e-Government for Small Countries
Challenges and Opportunities

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Primary Needs ...

- Integrated governmental information systems
  - Registries, document management, accounting, GIS, ...
- e-Services to citizens, apps, payments, ...
Based on...

- Hosting, networking
- PKI
- Electronic identity, mobile identity
- Data exchange platform
- Portals
- Custom-made software
- Cybersecurity
Also ...

- Personnel is needed to operate the systems
  - Separation of roles
- Redundancy is needed
  - Multiple data centers, disaster recovery
- Sustainability
  - Systems must be renewed (5-10 years lifetime)
- Autonomy and self-sufficiency are needed, staying in control

- Cannot just leave out some pieces
- Might be too much for small countries
Solutions ...

- More efficient solutions with smaller footprint and lower administrative overhead
  - UXP – very fast data exchange and PKI system with low administrative overhead
- Outsourcing
  - Very common in hosting, networking and PKI
- Sharing systems and services with private sector
  - Great for electronic and mobile identity
- International cooperation
  - Sharing the systems and installations, redundant data centres and disaster recovery
Questions ...

- Is it secure?
  - What functions can be outsourced and shared?
- How to organize the cooperation?
  - What are the rules?
  - What standards and protocols to use?
  - How to avoid vendor lock-in?