

**Program**

(ver. of May 24, 2011)

**3<sup>rd</sup> iNTEg-Risk Conference:  
New Technologies & Emerging Risks**

Focus Topic 2011:

**Risk vs. Risk:  
Managing Emerging Risk-Benefit Tradeoffs  
in Complex Systems**

June 7–8, 2011

Haus der Wirtschaft, Willi-Bleicher-Str. 19  
70174 Stuttgart, Germany[www.integrisk.eu-vri.eu](http://www.integrisk.eu-vri.eu)NOTE: The Conference is taking place in conjunction and  
sharing venue with SRA Europe Conference (June 6-8, 2011)**Conference Committee**

- |  |   |
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European Virtual Institute for Integrated Risk Management  
Stuttgart 2011

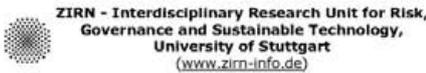
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European Virtual Institute for Integrated Risk Management

**EU-VRI**



**5 Founding members:**



**5 Honorary members:**



**5 main fields of activities in the area of sustainability, emerging risk and integrated risk management**

- Project & services
- Products & tools
- Coordination & networking
- Support to EU harmonization & standardization
- R&D

**Contact**  
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**The 50 Members of EU-VRI in 2011**

- AXA** - Group AXA, France
- ZB** - Consulenza Ambientale, Italy
- BAM** - Bundesanstalt für Materialforschung und -prüfung, Germany
- Blue Ocean** - Internet Content Consulting & Software Solution GmbH, Switzerland
- BMLP** - Beijing Municipal Institute of Labor Protection, China
- BZF** - Bay Zoltán Foundation, Hungary
- CEA** - Commissariat à l'Energie Atomique, France
- CEN** - European committee for standardization, Belgium
- CIOP** - Central Institute for Labour Protection, Poland
- CNR-IRC** - Istituto di Ricerca sulla Combustione, Italy
- CONPRICI** - Consorzio Interuniversitario per la Prevenzione e la Protezione dai Rischi Chimico-Industriali, Italy
- CrisisTax Consult**, The Netherlands
- D'Appolonia S.p.A.**, Italy
- Demokritos** - National Center for Scientific Research, Greece
- DIN** - Deutsches Institut fuer Normung e.v., Germany
- DNV** - Det Norske Veritas AS, Norway
- DTU** - Danish Technical University (Risoe National Laboratory), Denmark
- EDF** - Electricité de France, France
- EKON** Modeling Software Systems Ltd, Israel
- ELITE** Foundation, Germany
- Erasmus University** Rotterdam, Netherlands
- Expert System SpA**, Italy
- Fraunhofer**-Institut für Optronik, Systemtechnik und Bildauswertung, Germany
- IOSB**
- INCOPM** - Institute on Occupational Safety, Romania
- INERIS** - Institut National de l'Environnement Industriel et des Risques, France
- STW** - Steinbeis GmbH & Co. KG für Technologietransfer, Germany
- IRGC** - International Risk Governance Council, Switzerland
- ISQ** - Instituto de Soldadura e Qualidade, Portugal
- IVF** - Industrial Research and Development Corporation, Sweden
- JRC/EC** - Commission of the European Communities, Joint Research Center, Belgium
- JSI** - Jozef Stefan Institute, Slovenia
- KMM-VIN** - European Virtual Institute on Knowledge-based Multifunctional Materials, Belgium
- LABEIN** - TECNALIA, Spain
- MIT** - Management Intelligence Technologies GmbH, Germany
- NIS** - Petroleum Industry of Serbia, Serbia
- OECD** - Organisation for Economic Co-operation and Development, France
- Otto-von-Guericke-Universität** Magdeburg, Germany
- PROMIS@Service** Sarl, Luxembourg
- SINTEF** - Stiftelsen SINTEF, Norway
- SP** - Technical Research Institute of Sweden, Sweden
- Swiss Re** - Swiss Reinsurance Company, Switzerland
- SWISSI** - Sicherheitsinstitut, Switzerland
- Swissi España** - Instituto Suizo para la Promoción de la Seguridad, Spain
- TECNALIA** - Fundación Tecnalia Research & Innovation, Spain
- Technologica** - Technologica Group c.v., Belgium
- TÜV SÜD** Industrie Service GmbH, Germany
- URL** - Universidad Ramon Llull Fundación Privada, Spain
- VSB** - Technical University of Ostrava, Czech Republic
- VTT** - Technical Research Centre of Finland, Finland
- ZIRN** - Interdisciplinary Research Unit for Risk, Governance and Sustainable Technology, University of Stuttgart, Germany

With great confidence and pleasure, we extend herewith the invitation to attend the

**3<sup>rd</sup> iNTeg-Risk Conference:**  
**New Technologies & Emerging Risks**  
with this year's annual topic  
"Risk vs. Risk – Managing Emerging Risk-Benefit Tradeoffs  
in Complex Systems"  
**Stuttgart June 7-8, 2011**

As in the preceding years, the main purpose of the Conference is to provide a forum at which partners involved in the EU "flagship project" iNTeg-Risk ("Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related, Risks", [www.integrisk.eu-vri.eu](http://www.integrisk.eu-vri.eu)), will openly and thoroughly discuss the results obtained in the project, both among themselves and with all other interested parties. We expect 92 papers/presentations which is a respectable number for a single project conference, even for a project as large as iNTeg-Risk. The Conference is a great opportunity both for project partners to communicate their results to the "outside world" and for those, not participating in the project, to learn about the project results.

This year, the Conference will be focused on to the issues dealing with risk-risk tradeoffs, multiple and interconnected emerging risks of New Technologies and presentation of the current iNTeg-Risk results: iNTeg-Risk early warning system RiskEars, emerging risk mapping (RiskAtlas of iNTeg-Risk), emerging risk management framework (iNTeg-Risk ERMF), emerging risk communication, methods and tools for emerging risk analysis. The Conference will be accompanied by 2 specialized workshops and will take place in conjunction with the SRA Europe Annual Meeting conference. This will be an additional opportunity for the entire risk community to share sessions on risk governance, communication, analysis and management and to enjoy the pleasant ambience of Haus der Wirtschaft in Stuttgart.

Last but not least, the Conference will take place in the 5<sup>th</sup> year of existence of EU-VRI what will be appropriately noted.

We are looking forward to welcoming you in Stuttgart.



