



Cross-domain issues on Service Architectures

Steano De Panfilis
Engineering Ingegneria Informatica S.p.A.

■ **NEXOF: a Service Architecture Framework**

- Main concepts
- Cross-domain collaboration issues



NEXOF

Business Services

Internet of Services

Global Service Delivery Platform

Networking Services

Internet of Things

Devices and components

NESSI Open Service Framework

- Open Reference Model (ORM)
→ Concept and Principles
- Open Reference Architecture (ORA)
→ Standards
- Open Reference Implementation (ORI)
- Conformance Test Suite

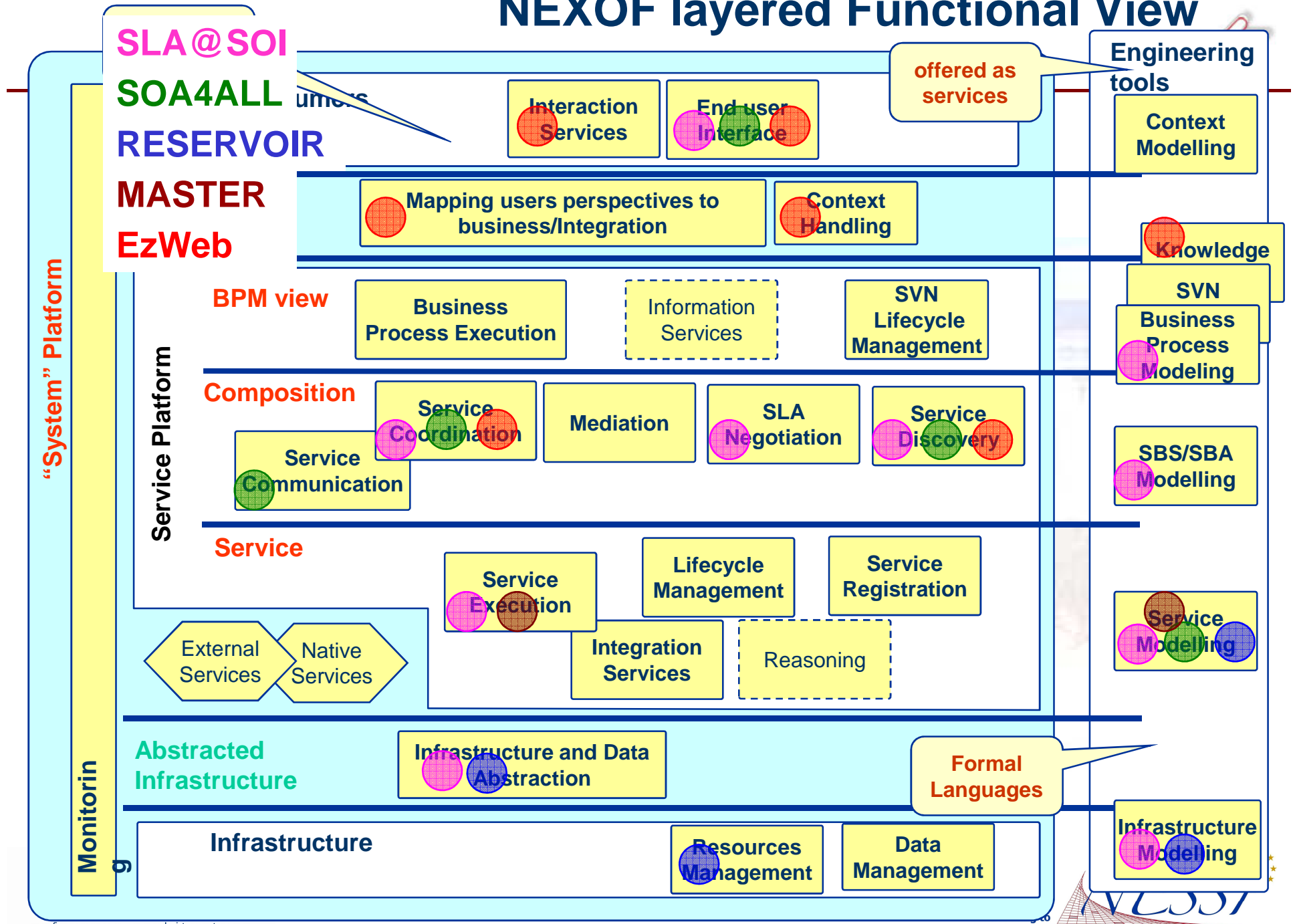
“The Independence Principle”

