



# Nutzung von „EO“ Daten im Zivil- und Katastrophenschutz *Wien, 10.12.2012*

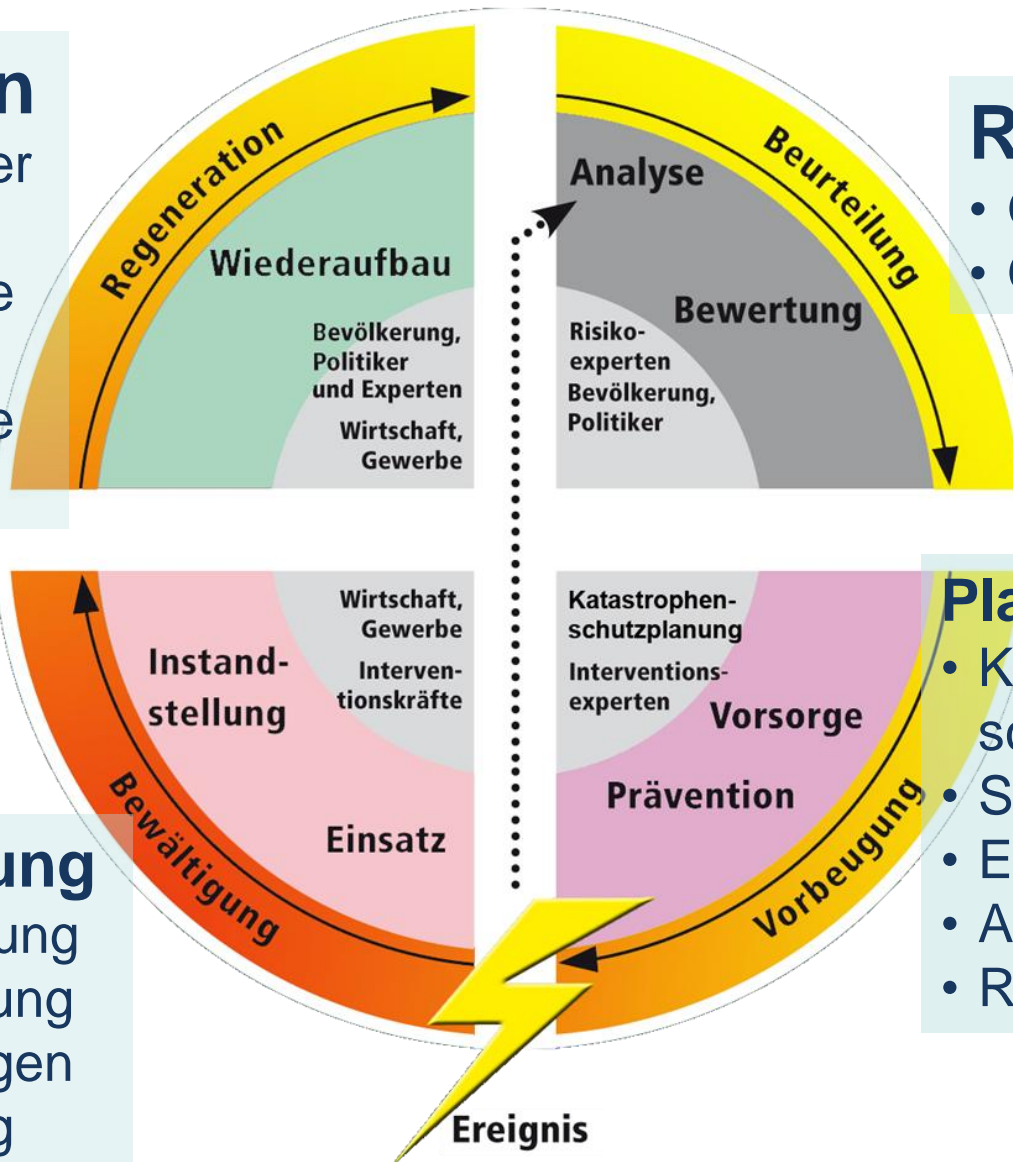
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# Modell eines zeitgemäßen Risiko -, Katastrophenschutzmanagements