*(A. Jovanovic, iNTeg-Risk Project  
Coordinator, CEO EU-VRI)*



*(O. Renn, President EU-VRI)*



**Main Activities:**

- ❑ business-oriented services for industry and other clients
- ❑ technology transfer
- ❑ research and development projects
- ❑ professional education and specialization including the post-graduate academic studies (Master of Risk Engineering & Management)

**Steinbeis Advanced Risk Technologies (group)**

[www.risk-technologies.com](http://www.risk-technologies.com), [www.risk-technologies.eu](http://www.risk-technologies.eu)

Education	Technology Transfer	R&D and Services
<p><b>STI 889</b> Steinbeis Transfer Institute Advanced Risk Technologies</p> <p>part of: Steinbeis University, Berlin, Steinbeis Hochschule Berlin GmbH (SHB) HRB 69231</p> <p><a href="http://www.steinbeis-hochschule.de">www.steinbeis-hochschule.de</a></p>	<p><b>STZ 592</b> Steinbeis Transfer Center Advanced Risk Technologies (R-Tech)</p> <p>part of: Steinbeis GmbH &amp; Co. KG für Technologietransfer (StC) HRA 12480</p> <p><a href="http://www.stw.de">www.stw.de</a></p>	<p><b>STU 1190</b></p> <p><b>R-Tech*</b> Steinbeis Advanced Risk Technologies GmbH HRB 725454</p> <p><a href="http://www.risk-technologies.com">www.risk-technologies.com</a></p>
<p><b>EU-VRI</b> (Cost center 1167)</p> <p><b>EU-VRI*</b> European Virtual Institute for Integrated Risk Management (European Economic Interest Grouping - EEIG) HRA 720579</p> <p><a href="http://www.eu-vri.eu">www.eu-vri.eu</a></p> <p>--- BZF --- INERIS --- Steinbeis --- Technologies --- University of Stuttgart</p>		

\* The organization qualifies as an SME (small/medium enterprise) according to the EU-criteria

**Swiss Re Clients & Partners (some of...)**

**Application Areas:**

- ❑ petro chemical and process plants
- ❑ power plants
- ❑ material technologies, especially advanced/new material technologies
- ❑ new emerging technologies (e.g. CO<sub>2</sub>, H<sub>2</sub>, nanotechnologies...)

**DAIMLER EADS**

**Types of Risks:**

- ❑ risks in/of innovation (e.g. risks of unexpected side-effects)
- ❑ risk of non-performance or performance below expectations (e.g. risks of system or component failures)
- ❑ risk of adverse/unexpected effects and impacts (e.g. on public health and/or environment)
- ❑ risks over the life-cycle of products and technologies (e.g. unexpected problems in decommissioning or recycling phase)
- ❑ project risks, especially in R&D and new technologies related/oriented projects



**Clients & Partners (some of...)**

**Projects:**

- ❑ industrial, national, EU and international
- ❑ integrated management of risk related to new technologies (FP7 project iNTeg-Risk)
- ❑ risks of impacts and/or non-performance of nanotechnologies, new bio-fuels in aerospace industry, slurry coating technologies, etc. (FP7 projects MUST, Partcoat, MATRANS, M-RECT, Alfa-Bird, Fire-Resist...)
- ❑ governance and regulatory aspects of risks in industrial plants (e.g. plants falling under the EU Seveso directive)

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[www.risk-technologies.com](http://www.risk-technologies.com)

## Program

### **PRE-CONFERENCE WORKSHOPS** (details on workshops will follow in due course)

**June 6, 2011**

- W 1. iNTeg-Risk workshop on Key Performance Indicators proposed and/or applied in iNTeg-Risk ERRAs: Elaboration, specification and further usage
- W 2. iNTeg-Risk workshop on Emerging risks: contributing factors

**NOTE:**

The pre-conference workshops are intended for groups of 15-80 people with presentations from different authors and collegial discussions. The workshop coordinators may, but need not necessarily be the chairpersons and moderators.

### **MAIN CONFERENCE**

**June 7-8, 2011**

We expect a strong presence of high-level representatives from government, regulatory agencies and standardization brokers, EU directorates, industry and other organizations. The conference will take place in conjunction with SRA Europe 20th Annual Meeting providing the delegates with an opportunity to share their experiences and knowledge with participants attending the SRA Europe meeting. The two conferences will have joint plenary meetings on Tuesday and Wednesday allowing the participants to attend some of the SRA sessions and vice-versa.

### **ACCOMPANYING EVENTS (iNTeg-Risk project internal)**

**June 6-10, 2011**

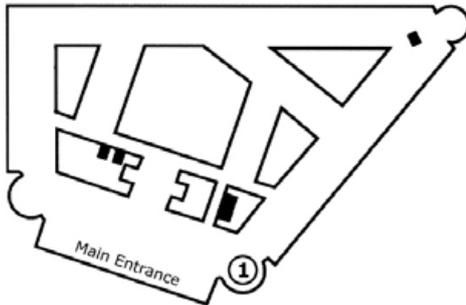
- **Project meetings** for single project activities (Workpackage and Task meetings)  
June 6 & 10, 2011
- **International Advisory Board (IAB) Meeting**  
June 8, 2011, 17:00 – 19:00
- **Project General Assembly (GA)**  
June 9, 2011, 9:00 – 11:00
- **Project Executive Board (EB) Meeting**  
June 9, 2011, 11:30 – 13:30
- **ERRA-Integration Delphi-Workshop**  
June 9, 2011, 15:00 – 19:00
- **Preparation meeting for Exploitation Strategy Seminar for iNTeg-Risk project**  
June 9, 2011, 15:00 – 18:00

### **SPONSORS/SUPPORT**

- **Stiftung Umwelt- und Schadensvorsorge** (Foundation for Environmental and Damage Prevention, [www.stiftung-schadenvorsorge.de](http://www.stiftung-schadenvorsorge.de))
  - **EU, DG RTD**, through iNTeg-Risk project
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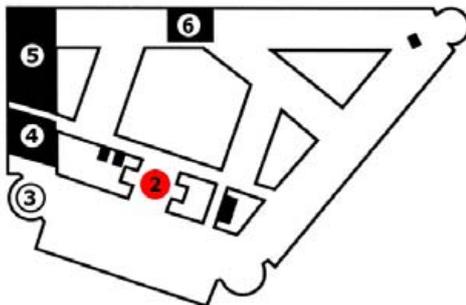
## Conference Rooms

### Ground Floor



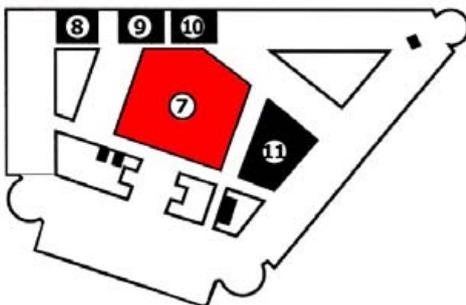
- (1) "Konferenzraum Tübingen"

