

Climbing Towards Trust, Privacy and Identity Management in Emerging ICT-based Scenarios

★ ★ ★ First Endeavour: Requirements

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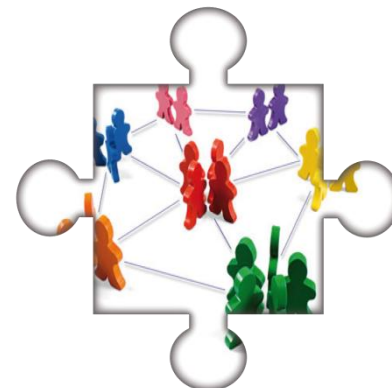
Networking Session 77



- The Story Evolves : Future ICT-based Interaction Scenarios
- PICOS for Mobile Communities
- 1st Endeavour: Requirements

Future ICT-based Interaction Scenarios

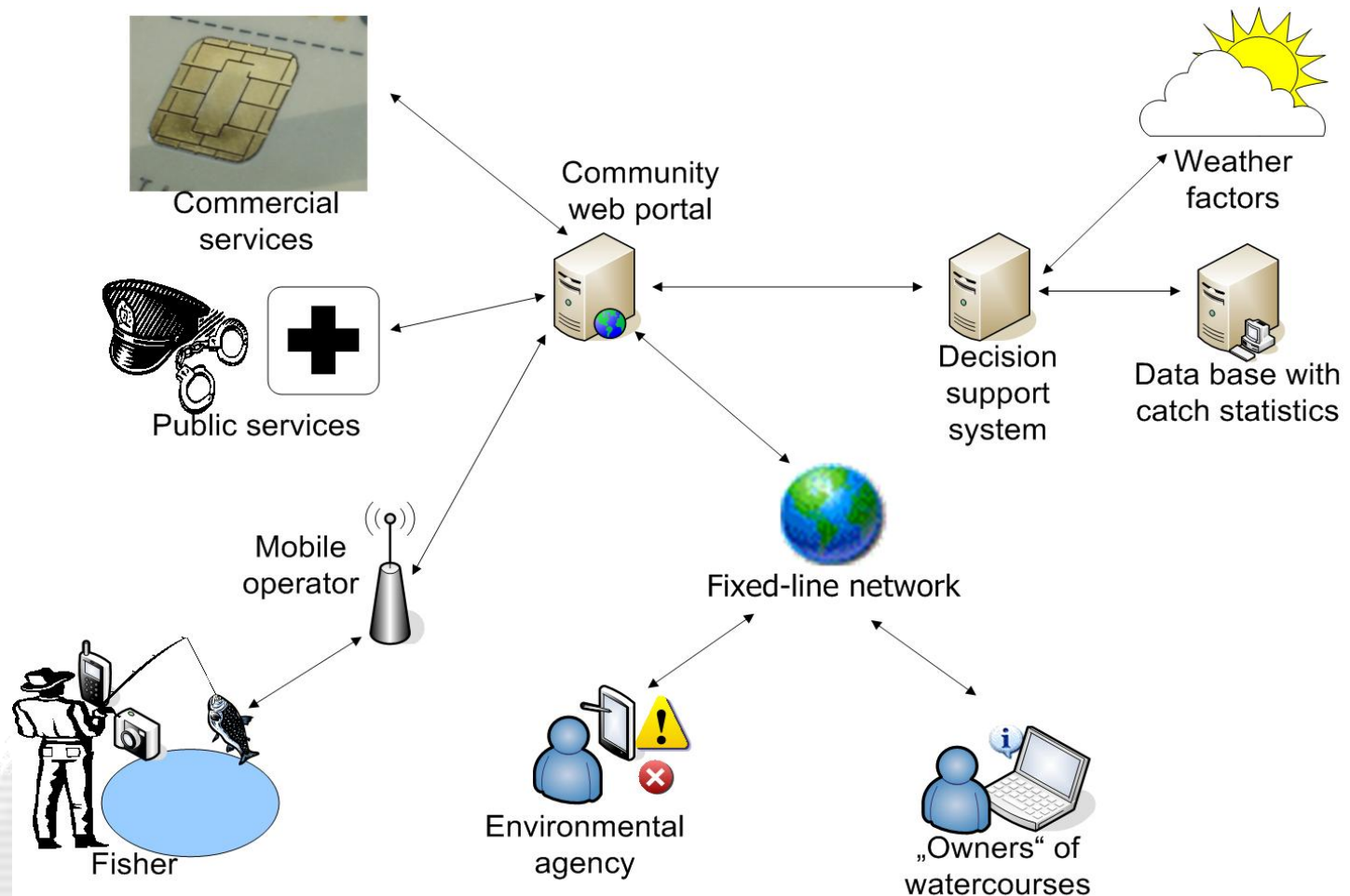
Trend: emergence and rapid growth of services coupled with new technologies



