

iNTeg-Risk Workshop III.1 on Concepts and Applications of Key Performance Indicators for New Technologies

June 17, 2010
Stuttgart

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

Hosted by



Event supported by



Concept of the workshop

Workshop organizers

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Chair of the OECD Working Group on Chemical Accidents

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Contact & Organization

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M. Löscher, European Virtual Institute for Integrated Risk Management, Germany

A. Veres, Steinbeis Advanced Risk Technologies, Germany

About the workshop

The workshop will address the issue of Key Performance Indicators (KPIs) as used, or planned to be used in iNTeg-Risk Project (www.integrisk.eu-vri.eu). In the project KPIs are one of the four main cornerstones of the methodology for assessing and managing emerging risks linked to New Technologies (the other three being the IRGC Framework, UML and Basel-II-like procedure for assessing the risks). In particular, the application of KPIs for the 17 ERRAs of iNTeg-Risk (ERRAs – Emerging Risks Representative Applications) is supposed to be looked at in more detail. This should be the case both for the ERRA-specific KPIs and for the KPIs used to compare ERRAs and single risk issues within each of them.

Main concepts developed by organizations like OECD, HSE/HSL, CCPS or VCI will be discussed in the first part of the workshop. Application of these and other concepts is foreseen to be tackled in the second and third part of the workshop, where also the practical aspects of these applications, including tools and the practical view from the industry on the use of indicators will be presented and discussed. Main expected benefits for the participants are:

- Introduction to the KPI concepts, by their developers
- Presentation of examples of application, both within iNTeg-Risk and outside iNTeg-Risk
- Exchange of experiences in using KPIs both within iNTeg-Risk and in other projects/activities

Expected participants to this course are plant engineers, managers and risk experts.

Agenda

09:00 – 09:15 Opening

09:15 – 10:45 Session I: KPI concepts

1. Key Performance Indicators – What makes a difference and how do we know? (M. Hailwood, LUBW)
2. KPI development – What can we learn from previous work on KPIs (e.g. OECD and HSE) for management of Emerging Risks? (A. Jovanovic, EU-VRI)
3. Results and outcomes from JRC's Workshop on Safety Leadership and how to apply the findings in large scale projects (L.G.A. van Wijk, JRC)
4. Discussion

10:45 – 11:00 Break

11:00 – 12:30 Session II: KPI applications in industry

5. Practical view from industry on use of indicators (K. Jörg, BASF)
6. The Pathogenic Organisational Factors: Candidates to be Key Safety Indicators (C. Duval & Y. Dien, EDF)
7. Insurance view on KPIs for Emerging Risks (ERRA A2) – where do insurance companies see the need for further development? (R. Schneider, Swiss Re)
8. Individual key performance indicators and their usage to improve enterprise safety (S. Kovacs, INCDPM)

12:30 – 13:30 Lunch

13:30 – 15:30 Session III: KPI applications in iNTeg-Risk project

9. The role of KPIs in the Emerging Risk Management Framework (ERMF) and tools to manage them (A. Jovanovic, EU-VRI & D. Balos, R-Tech)
10. Application of KPI concepts in ERRAs (selected ERRA responsible)
 - KPIs for Emerging Risks in selected industry cases: ERRA D1 (P. Friis Hansen & T.G. Saetren, DNV)
 - Application of KPIs to diverse emerging risks: what lessons can be drawn?: ERRA A1 and ERRA C2 (J. Buston, HSE/HSL)
 - Developing KPIs for monitoring Emerging Risks in petrochemical plants: ERRA C3 (Gy. Lenkey & P. Rózsahegyi, BZF)
11. Discussion

15:30 – 16:00 Break

16:00 – 17:30 Panel discussion: Prospects, limitations and further development of KPIs / Conclusions and recommendations for ERRA D1 and WP2.4

17:30 End of the workshop