



The eBZ Initiative: A Knowledgeable Transition towards e-Government

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October 26, 2006

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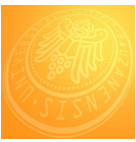


- Introduction
- The eBZ Initiative
- Activities
 - TCGOV 2005
 - eMayor, PEOPLE, etc.
 - Student exchange
- Lessons learned

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Introduction



- eEurope Initiative of the EC
 - **e-Government** is crucial to reach eEurope's goals
- National action plan for e-government 2000-2002
 - Central role of municipalities („**Sportello Unico**“)
- Program 2002 of the General Director of Bolzano
 - e-Government to improve the local administration
- ICT Benchmark (Deloitte and Telecities, 2003)
 - Local government organisations **lag behind** central government organisations wrt. e-services
 - Bottlenecks: **poor IT-skills**, limited budget, **resistance to change**



The eBZ Initiative



- Co-operation between Municipality and Free University of Bozen-Bolzano
- Objectives
 - Promote **e-government** in the local administration through co-ordinated activities
 - Increase **quality** of services and **efficiency** of administration
 - Center of **excellence** in public administration
- eBZ – Digital City (2002-2005)
- eBZ 2015 (2006-2015)



Città di Bolzano
Stadt Bozen



FREIE UNIVERSITÄT BOZEN
LIBERA UNIVERSITÀ DI BOLZANO
FREE UNIVERSITY OF BOZEN · BOLZANO



The eBZ Initiative ...



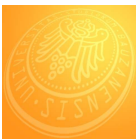
- 5 (thematic) areas
 - Public online services and front-office
 - Internal organization and back-office
 - Security
 - E-Democracy
 - Research and Innovation



The eBZ Initiative ...



- Implementation
 - Base funding by the Municipality
 - eBZ is an umbrella initiative for specific activities
 - Events, research projects, student exchange
 - Acquisition of third-party funding
 - Steering committee
 - General director of the municipality
 - Head of ICT department of the municipality
 - eBZ co-ordinator at the University
 - Tasks of steering committee
 - Planning, activation, and coordination of specific e-government activities
 - Evaluation



TCGOV 2005



 <p>TCGOV 2005 Bozen-Bolzano</p>	<h2 style="text-align: center;">TED Conference on e-Government</h2> <h3 style="text-align: center;">Electronic democracy: The challenge ahead</h3> <p style="text-align: center;">March 2–4, 2005 ♦ Bozen-Bolzano, Italy</p> <div style="text-align: right;"> <p>Jointly organized by:</p>  </div>
<p>Introduction</p> <p>Photo gallery</p> <p>Call for Papers</p> <p>Paper Submission Author Instructions Committees</p> <p>Important Dates</p> <p>Program</p> <p>Full Program Poster Session Keynote Speaker Exhibition Social Events</p> <p>Parallel Events</p> <p>2nd eBZ-Workshop Eventor Clustering</p> <p>Registration</p>	<h2>Aim</h2> <p>The European Science Foundation (ESF) has established the program TOWARDS ELECTRONIC DEMOCRACY (TED) with the overall objectives:</p> <ul style="list-style-type: none"> • To discuss and evaluate how advances of interactive decision-analytic tools might help develop e-Democracy. • To develop e-Government systems which involve their citizens more fully in the public decision making process. <p>As part of this program, a conference on interdisciplinary methods and techniques related to the TED program is being held in Bozen-Bolzano in Spring 2005. The conference aims at addressing a large spectrum of issues that are relevant and have to be investigated for a successful transition from the traditional form of government to a new form known as e-Government. The conference has a strong interdisciplinary character and aims to bring together people from different sectors, including researchers, technology providers, administrative staff, and politicians.</p> <p>The conference is jointly organized by:</p> <ul style="list-style-type: none"> • European Science foundation, TED working group • Free University of Bozen-Bolzano • City of Bozen-Bolzano • IFIP WG 8.5 - Information Systems in Public Administration

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TCGOV 2005 ...



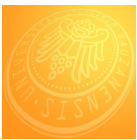
- 92 paper submissions from 26 countries
 - Acceptance rate: 28 full papers (30%), 17 poster papers (20%)
- Conference proceedings: LNAI 3416, Springer
- Poster proceedings: Trauner Verlag, Linz, Austria
- Main topics
 - Improving citizen participation and policy making
 - Decision support systems
 - Security aspects for e-government service
 - Government application integration
- ≈ 100 participants from more than 20 countries



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TCGOV 2005 ...