- Opportunities and challenges for new and enhanced forms of ICT-based interaction scenarios
 - ★ Business vs. leisure world
 - ★ “Real” vs. online world
- Change of Media: New opportunities through mobile communication and Next Generation Networks
 - ★ Participation at the place and moment of user’s choice

Future ICT-based Scenarios Exemplary Community

Anglers as an exemplary leisure time community



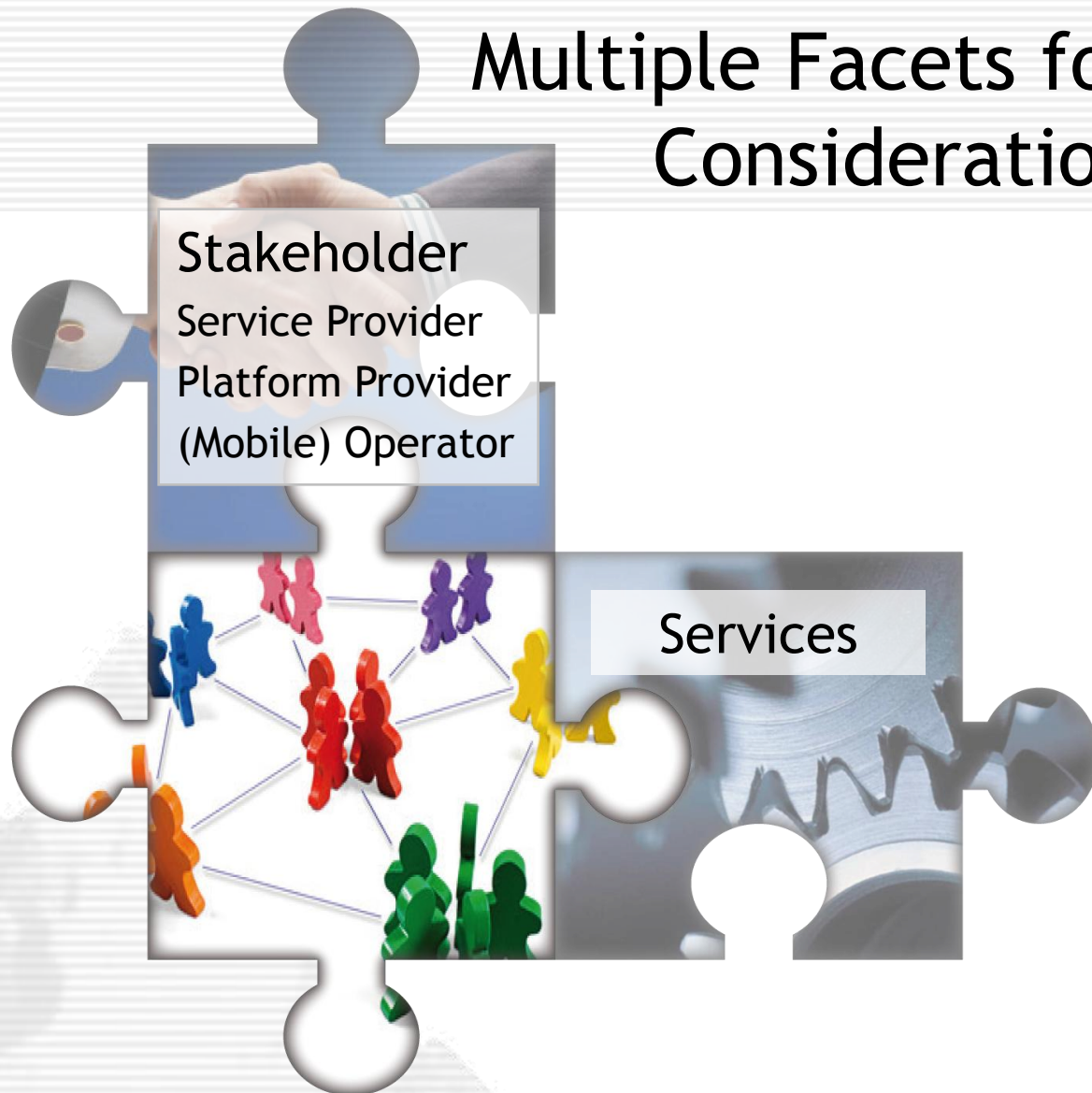
Multiple Facets for Consideration



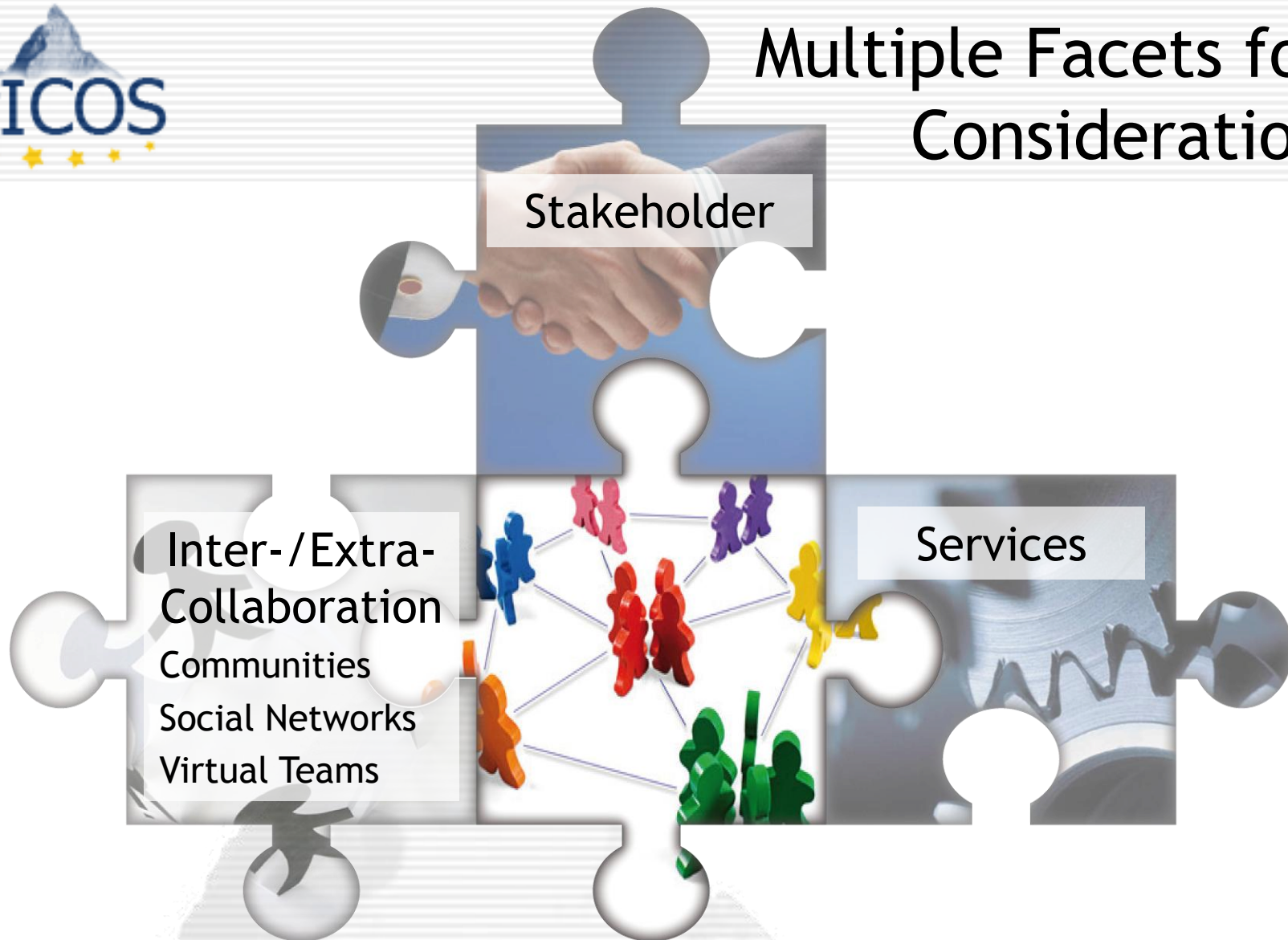
Multiple Facets for Consideration



