



# Civil Protection and Space Telecommunications

Current and future uses

- Risk Prevention -

**Paris, 29 April 2005**





# Risk Prevention

- No German equivalent of the term
- Avoidance of risks
  - Renunciation of risky activities
  - Risk reduction
    - Improved planning, management, etc
    - Technical prevention and safety measures





# Status quo

- Weather conditions
- CBRN
  - Mobile
  - Facilities
- Seismic activities
- Emissions
  - Air
  - Soil
  - Water





# Capture of indicators

- Cameras
- Sensors
  - Seismic activities
  - Movement of soil
- Weather data
- GIS data





# Opportunities

- Linking / matching the different data
- In real time
- History for prognosis
- Comparison: before and after





# No more future

- Satwas (satellite warning system)
- Network Centric Warfare (interventions, missions)
- Identification / planning of
  - Areas for incoming intervention teams
  - Hot spots to back up communication lines





# Transport of hazmat

- Tracing
- Leakage
- Keeping distance
- Guiding
- Stopping





# Flooding

- Weather
- Modelling
- Forecasting
- Triggering
  - Sluice
  - Barriers of retention areas







# Forest fire / emissions

- Identification of toxic substances (“mass spectrometers”)
- Extension calculation
- Forecasting





# Surveillance/observation of life lines

- Electricity
- Energy
  - Pipelines (oil, gas)
- Junctions in IT networks (facilities)
- Railroad
- Channels, rivers





Thank you for your attention !

