



Security Cross issues as seen from the NESSI and NEXOF perspective

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- Who is responsible for security? service providers, infrastructures, users, content providers if it is more than one, how to distribute responsibility? which policies do we need?
- How to make security accessible to users and service consumers?
- How to keep an up-to-date protection level? How to measure that?
- Are our fundamental security mechanisms (crypto, biometrics, protocols) still adequate?
- **Services propose a single reference model, who is in charge for defining its security? What means do we need to set up this security & trust reference model (technical, administrative project structure, initiatives)**
- The user-centric view has been advocated a lot. What are its consequences for the other stakeholders?
- How to increase user awareness of security status? -> measurements and metrics
- Can the balancing of protection needs be driven by risk assessment and or business models?
- How rich does security context information need to be? How do these models need to look like?
- **What is trust in the Future Internet?**
- How to establish trustworthiness? --> relation between assurance and trustworthiness, measurement, certification, validation, verification

What is trust in the Future Internet?

What is a service?

- Something used but not owned

Where will be services in the Future Internet?

- Everywhere, accessible from any device supporting the life of organisations and citizens

What is Trust?

- (Social point of view) is an analogical property which manifests itself in the relationships between organisations and between human beings
- Services base their success on trust!
- So Trust is an immaterial pervasive property

What is trust in the Future Internet? ←

The issue is to **digitalise** an analogical property which has a pervasive nature!

To which extent this is possible?

Traditionally:

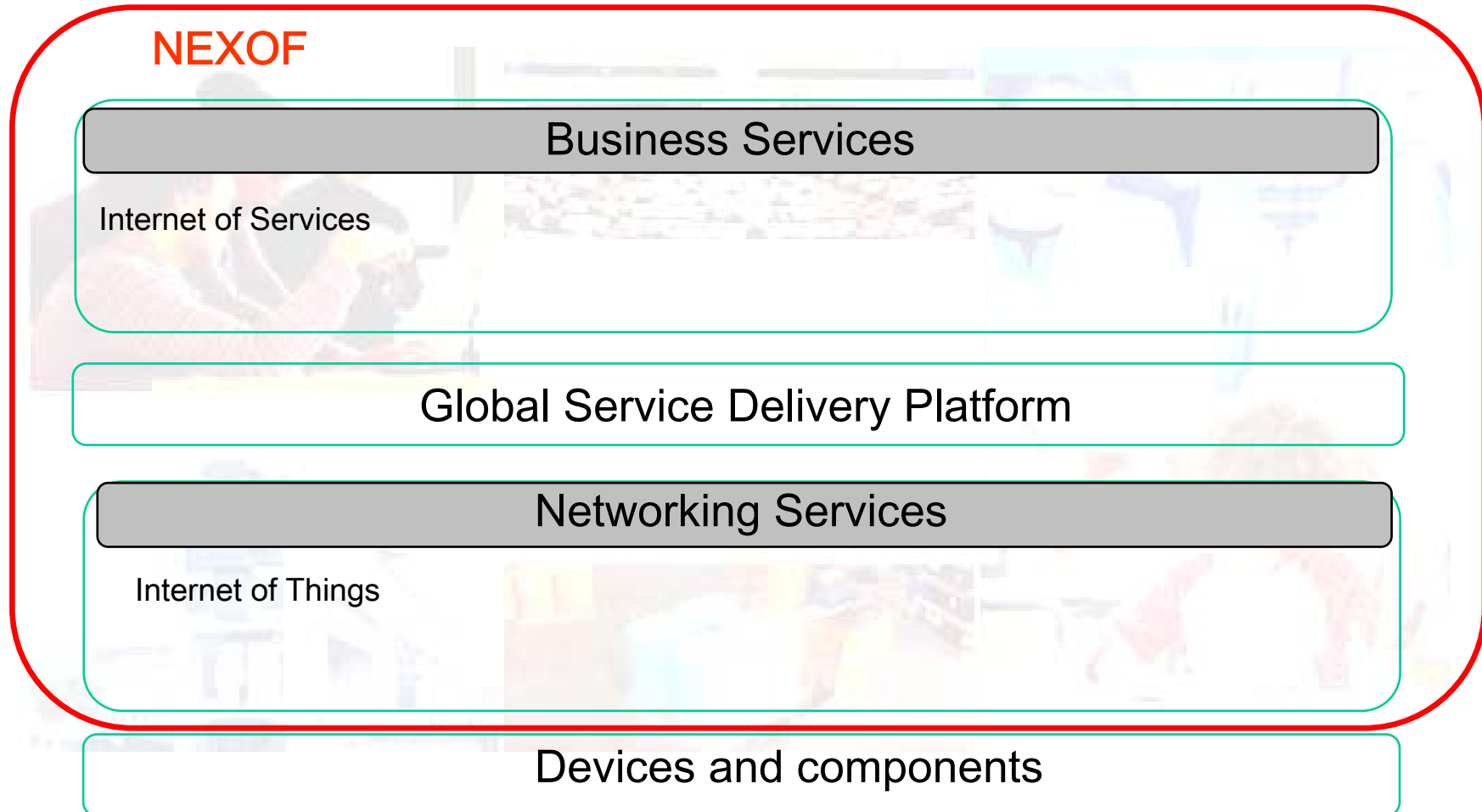
- Security
- Dependability
- Reliability, ...

