Critical Infrastructure Research and Resilience Network

CIPR Net

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CIPRNet Summary

The Critical Infrastructure Preparedness and Resilience Research Network or CIPRNet establishes a **Network of Excellence in Critical Infrastructure Protection** (CIP). CIPRNet performs research and development that addresses a wide range of stakeholders including (multi)national emergency management, critical infrastructure operators, policy makers, and the society. By integrating resources of the CIPRNet partners acquired in more than 60 EU co-funded research projects, **CIPRNet will create new advanced capabilities for its stakeholders**. A key technology for the new capabilities will be modelling, simulation and analysis for CIP. CIPRNet builds a **long-lasting** virtual centre of shared and integrated knowledge and expertise in CIP. This virtual centre shall provide **durable support from research to end users**. It will form the foundation for the **European Infrastructures Simulation & Analysis Centre (EISAC)** by 2020.

CIPRNet Mission

The CIPRNetwork will provide **concrete and long-lasting support** from the CIP research communities to the initial audience, **enhancing their preparedness for CI-related emergencies**, and **provide knowledge and technology** to other stakeholders for **improving the understanding and mitigation of the consequences of CI disruptions**, leading to an enhanced resilience of CI.

CIPRNet Services

- cipedia.eu
  - online glossary of CIP
  - list of CIP conferences
  Registration of experts asked for!

- European CIIP Newsletter

- CIPRNet training events

- CIPRNet lectures

- Bibliography of CIP literature

- Database of CIP research projects

- CIPRNet publications and deliverables

- More to come! Visit ciprnet.eu

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New Capabilities

The CIPRNet's joint R&D activities towards implementing new capabilities include:

- Creating added-value, decision-support capabilities with consequence analysis for national and multi-nation emergency management and CI owners based upon integrating technologies available at CIPRNet partners,

- Supporting the secure design of Next Generation Infrastructures (such as Smart Grids),

- Creating a new 'what if' modelling, simulation and analysis capability for training emergency managers by exploring different courses of action in crises.

VCCC and EISAC

Another tangible result of CIPRNet is the Virtual Centre of Competence and Expertise in CIP (VCCC). It provides support from the CIP research communities to stakeholders. Its services are accessible through the CIPRNet web site. A newly founded association will foster the evolution of the VCCC to EISAC for sustaining support beyond the duration of CIPRNet.

Capacity Building

CIPRNet supports capacity building within the multi-disciplinary communtiy of CIP experts by training activities like CIPRNet Master Classes for end-users, CIPRNet courses for post-graduate students and CIPRNet lectures for a wider community. Also, CIPRNet fosters open-minded young talents that are required for building and sustaining the expert capacities. One means is the CIPRNet Young CRITIS Award (CYCA) for the best young talents' research work in CIP.

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Agenzia Nazionale per le Nuove Tecnologie, L'Energia e lo Sviluppo Economico Sostenibile (ENEA)	Italy
Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek (TNO)	The Netherlands
Union Internationale des Chemins de fer (UIC)	France
Commissariat à l'énergie atomique et aux énergies alternatives (CEA)	France
The European Union represented by the European Commission represented by the Joint Research Centre (JRC)	European Union
Stichting Deltares (Deltares)	The Netherlands
University of Cyprus (UCY)	Cyprus
Uniwersytet Technologiczno-Przyrodniczy im. Jana i Jędrzeja Śniadeckich w Bydgoszczy (UTP)	Poland
Università Campus Bio-Medico di Roma (UCBM)	Italy
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