### 1st Floor



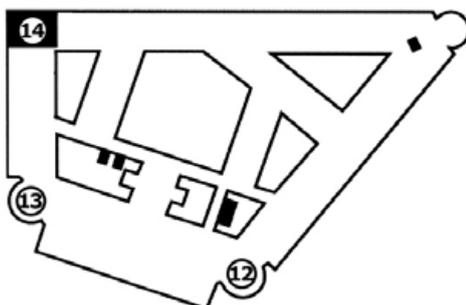
- (2) Registration, Information  
(3) "Turm A"  
(4) "Foyer Bertha-Benz-Saal"  
(5) "Bertha-Benz-Saal"  
(6) "Konferenzraum Mannheim"

### 2nd Floor



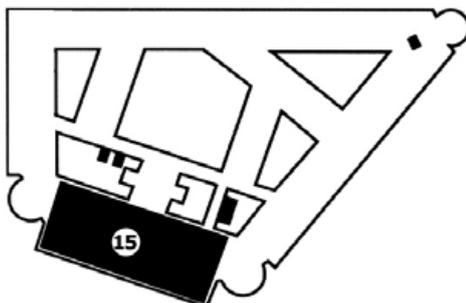
- (7) "König-Karl-Halle"  
(8) "Konferenzraum Reutlingen"  
(9) "Konferenzraum Ulm"  
(10) "Konferenzraum Heilbronn"  
(11) "Foyer König-Karl-Halle"

### 3rd Floor



- (12) "Studio B"  
(13) "Studio A"  
(14) "Konferenzraum Freiburg"

### 4th Floor



- (15) "Mia-Seeger-Saal"

# 3rd iNTeg-Risk Conference 2011 - Overview

Pre-Conference Workshops | Main Conference "Risk vs. Risk: Managing Emerging Risk-Benefit Tradeoffs in Complex Systems" | iNTeg-Risk project meetings

	Monday June 6, 2011	Tuesday June 7, 2011	Wednesday June 8, 2011	Thursday June 9, 2011	Friday June 10, 2011
	<b>Workshops</b>	<b>Main Conference</b>	<b>Main Conference</b>	<b>Project meetings</b>	<b>Project meetings</b>
-09:00					
-10:00	<b>W1</b> iNTeg-Risk workshop on Key Performance Indicators proposed and/or applied in iNTeg-Risk ERRAs: Elaboration, specification and further usage 9:00 – 12:30	<b>P0</b> Plenary Session: Welcome & Opening 9:00 – 10:30	<b>JP01</b> Joint Plenary Session: Global Risks 9:00 – 10:30	<b>iNTeg-Risk Project General Assembly</b> (for all iNTeg-Risk project partners) 9:00 – 11:00	
-11:00		<i>Coffee Break</i>	<i>Coffee Break</i>		
-12:00		<b>P1</b> Plenary Session: Risk-Risk Tradeoffs 11:00 – 12:30	<b>S3</b> Parallel Sessions: Management of Emerging Risks 11:00 – 12:30	<i>Coffee Break</i>	
-13:00	<i>Lunch Break</i>	<i>Lunch Break</i>	<i>Lunch Break</i>	<b>iNTeg-Risk Project Executive Board Meeting</b> (for EB members) 11:30 – 13:30	
-14:00		<b>P2</b> Plenary Session: Global risk concepts 13:30 – 15:00	<b>S4</b> Parallel Sessions: iNTeg-Risk vs. other projects 13:30 – 15:00	<i>Lunch Break</i>	
-15:00	<b>W2</b> iNTeg-Risk Workshop on Emerging risks: contributing factors 13:30 – 18:00	<i>Coffee Break</i>	<i>Coffee Break</i>		
-16:00		<b>S1</b> Parallel Sessions: iNTeg-Risk Applications 15:30 – 17:00	<b>P3</b> Plenary Session: Precautionary vs. Evidence-Based 15:30 – 17:00	<b>iNTeg-Risk ERRAs-Integration Delphi-Workshop</b> (for ERRAs Leaders, SP2 and SP3 leaders, other partners welcome) 15:00 – 19:00	
-17:00		<b>S2</b> Parallel Sessions: Methods & Tools 17:00 – 18:30	<b>iNTeg-Risk Project International Advisory Board (IAB) Meeting</b> 17:00 – 19:00	<b>iNTeg-Risk Preparation meeting for ESS (Exploitation Strategy Seminar EU)</b> (for all partners involved in CWA development, other partners welcome) 15:00 – 18:00	
-18:00					
-19:00		<i>Conference Dinner (joint)</i> 18:30 – 21:00	<i>IAB Dinner (for IAB and EB Members)</i> 19:30 – 21:00		
-20:00					
-21:00					

## Pre-Conference Workshops

### **iNTeg-Risk Workshop on Key Performance Indicators proposed and/or applied in iNTeg-Risk ERRAs: Elaboration, specification and further usage**

**June 6, 2011  
9:00 – 12:30**

#### **Stuttgart**

Haus der Wirtschaft, Room Bertha-Benz-Saal  
Willi-Bleicher-Strasse 19, 70174 Stuttgart

#### **About the workshop**

The workshop will focus on Key Performance Indicators (KPIs) provided as part of the project result coming from 17 case studies - so called Emerging Risk Representative Industrial Applications (ERRAs) - that were carried out in the first two years of iNTeg-Risk project.

More details available under: <http://www.eu-vri.eu/fwlink/?LinkID=318>  
For registration navigate to: <http://www.eu-vri.eu/fwlink/?LinkID=317>

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### **iNTeg-Risk Workshop on Emerging risks: contributing factors**

**June 6, 2011  
13:30 – 18:30**

#### **Stuttgart**

Haus der Wirtschaft, Room Bertha-Benz-Saal  
Willi-Bleicher-Strasse 19, 70174 Stuttgart

#### **About the workshop**

This workshop will begin by describing the twelve factors and the importance of understanding them from a systems perspective. Such a perspective is especially relevant when considering complex systems, and it is from complex systems that emerging risks often arise. Examples will be given to help put the factors into context and demonstrate their impact on some past 'emerging' risks, as well as their relevance to the iNTeg-Risk project. Further discussion will centre on how the concept of contributing factors can be turned into concrete guidance for overcoming obstacles to emerging risk anticipation and response and what practitioners can learn from these IRGC tools.

