Scalable Resilience The ReSIST Network of Excellence

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ReSIST is a Network of Excellence that integrates leading researchers active in the multidisciplinary domains of Dependability, Security, and Human Factors, in order that Europe will have a well-focused coherent set of research activities aimed at ensuring that future ubiquitous computing systems (the immense systems of ever-evolving networks of computers and mobile devices which are needed to support and provide Ambient Intelligence), have the necessary resilience and survivability, despite any residual development and physical faults, interaction mistakes, or malicious attacks and disruptions.

At the heart of ReSIST is the Joint Programme of Research (JPR). Two main steps will take place, according to the structuring of the research activities:

1) first according to the basic resilience building technologies for the survivability of information infrastructures, i.e., resilience design, resilience verification and resilience evaluation

2) then according to the resilience scaling technologies: evolvability, assessability, usability and diversity. This move from resilience building technologies towards resilience scaling technologies will be accompanied and facilitated by the resilience integration technologies: a resilience knowledge base, and the development of a resilience-explicit computing approach.

The Joint Programme of Excellence Spreading (JPES) contributes to integration via the production of documents incorporating results from the JPR, e.g., a) common courseware for training activities, and b) best practices for dissemination activities.

The Joint Steering Programme a) guides integration in assigning and updating the activities of the JPR and the JPES, b) favours integration via the allocation of the resources of ReSIST, and c) assesses integration.