

Identity management throughout life – solutions, trends, side effects

PETweb II – Privacy in Identity Management

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PETweb II



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ICT 2010 :
DIGITALLY DRIVEN

PETweb II: Privacy respecting IDM for Norway

■ Vision:

- Help system owners chose the right IDM systems with good privacy properties
- Provide metrics & analysis methods
- Case studies and best practice examples

■ Project outline:

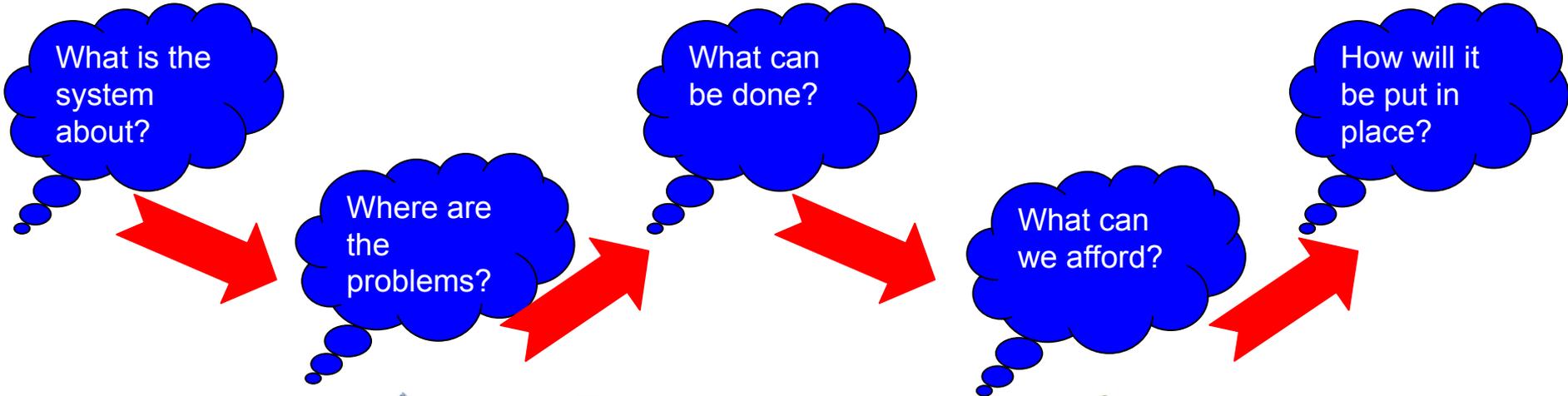
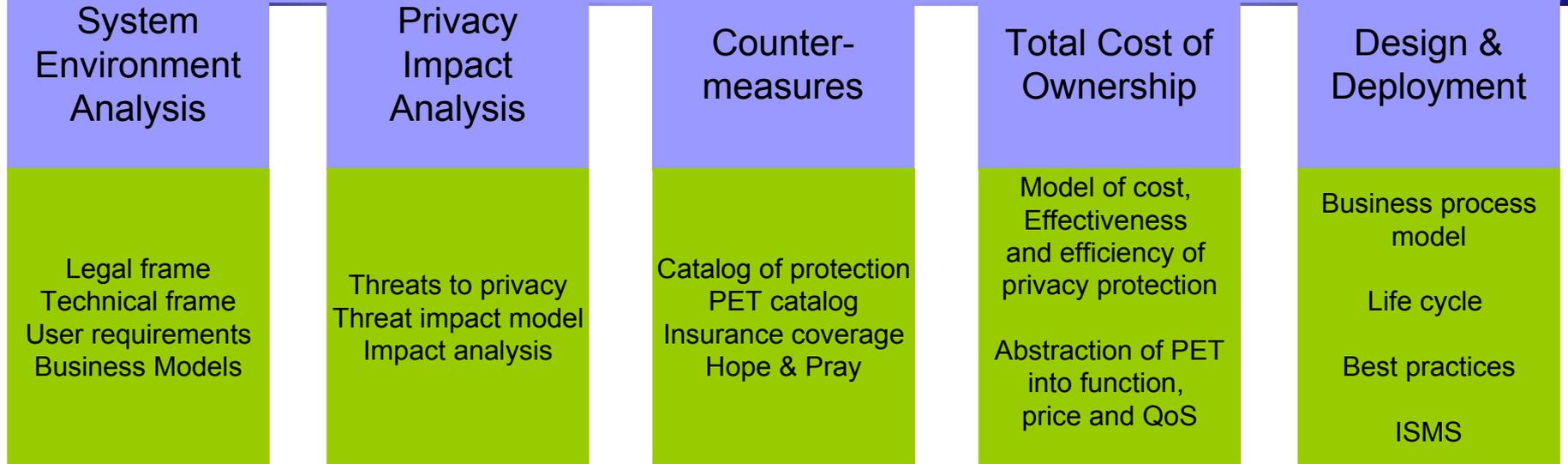
- Develop understanding of risk factors
- Develop simulation/analysis tool for privacy analysis
- Educate and graduate 2 PhD students
- Network with Norwegian stakeholders