More details available under: <http://www.eu-vri.eu/fwlink/?LinkID=319>  
For registration navigate to: <http://www.eu-vri.eu/fwlink/?LinkID=316>

## Agenda

### Main Conference

June 7, 2011

**08:30 – 09:00** Registration and getting together (Coffee and refreshments)

**P 0. iNTeg-Risk Plenary Session: Opening of 3<sup>rd</sup> iNTeg-Risk Conference**  
(König-Karl-Halle; Chair: W. Gerhardt, A. Jovanovic, O. Renn)

**09:00 – 10:30**

*Welcome and organizational introductory remarks, A. Jovanovic*  
*"5 years EU-VRI – Awarding the EU-VRI Medals of Merit", O. Renn*  
*An initiative to reward the outstanding contributions of individuals to activities and organization of EU-VRI has been started by EU-VRI Founding Members; 3 medals will be awarded honoring exceptional excellence, commitment and dedication.*

**Welcome EU** - A. Cipollaro, Project Officer European Commission – Directorate General RTD, Directorate G (Industrial Technologies - New Generation of Products)

P 0.1. **Future Global Shocks: can we cope with the challenges?** – P.-A. Schieb, OECD Organisation For Economic Co-Operation And Development, France

P 0.2. **From Emerging Risk Perception to Action** – R. Schneider, Swiss Reinsurance Company, Zurich, Switzerland

**10:30 – 11:00** Coffee break

**P 1. iNTeg-Risk Plenary Session 1: Risk-Risk Tradeoffs**  
(König-Karl-Halle; Chair: P. A. Schieb, R. Schneider, H. Trasch)

**11:00 – 12:30**

P 1.1. **Welcome Steinbeis:** Safe Innovation as a guarantee for long-term sustainability - H. Trasch, President Steinbeis, Germany

P 1.2. **Risk-Risk Tradeoffs** - Wiener, Jonathan, Duke University, Schools of Law, Environment, and Public Policy, United States

P 1.3. **Dealing With Tradeoffs Between Target and Ancillary Risks of New Technologies in iNTeg-Risk Project** – A. Jovanovic, EU-VRI, Germany

**12:30 – 13:30** Lunch (buffet)

**P 2. iNTeg-Risk Plenary Session 2: Global risk Concepts on the Regional, Local and Company levels**  
(König-Karl-Halle; Chair: U. Haug, O. Salvi, J. Wiener)

**13:30 – 15:00**

P 2.1. **Safety Culture Development at BASF** – W. Gerhardt, BASF, Germany

P 2.2. **Use of the Environmental Information System Baden-Württemberg for Risk Assessment Tasks – Opportunities and Constraints** – R. Ebel, LUBW, ITZ, Germany; R. Mayer-Föll, Ministry of the Environment, Nature Conservation and Transport, UVM, Germany; Th. Usländer, Fraunhofer IOSB, Information Management, Germany

P 2.3. **iNTeg-Risk Project: An Overview of the Results of 17 Emerging Risk Representative Applications** – B. Debray, INERIS, France; M. Zarea, GDF Suez, France; K. Øien, SINTEF, Norway; R. Rota, Politecnico di Milano - CMIC Dpt, Italy; A. Jovanovic, EU-VRI, Germany

**15:00 – 15:30** Coffee break

**S 1. iNTeg-Risk Parallel Sessions – Emerging Risk Representative Applications**

**15:30 – 17:00**

**Session 1.1. Emerging Risks in New Technologies**  
(König-Karl-Halle; Chair: B. Debray, M. Zarea)

S 1.1.1. Overview of ERRA A1 on Carbon Capture and Storage – J. Wilday, J. Buxton, Health and Safety Laboratory, United Kingdom; R. Farret, INERIS, France; L. Breedveld, 2B, Italy; N. Paltrinieri, Health and Safety Laboratory, United Kingdom

S 1.1.2. Addressing Emerging Risks related to LNG regasification Terminals – G. Uguccione, S. Benucci, D'Appolonia SpA, Italy; R. Rota, V. Busini, M. Derudi, E. Marzo, Politecnico di Milano, Italy; A. Tugnoli, V. Cozzani, Università di Bologna, Italy; O. Aneziris, NCSR Demokritos, Greece; I. Vela, BAM - Bundesanstalt für Materialforschung und –prüfung, Germany

S 1.1.3. Evacuation of a Complex Underground Facility – M. Wietek, VSH, Switzerland; J. Hugosson, SP, Sweden; F. Leismann, STUVA, Germany; F. Fouillen, INERIS, France