Proposal:

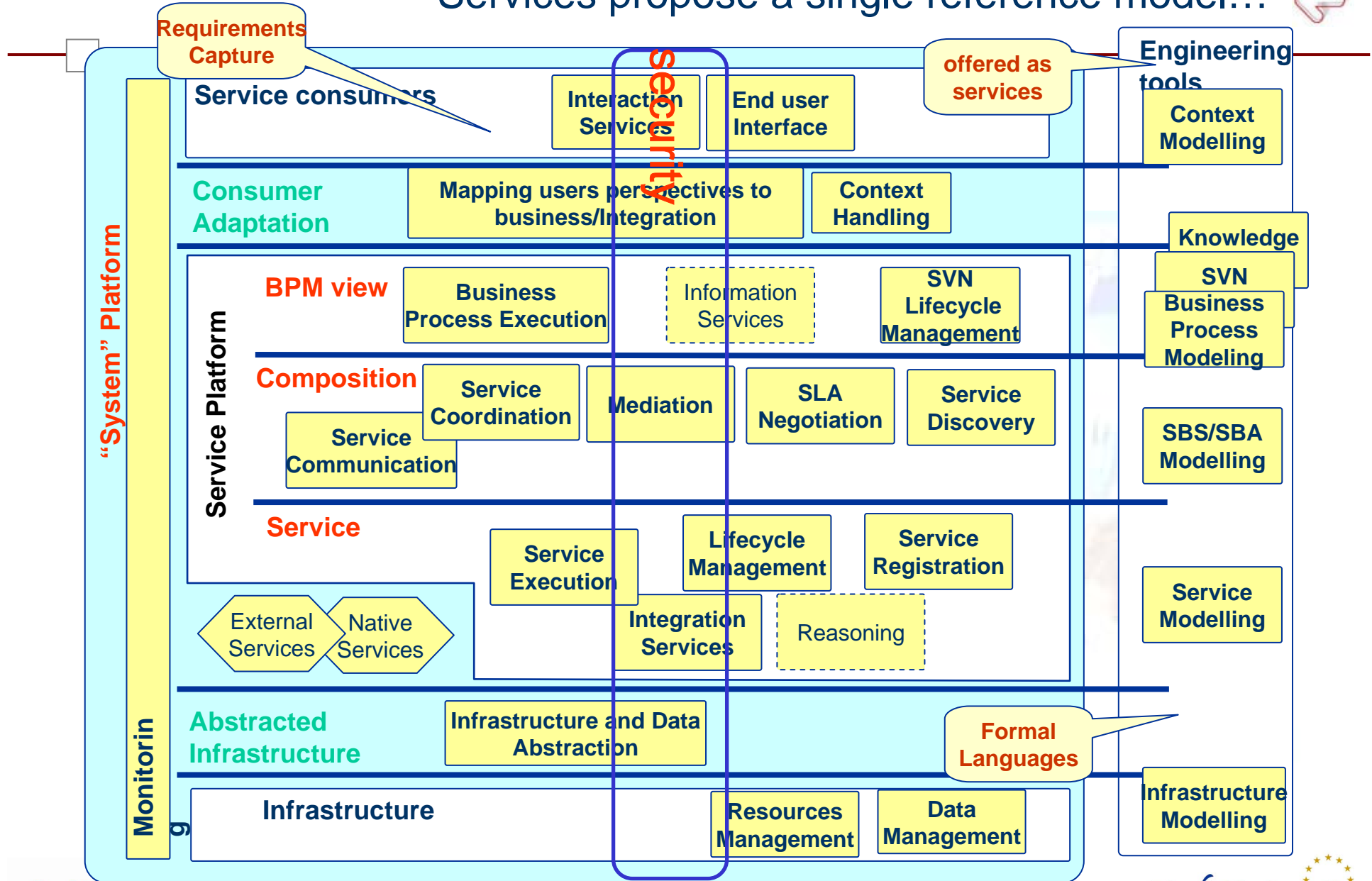
- we should look more on how to verify services behaviour
- E.g.: embed in services persuasive tactics and intuitive security (How to increase user awareness of security status? -> measurements and metrics)

