

Panel on  
**Resilience Views from other European Projects**

Panel Moderator: **Luca Simoncini**, University of Pisa, Italy - **ReSIST NoE**

Panellists:

**Benoît Bruyère**, Thales, France - **DESEREC IP**

**Aljosa Pasic**, Atos Origin, UK - **ESFORS CA**

**Domenico Presenza**, Engineering Ingegneria Informatica, Italy - **SERENITY IP**

**Hans-Peter Schwefel**, Aalborg University, Denmark - **HIDENETS STREP**



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ReSIST First Open Workshop - Budapest, Hungary



**DEpendability and  
Security by  
Enhanced  
REConfigurability**

**DESEREC is an IP of FP6.** It deals with highly interconnected Communications and Information Systems (CIS), and the use of them to carry out critical activities. It aims at the development of model-based reconfiguration techniques for large IT systems, thus protecting services against faults and intrusions.



**European Security Forum  
for WEB Services,  
Software and Systems**

**ESFORS is a CA of FP6.** It aims at bringing together the European stakeholders for security and dependability Information and Communication Technologies (ICTs) to address the security and dependability requirements of emerging software service platforms.

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System Engineering for  
Security & Dependability

**SERENITY is an IP of FP6.** It aims to enhance security and dependability in AMI systems, by validated security solutions available to Aml ecosystems and promoting their assurance and evolution. It will provide mechanisms for monitoring security at run-time and dynamically react to threats or breaches of security, and context changes and it will integrate security solutions, requirements definition and solution selection, and monitoring and reaction mechanisms in a common framework.



Highly DEpendable  
ip-based NETWORKS  
and Services

**HIDENETS is a STREP in FP6.** The aim of HIDENETS is to develop and analyze end-to-end resilience solutions for distributed applications and mobility-aware services in ubiquitous communication scenarios. Technical solutions will be developed for applications with critical dependability requirements in the context of selected use-cases of ad-hoc car-to-car communication with infrastructure service support.

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## What is "Resilience" ?

**Resilience\*** and **Resilience Engineering\*** are defined as:

- in **Networks**: **Resilience** is the ability of the network to provide and maintain an **acceptable** level of service in the face of various faults and challenges to **normal** operation,

- in **Industrial and Organizational Safety**: ..... **Resilience Engineering** looks for ways to enhance the ability of organizations to create **processes** that are **robust yet flexible**, to monitor and revise risk models, and to **use resources proactively** in the face of disruptions or ongoing production and economic pressures. .... Success has been ascribed to the ability of groups, individuals, and organizations to **anticipate the changing shape of risk** before damage occurs; failure is simply the temporary or permanent absence of that.

\* from Wikipedia and the book by Hollnagel, E., Woods, D. D. & Leveson, N. G. 2006. "Resilience engineering: Concepts and precepts", Aldershot, UK, Ashgate.

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## Questions to the Panelists:

- **How are resilience and resilience engineering approached in your Projects ?**
- **What methods and techniques are you investigating for obtaining resilient socio-technical complex systems ?**