**Papers presentation 25' each, 15' Discussion**

15:30 – 17:00	<p><b>Session 1.2. Emerging Risks in New Material and Products</b> (<u>Studio A</u>: Chair: U. Krause, R. Zöllner)</p> <p>S 1.2.1. Dust Explosions as a Destructive Threat to Solids Handling Industries: Case Studies of Hazards and Means and Measures to Avoid Injuries and Losses – S. Penno, Index e.V., Germany</p> <p>S 1.2.2. A Generic Approach for Hazard Prevention in Large Storages of Combustible Wastes – <u>J. Vela</u>, U. Krause, BAM, Germany</p> <p>S 1.2.3. Method to Management of the Emerging Risks Connected with the Introduction Of Advanced Engineering Materials – <u>J. Trebicki</u>, K. Dolinski, IPPT, Poland</p> <p>S 1.2.4. Easy-to-use Nano Control Banding Tool for Risks Related to Working with Nanomaterials: Stoffenmanager Nano – <u>A. Pronk</u>, S. Spaan, B. Duuren-Stuurman, E. Tielemans, W. Fransman, TNO, Netherlands; H. Heussen, K. Verbist, Expert Centre for Chemical Risk Management, Arbo Unie, Netherlands</p> <p style="text-align: center;"><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 1.3. ERs in New Production Technologies and Production Networks</b> (<u>Heilbronn</u>: Chair: H. B. Andersen, L. van Wijk)</p> <p>S 1.3.1. Safety challenges from subcontracting - Review – <u>J. Thommesen</u>; H. B. Andersen, DTU, Management Engineering, Denmark</p> <p>S 1.3.2. On-line risk monitoring and assessment methodology and techniques for emerging risk in petrochemical plants – <u>G. Lenkey</u>, P. Rózsahegyí, E. Bodnár, R. Somogyvári, Bay Zoltan Foundation, Hungary</p> <p>S 1.3.3. Risk issues and good practices related to subcontracting - Interview study - <u>J. Thommesen</u>; H. B. Andersen, DTU, Management Engineering, Denmark</p> <p>S 1.3.4. How Can Emerging Risk Areas Learn from a Consideration of Past "Atypical Events"? – <u>J. Buston</u>, G. Atkinson, N. Paltrinieri, Health and Safety Laboratory, United Kingdom; N. Dechy, INERIS, France; E. Salzano, IRC-CNR, Italy; L. van Wijk, JRC Ispra, Italy</p> <p style="text-align: center;"><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 1.4. Emerging Risks and Related Policies</b> (<u>Tübingen</u>: Chair: J. Larrañeta, E. Salzano)</p> <p>S 1.4.1. The ERRA D2 Tool: A New Approach to Support Emerging Risks Management in Energy Sector Companies – <u>J. López de Ipiña</u>, I. Padillo, J. Rubio, TECNALIA, Spain; A. Moreno Ucelay, J. L. Lirón, Iberdrola SA, Occupational Safety Area, Spain; J. Goitia, L. Azpiazu, Iberdrola Distribución SAU, Spain</p> <p>S 1.4.2. Human Risk Assessment of Single Exposure in Chemical Incidents - <u>P. Bos</u>, K. Mahieu, RIVM, Netherlands; M. Ruijten, Crisistox Consult, Netherlands; U. Gundert-Remy, Bundesinstitut für Risikobewertung, Germany; S. Bull, Health Protection Agency, United Kingdom; E. Nielsen, Danish Technical University, Denmark; S. Tissot, J.-M. Vincent, INERIS, France; M. Wood, Joint Research Center, Italy; G. Cassel, P. Leffler, Swedish Defence Research Agency, Sweden; D. Russell, Health Protection Agency, United Kingdom; A. Zitting, T. Santonen, M. Heinälä, Finnish Institute of Occupational Health, Helsinki, Finland</p> <p>S 1.4.3. A New Set of KPIs and a New Methodology for NATECH (Natural-Technological) Risk Assessment – E. Krausmann, JRC, Italy; E. Salzano, Istituto di Ricerche sulla Combustione, CNR, Italy; V. Cozzani, R. Rota, CONPRICI, Italy; O. Aneziris, DEMOKRITOS, Greece; A. Vallee, B. Affeltranger, <u>M. Reimeringer</u>, Ch. Mazri, INERIS, France</p> <p>S 1.4.4. Integrated, multilingual Management for Operations and Maintenance: 2 ways how Europe can support SMEs to recognise and manage existing and emerging risks - C. Berbenni-Rehm, PROMIS@Service Sarl, Luxembourg; R. Gowland, United Kingdom</p> <p style="text-align: center;"><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 1.5. GRUNDTVIG</b> (<u>Bertha-Benz-Saal</u>: Chair: O. Renn, University of Stuttgart, ZIRN)</p> <p>S 1.5.1. "Save Your Energies" - Designing Energy Concepts for Reducing Risks of Climate Change - Session for the lifelong learning partnership GRUNDTVIG –</p> <p style="text-align: center;"><b>Moderator: O. Renn</b>, University of Stuttgart, Germany, <b>Panelists:</b></p> <ul style="list-style-type: none"> <li>• Roger Strand (University of Bergen, Norway)</li> <li>• Gisela Wachinger (Dialogik, Germany)</li> <li>• Päivi Tirkkonen (University of Jyväskylä, Finland)</li> <li>• William Leiss (University of Ottawa, USA)</li> </ul>

## S 2. iNTeg-Risk Parallel Sessions 2 – Dealing with Emerging Risk: Methods and Tools

17:00 – 18:30	<p><b>Session 2.1. Framework and Paradigm for Emerging Risk Management</b> (<u>Bertha-Benz-Saal</u>: Chair: V. Cozzani, C. Duval)</p> <p>S 2.1.1. Development of An Integrated Risk Analysis Method in Order to Treat the Different Sides of the ERMF – <u>C. Duval</u>, Y. Dien, EDF-R&amp;D, France</p> <p>S 2.1.2. An Assessment Framework for Risk Communication Challenges – <u>K. Øien</u>, SINTEF, Safety Research, Norway</p> <p>S 2.1.3. Obstacles to Emerging Risk Anticipation – <u>W. North</u>, Stanford University, USA; M. V. Florin, IRGC, Switzerland; other authors, Steering Committee of the IRGC project on Emerging Risks, Switzerland</p> <p>S 2.1.4. iNTeg-Risk Framework for Emerging Risks Management - <u>A. Jovanovic</u>, EU-VRI, Germany; O. Renn, ZIRN Uni Stuttgart, Germany; R. Schneider, Swiss Re, Switzerland; D. Balos, R-Tech, Germany</p> <p style="text-align: center;"><b>Papers presentation 20' each, 10' Discussion</b></p>

