



UiO • **Department of Informatics**
University of Oslo

Information Infrastructures & infrastructure studies

On challenges and strategies

Ole Hanseth



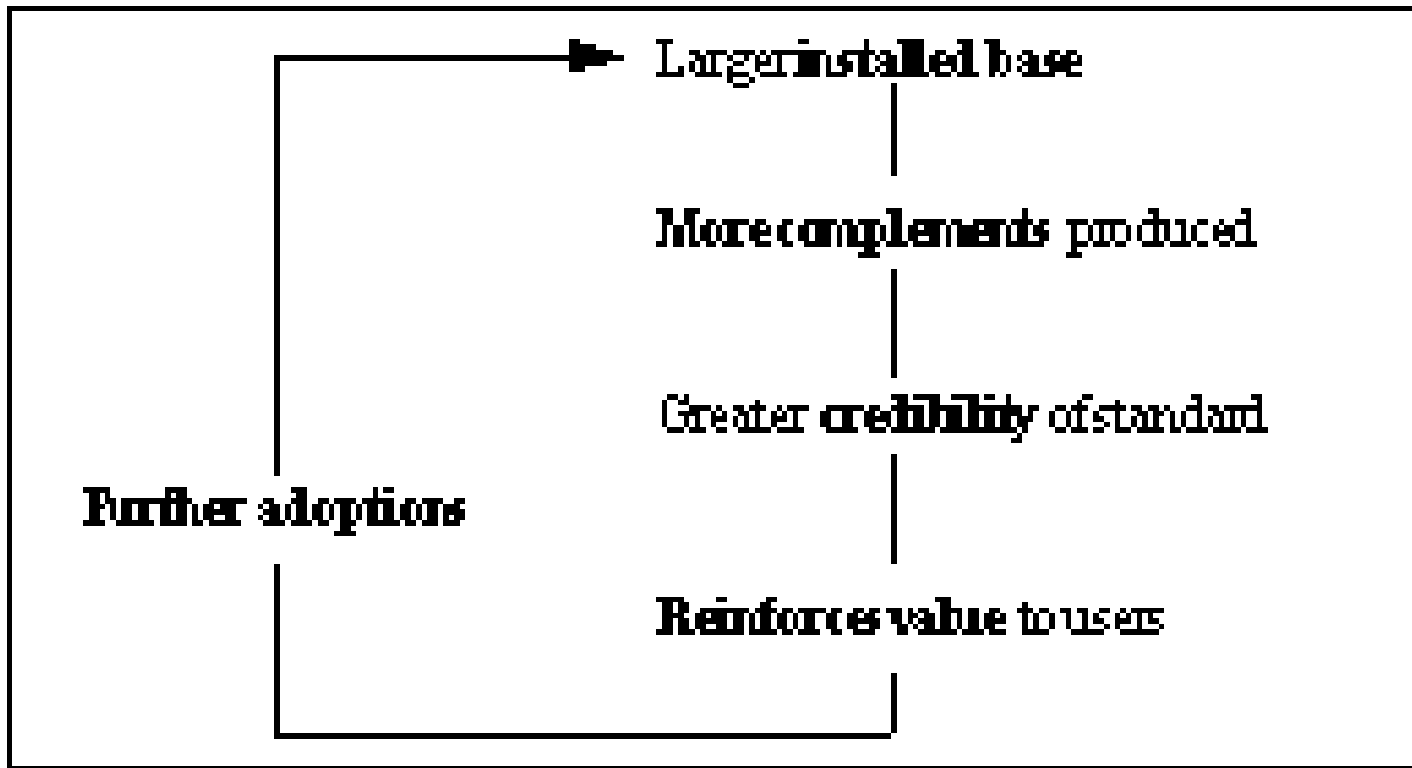
Examples

- Internet, mobile phone network, ..
- National/regional health care infrastructures
- Supply chain infrastructures
- Cyber/knowledge infrastructures
- Programmatic advertisement
- Pan-European e-government infrastructures
- IT/IS portfolio in large distributed organizations
- Platform/app ecosystems

Characteristics

- Lasts forever, evolves over loooooong time
- Complexity
 - Vendors, user organizations, applications, networks, ..
 - Emergence, (side-effects), path-dependency, lock-in
- Not controlled by one actor

Network effects – self-reinforcing installed base



Implications

- Side-effects and path-dependency
- Competition – tipping point (critical juncture)
- Lock-in
- Backward compatibility
- Dilemmas: Take off

Possible strategies

1. “Telecom model:” Specification driven (standards)
 - CfH, EU, ..
2. Pilot, demonstrator
 - EU,...
3. “Living lab” – installed base cultivation
 - Internet, programmatic advertisement,

Thank you!