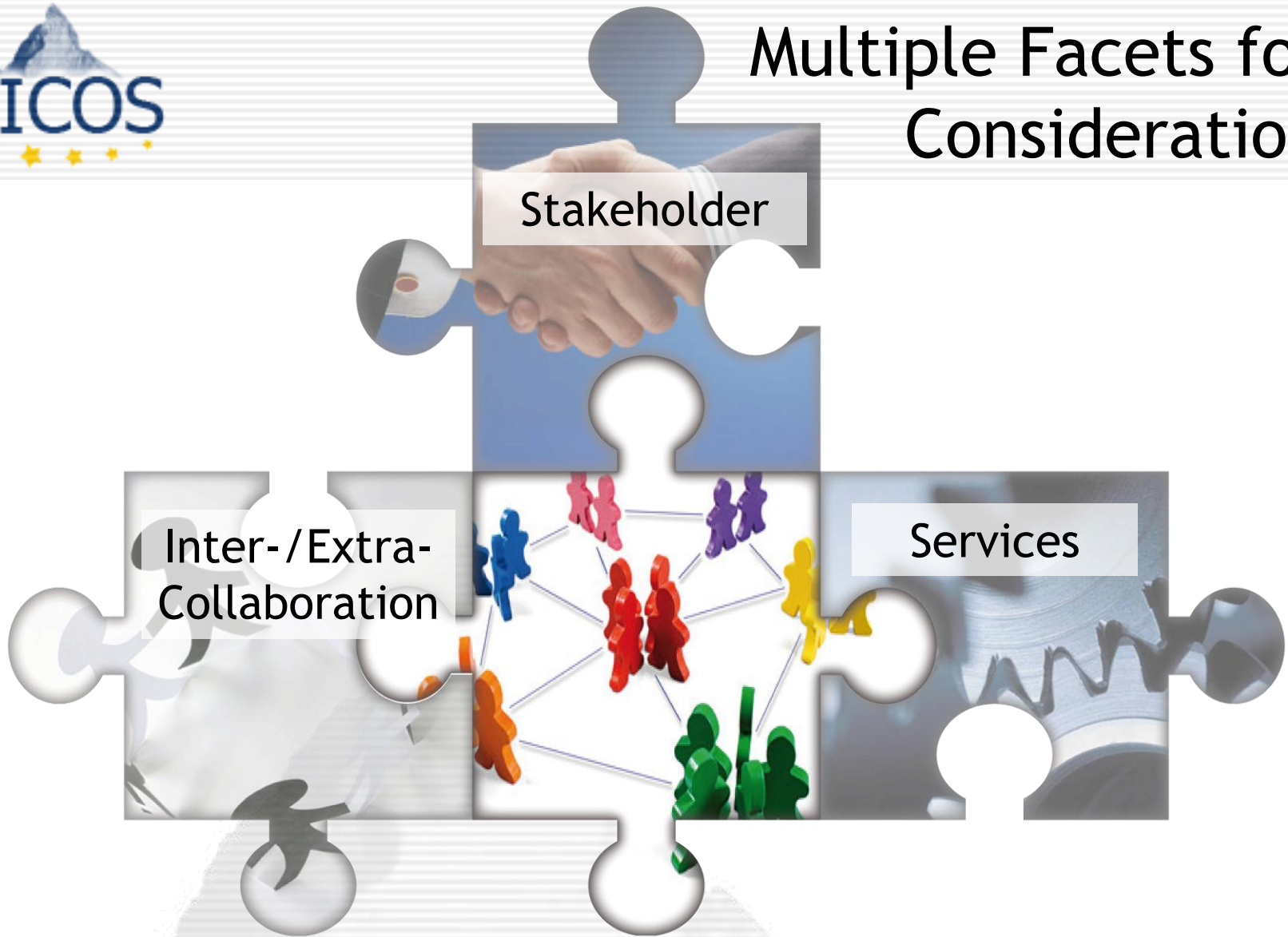
Multiple Facets for Consideration

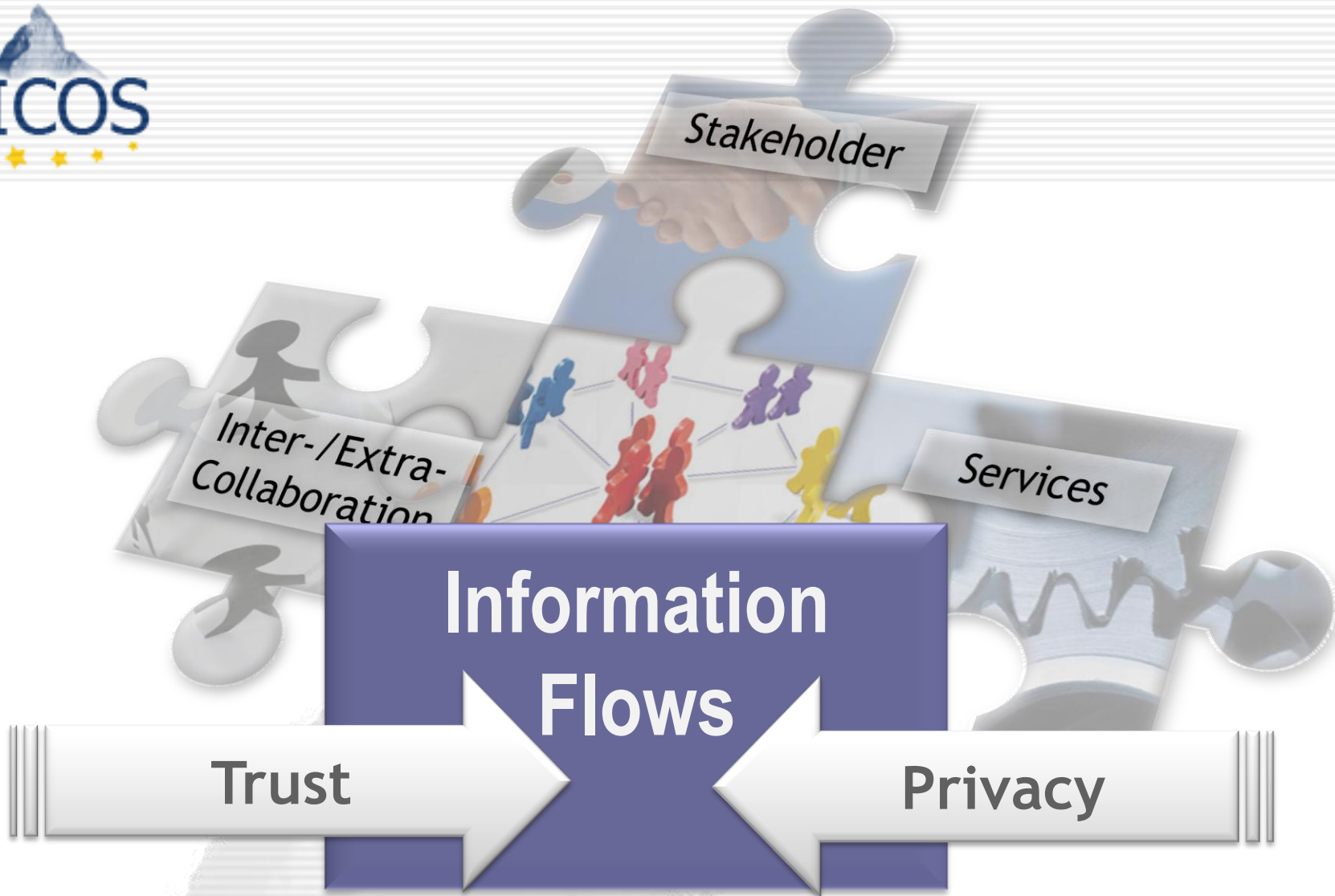


Multiple Facets for Consideration



Multiple Facets for Consideration





A new approach is needed to meet requirements for

- the enablement of trust in