Services propose a single reference model...

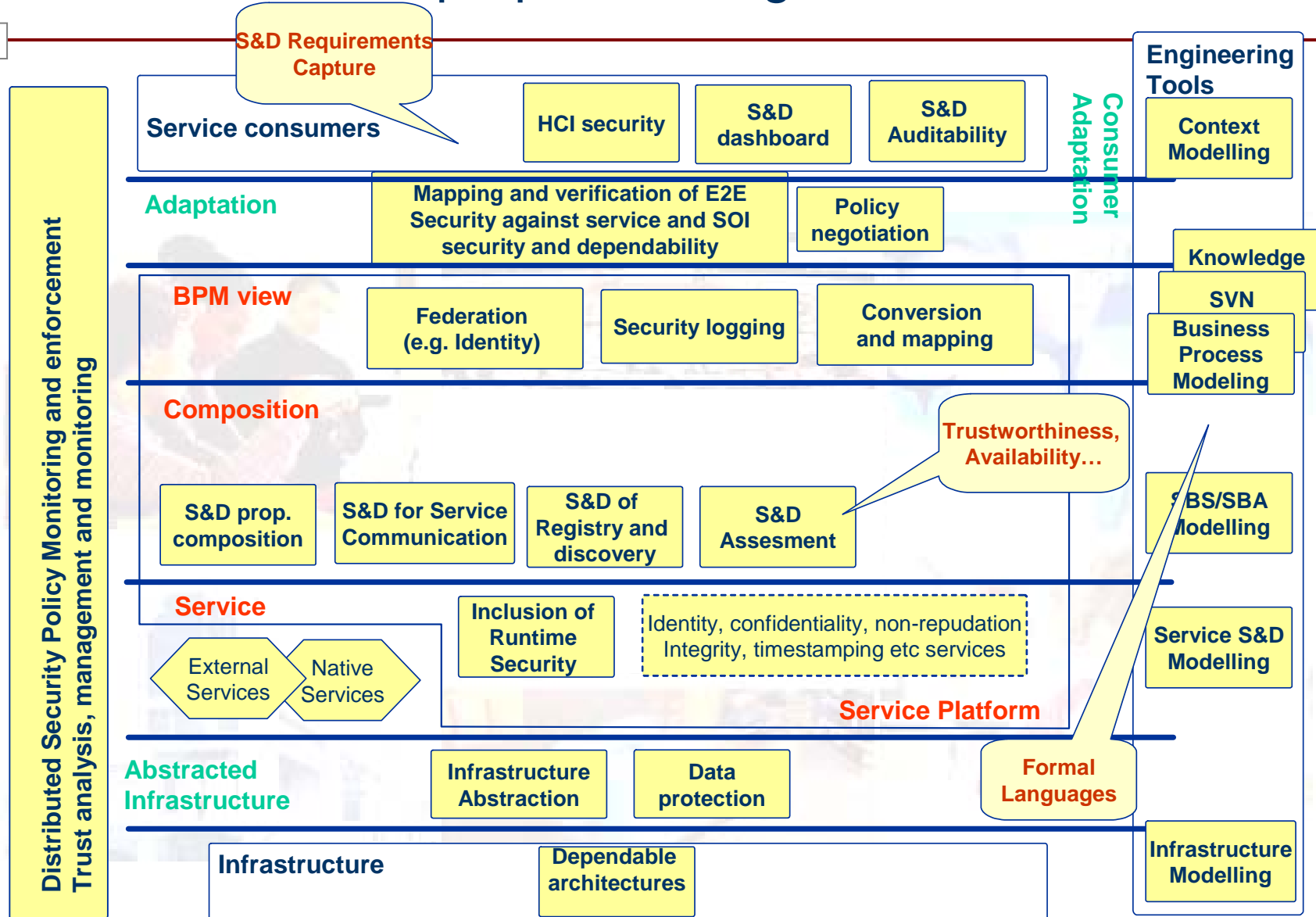
Context: ISTAG Model



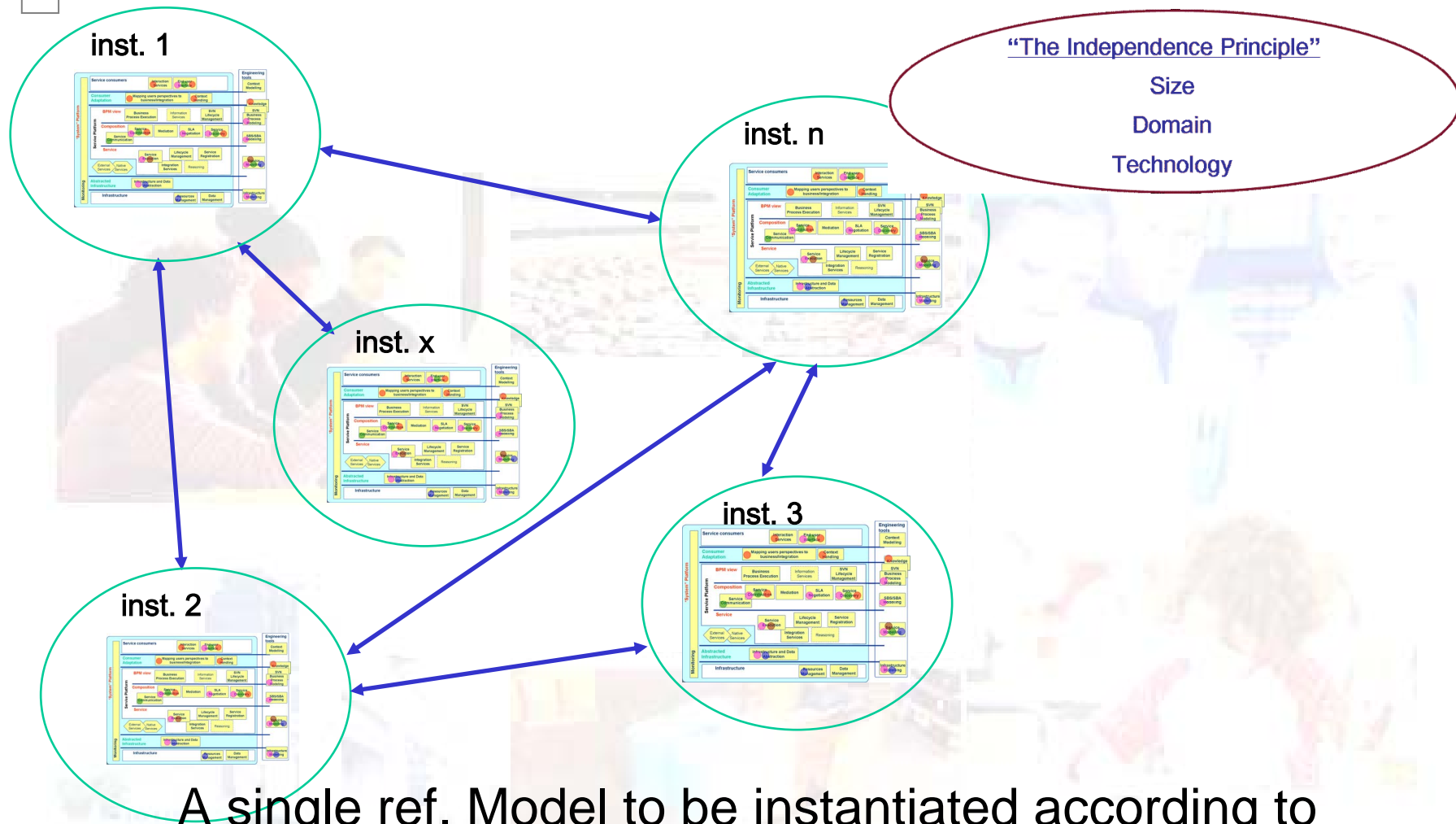
Services propose a single reference model... ←



Services propose a single reference model...



Services propose a single reference model...



A single ref. Model to be instantiated according to specific needs