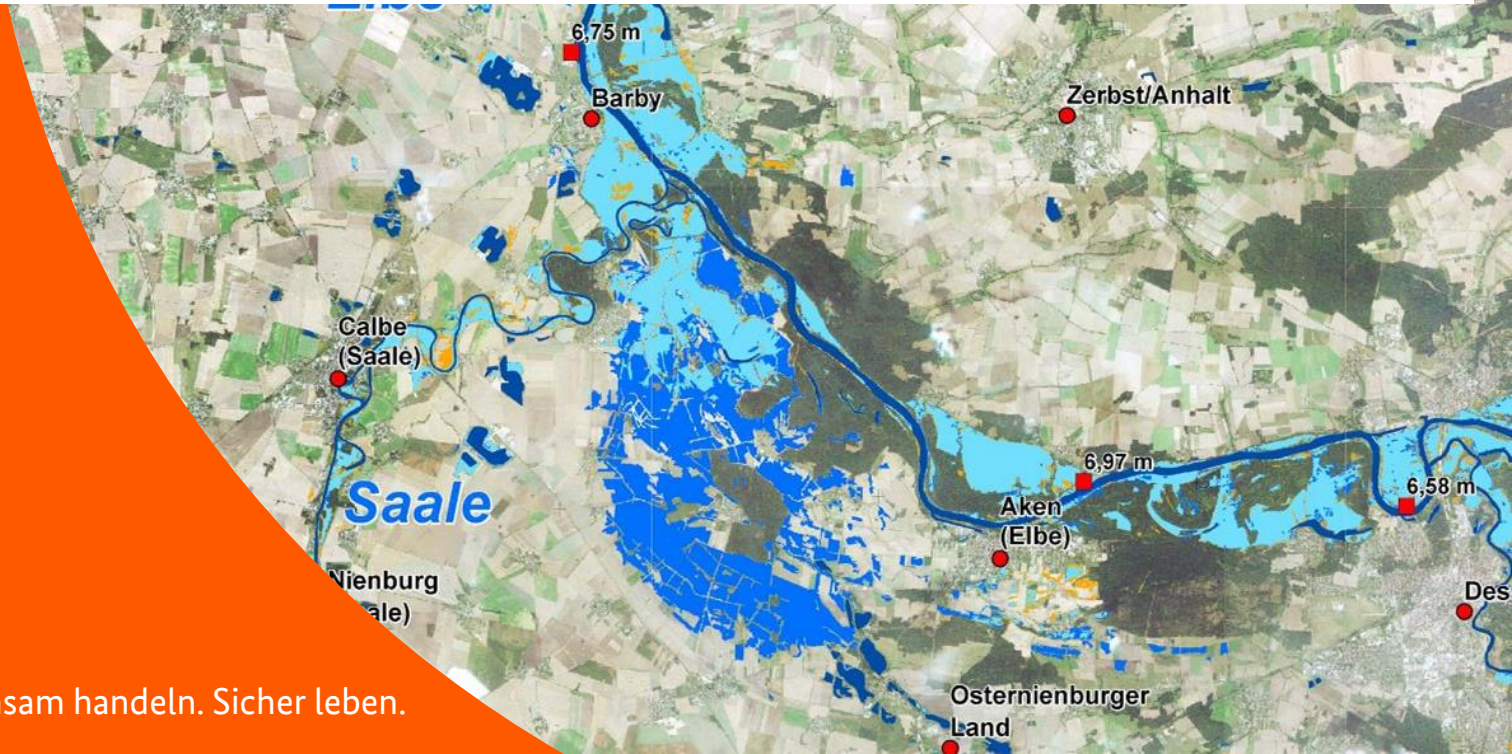




Bundesamt
für Bevölkerungsschutz
und Katastrophenhilfe

Information support at national level