 - other members (by members of the community),
 - community-related stakeholders, and
 - service-provision infrastructure,
- the privacy of community members' personal information,
- the control by members of the information they share, and
- the interoperability of community-supporting services between communication service providers.

This approach must be developed in an open manner and requires technical and procedural advancement.

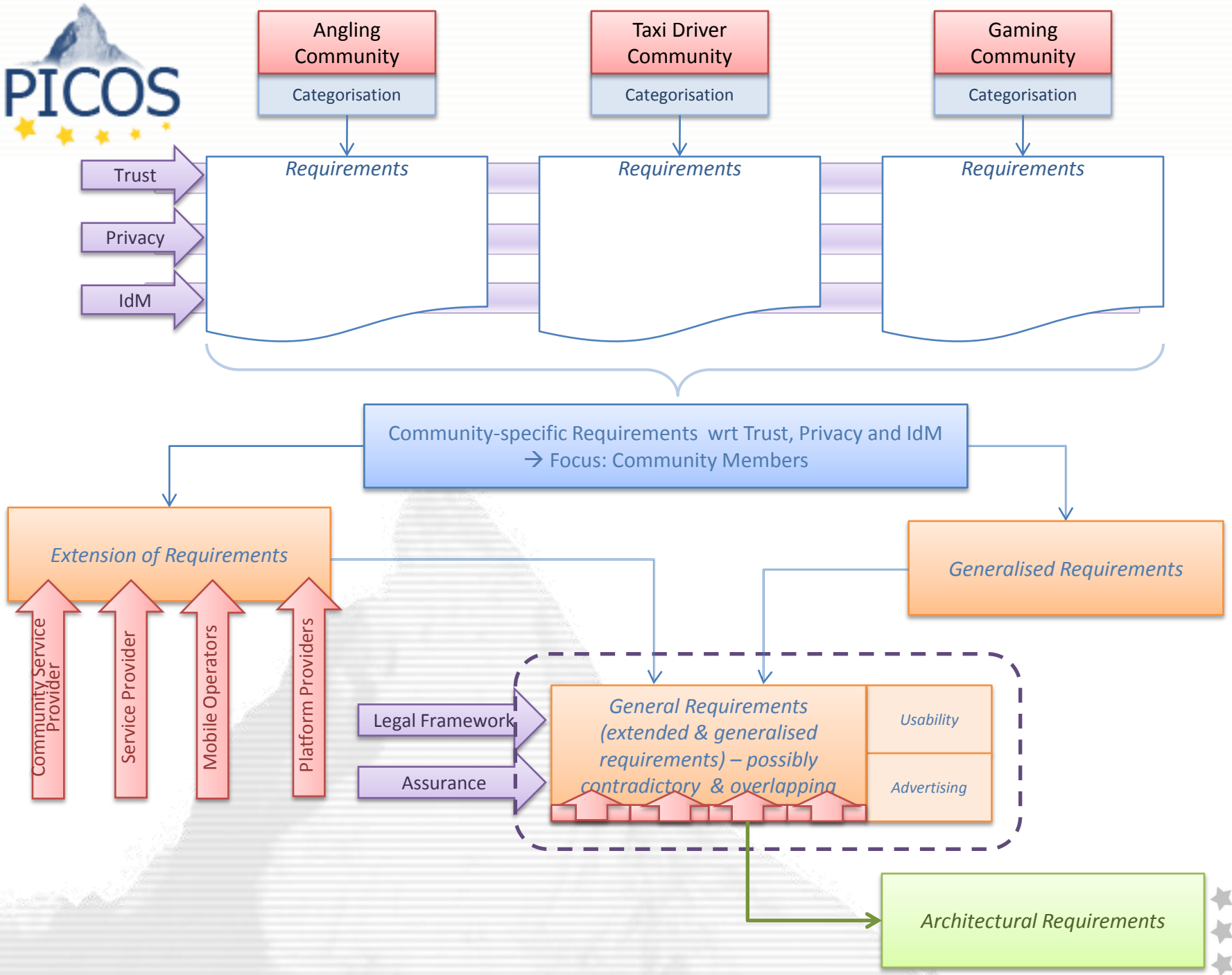
PICOS - Privacy and Identity Management for Community Services