Size

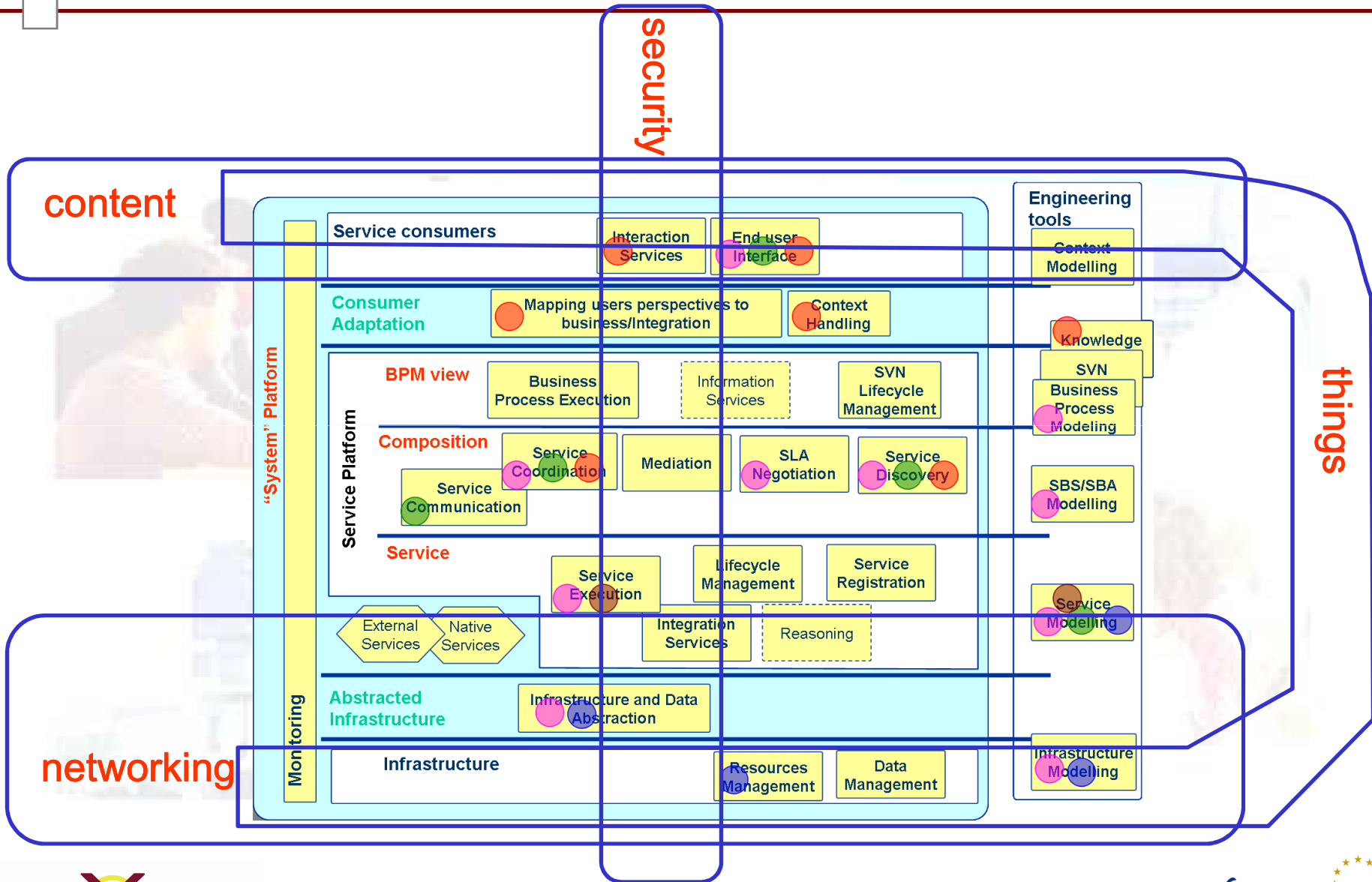
Domain

Technology

NEXOF layered Functional View



Cross-domain collaboration

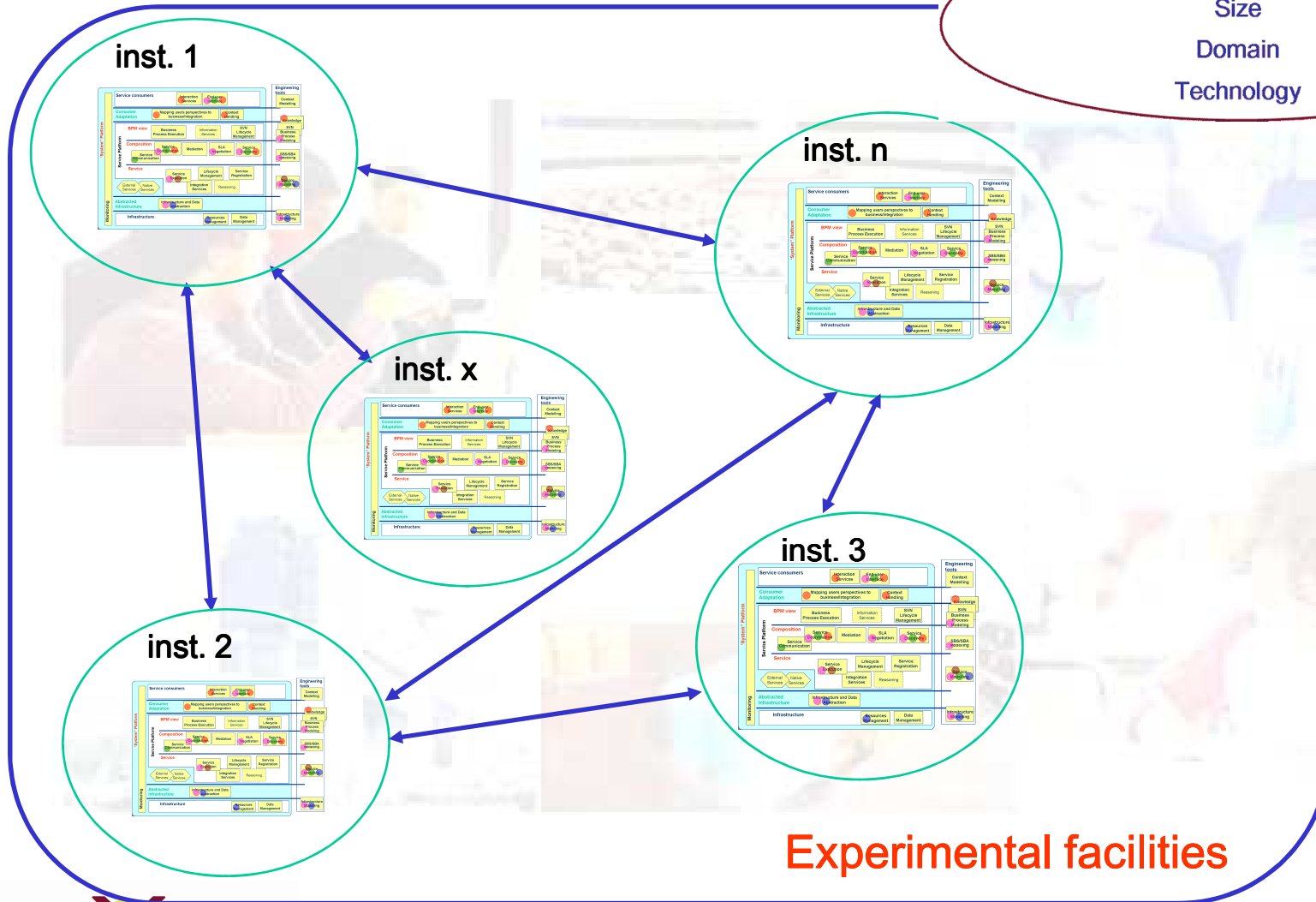


Cross-domain collaboration



"The Independence Principle"

Size
Domain
Technology



Experimental facilities



- **Service architectures** are needed in order to standardise the way services are built, offered and consumed. There is the need for a Reference Service Architecture
- Different **Service Architectures** can be defined according to business domain, size and technologies
- Implementing **Service Architectures** is not a single shot
- Implementing a **Reference Service Architecture** requires a large community with contributions from many sources.