



Joint Workshop DRS-7&14 projects: ALIGNING THE RESILIENCE-RELATED RESEARCH EFFORTS IN THE EU DRS PROJECTS

September 13-14, 2017

BAO Congress Centre, rue Félix Hap 11, 1040 Brussels, Belgium

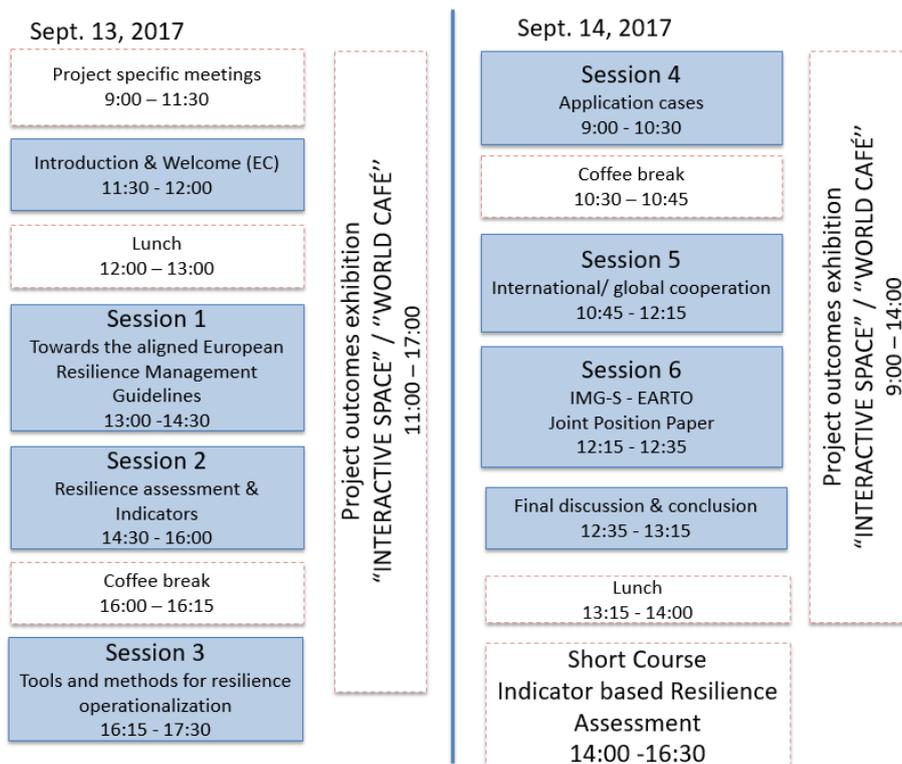
The workshop is funded by the European Commission Projects:
DARWIN, IMPROVER, RESILENS, RESOLUTE, SmartResilience, SMR
Other projects and institutions are welcome and will be invited specifically

Program Committee:

E. Bellini (RESOLUTE), I. Herrera (DARWIN), W. Hynes (RESILENS), A. Jovanović (SmartResilience),
S. Jacobzone (OECD), D. Lange (IMPROVER), P. Nesi (RESOLUTE), J. M. Sarriegi (SMR)

Organization:

E. Bellini, A. Doyle, I. Herrera, A. Jovanović, R. Kokejl, J. M. Palma Oliveira, K. Tetlak
Contact: WorkshopResilience2017@eu-vri.eu





AGENDA

September 13, 2017

(09:00 -11:30)

Project-specific meetings

(e.g. SmartResilience International Advisory Board Meeting, RESOLUTE Advisory Board Meeting; other projects may organize their meetings at the same time)

11:00 - 12:00

Registration for the workshop, coffee

11:30 - 12:00

Introduction & Welcome

This session will be dedicated to the introduction to the Resilience Research area within European Commission projects and the explanation of the targets: Overview of the DRS-7 & DRS-14 projects :

- 1) G. Lapeyre / P. Quevauviller: Searching for synergy and alignment (10 min)
- 2) A. Jovanovic: Goals and format of the joint workshop (10 min):
- 3) C. Fuggini: IMG-S - EARTO WG Security Research activities related to Resilience (10 min)

12:00 - 13:00

Lunch

13:00 - 14:30

Session 1: Towards the aligned European Resilience

Management Guidelines: How to achieve alignment and interoperability?

This interactive session will introduce the guidelines developed within the DRS7 projects and to identify with the practitioners the gaps, challenges and opportunities for their forthcoming integration in a view of their European-wide level adoption.

Chairs of the session & discussion moderators: D. Lange, E. Bellini

Contributors:

- 4) J.M. Sarriegi: European Resilience Management Guideline (SMR) (15 min)
- 5) S. Jacobzone: Achieving Resilience: sharing best practice, value and limit of guidelines (OECD)(15 min)
- 6) D. Lange: Integration of risk and resilience management (IMPROVER) (10 min)
- 7) W. Hynes: European Resilience Management Guidelines (ERMGM) for the operators and owners of Critical Infrastructure (CI) (RESILENS) (10 min)
- 8) M. Branlat: Practical interventions to support critical infrastructures in enhancing their resilience (DARWIN) (10 min)
- 9) E. Gaitanidou: European Resilience Management Guidelines and their adaptation for UTS (RESOLUTE) (10 min)

Panel discussion – Common set of the DRS - Guidelines?

14:30 - 16:00

Session 2: Resilience assessment method and indicators: How to define them? How to monitor them? How to implement them?

A large number of indicators have been identified in different projects (over 600 so far just in SmartResilience). The session will tackle the ways of how to define, monitor and implement them.

