ERNCIP - Academic Committee

a snapshot



Dr. Alois J. Sieber Chairman AC

Academic Committee (AC)

academic community

a link between the Academia and ERNCIP-stakeholders

a multidisciplinary advisory body to ERNCIP Office and Thematic Groups

a forum for discussion on how to further develop CIP-related knowledge in the





Laboratory availability

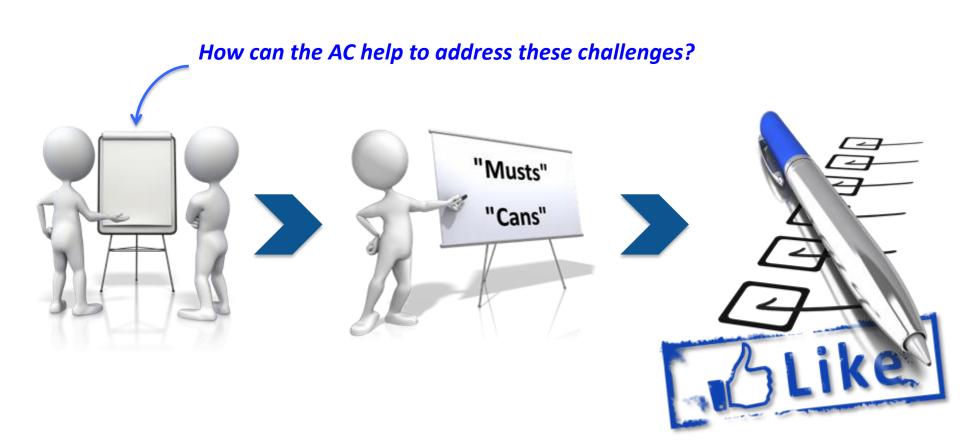
Certifications

Labelling

Best practices

Relative dissemination

Testing practices



'Science-based training curriculum in Critical Infrastructure Protection and Resilience'

- training for professionals involved in the safe and secure design, implementation, operation, management and regulation of critical infrastructures

1st proposed task

2nd proposed task

Modeling and Simulation for the risk

protection and resilience

assessment of CI and the management of their

- a proposal for action for a new TA in ERNCIP

Risk Assessment

Risk = (probability of the accident occurring) x (expected loss in case of accident)

Passau & Burghausen



Passau (Donau)

June 3, 2013 Water level at 12.89 m 2nd highest in recording



Burghausen (Salzach)

between 1961 and 1971 Construction of a water protection wall



Burghausen (Salzach)

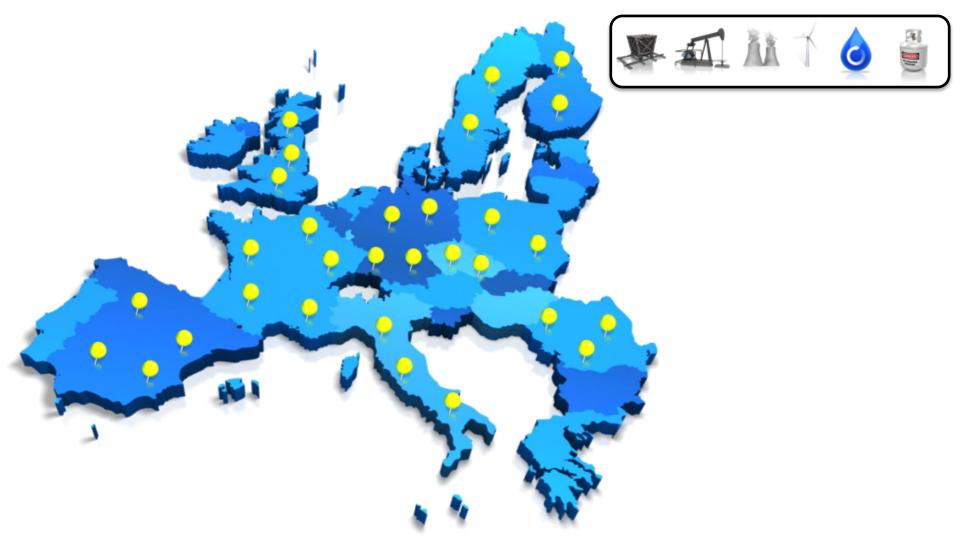
Risk mitigation based on meaningful risk assessment?