- Keynote presentations

- E-Democracy Calls for E-Governance

Prof. Roland Traunmüller

University of Linz, Austria



- E-Government: Privacy Policies and Mechanisms

Prof. David Basin

ETH Zurich and Zurich Information Security Center, Switzerland



- eDemocracy: Challenges and Actions in the EU

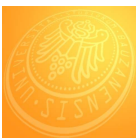
Dr. Athanassios Chrissafis

European Commission, DG Information Society, Unit E-Government

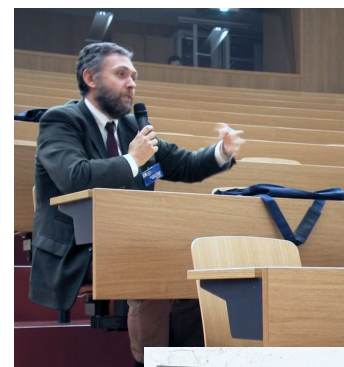
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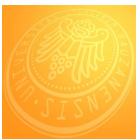
TCGOV 2005 ...



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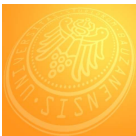
TCGOV 2005 ...



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TCGOV 2005 ...



- Extended versions of some papers are published in a book



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Secure E-Government Web Services

Andreas Mitrakas , Pim Hengeveld , Despina Polemi , Johann Gamper; CyberTrust, Belgium

Imprint: Idea Group Publishing

Copyright: 2007

Number of pages: 340 pages

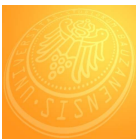
Hard Cover (ISBN: 1-59904-138-3)
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List Price: US \$99.95
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Soft Cover
Our Price: **US \$77.36**
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eBZ Workshops



- Series of workshops on e-government (2003, 2005, 2006)
 - Bring together research and practice
 - Networking

 <p>eBZWS 2006 Bozen-Bolzano, Italy</p>	<h2>3rd eBZ Workshop on e-Government</h2> <h3>Organizing the City: Time, Space, and Mobility</h3> <p>October 11-12, 2006 ♦ Bozen-Bolzano, Italy</p> <p>Jointly organized by Città di Bolzano Stadt Bozen Free University of Bozen University of Bolzano</p>
<p>Introduction Chairs & Committees Program Registration Conference venue</p>	<h3>Objectives</h3> <p>eBZ Workshop, an event which regularly takes place in Bolzano-Bozen, is centred on the development of digital cities and on research put forward in this field. The workshop is organized by the Municipality of Bolzano-Bozen and the Free University of Bolzano-Bozen within the program eBZ 2015.</p> <p>The main subject of this 3rd eBZ Workshop is town organization: Which I&T-solutions can help to improve the management of time schedules, space uses, and mobility in a city context? During the workshop different problems regarding spatial-temporal events, GIS-systems, moving objects, etc. will be discussed.</p> <p>During the first part of the workshop the strategies and experiences of some local administrations. Examples of best-practice will be described, and technical and organization problems connected with eGovernment will be discussed.</p>

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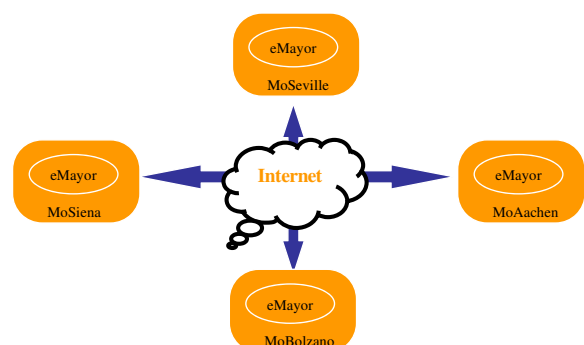
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Project eMayor



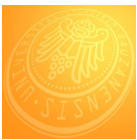
- 6 FP IST STREP project
- 14 European partners
- Funding: 103.700 Euro (Total: 2 Mio. Euro)
- Duration: 26 month, 01/2004 – 02/2006
- Objective
 - **Open, secure, interoperable and affordable** e-government platform for SMGO



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Project eMayor ...



- Smart card technology for secure access and signatures
- End-to-end security
- Based on Open Standards and Open Source
- Adaptation for different smart cards at Bolzano
- <http://www.emayor.org>
- <http://emayor.berlios.de/>



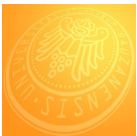
Struts



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Project PEOPLE



- Project PEOPLE
 - Ministry for Innovation and Technology
 - 130.000 Euro (Total: 7 Mio. Euro)
- Duration: 24 month, 01/2004-12/2005
- **Architecture** for most important e-services of Italian municipalities
- <http://www.progettopeople.it>
- Partner: 55 Italian municipalities



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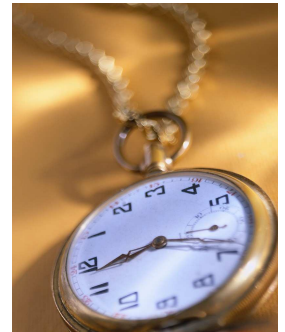
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Project BZ10M



- BZ10M: Bolzano – 10 Minuti da tutto
- Objectives
 - **Synchronization/optimization** of the times of the city
 - Development of an **database system**
 - Storage of complex **spatio-temporal data**
 - Traffic data, bus schedules, opening hours, events, etc.
 - Instrument of the **discovery** and **analysis** of spatio-temporal phenomena
 - for political decision makers, urban planning, ...
 - **Information system**
 - for city users (citizen, tourists, etc.)



