling (ontologies for managing legal frameworks and their impact on e-Business)
8,3	Formal business process modelling and management languages (BPEL, BPMN, UMM, WS-CDL, etc) specifications
8,1	Enterprise Modelling (business processes, activities, roles, workflow models, collaborative process modelling, enterprise modelling tools)
7,9	Data Modelling – Vertical Semantics (common data exchange definitions, per sector or line-of-business)
7,2	Collaboration Oriented Platforms/Architectures (BizTalk Server, ORACLE Fusion, SAP Netweaver, ebXML implementations)

Top 7 Issues

(**Services,
Data/Semantics,
Security
Legal Issues
Standards/Certification**)