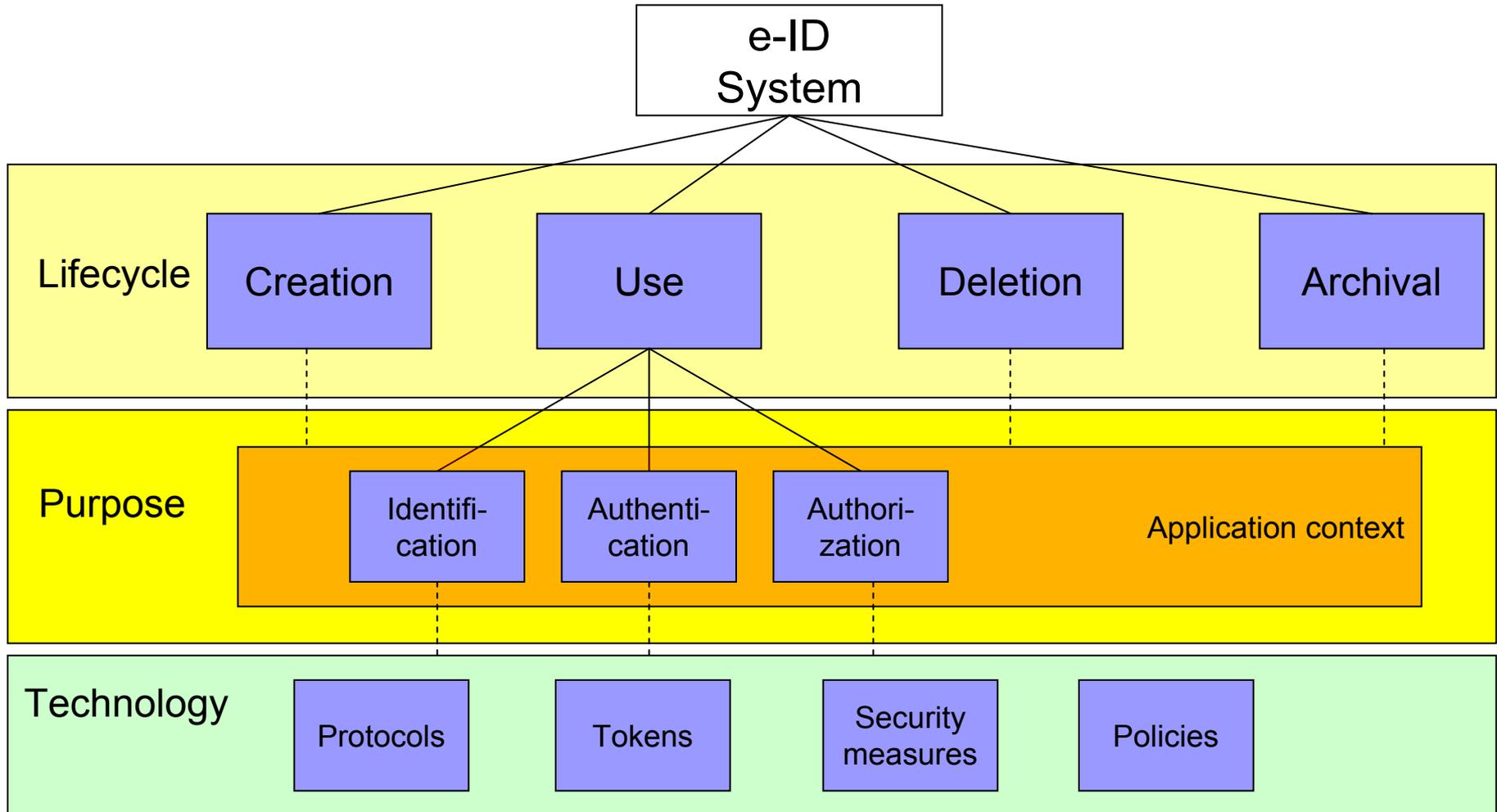
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Privacy in IDM Decision Making



Analysis of risk & side effects created by e-ID



Risk factors in IDM & e-ID

- We're working with qualification and quantification of risk-relevant properties.
- Particular focus: What happens when IDMS get new applications attached? What are risks originating from function creep?

| <i>Risk contributing factors</i> | <i>Parameters</i> |
|--|--|
| Secrecy of Authentication tools | Publicly known, inferrable, secret |
| Mobility of Authentication Tool | Copyable, remotely usable, concurrently usable, immobile |
| Claim type | single, multiple |
| Risks to IDM | loss, misuse, disclosure, disruption, theft, replacement value |
| Provisioning | creation, edit, deletion |
| Frequency and duration | Uses per year, total life time of identifier/transaction |
| Use/Purpose | Authentication, Authorization, Identification |
| Personal attributes | Forced, chosen, role, pseudonymity |
| Obligations & policies | Relationship to ID, Relationship to PI |

EU collaboration interests

- Call 7
 - Privacy design and IDM concepts in e-Health
 - Privacy and e-ID challenges in the Internet of Things
 - Usability, User interfaces, and e-inclusion issues
- Call 8
 - Further development of trustworthy components with known privacy and risk properties
 - Tools and methods
- ... and any other issue is welcome
 - Privacy economics, Usability testing, Lifelong e-ID,...



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