## Evaluieren

=> verbesserter Wiederaufbau  
=> verbesserte Risikoanalyse  
=> verbesserte Planungen



## Risikoanalyse

- Gefahren erkennen
- Gefahren beurteilen

## Planung/Ausbildung

- Katastrophenschutzpläne
- Sonderalarmpläne
- Einsatzpläne
- Ausbildung, Übungen
- Risikokommunikation

## Einsatzführung

- Lagefeststellung
- Lagebeurteilung
- Entscheidungen
- Durchführung



# Warning/alarm centre Niederösterreich (NÖ) – Lower Austria



# organisation for „disaster situation“

## Command staff

### *command personnel*

#### Incident commander

- Officer in charge
- S1 - Personal planning
- S2 - Assessment of the situation
- S3 - Incident officer
- S4 - Logistic officer
- S5 – Press and information officer
- S6 - IT-Communication officer
- S7 – holistic care officer
- Auxiliary personnel





# organisation for „disaster situation“

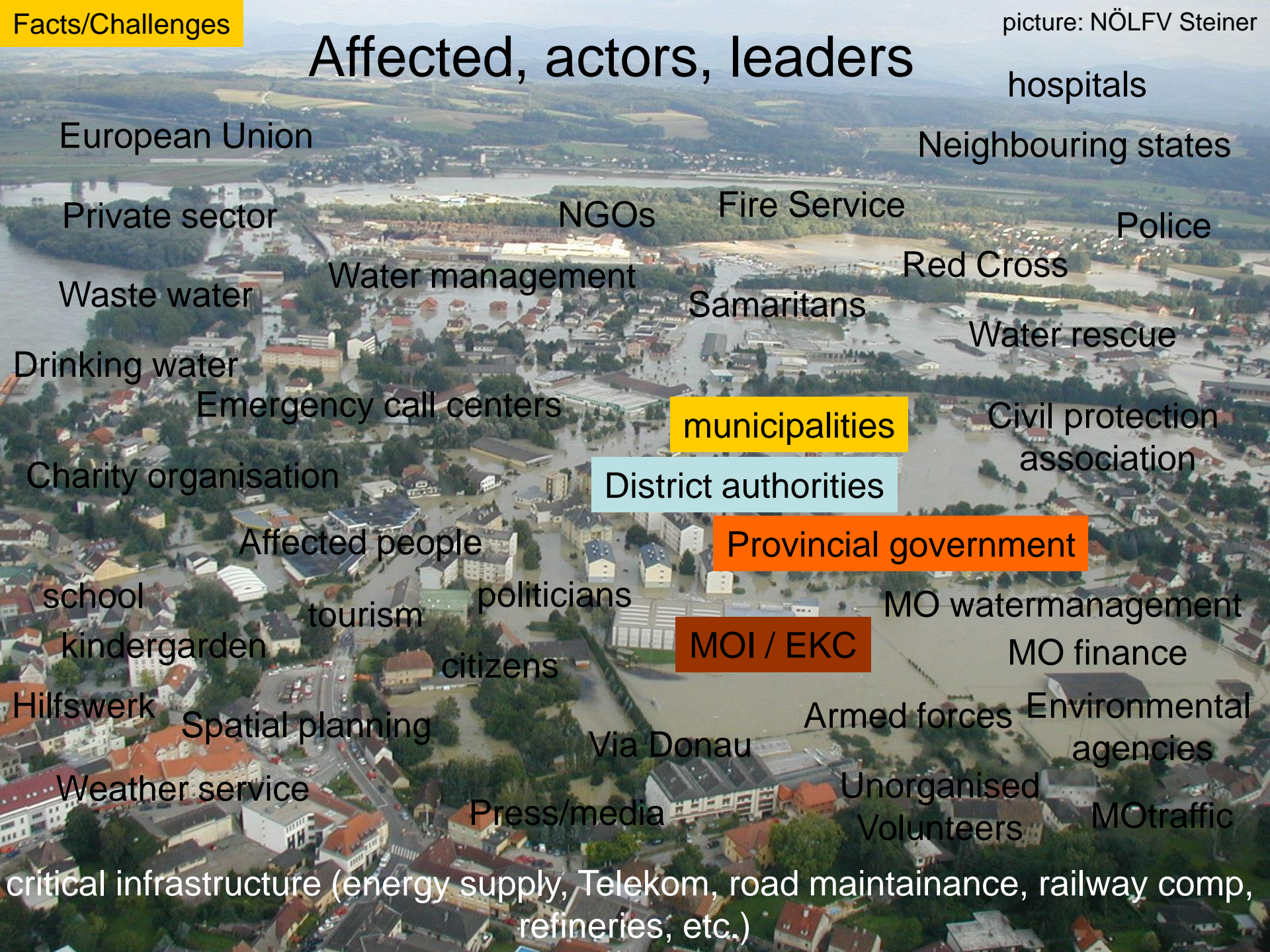
## Command staff *experts*

- Liaison officer of the fire brigade
- Liaison officer of the police
- Liaison officer of the Red Cross, Samaritans, mountain-, water- and cave rescue
- Liaison officer of Austrian armed Forces
- other experts as required (hydrologist, hydraulics, meteorologist, geologist, radiation expert, etc.)





# Affected, actors, leaders



European Union

hospitals  
Neighbouring states

Private sector

NGOs

Fire Service

Police

Waste water

Water management

Samaritans

Red Cross

Water rescue

Drinking water

Emergency call centers

municipalities

Civil protection  
association

Charity organisation

District authorities

Affected people

Provincial government

school

tourism

politicians

MO watermanagement

kindergarden

MOI / EKC

MO finance

citizens

Hilfswerk

Spatial planning

Via Donau

Armed forces

Environmental  
agencies

Weather service

Press/media

Unorganised  
Volunteers

MO traffic

critical infrastructure (energy supply, Telekom, road maintainance, railway comp,  
refineries, etc.)



# Disaster management = cooperation

**All together - Volunteer Fire fighters, special units of the Austrian armed forces, Red Cross, Police, etc.**



picture: ÖBH

Floods on the river March in April 2006, fire fighters and soldiers saving a dam

# **We are interested in...**

- **precipitation >30mm/12 or 24h (incl. snow)**
- **Wind >70km/h**
- **Extreme temperatures (heat, cold)**
- **storms with heavy rain/lightning**
- **Winter storms**
- **Hail, Ice**
- **Fire danger**
- **Earthquake datas**
- **Monitoring of mass movements**
- **etc.**