17:00 – 18:30	<p><b>Session 2.2. Risk-Risk Tradeoffs &amp; Early Warning Signals</b> (Tübingen; Chair: A. Kishimoto, E. Rosa)</p> <p>S 2.2.1. Resolving Risk-Risk Dilemmas by Reframing Objectives and Options: Lessons from 'Smart-Wear' – T. Assmuth, Finnish Environment Institute, Environmental Policy Centre, Finland</p> <p>S 2.2.2. Bridging Silos: Risk Governance and Cross-Domain Risks – E. Rosa, Washington State University, United States</p> <p>S 2.2.3. Risk Tradeoff Analysis of Substance Substitution: Scope, Framework and Metrics – H. Kajihara, <a href="#">A. Kishimoto</a>, National Institute of Advanced Industrial Science and Technology, Research Institute of Science for Safety and Sustainability, Japan</p> <p>S 2.2.4. The Atypical Incident Scenarios: Longstanding Issues Commonly Disregarded as Improbable and New Issues Due To Emerging Technologies – <a href="#">N. Paltrinieri</a>, V. Cozzani, Università di Bologna, Dipartimento di Ingegneria Chimica, Mineraria e delle Tecnologie Ambientali, Italy; E. Salzano, Consiglio Nazionale delle Ricerche, Istituto di Ricerche sulla Combustione, Italy; N. Dechy, IRSN – Institut de Radioprotection et de Sûreté Nucléaire, France; J. Buston, J. Wilday, Health and Safety Laboratory (HSL), Fire &amp; Process Safety Unit, United Kingdom</p> <p><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 2.3. Key Performance Indicators and Risk Perception</b> (Heilbronn; Chair: K. Grieger, H. Pacaiova)</p> <p>S 2.3.1. A Communicative Approach to Understanding the Association Between Procedural Performance and the Legitimacy Of Outcomes – Th. Webler, SERI, United States</p> <p>S 2.3.2. Advantages and Disadvantages of KPI in Risk Management Process – <a href="#">H. Pacaiova</a>, A. Nagyova, J. Namesanska, Technical University of Kosice, Department of Safety and Quality Production, Slovakia</p> <p>S 2.3.3. Emerging Nanotechnologies and Risk Perception – <a href="#">K. Grieger</a>, H. B. Andersen, Technical University of Denmark, Denmark</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>
	<p><b>Session 2.4. Methodologies for Dealing with Emerging Risks I</b> (Freiburg; Chair: Y. Malmén, M. Ström)</p> <p>S 2.4.1. Qualitative vs. Quantitative Data Quality Objectives for Complex Multi-pathway Risk Assessments — What Should Reasonable People Who are Not Statisticians Do? – <a href="#">K. Butler</a>, Ch. Lambert, R. Countway, McDaniel Lambert, Inc., United States</p> <p>S 2.4.2. On the Way to a UML Model Of Handling Of Risks Related To Emerging Technologies – <a href="#">M. Ström</a>, Swerea IVF AB, Operations Development, Sweden; D. Andersson, Swerea IVF AB, Electronics Production, Sweden</p> <p>S 2.4.3. 3DHaz — Emerging Hazard Analysis Using 3D Plant Models - <a href="#">Y. Malmén</a>, K. Virolainen, VTT Technical Research Centre of Finland, Finland; T. Keskitalo, Pöyry Finland Oy, Finland</p> <p>S 2.4.4. Managing Emerging Risk Trade-Offs along the Life-Cycle: the Case of CCS – <a href="#">L. Breedveld</a>, 2B, Italy; J. Wilday, HSL, United Kingdom; M. Cordella, M. Löscher, A. Jovanovic, EU-VRI, Germany</p> <p><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 2.5. Special Issues in Management of Emerging Risks</b> (Ulm; Chair: S. Kovacs, G. Lenkey)</p> <p>S 2.5.1. Smart Grids Risk - on a Non-Classic Information Measure – I. Purica, FCCEA, Romania</p> <p>S 2.5.2. Risk, the End is Nigh? – A. G. Hessami, Vega Systems &amp; University of East London, System of Systems Engineering, United Kingdom</p> <p>S 2.5.3. Managing Emerging Risks New Bottles for a New Wine... and for Old Wine as Well! – <a href="#">Y. Dien</a>, C. Duval, EDF - R&amp;D, Management of Industrial Risks, France</p> <p>S 2.5.4. Evaluate Possible Technologies for e-Learning / Web-Based Courses for the iNTEg-Risk European Master on Emerging Risks – P. Lerena, Swiss Safety Institute, Switzerland</p> <p><b>Papers presentation 20' each, 15' Discussion</b></p>
<p><b>Posters first conference day (König-Karl-Halle; Coordinator: M. Löscher; the time table of presentations will be indicated at each poster)</b></p>	
09:00 – 18:00	<p>The following posters will be presented throughout the day in König-Karl Halle</p> <p>PO 1. Rapid Fingerprinting Technique of Oil Spill Based on the Concentration-Synchronous-Matrix-Fluorescence Spectroscopy and Chemometrics – Ch. Wang, W. Ren, M. Tang, J. Zhang, Beijing Normal University, China</p> <p>PO 2. A Comparative Study of the Main Existing Methods and Software Tools for Analysis and Modeling of Domino Effects – F. Kadri, Université de technologie de Troyes, Institut Charles Delaunay, UMR CNRS, France</p> <p>PO 3. Integrated Technologies For Improving Atmospheric Risk and Impact Assessment Models And Studies – N. Ajtai, Z. Török, H. Stefánie, A. Ozunu, Babes-Bolyai University, Environmental Sciences and Engineering, Romania</p>
<p><b>18:30 – 21:00 Conference Dinner (joint dinner with SRA Europe Conference)</b></p>	

**June 8, 2011**

**JP 1. iNTEg-Risk/SRA Europe Joint Plenary Session**

09:00 – 10:30	<p><b>Global Risks: A Broader Perspective</b> (<u>König-Karl-Halle</u>; Chair: W. Leiss, J. López de Ipiña, K. Øien)</p> <p><i>"Best Graduate Student / Young Scientist Award", A. Jovanovic</i> <i>Two special prizes, 1,000 € in total, financed by Stiftung Umwelt- und Schadensvorsorge (Foundation for Environmental and Damage Prevention, <a href="http://www.stiftung-schadenvorsorge.de">www.stiftung-schadenvorsorge.de</a>) will be awarded to 2 outstanding iNTEg-Risk Conference papers or posters, authored by graduate students or young scientists.</i></p>
	<p>JP 1.1. <b>Welcome Baden-Württemberg International:</b> Provider of New Technologies and related services for economic development and international cooperation – H. Neuland, Baden-Württemberg International, Germany</p>
	<p>JP 1.2. <b>Global Systemic Risks with Catastrophic Potential</b> – W. Leiss, University of Ottawa, McLaughlin Centre for Risk Assessment, Canada</p>
	<p>JP 1.3. <b>To Count or to Judge?</b> – E. Rosa, Washington State University, United States</p>
	<p>JP 1.4. <b>Risk governance deficits in the multiple risk situation: the Great East Japan Earthquake, Tsunami, and Fukushima nuclear accident</b> – A. Kishimoto, RISS, AIST, Japan</p>

10:30 – 11:00	Coffee break
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**S 3. iNTEg-Risk Session 3 (parallel) – Management of Emerging Risks**

11:00 – 12:30	<p><b>Session 3.1. Early Warnings and Risk Mitigation (Tools)</b> (<u>König-Karl-Halle</u>; Chair: A. Jovanovic, L. van Wijk)</p> <p>S 3.1.1. Infrastructure for Spatial Information in Europe (INSPIRE) – Towards Interoperability of Data Sets for Risk Prevention and Management – <u>M. Tuchyna</u>, A. López Alós, P. Smits, R. Tomas, Institute for Environment and Sustainability, JRC, EC, Italy</p> <p>S 3.1.2. The RiskClock: A way to improve monitoring of emerging risks related to New Technologies – <u>A. Jovanovic</u>, P. Klimek, D. Balos, EU-VRi, Germany; R. Schneider, Swiss Re, Switzerland</p> <p>S 3.1.3. Software Interoperability in Risk Analysis: A Possible Way Forward? – <u>L. van Wijk</u>, S. Contini, L. Fabbri, V. Matuzas, European Commission, Joint Research Centre, Italy; M. Binda, THS Informatica, Italy</p> <p>S 3.1.4. An Agent-Based Model Tool for Analyzing Perception of Emerging Risks – <u>P. Klimek</u>, A. Jovanovic, R. Lim, EU-VRi, Germany; R. Schneider, Swiss Re, Switzerland</p> <p><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 3.2. Findings from iNTEg-Risk Related Projects</b> (<u>Ulm</u>; Chair: R. Hutter, H. Wenzel)</p> <p>S 3.2.1. VALUESEC - Mastering the Value Function of Security Measures – Ch. Blobner, Fraunhofer Institute for Factory Operation and Automation IFF, Logistics and Factory Systems, Germany; <u>R. Hutter</u>, CESS GmbH Centre for European Security Strategies, Germany</p> <p>S 3.2.2. Comprehensive Assessment of Traffic, Environmental and Financial Impacts of Tramway Extension Using Intelligent Multi-agent Simulator MATES – <u>H. Fujii</u>, S. Yoshimura, H. Uchida, The University of Tokyo, Dep. of Systems Innovation, Japan</p> <p>S 3.2.3. Results of the IRIS Project with Relevance to iNTEg-Risk – H. Wenzel, VCE Holding GmbH, Austria</p> <p>S 3.2.4. Architecture, Interfaces and Standards of Environmental Information Systems – How to Integrate them into Risk Management Applications – <u>M. Schenk</u>, M. Rudolf, Fraunhofer IOSB, Information Management, Germany</p> <p><b>Papers presentation 20' each, 10' Discussion</b></p>
	<p><b>Session 3.3. Risk Management and Standardization</b> (<u>Heilbronn</u>; Chair: H. Behrens, S. Jovanovic)</p> <p>S 3.3.1. Standardization in Risk Management – <u>S. Limousin</u>, V. Laflèche, INERIS, France</p> <p>S 3.3.2. Standardization Activities within the iNTEg-Risk Project – H. Behrens, DIN Deutsches Institut für Normung e.V., R&amp;D Phase Standardization, Germany</p> <p>S 3.3.3. NanoRef: Coordination of standardization activities for Safety Related To Nanoparticles – <u>O. Salvi</u>, EU-VRi, Germany; S. Engel, BASF, Germany; E. Fréjafon, O. Le Bihan, INERIS, France; S. Jovanovic, R-Tech, Germany; N. Babcsan, Bay Zoltan Foundation, Hungary</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>
	<p><b>Session 3.4. Natural Hazard Management and Insurability</b> (<u>Mannheim</u>; Chair: O. Renn)</p> <p>S 3.4.1. Invited Lecture: Combining Risk and Responsibility Perspectives – J. Brinkmann, Norwegian School of Management, Norway</p> <p><b>Moderator:</b> <b>O. Renn</b>, University of Stuttgart, Germany, <b>Panelists:</b> E. Rosa, V. Schetula, H. Kosow, S. Kjellgren, J. Brinkmann</p>

