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**Building the bridge between practice and research by  
identifying the gaps**

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## Presentation Content



- Situation in practice
- Research
- Building bridges

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## Practice



- Many companies have started doing “something” related to ICS cyber security
  - Started implementing physical measures
    - Antivirus
    - Portable media
    - Firewalls
  - Procedures for remote access
  - Have not imbedded ICS CS in projects
  - Starting writing policies
  - Do not apply training or awareness campaigns
  - Need more awareness themselves on all levels
  - Haven’t imbedded ICS security (like safety) in the organization; strong focus on technical solutions
  - Need to know that is a common problem that goes over boundaries
  - Managers ask for reasonable solutions that cost effectively cover most vulnerable parts of their business



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## Risk and cost

- Top secure is very expensive and 100% security does not exist
- Operators see ICS security as a cost factor and not as a business driver
- Solutions have to be cost effective (what measure brings most)
- How can ICS security been coupled to the business risk model (PF7 ValueSec project might give an answer)



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## Research

- Trying to address topics that rule into ICS cyber security
  - Zooming in on specific issues
- Looking for new measures to mitigate certain problems
- Maybe misses the link to what is really going on in practice
- Lacks visibility to the market



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## Building Bridges

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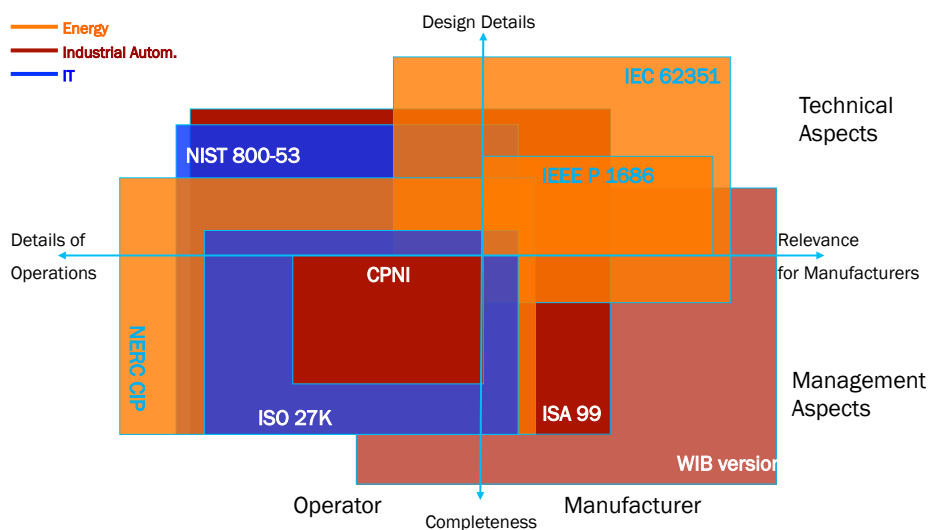
- The challenge is to connect the need of the end user to the business of the researcher → building the bridge
- Possible themes are:
  - Understand the way viruses work and spread in the ICS; develop mitigating strategies → what could be the impact
  - Patch management solutions, both technical as organizational
  - Safe architectures and solutions for obsolete systems (without password, AV, .. )
  - Know your attacker and the environment, what are the biggest risks
  - Homologation of standardization
  - KPI's to benchmark your security posture
  - Training
  - Awareness campaigns
  - Test facility



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## Standards mapping

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**Thanks for your attention !**

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