

Future Internet Socio-economics (FISE)

Burkhard Stiller ^{1,2}, **Mike Boniface** ³, **Sergios Soursos** ⁴

¹ *Communication Systems Group CSG, Department of Informatics IFI,
University of Zürich UZH, Switzerland*

² *Associated with D-ITET, ETH Zürich, Switzerland*

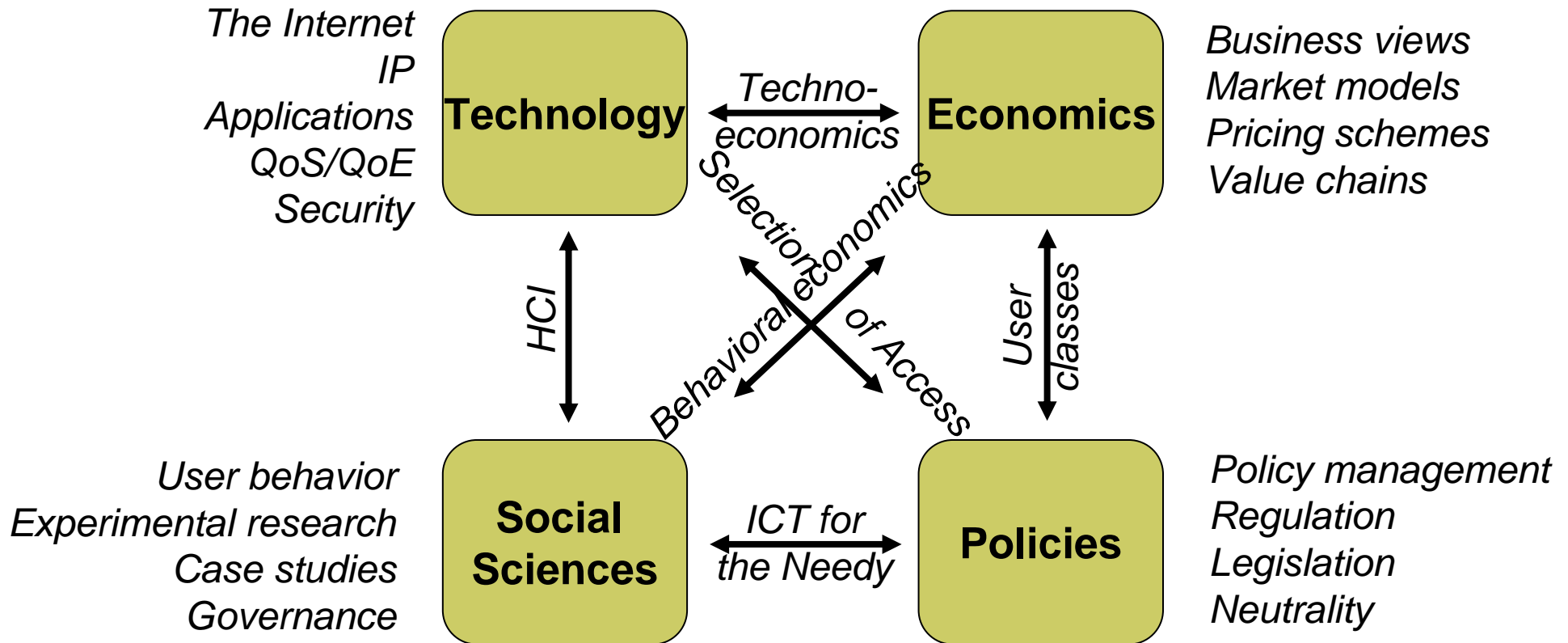
³ *University of Southampton, U.K.*

⁴ *INTRACOM TELECOM, Greece*

Introduction
Panel Feedbacks
Brainstorming
Focused Discussion
Summary and Next Steps