Perspective of the BBK

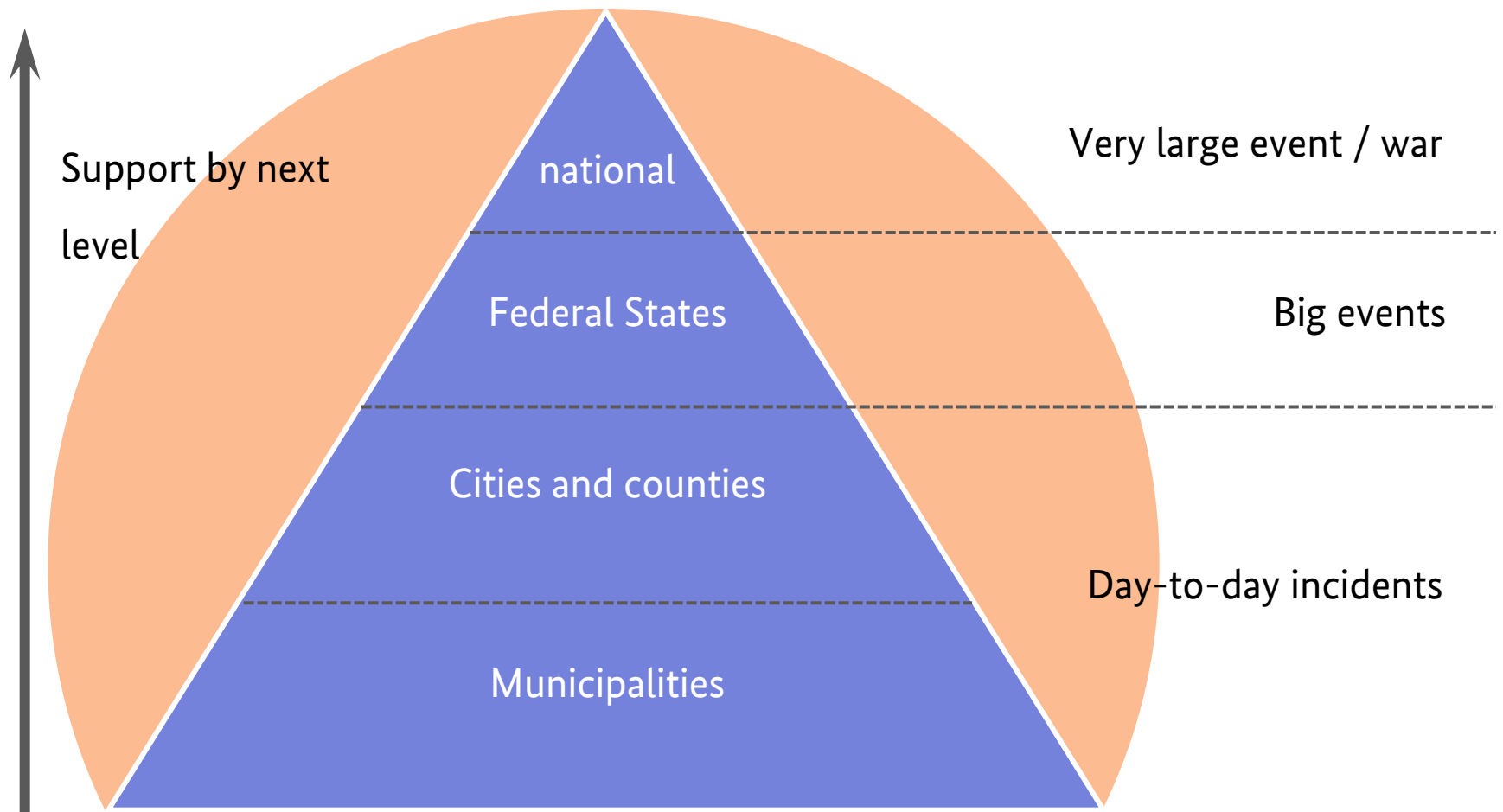


BBK. Gemeinsam handeln. Sicher leben.

