FIT-IT: Secure 2.0
Scientific and technical objectives 1/2

• The technological transition to Web 2.0 brings in new security and privacy concerns
  – Secure and trustworthy data exchange
  – Semantic security concerns

• As a result the shared information can be combined with personal/organizational policies to protect the information in a collaborative environment like Web 2.0.
Scientific and technical objectives 2/2

• Secure 2.0 was aiming to provide reusable foundation components for information sharing ... such as **policy storage and integration, semi-automatic information annotation, semantic pattern matching**

• The proposed components will be also applied to the **MindMeister** product (a Web 2.0 mind mapping tool)
Motivations

• Disclosure of personal/organizational information in Web 2.0 via social networks, digital contributions & data feeds in a trustworthy way

• The data mining in the user generated entities and extracting the derived knowledge and information patterns is the new threat to privacy of individuals

• Another major challenge is to “give end-users security controls they can understand and privacy they can control for the dynamic, pervasive computing environments of the future” (CRA 2003).
Scenarios

• **Assistive services**: Specific Web 2.0 contents should provide assistance for users who create similar contents

• **Resource sharing**: Sharing information with user users (e.g. social networks)

• **Self-monitoring of trust level**: The data contributed by users on Web 2.0 is a good resource that can reflect the individual / organizational behavior and attitude.
Vision / Big Picture

- Social Web Data Extraction
- Text Analysis Techniques
- Self Organizing Maps
- Quality measure
- Semantic Filtering
- Domain Specific Ontologies
- User Ethical Requirements
- Templates
- Assistive Services
- Self Monitoring
Tasks and Challenges of the Secure 2.0 Proposal

I. Establishing a generic and scalable platform for harvesting the knowledge of generic Web 2.0 nodes

II. Defining standard methods for analysis of Web 2.0 documents according to the specific resource data models

III. Supporting the user during development of Web 2.0 content by formal identification and specification of relevant information, expected entries and templates

IV. Providing a self-monitoring tool for evaluating individual/organizational presence on the web
Dissemination: Papers 1/2

- Context Oriented Analysis of Web 2.0 Social Network Contents (MindMeister Use-case); Amin Anjomshoaa, Vo Sao Khue, A Min Tjoa, Edgar Weippl, Michael Hollauf; Proceedings of the Asian Conference on Intelligent Information and Database Systems (ACIIDS 2010), Springer LNCS (Best Paper Award)


Dissemination: Papers 2/2


• A SOM-Based Technique for a User-Centric Content Extraction and Classification of Web 2.0 with a Special Consideration of Security Aspects: A. Tahamtan, A. Anjomshoaa, E. Weippl and A.M. Tjoa, Proc. of 4th International Conference on Knowledge Science, Engineering & Management (KSEM 2010), To Appear

• Privacy Aspects of Mashup Architecture; Gerald Bader, Amin Anjomshoaa, A Min Tjoa; International Workshop on Privacy Aspects of Social Web (PASWeb 2010), To Appear

• Exploiting Ontology for Software License Agreements; Muhammad Asfand-e-yar, Amin Anjomshoaa, Edgar R. Weippl, A Min Tjoa ; International Journal of Software and Informatics (IJSI), Vol. 4, No.1

• Invited paper for special issue for the International Journal of Intelligent Information and Database Systems (IJIIIDS)
Dissemination: Dissertations

• Amin Anjomshoaa, defended in December 2009, “Integration of Personal Information into Global Processes”

• Vo Sao Khue, “Personal Resource Planning in Collaboration Environments for Enterprise 2.0 Context”
Dissemination: Project Presentations

• IMPACT presentation, SBA, Austria
• King Mongkut's University of Technology, Thailand
• Universitas Indonesia, Indonesia
• Czech Technical University Prague
• Institut Teknologi Bandung, Indonesia
• University of Linz
• Ho Chi Minh City University of Technology, Vietnam
• University of Regensburg
Dissemination: Workshop

- First International Workshop on Privacy Aspects of Social Web and Cloud Computing (PASWeb-2010)

  Held in conjunction with the Second IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT2010), Minneapolis, USA, August 19-22, 2010
Thank you very much for your attention!