





# Participant Profile

for the  
**Turkish-German Strategy Workshop 2006**  
**TÜBİTAK Marmara Research Center,**  
**Istanbul- Gebze Turkey**  
**13 – 15 December 2006**



International Bureau (IB)  
of the Federal Ministry of  
Education and Research  
(BMBF)

**Methods:** Design and development of prototype solutions, usability and case studies, evaluation and demonstration of solutions, best practise solutions and frameworks, collaborative software development, rapid prototyping

**Key technologies:** XML-based technologies (XSD; XSLT...), Service Oriented Architecture (SOA), Web Services (WSDL, SOAP), Web Service Composition (BPEL), Semantic Web Technologies (RDF, OWL, Rules), Mobile Service Technologies (J2ME, GPS), Service Registries

**Infrastructures:** Key asset of the ELAN competence center is the interoperability laboratory (<http://www.fokus.fraunhofer.de/bereichsseiten/testbeds/egov-labor/index.php?lang=en>) that has received strong support from major industry players (including Adobe, Microsoft, Oracle, IBM and SAP) and public administrations. It is an environment for testing and implementing technical and semantic interoperability between technologies and ICT systems (especially in the eGovernment context) of different vendors based on open standards and open interfaces - for instance document, platform and application interoperability. The laboratory provides a multitude of components (process management engines, CMS, groupware platforms, payment systems, electronic signature components etc.) to set up test and application scenarios in R&D projects.

**Key publications (of the participant):**

Matthias Fluegge, Ivo J. Garcia dos Santos, Neil Paiva Tizzo: Challenges and Techniques on the Road to Dynamically Compose Web Services, Sixth International Conference on Web Engineering ICWE 2006, Stanford Linear Accelerator Center, Palo Alto, California, July 2006

Nils Barnickel, Matthias Fluegge, Kay-Uwe Schmidt: Interoperability in eGovernment through Cross-Ontology Semantic Web Service Composition, Workshop Semantic Web for eGovernment, 3rd European Semantic Web Conference 2006, Budva, Montenegro, 11-14 June 2006

Matthias Fluegge, Michael C. Jaeger: Adding Value to E-Services: A Business-Oriented Model, in (Jie Lu et. al. Eds.): E-Service Intelligence – Methodologies, Technologies and Applications, ISBN 3-540-37015-3, Springer's book series on Computational Intelligence, 2006

Matthias Fluegge, Diana Tourtchaninova: Ontology-derived Activity Components for Composing Travel Web Services, presented at the International Workshop on Semantic Web Technologies in Electronic Business (SWEB2004), Berlin, Germany, 13 October 2004

Matthias Fluegge, Kay-Uwe Schmidt: Using Semantic Web Services for Ad Hoc Collaboration in Virtual Teams, Proceedings of Berlin XML Days 2004, pp.187-198, Berlin, Germany, 11 October 2004

Matthias Fluegge, Diana Tourtchaninova: Middleware Supporting Automated Inter-Organisational Collaboration, Position Paper, IST COCONET Roadmap Workshop, Zürich, Switzerland, October 2002



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## 2. Past and present research collaborations

**Are you familiar with the European Framework Programme?**

<input checked="" type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>
<input checked="" type="checkbox"/> with Framework Programme 5 <input checked="" type="checkbox"/> with Framework Programme 6 <input type="checkbox"/> with Framework Programme 7	

**EU-projects you are involved in:**  
**Past projects**

Programme title / contract number / title / acronym / your function (coordinator / partner / contractor)  
FP6 / IST-1-002104-STP / Semantic-based Interoperability Infrastructure for Integrating Web Service Platforms to Peer-to-Peer Networks / SATINE / partner  
eTEN / Registry Information Service on European Residents / RISER / partner  
@LIS / Electronic Government Innovation and Access / eGOIA / coordinator  
FP6 / IST-2002-2.3.1.9 / Electronic and Secure Municipal Administration for European Citizens / eMayor / partner  
FP5 / IST-2001-37460 / Context-aware collaborative environments for next generation business networks / CoCoNet / partner  
FP5 / IST-2000-29478/ Thinking network of experts on emerging smart organizations / ThinkCreative / partner

**Present projects**

FP6 / IST-2005-2.3.2.3 / Quality Platform for Open Source Software / QualiPSo / partner  
FP6 / Expediting Adoption of e-working Collaborative Environment / EACE / partner  
FP6 / IST-027665 / European project for Standardized Transparent Representations in order to Extend Legal Accessibility / ESTRELLA / partner  
Modinis / eGovernment Good Practice Framework / partner

**Other international collaborations:**

The competence centre ELAN of the Fraunhofer Institute FOKUS is establishing a worldwide network of eGovernment interoperability laboratories. Such labs already exist in Poland, Brasil and Belgium.  
Ongoing research collaboration with Hitachi and NTT Data (Japan) in the area of Service Oriented Architectures and Platforms.

**Name(s) and contact details of potential partners:**

If you would like to suggest the participation of particular partners from the partner country based on existing contacts or collaboration experience, you are welcome to indicate their names and contact details below:

## 3. Presentation at the Workshop

I will give a presentation at the workshop (approx. 10 min.) to present my institution, my expertise, and my collaboration interests. The contents of my presentations is summarised below (max. 1 page).



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The presentation will provide a brief overview of the Fraunhofer FOKUS institute and its four main business areas eGovernment, 3G beyond, Smart Environments and Model Driven Engineering. The activities of the FOKUS competence center ELAN (Electronic Government and Applications) will be described in more detail. This includes a short presentation of the ELAN Interoperability laboratory which is a showroom and working environment for demonstrating and implementing interoperability between heterogeneous technologies and ICT systems (especially in the eGovernment context). Finally, ongoing research in the area of Semantic-based service interoperation and composition will be presented and corresponding collaboration interests will be expressed.

**I agree with the publication of my data on the Workshop website!**

**PLEASE FILL IN THIS FORM **UNTIL 22 SEPT. 2006** AND RETURN IT TO:**

**Internationales Buero des BMBF**  
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