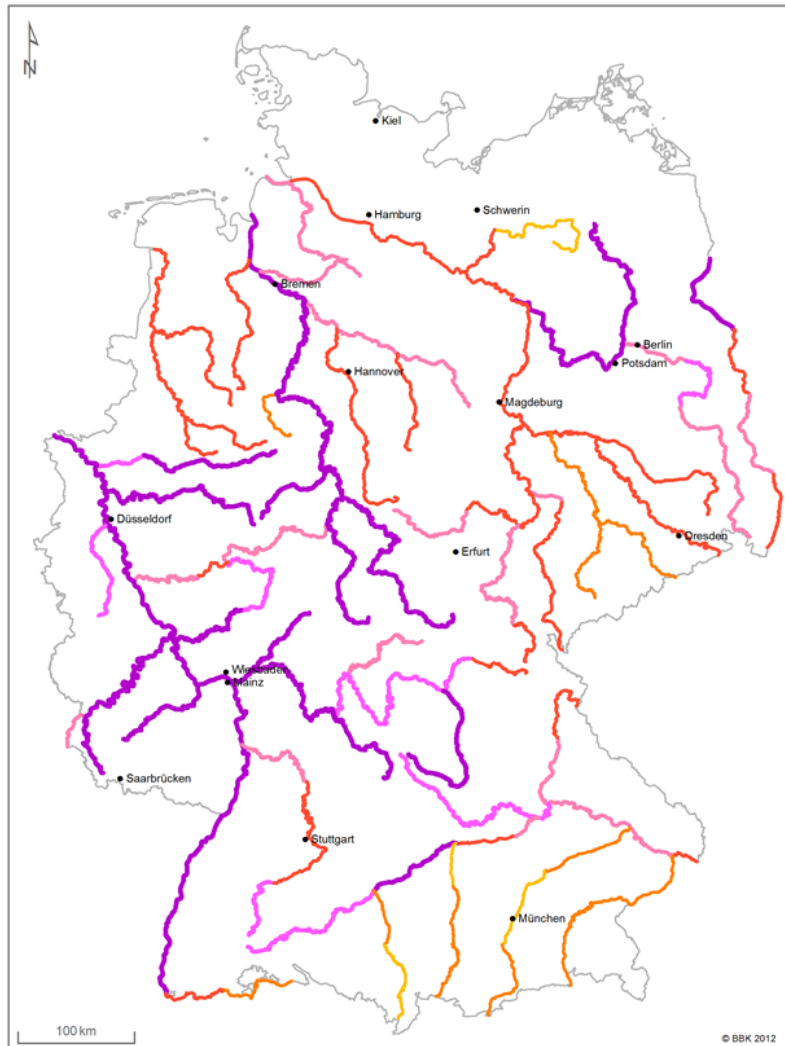
Agenda

- Civil protection in Germany
- Risk analysis
- Response to the flood 2013
- Lessons learned

Civil protection in Germany



Support with GIS - example



Risk analysis

„Extreme flood caused by snow melt“ (2012)

Klassen der HQ-Scheitelwerte:

- | | |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|  bis HQ 2 |  bis HQ 100 |
|  bis HQ 10 |  bis HQ 200 |
|  bis HQ 50 |  > HQ 200 |

Datenbasis:

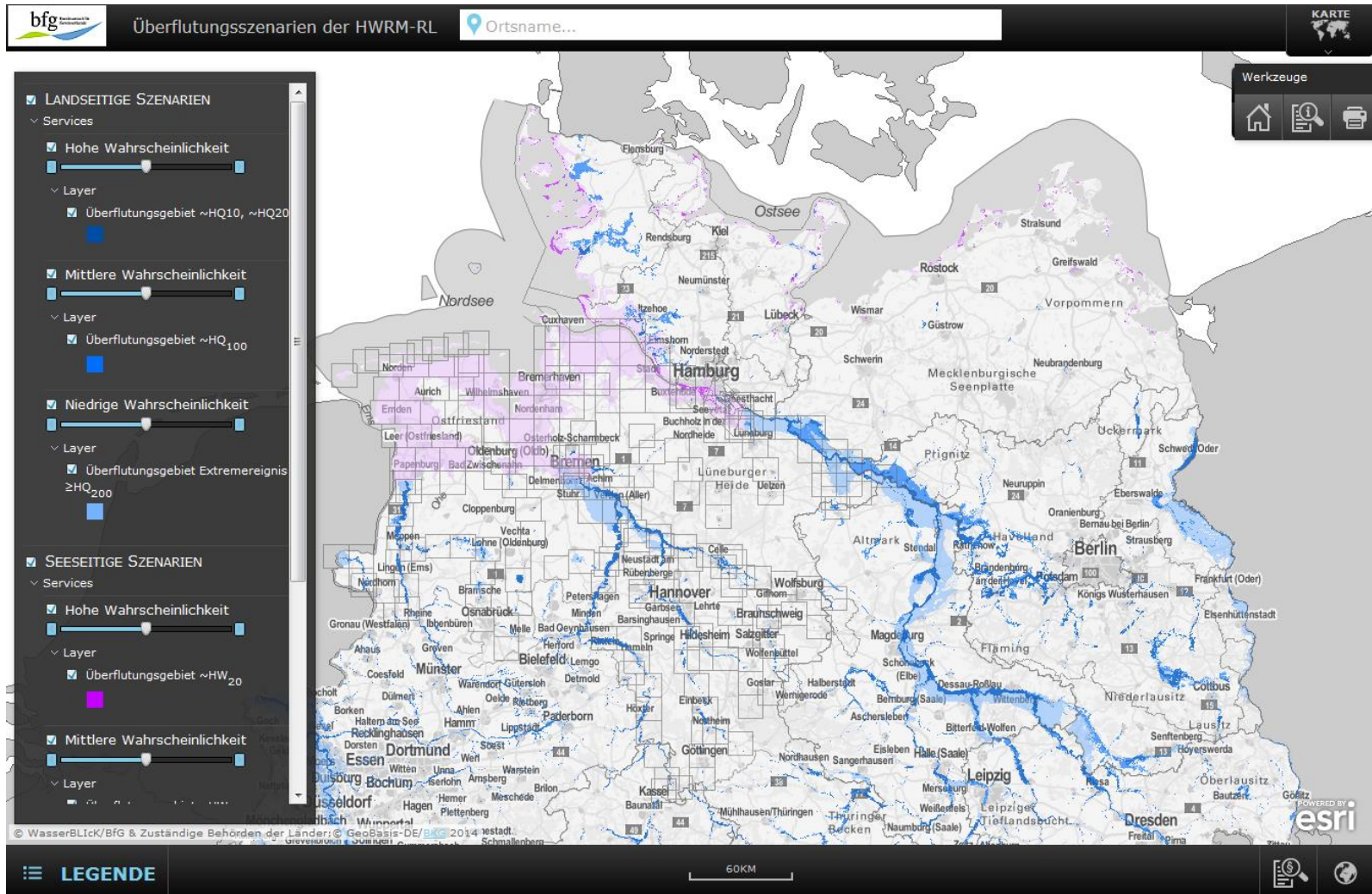
Hydrologische Daten: Bundesanstalt für Gewässerkunde (2012)