12:30 – 13:30	Lunch (buffet)
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**S 4. iNTeg-Risk Session 4 (parallel) – iNTeg-Risk Project Liaisons to Other Projects & Activities**

13:30 – 15:00	<p><b>Session 4.1. Near Misses &amp; Knowledge Discovery</b> (Heilbronn; Chair: N. Allan, S. Ansaldi)</p> <p>S 4.1.1. Discussing Near Misses to Revive the "Sleeping" Knowledge – <u>S. Ansaldi</u>, P. Agnello, P. Bragatto, INAIL, Italy</p> <p>S 4.1.2. Dynamic Knowledge Management (DKM) – <u>B. Debray</u>, INERIS, France, E. Kon, EKON, Israel</p> <p>S 4.1.3. An Evolutionary Approach to Identifying Emerging Risk in Complex Adaptive Systems Using Phylogenetic Analysis – <u>N. Allan</u>, University of Bristol, Systems Centre, United Kingdom; Y. Yin, University of Bath, School of Management, UK</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>
	<p><b>Session 4.2. Methodologies for Dealing with Emerging Risks II</b> (Ulm; Chair: M. Gerbec, Y. Malmén)</p> <p>S 4.2.1. Experience and the Unexpected: Risk and Mitigation Issues For Operating Underground Storage Silos for Coal Fired Power Plant – <u>Y. Malmén</u>, P. Auerkari, A.-M. Heikkilä, VTT, Finland; J. Sipilä, Helsingin Energia, Finland; U. Krause, BAM, Germany</p> <p>S 4.2.2. Two-Stage Stochastic Mixed Integer Linear Programming – J. Cui, TU Dortmund, Germany</p> <p>S 4.2.3. Effective Key Performance Indicators on Integration of Risk Related Information into Land Use Planning Process – D. Kontić, <u>M. Gerbec</u>, B. Kontić, Jozef Stefan Institute, Slovenia</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>
	<p><b>Session 4.3. Benchmarking</b> (Tübingen; Chair: L. Breedveld, D. Leonte)</p> <p>S 4.3.1. Comprehensive Ex-Ante Evaluation of New Emerging Technologies/Risks and Their Approval – B. Kontić, D. Kontić, <u>M. Gerbec</u>, Jozef Stefan Institute, Slovenia</p> <p>S 4.3.2. An Exposition into the Diversity of Risk Applications and Implications for their Integrated Management in Organizations – D. Leonte, NICNAS, Australian Department of Health and Aging, Australia</p> <p>S 4.3.3. Benchmark Study on International Functional Safety Standards – <u>F. Massé</u>, INERIS, France; R. Tiennot, LigeronFrance; J.-P. Signoret, Total, France; Ph. Blancart, PSA Peugeot Citroën, France; G. Dupin, RATP, France; L. Marle, IMdR, France</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>
	<p><b>Session 4.4. Uncertainties and Systemic Risks</b> (König-Karl-Halle; Chair: P. Bragatto, Ch. Huang)</p> <p>S 4.4.1. Estimation of Uncertainty for Emerging Technologies and Implications to Risk Management – <u>F. Markert</u>, I. Kozine, Technical University of Denmark, Management Engineering, Safety, Reliability &amp; Human Factors, Denmark</p> <p>S 4.4.2. Some Issues on Experimental Riskology – Ch. Huang, Beijing Normal University, Academy of Disaster Reduction and Emergency Management, China</p> <p>S 4.4.3. Inspection Planning of Pressure Vessels in Service – <u>P. Bragatto</u>, INAIL, DIPIA, Italy; C. Delle Site, INAIL, DCC, Italy; A. Faragnoli, C-ENG, Italy</p> <p><b>Papers presentation 25' each, 15' Discussion</b></p>

15:00 – 15:30

Coffee break

**P 3. iNTeg-Risk Plenary Session 3 – Panel Discussion Precautionary vs. Evidence-Based Approaches**  
(König-Karl-Halle)

15:30 – 16:50	<p>P 3.1. Precautionary vs. Evidence-Based Approaches when Dealing with Emerging Risks – <b>Moderator: O. Renn</b>, University of Stuttgart, Germany, <b>Panelists:</b></p> <ul style="list-style-type: none"> <li>• J. Wiener (US vs. Europe)</li> <li>• R. Löfstedt (Implications for European and US Policy Making)</li> <li>• E. Rosa (Application of Precaution to Climate Change)</li> <li>• Th. Webler (Citizen preferences for risk management approaches)</li> <li>• A. Jovanovic (Precautionary principle and evidence-based approach in the iNTeg-Risk framework)</li> <li>• P.A. Schieb (Precautionary principle in the future)</li> </ul>
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16:50 – 17.00

Closure of the conference (O. Renn, Jovanovic)

