



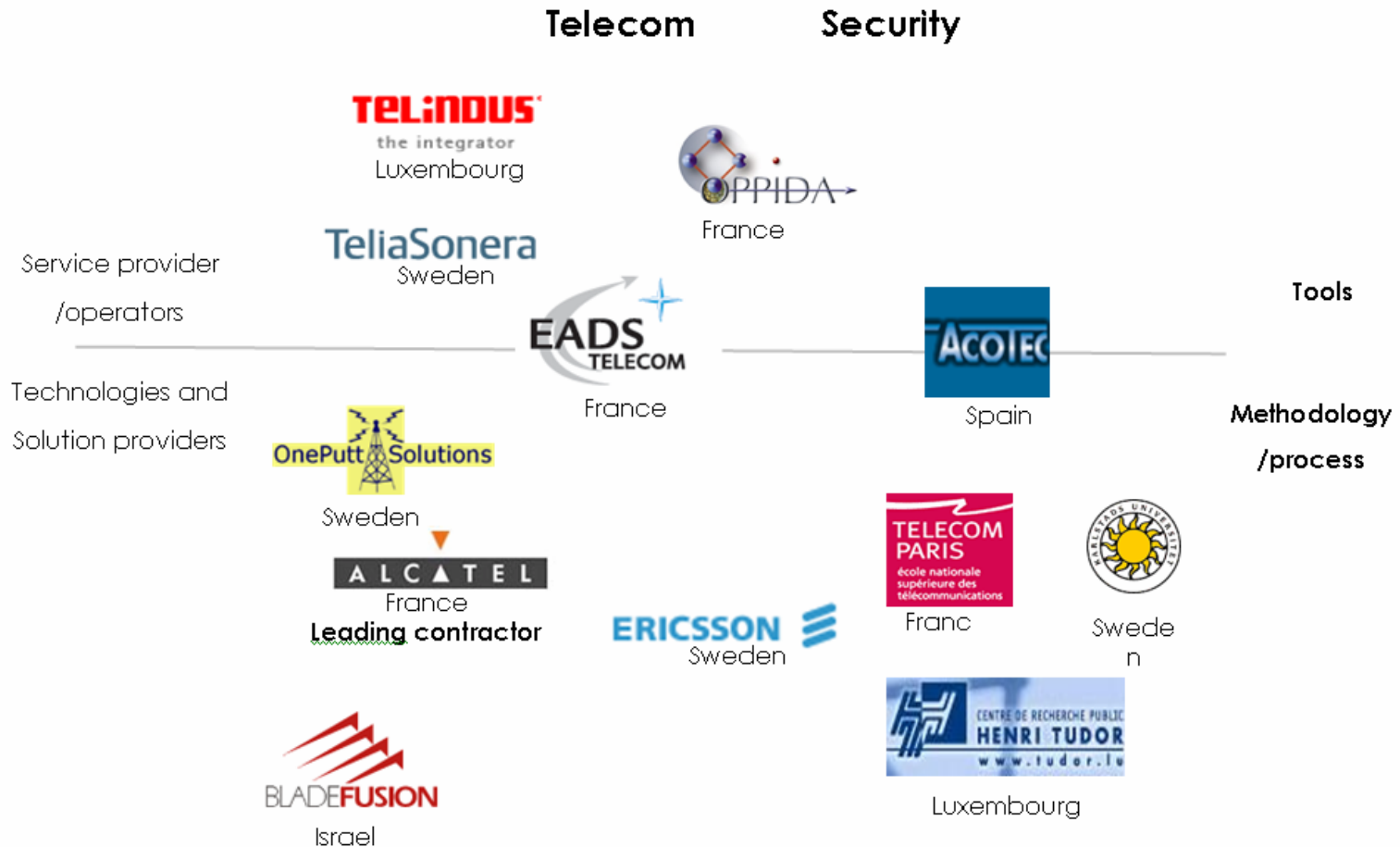
PriSec
Datavetenskap



Building security assurance in open
infrastructures

Albin Zuccato, 21.09.2005

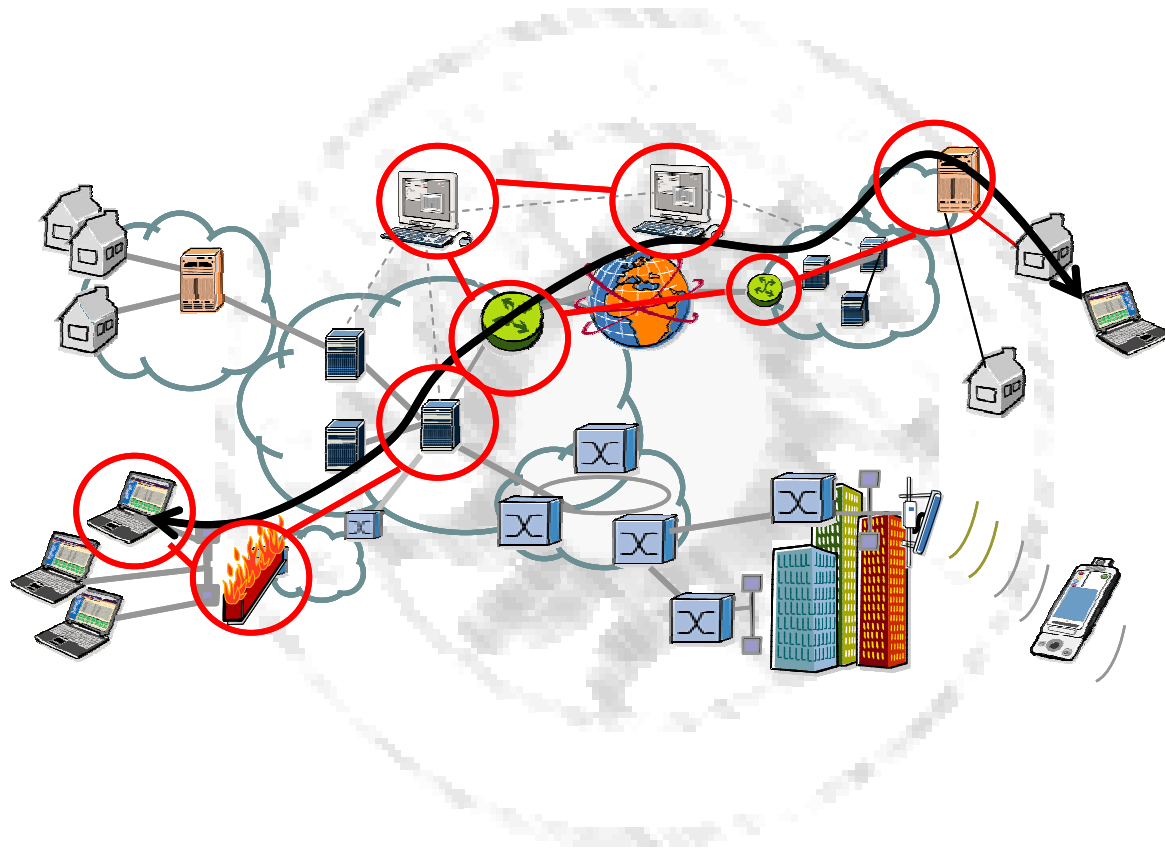
Consortium



Focus

- ✚ The main focus is to **build a framework** providing and integrating means to measure the security assurance of a telecommunications infrastructure as well as the provided services above it.

Telecom Networks



Security versus assurance

Security Situational awareness

1 = How Secure am I?