Chairs of the session & discussion moderators: J. M. Sarriegi, F. Petit

Contributors:

- 1) R. Almeida: Assessing resilience based on the ISO/IEC 33000 standard series (IMPROVER) (10 min)
- 2) A. Jovanovic & L. Bodsberg: Which indicators can tell us if critical infrastructure is resilient? How do we know the "quality of indicators?" (SmartResilience) (15 min)
- 3) J.M. Sarriegi: Indicators for assessing the resilience-building process in cities (SMR) (10 min)
- 4) D. Verner, F. Petit: Assessing Resilience: from Facilities to Regions (ANL) (10 min)
- 5) E. Bellini: Exploiting SmartResilience indicators in RESOLUTE Resilience Assessment Framework (RESOLUTE) (10 min)

Panel discussion – Common set of DRS - Indicators?

16.00 - 16:15

Coffee break



16:15 - 17:30

Session 3: Tools & methods for resilience operationalization

This session will provide an information about tools, which have been used and created for the particular projects' needs. The ways of operationalization of the developed solutions will be discussed.

Chairs of the session & discussion moderators: M. Branlat, I. Kozine

Contributors:

- 1) G. Rafaeli: The RESILENS Toolkit – Decision Support for CI operators and owners (RESILENS) (15 min)
- 2) R. Almeida: A web tool for assessing resilience using any framework (IMPROVER) (10 min)
- 3) P. Nesi, A.Drosou: Evidence-driven Collaborative Resilience Assessment and Management Support System for Urban Transport System, A VA Platform for Personalized Crowd, Fleet & Resources Management (RESOLUTE) (15 min)
- 4) U. Barzelay: Why and how to use Interactive data visualization in resilience related projects? (SmartResilience) (10 min)
- 5) C. Grimes: Overview of the resilience tools developed and their intersections (SMR) (10 min)
- 6) I. Kozine: Capabilities-based approach to building and maintaining resilience (10 min)

Panel discussion - Common set of DRS – tools?

17:30

The end of the first day

September 14, 2017

09:00 - 10:30

Session 4: Application cases – are the newly developed methods, guidelines & tools implemented/analyzed?

This session will deal with the application cases and/or case studies being analyzed in different projects where the newly developed methods, guidelines & tools have been implemented.

Chairs of the session & discussion moderators: Z. Szekely, K. Pala

Contributors:

- 1) A. Corrigan: The RESILENS Pilot Demonstrations – Testing the Toolkit across three CI Sectors in Ireland, Portugal and Germany (RESILENS) (10 min)
- 2) E. Bellini: Florence pilot case (City of Florence) (RESOLUTE) (10 min)
- 3) Z. Szekely, I. Macsári: Case study DELTA and the significance of the SmartResilience project for the aviation security sector (SmartResilience) (15 min)
- 4) V. Latinos: Local Resilience Planning: A review of methodologies adopted for the SMR pilot implementation process (SMR) (10 min)
- 5) P. Berggren: DARWIN - Pilot application in Sweden involving among others health care, public sector and transport services (DARWIN) (10 min)

Panel discussion – Are the uses really applying the results of the EU projects?

10:30 - 10:45

Coffee break

10:45 - 12:15

Session 5: Importance of international/global cooperation in the area of resilience – How to enhance it in the future?

In importance of international/global cooperation in the area of resilience with participation of international institutions and organizations (OECD; ANL, DHS) the session will look at the issues related to the practical aspects of collaboration. Examples of the running agreements (e.g. between EU and OECD, EU-VRI and ANL) will be shown and the future opportunities for collaboration highlighted (e.g. The World Congress on Risks in 2019)

Chairs of the session & discussion moderators: A. Jovanovic, S. Jacobzone

Contributors:

- 1) W. McNamara: US DHS views on critical infrastructure resilience (15min)
- 2) S. Jacobzone: Application of resilience concepts: the case of critical infrastructure (15 min)
- 3) I. Linkov: Resilience: State of Science and State of Applications in the USA (15 min)
- 4) F. Petit, D. Verner: Resilience Indicators and Interdependencies: Need to Promote a Global Approach (15 min)
- 5) C. Grimes: The role of local and regional networks and partnerships in resilience-building (SMR) (10 min)
- 6) J. Kieran: Enhancing International Collaboration through DARWIN's Community of Practitioners (DARWIN) (10 min)

Panel discussion – Common global approach?



12:15 - 12:35	Session 6: Alignment of the Resilience Workshop findings/items with IMG-S - EARTO WG Security Research approach Joint Position Paper on Resilience in Security Research - discussion moderator: C. Fuggini
12:35 - 13:15	Wrap-up of the workshop: final discussion & conclusion
13:15 - 14:00	Lunch

Please note: Each session (incl. discussion) will be recorded.

14:00 - 16:30	SHORT COURSE: Indicator-based resilience assessment for critical infrastructures – the SmartResilience methodology and tools This extra session provides a short course on indicator-based resilience assessment method dedicated to the Critical Infrastructure operators, local authorities as well as end-users. Lectures: A. Jovanovic & K. Øien (SmartResilience), F. Petit (ANL)
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Parallel events:

September 13 - 14, 2017

INTERACTIVE SPACE / "WORLD CAFE" & PERSPECTIVITY CHALLENGE

Project information exhibition booths and "serious games" (perspective-challenge board games)

The interaction space provides an opportunity to the critical infrastructure operators, service providers, researches, local authorities and end-users, to interact with the projects and see their current results in a more direct way. Furthermore, participants will have a possibility to play "The Stress Nexus Challenge" game in which they will act as a decision makers dealing with different adverse events.

September 13, Lunch break

Special presentations:

- 1) **O. Renn, Guest Key Lecture (video):** "Resilience: A Re-insurance for Societies in Transition" (30 min) - will be available also at: www.eu-vri.eu
- 2) **E. Dykstra:** TEDx-style presentation: "From Risk to Resilience...: we don't need more science but better stories!"