

Resilience for Survivability in IST

ReSIST

A European Network of Excellence





- Rationale
- Logic
- Joint Programme of Activities insight
- Partnership









Joint Programme of Activities insight



Resilience Building Technologies





Resilience Scaling Technologies





Resilience Integration Technologies

Resilience Knowledge Base Resilience-Explicit Computing

Development of a representation of the relationships amongst the various dependability terms, i.e. a dependability *ontology*

Provide online-access to, and means of analyzing, a large amount of regularly (in the main

automatically) updated detailed information on research projects Creating and manipulating dependability meta-data, i.e. making explicit dependability-relevant characteristics of all

 artefacts (software and hardware components, data sets, documents, etc.) and processes involved in system development and adaptation

Requires the development
of a *formal* dependability ontology



Dartnarchin	Expertise					
Partnersnip	Threat resilience: development or physical Accidental faults (A) / Malicious attacks (M) / Interaction mistakes (I)			Mobile computing	Country	Academia (Ac) / Industry (Ind)
	А	М				
LAAS-CNRS [coordinator]	Х	Х		X	FR	Ac
Budapest U.	Х				HU	Ac
City U., London	Х	Х	Х		UK	Ac
Darmstadt U.	Х	X			DE	Ac
Deep Blue			Х		IT	Ind - SME
Eurecom		X		X	FR	Ac
France Telecom R&D	Х	X		Х	FR	Ind
IBM Research Zurich		X			CH	Ind
IRISA	Х			X	FR	Ac
IRIT			Х		FR	Ac
Vytautas Magnus U., Kaunas	Х				LT	Ac
Lisbon U.	Х	Х		X	PT	Ac
Newcastle U.	Х	Х	Х		UK	Ac
Pisa U.	Х	Х	Х		IT	Ac
QinetiQ	Х	Х			UK	Ind
Roma-La Sapienza U.	Х			Х	IT	Ac
Ulm U.	Х				DE	Ac
Southampton U.	Resilience Knowedge Base building				UK	Ac

71 researchers plus 44 students, 3 year duration





Scalably resilient policies, algorithms and mechanisms for ubiquitous computing systems



Organisation

Composition – Multidisciplinarity for holistic approach

Partners' expertise — Threat Resilience				
Accidental faults	Malicious attacks	Interaction mistakes		
13 [Ac: 11, Ind: 2]	10 [Ac: 7, Ind: 3]	5 [Ac: 4, Ind: 1]		

Reg Management