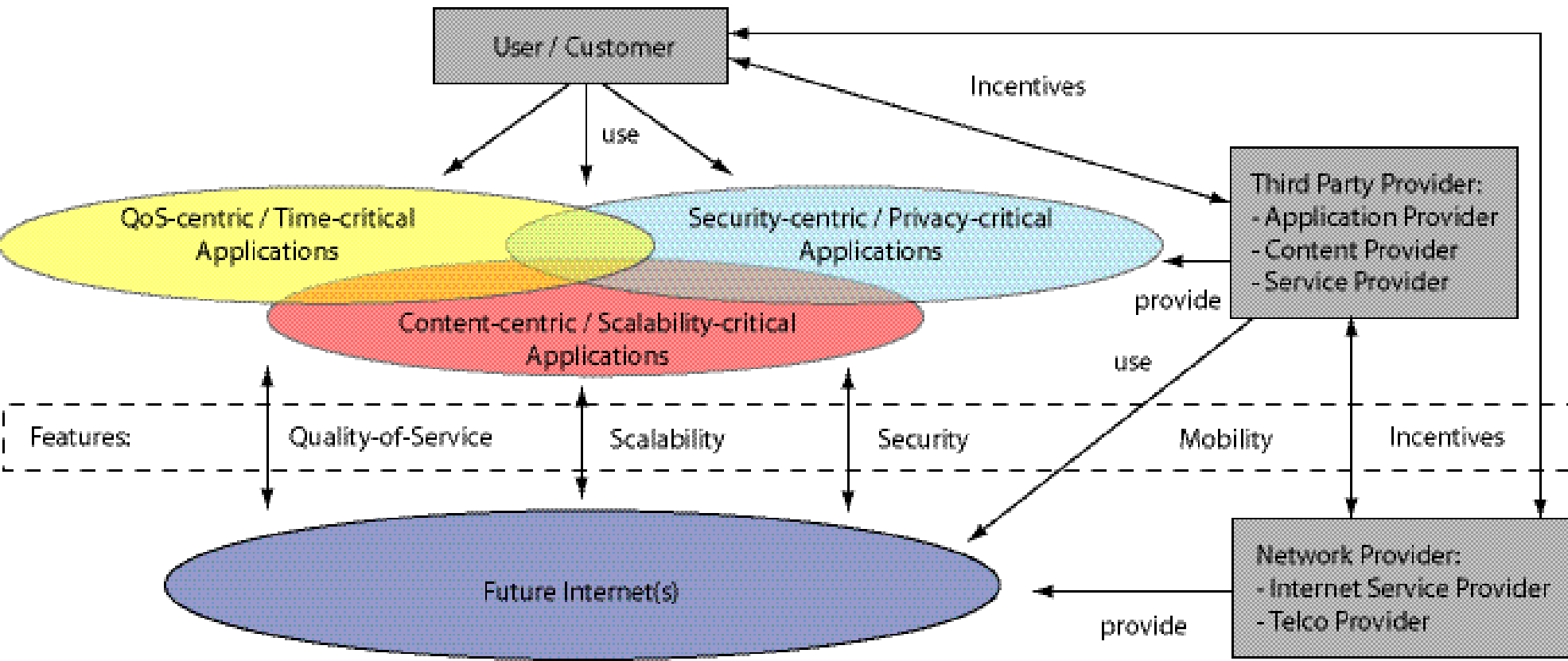
Introduction

Areas and Cross-layer Interactions (1)



Examples

Areas and Cross-layer Interactions (2)



Application Examples

- ❑ Smart health
- ❑ Smart transport
- ❑ Smart living
- ❑ Smart energy
- ❑ E-government
- ❑ Network management
- ❑ ...

SE-based Network Management (1)

- ❑ Sustainability
 - Mid-, long-term guidelines for higher levels
- ❑ Charging
 - Commercialization (rating in telcos)
- ❑ Incentives
 - Feedback mechanisms between providers and users
- ❑ Requirements
 - User-specific needs, a.o., QoE, quality deterioration

SE-based Network Management (2)

- Monitoring
 - You want to see the network react before the user does
- Autonomy
 - Time scale-based distinction of SE management trends
- Intervention
 - Humans in mid-, long-term planning

Suitable Incentive Schemes

- ❑ Incentive-compatibility
 - Implementation in respective technical protocol(s)
- ❑ Network neutrality
 - North American, European, and global perspective
- ❑ User-friendliness
 - Easy application and utilization of incentive mechanisms
- ❑ Fair use
 - Beyond TCP and better than UDP fairness notions
- ❑ No malicious exploitation of other stakeholder(s)
 - Proof of such non-exploitation in case of malicious players

FISE

- Material will be available at:
<http://www.smoothit.org/wiki/pmwiki.php/FISE/>

Web Site supported by FP7 ICT STREP

