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Protection of Critical Infrastructure, in special “EUKRITIS – Mutability of Protection Structures and Assessment of Consequences for Prevention, Defense of Disaster and Accomplishment of Disaster Consequences”

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Instructions

- Critical cases infrastructure presentation and connections
- "Infrastructure protection for critical cases" (KRITIS) project goals
- Working results to date
- "EUKRITIS" EU project
- Conclusions

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Critical cases infrastructure

- **Definition: "What is meant by critical cases infrastructure is key state organisations and institutions which, if they collapse or operate at a limited range, can cause long lasting limitations in supplies, huge jeopardy of public safety, or other dramatic effects".**

(Critical cases infrastructure definition by AK KRITIS, of 17 October 2003)

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Infrastructure risks for critical cases

In the past:

- Clear cut rules
- Strategies
- Plans

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Infrastructure risks for critical cases

Heute:Today:

- Privatised
- Variety of tasks
- Ambiguous risks and hazards
- Risk area: the entire world
- Haste
- Impossible to make plans

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Critical cases infrastructure

Problems:

- Large number of participants
- The nature of hazards has changed in recent years
- Strong tendency to defects because of IT and telecommunications, strong dependence
- Globalisation
- Increase in complex and sensitive systems
- Easy access to know-how over the Internet

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Critical cases infrastructure

- State and private sectors must co-operate
- National and international information exchange between state and private sectors is indispensable
- Confidentiality and trust must be guaranteed
- Balance between safety and efficiency ought to be found

Questions to be applied:

- Responsibility/guarantee
- Assistance costs

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Critical cases infrastructure connections – power as an example

Power

- Gas/ oil supply
- IT/Telephones
- Food/ water
- Administration
- Banks/ finances
- Emergency services
- Transportation

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Critical cases infrastructure connections – power as an example

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Research institutions --->

- Cultural heritage
- Radio
- Health services
- Emergency services
- Water supply, waste disposal
- Transportation, communications, logistics, postal services
- Food supply
- IT and communications
- Power supply (electricity, mineral oil, gas)
- Finances and insurance
- Hazardous substances
- Government, offices

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Critical cases infrastructure sectors - I -

- Power supply (electricity, mineral oil, gas)
- IT and communications infrastructure
- Transportation, communications
- Finances and insurance
- Health services

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Critical cases infrastructure sectors - II -

- The state and its administration (including the police, customs, and army)
- Water and food supply (foodstuffs, water and waste disposal) , waste disposal
- Culture, media, research (research institutes, as well as outstanding or symbolic buildings, cultural heritage)

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Disposition

- Critical cases infrastructure presentation and connections
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KRITIS project goals

Crucial goals:

- Critical cases infrastructure unreliability due to
 - The elements and natural disasters

- Technical defects/ human error
- Criminal activities
- Terrorist attacks

What should be reduced

- Negative consequences for people, objects, and functioning of the state, society, and economy should be reduced to a minimum level.
- Human life protection in view of negative effects on infrastructure for critical cases is high.
- Basic supplies for the general public are guaranteed.

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KRITIS project goals

Specific goals:

- Unbroken co-operation of all involved areas is implemented on the basis of a uniform prevention, information and action plan.
- Organisational structures shall guarantee long-term continuity of national plans, and their adjustment to future requirements.
- Trans-border co-operation is integrated with everyday work; appropriate legal grounds have been developed, and agreements signed.

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Disposition

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Working results - I

- Establishing and securing continuity of a list of definitions in order for it to be shared by all involved organisations
- Developing a far-reaching industries and offices information network in order to protect critical cases infrastructure data

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Working results -II-

Making an expert interview within industries and offices, primarily stressing the following:

- Defining a review on "Main points of critical cases infrastructure "
- Stock-taking of analysis procedures

Stock-taking of existing analysis procedures in "critical cases infrastructure protection" and "defences against disasters" in other industries and offices

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Working results -III-

- Developing a coherent analysis procedure in order to identify critical cases infrastructure
- What is necessary is organising a "KRITIS" co-ordination spot at the Ministry of the Interior

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Working results -IV-

Matrix:

Sub sector (industry, services)

Components

Significance(a structure significant for the state idea of community)

- general public supply;
- state and its institutions survival
- cascade and domino effects: areas of economy significant for functioning of the state idea of community

Burden of consequences

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Working results -V-

Matrix:

- Magnitude/ Uniqueness/ availability of alternatives
- People involved: general public, inhabitants, those co-operating with the infrastructure institution/ qualified staff
- Regions, districts, Lands involved, state border, (dispersed effects)
- Duration of break or recovery in supplies
- Supplies for the general public
- Ecological effects
- Potential losses/ human losses/ health and psychological damages
- Political capability of a Land government

- Public safety (ability to act within state bodies: police, law upkeeping institutions, fire brigades, emergency services, courts of law, etc)

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UE "EUKRITIS" EU Project

EUKRITIS – Changing protection structures and assessment leading to better prevention

Project partners:

- Land of Brandenburg Ministry of the Interior
- University of Postdam – IT and e-Government Chair
- BASF Schwarzheide
- Myślibórz Region Fire Brigades

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EUKRITIS

Project goals

- Method of establishing of replacement of protection systems
- Effect assessment procedures
- Familiarity with protection systems and proven practices
- Development and amendment of relationships between administration and private sector
- IT contact networks between offices
- Trust and collaboration culture care

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EUKRITIS

- Checking the established procedures in practice, in the OSL district, on 10 June 2009
- Expert interview has been planned in Poland
- Presentation of provisional results in September 2009, at the international „Disaster Management 2009” conference in Wessex (UK)
- Carrying out transfer workshops in Land Brandenburg and in Poland

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Conclusions

- KRITIS Project:
- Setting up prevention project/plan
- Setting up IT project
- Setting up action project/plan - standards

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Conclusions

Project discussion

- With all plants
- With appropriate specialist sectors
- With the Interior sector
- With districts and communities

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Conclusions

„KRITIS“ co-ordinating spot

Tasks:

- Creating and securing continuity for KRITIS project (prevention, information and action project for critical cases)
- Information management and offices and industries co-ordination regarding solutions, aimed at infrastructure protection in critical cases in EU and Germany
- Clarification and assessment of basic queries for critical cases infrastructure protection

- Analysis and identification of critical cases for Land Brandenburg

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Conclusions

- Hazard and risks analysis, as well as critical analyses for critical cases , in collaboration with private and state institutions
- Construction and development of networks, on the basis of inter-regional structures, including private users of infrastructural institutions (joining knowledge, setting up protective measures, participants' acceptance); Using IT platforms (administration, economy, research)
- Developing industrial users' awareness of risks
- Analysing research programmes (IT platform, searching partners, support and participation of EU and the German government in research programmes in order to protect infrastructure in critical cases)

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Critical cases infrastructure

Thank you for your attention