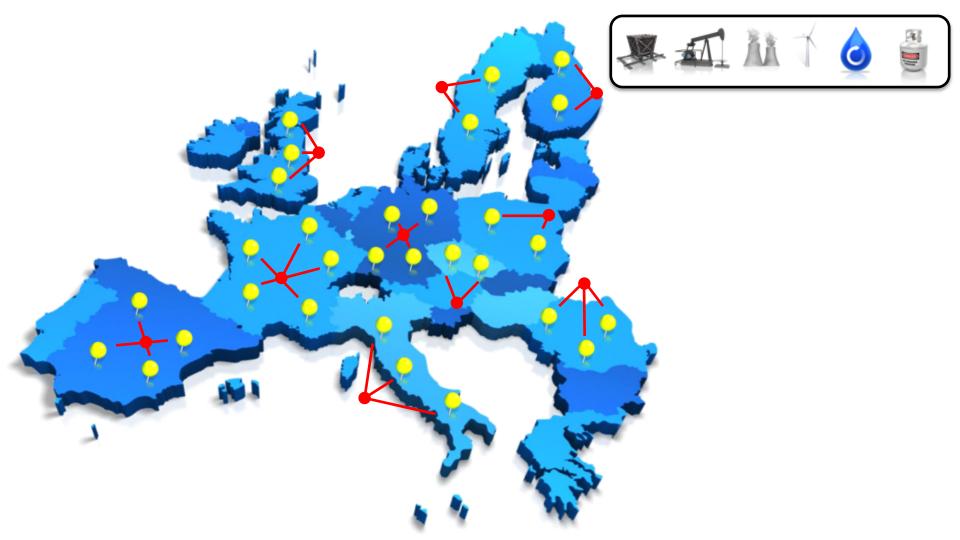
Further proposed task

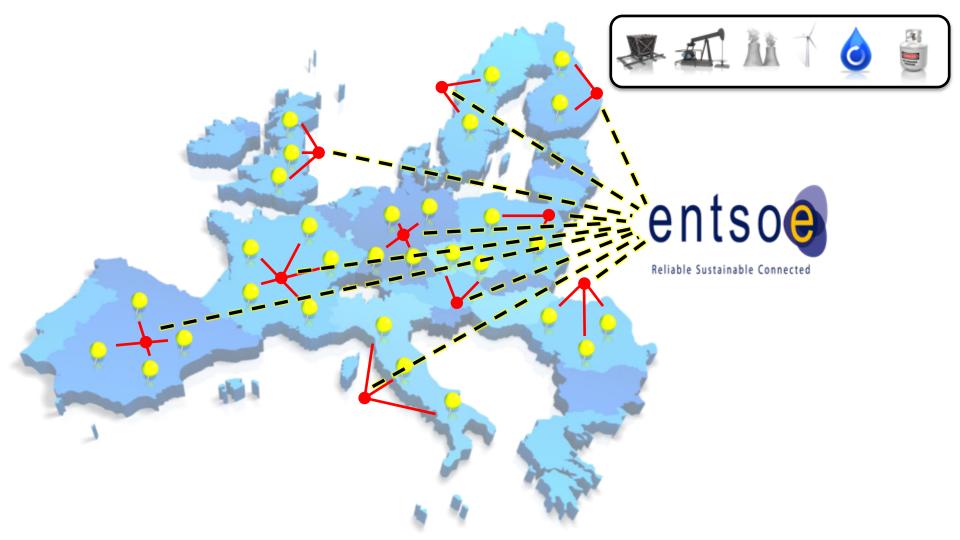
Inventory of results in CIP research

in national EU programs and in EU

Possible new fields for research to be considered by ERNCIP

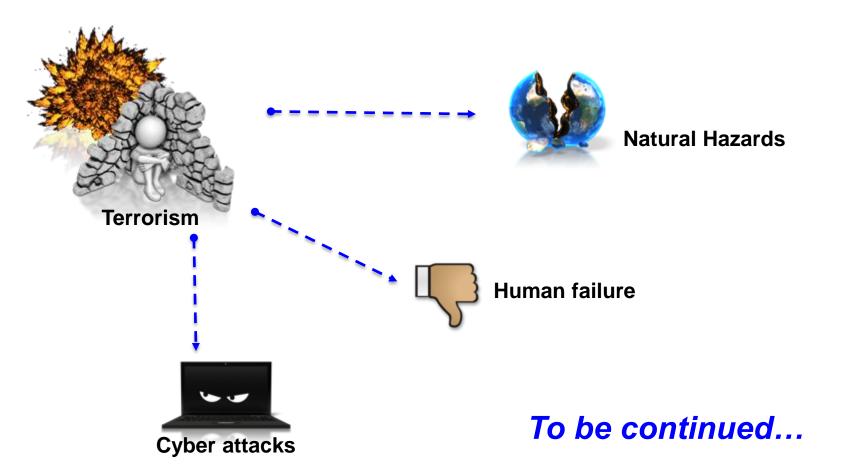


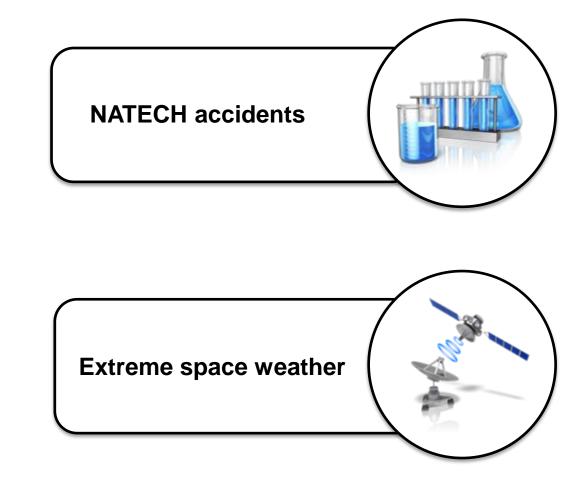






Growing Complexity

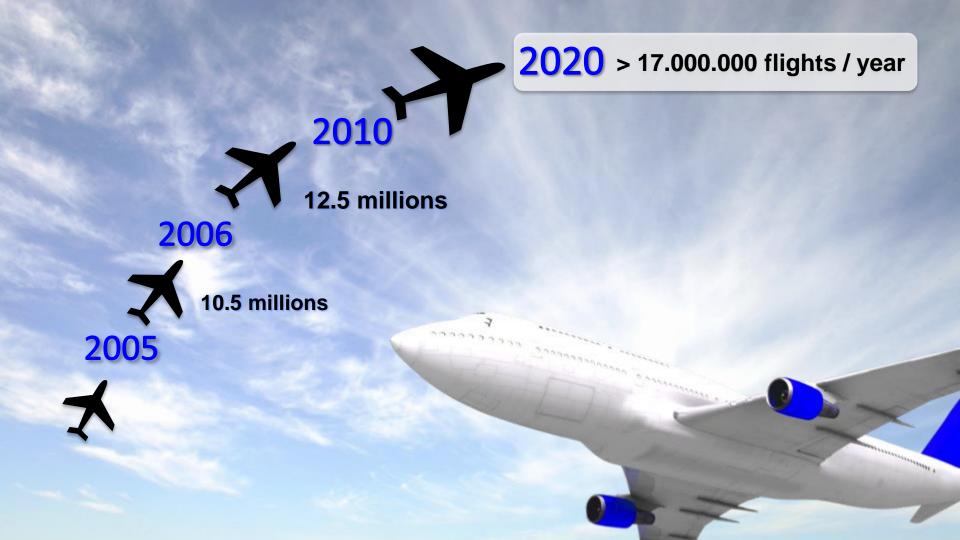


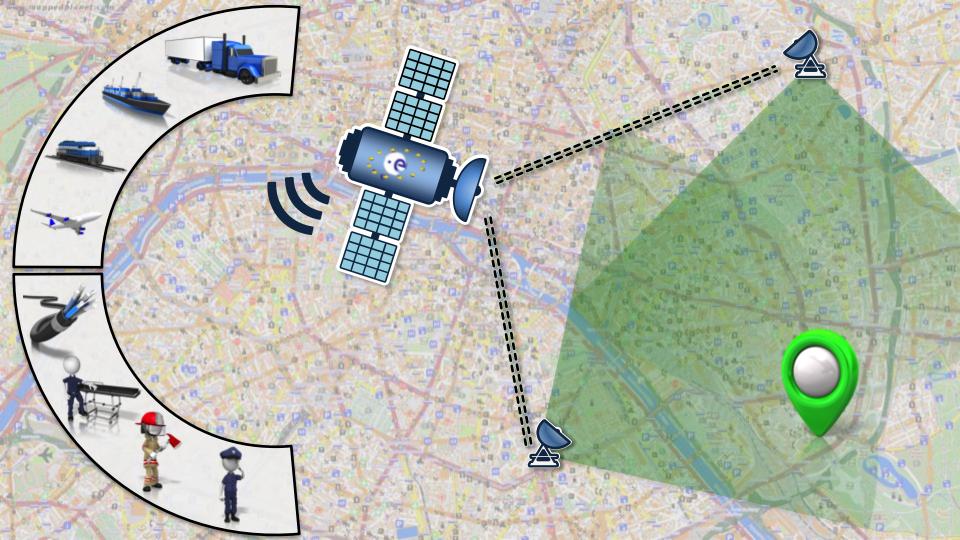




Smart X | Transport

Transport City Grid Home





JAMMERS











JAMMING: Three Examples

San Diego – January 2007