Project BZ10M ...



- Some user queries
 - *What is the (total) size of traffic jams in a specific district?*
 - Repetition, duration, ...
 - *How many people are served by a specific service point?*
 - Coverage of area by services, reachable by bus/bicycle/foot, ...
 - *How far can I go in 10 minutes?*
 - Distance to sightseeings, restaurants, ...
 - *How far is the next bus stop?*
 - Determines the quality of a leaving place, ...
 - *What is the fastest/shortest way from A to B?*



Publications



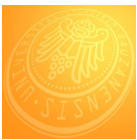
- N. Augsten, M. Böhlen, and J. Gamper. An incrementally maintainable index for approximate lookups in hierarchical data. In Proc. of the VLDB-06.
- M. Böhlen, J. Gamper, and C.S. Jensen. How would you like to aggregate your temporal data? In Proc. of TIME-06 (Invited paper).
- M. Böhlen, J. Gamper, and C.S. Jensen. An algebraic framework for temporal attribute characteristics. Annals of Mathematics and Artificial Intelligence, 2006.
- M. Böhlen, J. Gamper, and C.S. Jensen. Multi-dimensional aggregation for temporal data. In Proc. of EDBT-06.
- N. Augsten, M. Böhlen, and J. Gamper. Approximate Matching of Hierarchical Data Using pq-Grams. In Proc. of VLDB 2005.
- N. Augsten, M. Böhlen, and J. Gamper. Reducing the Integration of Public Administration Databases to Approximate Tree Matching. In Proc. of EGOV-2004, LNCS 3183, pages 102-107, Zaragoza, Spain, Aug. 30 - Sept. 3 2004.
- J. Gamper and N. Augsten. The Role of Web Services in Digital Government. In Proc. of EGOV-2003, LNCS 2739, pages 161-166, Prague, Czech Republic, September 2003. Springer-Verlag.
- J. Gamper and N. Augsten. The "eBZ -- Digital City" Initiative. In Proc. of the IADIS International Conference on e-Society 2003, pages 156-162, Lisbon, Portugal, June 2003. IADIS Press.



Theses



- 3 PhD theses
 - Nikolaus Augsten, Romans Kasperovics, Juozas Gordevicious
- 2 MSc theses
 - Jürgen Dellatorre, Romualdas Juskevicius
- 3 BSc theses
 - Anna De Villa Tondo, Davide Schuen, Roland Innerhofer-Oberperfler



Lessons Learned



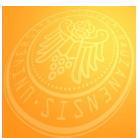
- eBZ triggered a number of activities
 - Increased interest to participate in projects, organize events, ...
 - Establishment of an office for international projects
 - Municipality took the lead to prepare European projects
 - Increased awareness of/interest in new technologies
 - Passive role → active role
- Idee 2005 - Strategic Development Plan of Bolzano
 - Vision of the city in 2015
 - Bolzano, la città di **eccellenza nella PA**
 - EBZ is a concrete action of the plan



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Lessons Learned ...



- Short term vs. **long term** results
 - e-Government is a process of **continuous innovation**
 - Innovative use of IT requires **know how**
 - **Knowledgeable/motivated** collaborators are crucial
 - eBZ approach is based on
 - Research
 - Know how and technology transfer
 - Networking
- ⇒ Ready for the e-government **technology of tomorrow!**

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Acknowledgements



- Municipality of Bozen-Bolzano
 - Walter Costanzi (co-ordinator)
 - Franco Barducci, Renzo Caramaschi, Diego Divenuto, Cristine Pierotti, Danila Sartori, Primo Schönsberg
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 - Johann Gamper (co-ordinator)
 - Nikolaus Augsten, Michael Böhlen, Juozas Gordevicious, Romans Kasperovics, Igor Timko,
 - Students: Jürgen Dellatorre, Anna De Villa Tondo, Elmar Hilber, Romualdas Juskevicius, Martin Meraner, Davide Schuen, Roland Innerhofer-Oberperfler



Thank you for your attention!

<http://www.inf.unibz.it/dis/projects/eBZ>

<http://www.comune.bolzano.it>

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