**Posters second conference day** (König-Karl-Halle; Coordinator: D. Balos)

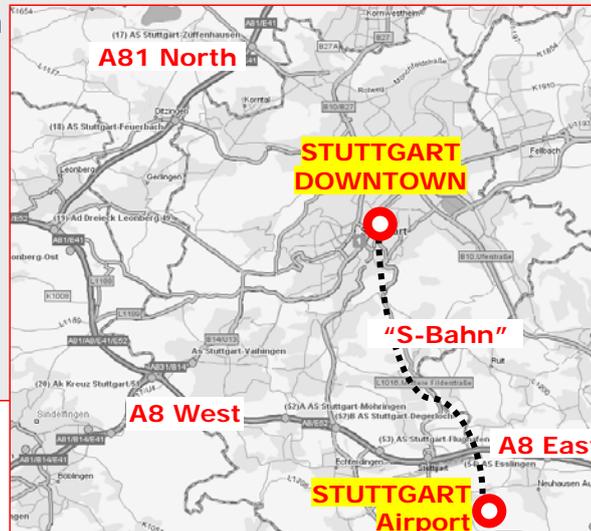
09:00 – 15:30	<p>The following posters will be presented throughout the day in König-Karl Halle</p> <p>PO 4. Human Erroneous Action Context Monitoring by Two HRA Methods – G. Petkov, Technical University of Sofia, Thermal and Nuclear Power Engineering, Bulgaria</p> <p>PO 5. Using Human Key Performance Indicators Together with Expert Reasoning Processes in Order to Understand and Cope with New and Emergent Risks – S. Kovacs, G. Apostol, I. Iorga, INCDPM, Romania; E. Doval, Spiru Haret University, Romania</p> <p>PO 6. Reliability Analysis and RBI Planning for Industrial Heating Vessels – A. Kozak, Office of Technical Inspection, Poland</p> <p>PO 7. Reducing Airbag Induced Injuries – A. Dávila, M. Nombela, IDIADA Automotive Technology, Passive Safety, Spain</p>
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**Venue**

- Stuttgart, Haus der Wirtschaft
- Steinbeis Foundation
- Steinbeis Advanced Risk Technologies
- EUropean Virtual Institute for Integrated Risk Management (EU-VRI)



Haus der Wirtschaft,  
Willi-Bleicher-Str. 19  
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+49 (711) 1839-781  
[www.stw.de](http://www.stw.de)



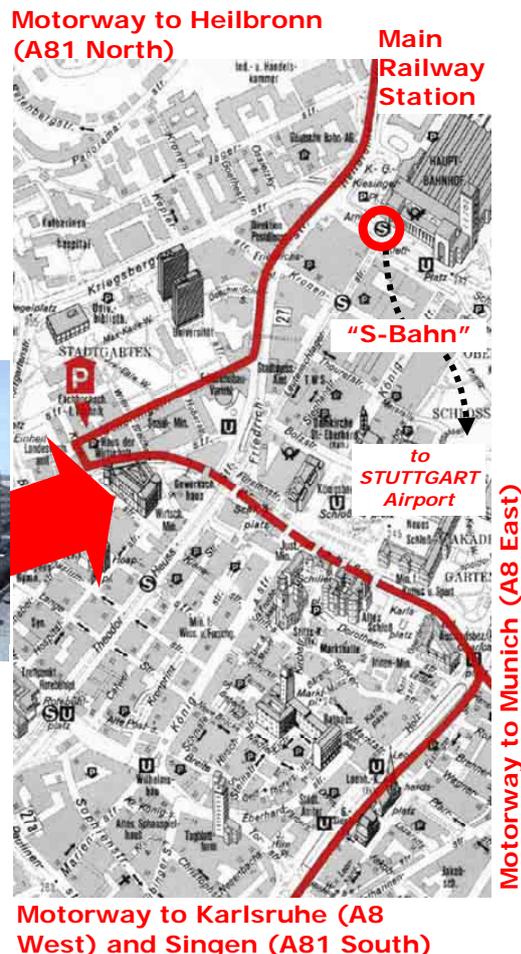
**Walking from the main railway station (Hauptbahnhof):** Take the main street (Koenigstrasse) for about 500 meters up to the main place Schlossplatz. Between the bookstore WITTEW and the ESPRIT, you have to turn right (kleiner Schlossplatz), go straight ahead, cross the 'Theodor Heuss Strasse' and you will reach automatically the 'Willi-Bleicher-Strasse'.

**Public transportation:** Take any of the subway lines ("S-Bahn") S1 to S6 (**S2 or S3 from the airport!**) and get off at the main railway station (Hauptbahnhof). Then follow the instructions above. Alternatively: use the tramway (the "U-Bahn") lines U9 or U14 and get off at the stop "Friedrichsbau".



**By car:** From the main motorways follow always "Stuttgart Zentrum" or "Stuttgart Stadtmitte". Take exits "Degerloch" when coming from Munich (Autobahn A8), exit "Vaihingen" when coming from Karlsruhe (Autobahn A8) or Zurich (Autobahn A81), or Zuffenhausen when coming from Heilbronn (Autobahn A81).

**Park** at "Hofdienergarage" in front of Haus der Wirtschaft (access to garage from Schellingstraße).



## Hotels

The special prices conditions are arranged with CONGREX.  
Please use the contact details provided at registration (<http://www.eu-vri.eu/fwlink/?LinkID=315>)!

\* \* \*

For further hotel and/or other information consult [http://www.stuttgart-tourist.de/ENG/hotels/hotels\\_buchen.htm](http://www.stuttgart-tourist.de/ENG/hotels/hotels_buchen.htm). No special conditions would apply to these hotels.

## Registration/Fees

Registration for the Main Conference is open at:

<http://www.eu-vri.eu/fwlink/?LinkID=315>

### Registration Fees:

**Conference fees** (+ VAT if applicable):

- 350 €, for iNTEg-Risk partner and members of the International Advisory Board
- 430 €, for other full delegate
- 230 €, for student delegates.

The registration includes handouts, coffee breaks, lunches, the conference reception and the conference dinner on June 7, 2011. Having registered either for SRA-Europe Meeting (June 5–8, 2011) or for 3rd iNTEg-Risk Conference (June 7–8, 2011) gives free access to both events on June 7–8, 2011.

**Workshops fees** (per workshop, + VAT if applicable):

- 150 €, for project partners and IAB members
- 250 €, for other participants.

The registration includes handouts and coffee breaks.

Registration:

- KPI Workshop: <http://www.eu-vri.eu/fwlink/?LinkID=317>
- IRGC Workshop: <http://www.eu-vri.eu/fwlink/?LinkID=316>

**Contact:**



**EU-VRI**  
**European Virtual Institute for Integrated Risk Management**

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