Hydrologischer Atlas von Deutschland (2003)

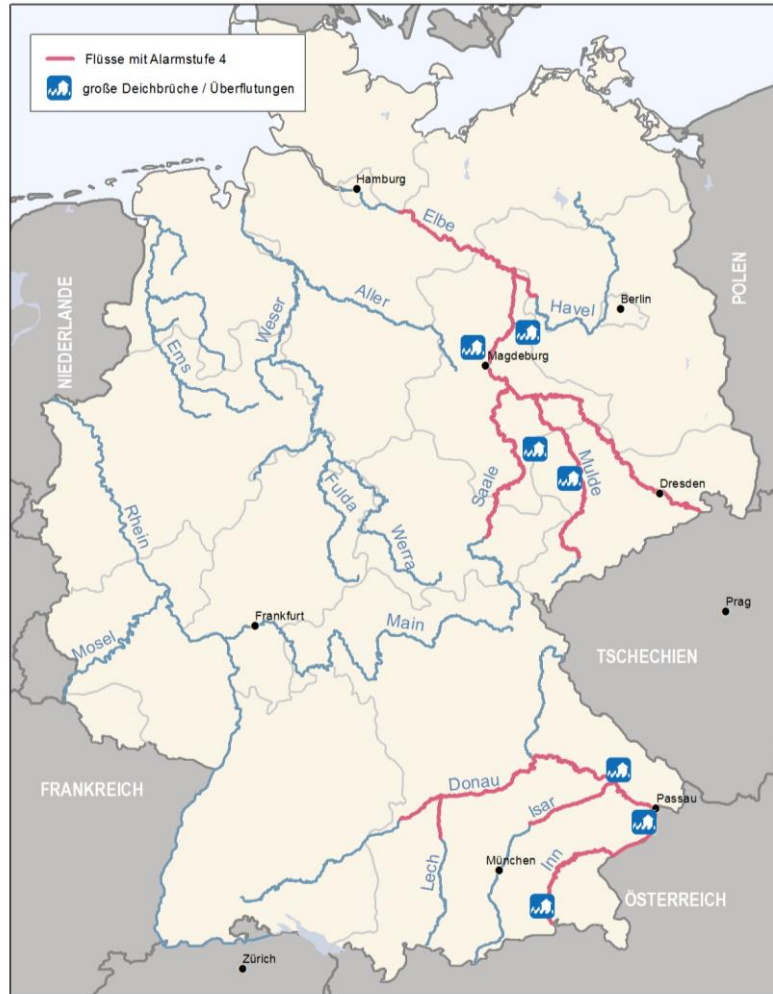
© GeoBasis-DE / BKG (2009)

Flood risk analysis by federal states – complete coverage for Germany

<http://geoportal.bfmg.de/mapapps/resources/apps/HWRMRL-DE/index.html?lang=de>



Floods in Germany June 2013



National level → big picture!