- US Navy ships doing communications jamming tests
- Their own GPS stopped working
- Jammed the whole San Diego harbour region
- Stopped phone systems, cell-phones, hospital paging
- It took NAVCEN 3 days to finger the culprits!
- GPS jamming was unintentional

UK – 2009

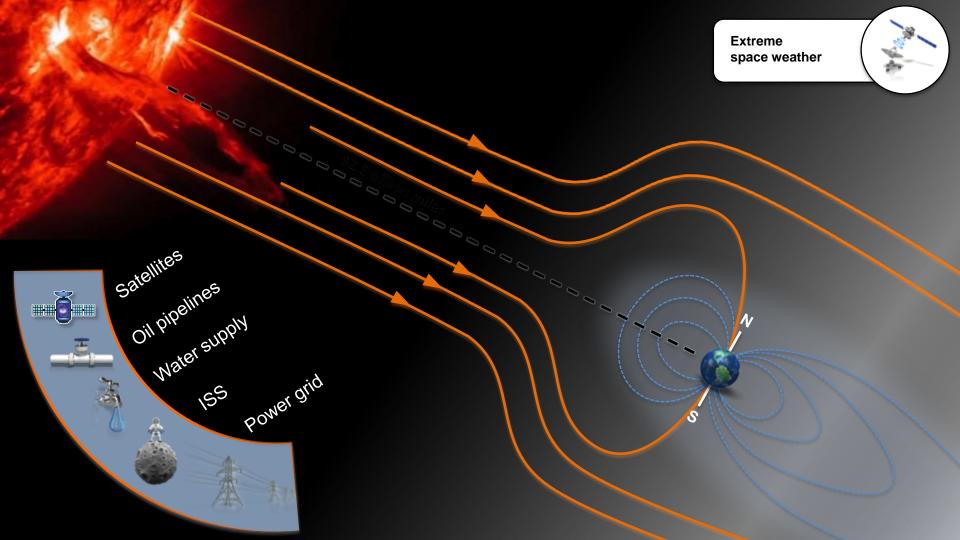
General Lighthouse Authority jamming trials
–showed that GPS receivers may visit "exotic locations"

Newark Airport 2010

- A GPS jammer in a truck interfered severely
- -a GPS-based aircraft landing system. The FAA needed
- -four months to identify the source of the jamming
- -attack







Several teams in EU are active, but no common strategy, goal, etc.

Proposal: ERNCIP should act as facilitator of a round table involving:

FMI as potential operators, national civil contingency agencies, etc.

ESA's Space weather working team board, HORIZON 2020 SAG, UK Met Office,

In conclusion

ERNCIP's AC is reaching out to all stakeholders in order to propose new science based TA, establish a metrology for CI, measurement standards for CI

However, where is the inventory of achieved research results at EU as well as national level?