# What we use in daily work?

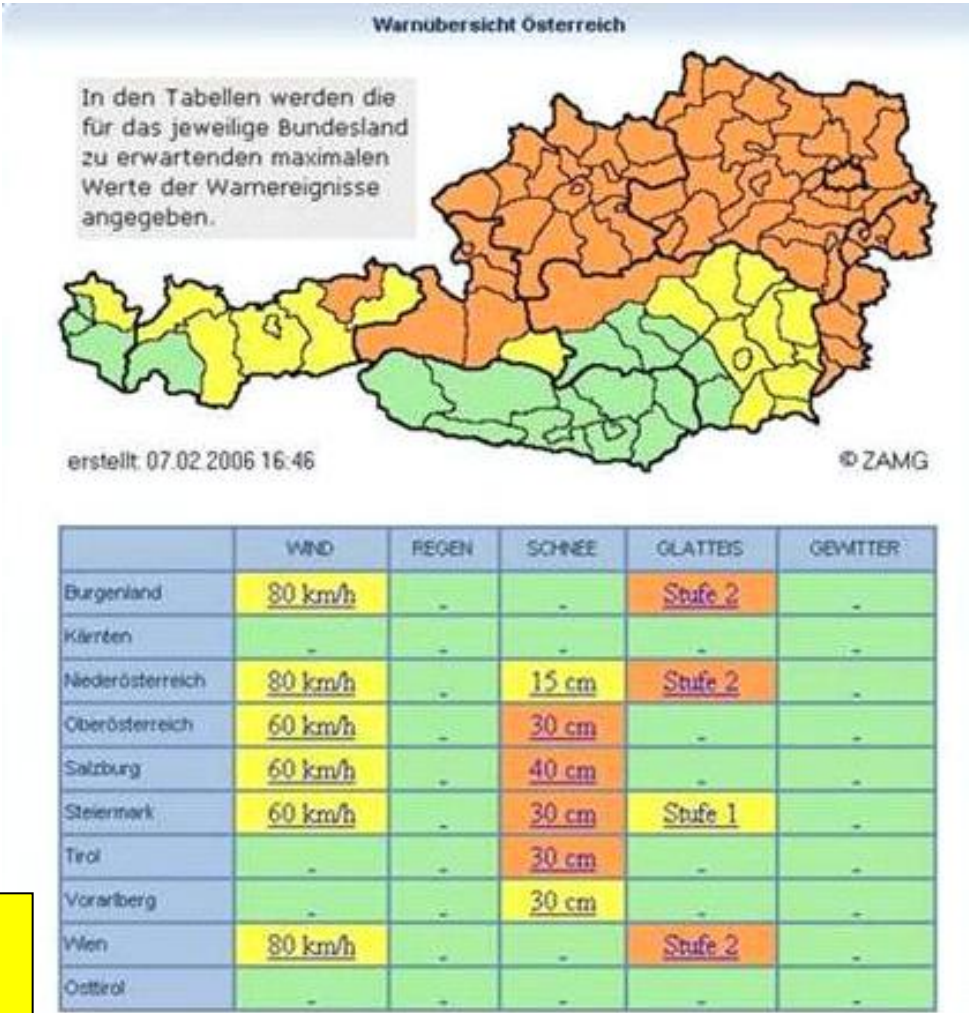
## Weather warnings

ZAMG  
National weather service

Automatic Warning

SMS/email

9 provincial warning centres in  
Austria



ZAMG – Warnings: <http://www.zamg.ac.at>



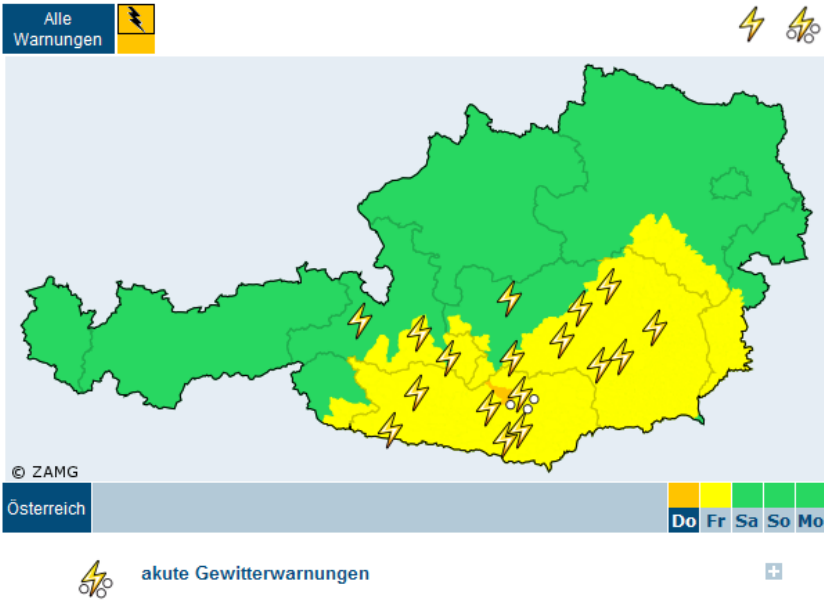
# Weather warning ZAMG

improved together with the disaster management authorities

Wetter / Wetterwarnungen

erstellt: Donnerstag, 03.05.2012 17:58

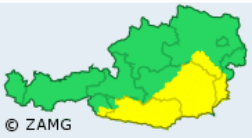
## Alle Warnungen - heute Donnerstag - Österreich