Joint Information and Situation Centre



Information management

- **Situation assessment**
 > 4000 e-mails, > 700 situation reports, request for remote sensing imagery, ...
- **situational awareness**
 47 situation reports, special reports for Ministry and Chancellor,...
- **Documentation und analysis**

LAGEMELDUNG Nr. 47
 des Gemeinsamen Melde- und Lagezentrums von Bund und Ländern (GMLZ)
 zur Hochwasserlage in Deutschland
 Datum: 10.12.2014 10:00:00
 Nummer: 101/14

Hochwasserlage Niedersachsen (NI)
 NIEDERSACHSEN
 Koll-Fall in 2 Gebietskörperschaften (LH Lichow-Dannewitz, Lüneburg):
 - Erfassung Deiche / Rückbauzeitung Pegel-Durch-Deichbrüche = Fällung des Flaveldecker Neuenwerben (BB) = Vorwarnlage gestärkt sich schwierig
 - Höhe der Deiche „müsste reichen“ - Problem: hoher Pegel wird Tage anhalten
 - Einsatzbereich: Landkreise Lüneburg-Dannewitz und Lüneburg im Bereich Elbe/Deiche (LH Lüneburg) und Penkefz (LH Lichow-Dannewitz) Sickerstellen und Durchweichungen der Dämme
 - Sperrung Dämmen Brücke am 11.12.2014 aufgehoben
 - 6.854 Einsatzkräfte (= 800)
 Stand: 10.12.2014

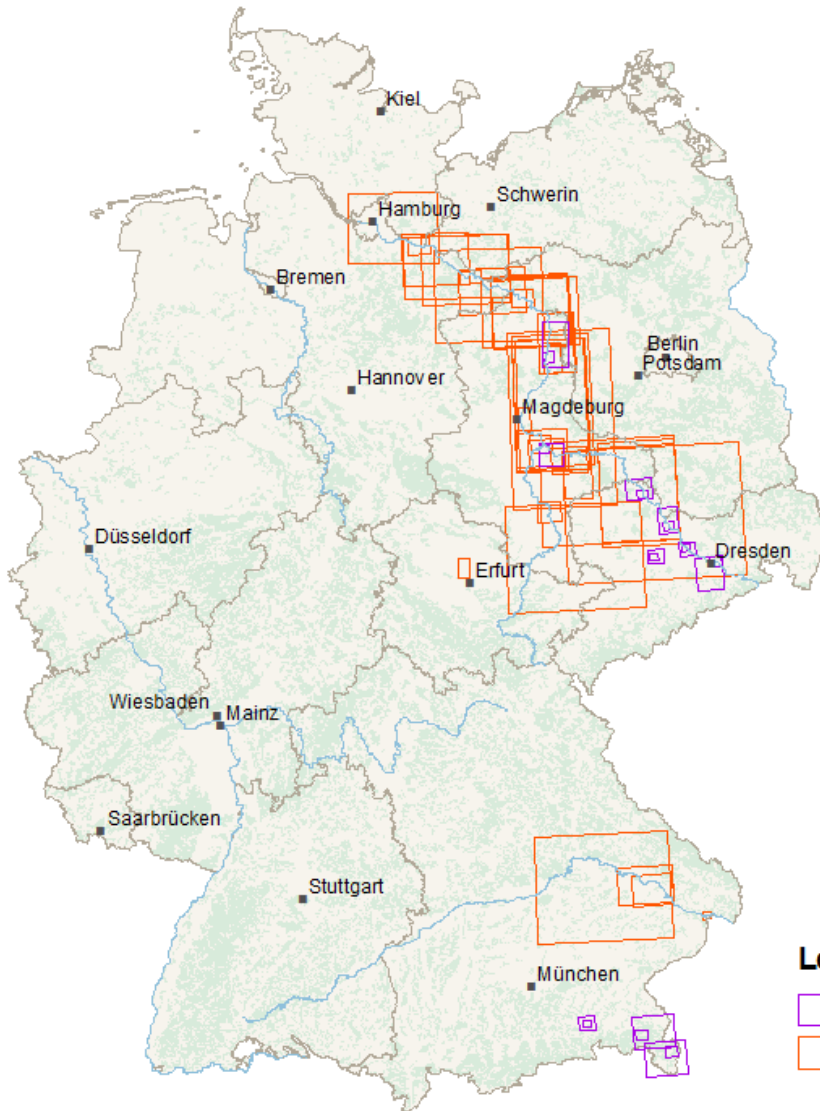
Koordinierung
 Bundeswehr
 ASB
 Deutsches Rotes Kreuz
 DIE JOHANNITER
 Malteser
 WSV.de
 BUNDESWEHR
 Start: 01.12.2014
 Abteilung I