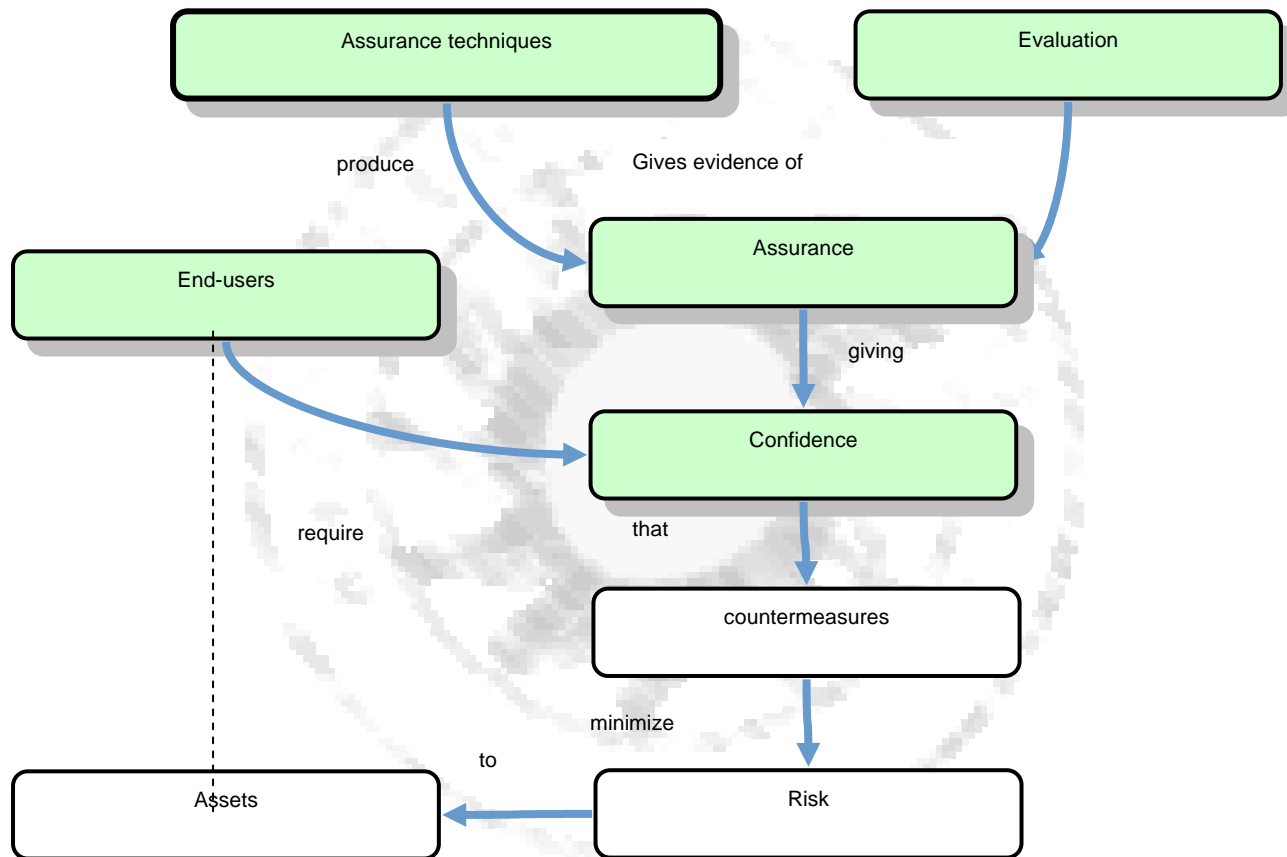
Enhanced Security Situational Awareness

2 = 1 + How confident am I on the answer ?