- Research on mobile and online communities and how to build trust and privacy within them
- Developing and building a state-of-the-art platform
 - ...for providing trust, privacy and identity management aspects
 - ...of community services and applications
 - ...on the Internet and in mobile communication networks.
- Expected results:
 - Set of interdisciplinary requirements,
 - Platform prototype that demonstrates the provision of state-of-the-art privacy and trust technology, and
 - User-centred trials.



First Endeavour: Set of Interdisciplinary Requirements

- Set of interdisciplinary requirements = catalogue of summarised stakeholder's needs and requirements
 - Provide input to the architecture and the PICOS platform, and
 - Guide the development and evaluation of the application prototypes.
- Involvement of stakeholders right from the start
 - Angling Community,
 - Independent Taxi Driver Community, and
 - (Mobile) Online Gaming Community.



Classifying Requirements | 1

I. Community Specific Requirements

Trust, privacy, and IdM requirements (user & community provider specific requirements)

- Angling Community,
- Independent Taxi Driver Community, and
- (Mobile) Online Gaming Community

II. Generalised Requirements

- Trust, privacy, and IdM requirements (user and community provider)
- Requirements regarding platform and services

III. Extended Requirements

- Usability requirements
- Requirements on data brokerage, especially advertising
- Legal requirements
- Requirements regarding technical assurance

- Balanced set of requirements for mobile and online communities
 - Community/community-provider specific requirements
 - Extended and generalised requirements set
 - Design principles and requirements for architectural components
- Involvement of stakeholders in gathering process
- Generalisation and extension of requirements
- Weighting and transferring requirements into technological and organisational measurements

A interdisciplinary and balanced set of partners from academia and industry:



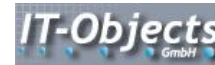
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Katholieke Universiteit Leuven -
Interdisciplinary Centre for Law & ICT
[Belgium]



Masarykova universita v Brno
[Czech Republic]

- Project Timeline: 3 years from 1 February 2008
- Project Budget: ~€6M
- PICOS receives funding of ~€4M from the Information Society and Media DG of the European Commission
- First public deliverables available at the PICOS website



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