Alle Warnungen: Höchste Warnung je Bundesland

Alle Warnungen für Donnerstag im Tagesverlauf												
	00	03	06	09	12	15	18	21	24			
Burgenland												
Kärnten												
Niederösterreich												
Oberösterreich												
Salzburg												
Steiermark												
Tirol												
Vorarlberg												
Wien												

## morgen Freitag



## Zusätzliche Warnungen



## MeteoAlarm



## ZAMG TOOLS

5-Tage-Wetterwarnung  
der Link für Ihre Homepage

Wetterwarnungen  
für Ihr mobiles Endgerät

## Legende

- Wind
- Regen
- Schnee
- Glatteis
- Gewitter
- Hitzebelastung
- Kältestress
- Sonderwarnung
- Höhenwind
- Akute Gewitter
- Akute Gewitter mit

- Austrian overview for today
- Overview for tomorrow
- European overview
- 5 days Warning Forecast
- Highest Warning/region
- Visualisation on Timeline

public



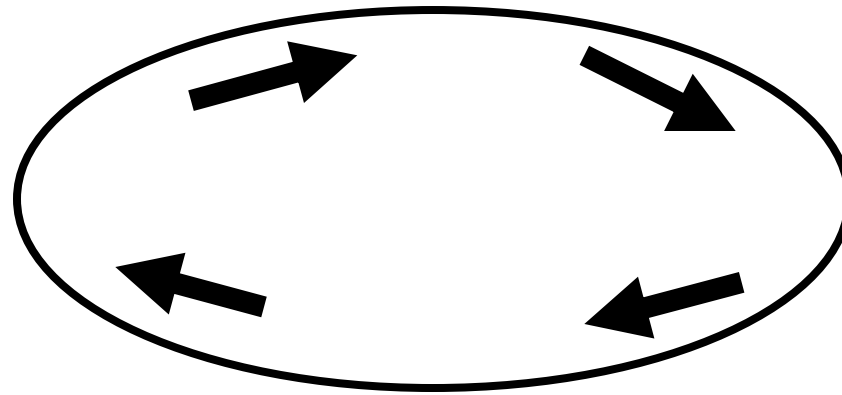


# How we work?

Permanent evaluation, assessment of

- actual situation (weather, behavior of the public)
- Damage,
- own resources

controlling



planning  
decision

commands, instructions

# WARNING and ALARM centre

## Assessment of the actual situation:

- Season (winter, summer): mass sport activities of the population
- Daytime (day, night)
- Traffic situation (rush hour, holidays, weekend, etc.)
- local risks like
  - actual events like fire, accidents, chemical accidents





# **WARNING and ALARM centre**

## **LOWER AUSTRIA**

### **Possible decisions**

- Intensive monitoring of the situation (permanent contact with the ZAMG – 24h forecast hotline)
- Internal personal planning
- Information to emergency services
- Information/Warning the public
- Evacuation measures
- special orders to the public

# Warning of the public (2.400 sirens)



**Who knows the signals???**  
preventive information till „vomiting“





# **Requirements to monitoring systems in disaster management**

- **Rapid data availability in case of emergency**
- **Simple visualisation of dangers (red, yellow, green)**
- **Determination of possible thresholds (event starters)**
- **Transmission security/redundancy**
- **Trainings and simulation systems for realistic exercises**

# Summary/ideas

- Huge amount of datas available
- Need of intensive trainings for different target groups (mayors, fire chiefs, police, experts, dispatchers, staff members, etc....)
- no training possibility with real time systems
- Too weak servers, less redundancies
- Quality management???
- No standardized event documentation!
- Event over → mostly forgotten
- First steps in collaboration between national weather service and disaster management authorities
  - e.g. EU cofinanced project „INCA central Europe“ for better warnings

# Best practice

- KIRAS – nationales Sicherheitsforschungsprogramm für Österreich
- 7. EU frame work
- GMES – ERS
- ASAP – ESA