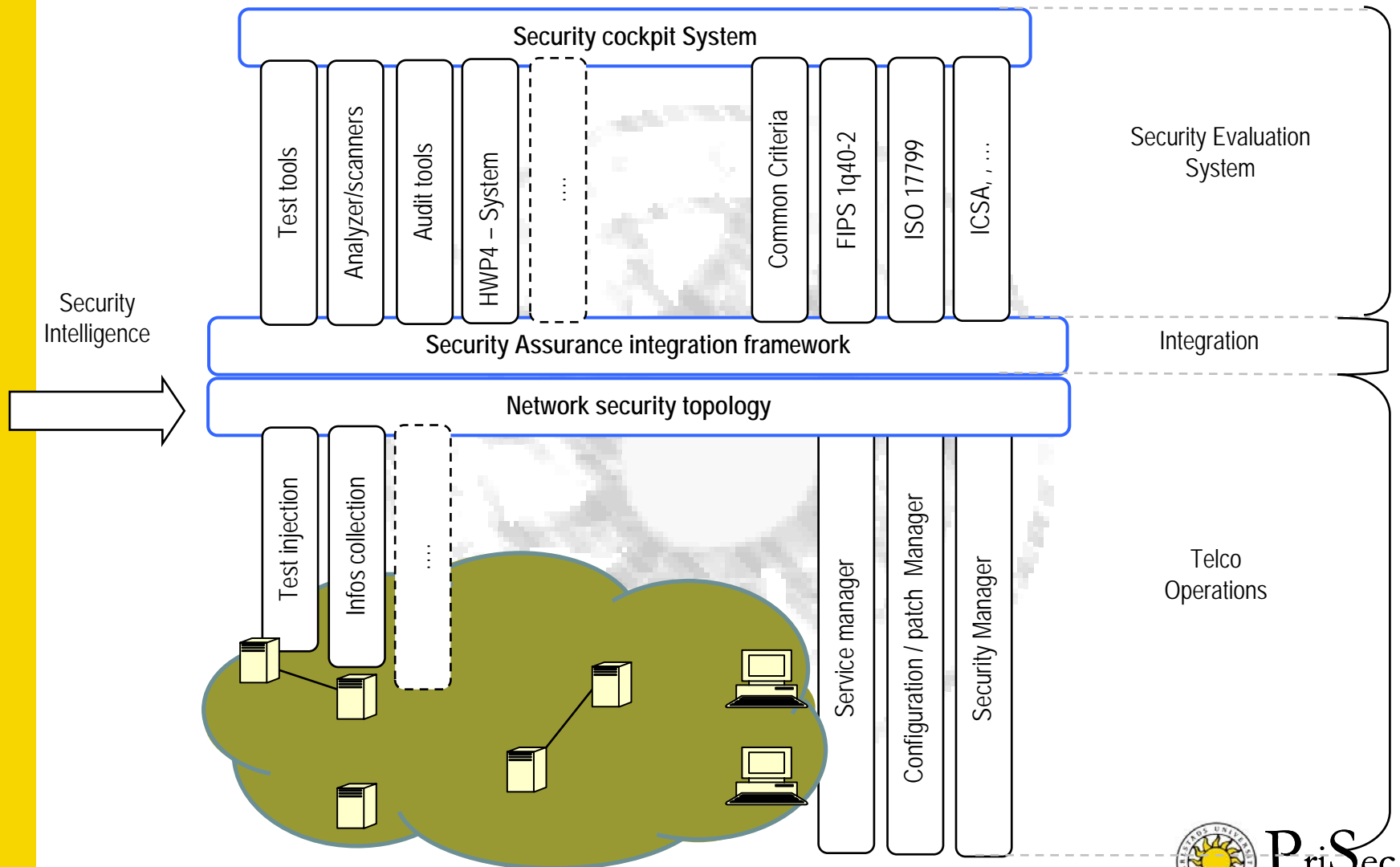


1- Risk assessment + 2- Security assurance

Assurance covered

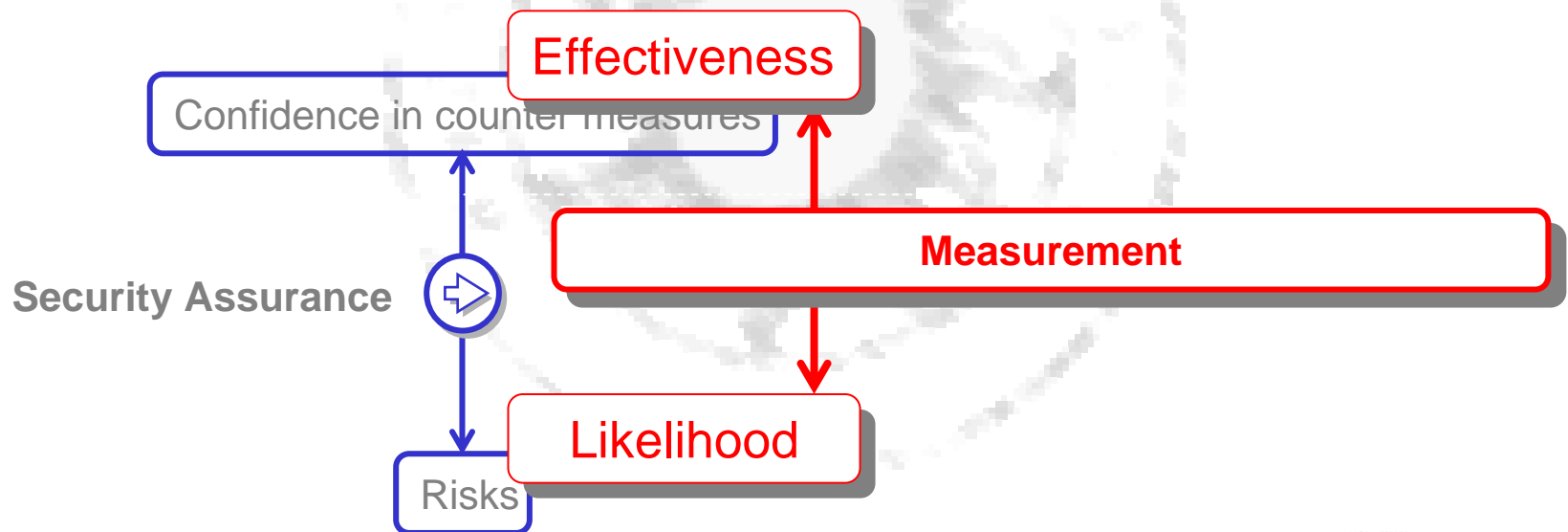


The approach



2 dimensions of security assurance -> 2 possible scenarios of results exploitation

- Assurance is addressing measurement of confidence regarding:
 - Effectiveness of the security countermeasure versus (Alcatel main developer and integration with NMS/OSS)
 - Likelihood of a risk occurrence (EADS main developer as independent product)



Results

■ System security assurance framework

- Taxonomy
- Assurance Mark-up Language
- Best practices
- Cockpit

Result: Security Cockpit