Supporting management of resources

- **43 requests of federal states. Procurement of:**
 - ~5.600 rescue personnel,
 - > 5 Mio sand bags
 - **Special resources** (high capacity pumps, special equipment,...)
 - **Transport capacity** for ~1.000 metric tons of goods





Regions captured by satellites

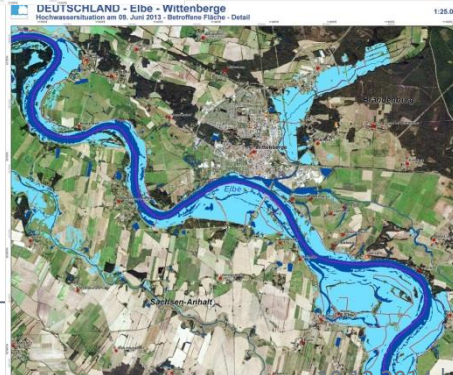
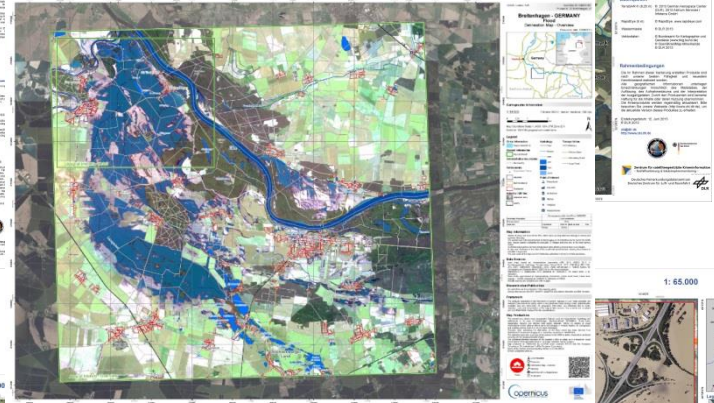
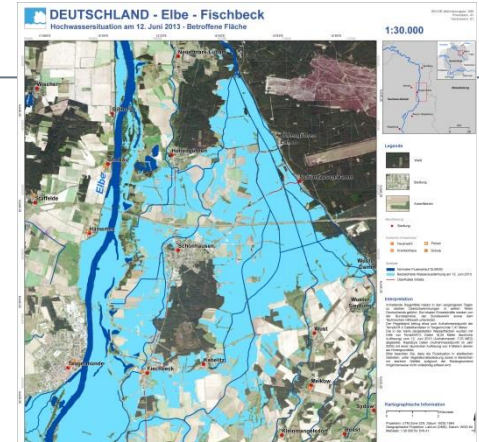
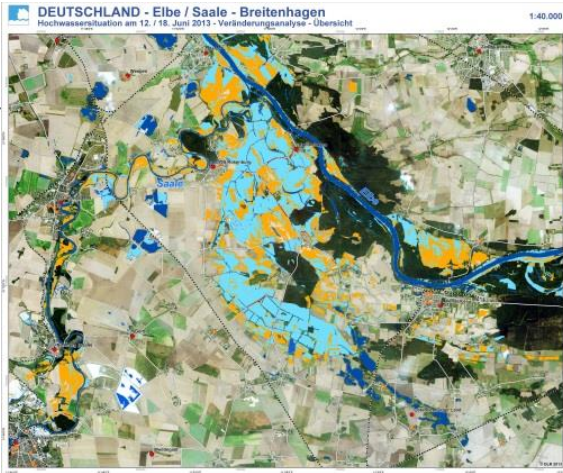


ZKI Service für Bundesbehörden (ZKI-DE)
Analyseprodukte zur Unterstützung des
Notfallmanagements

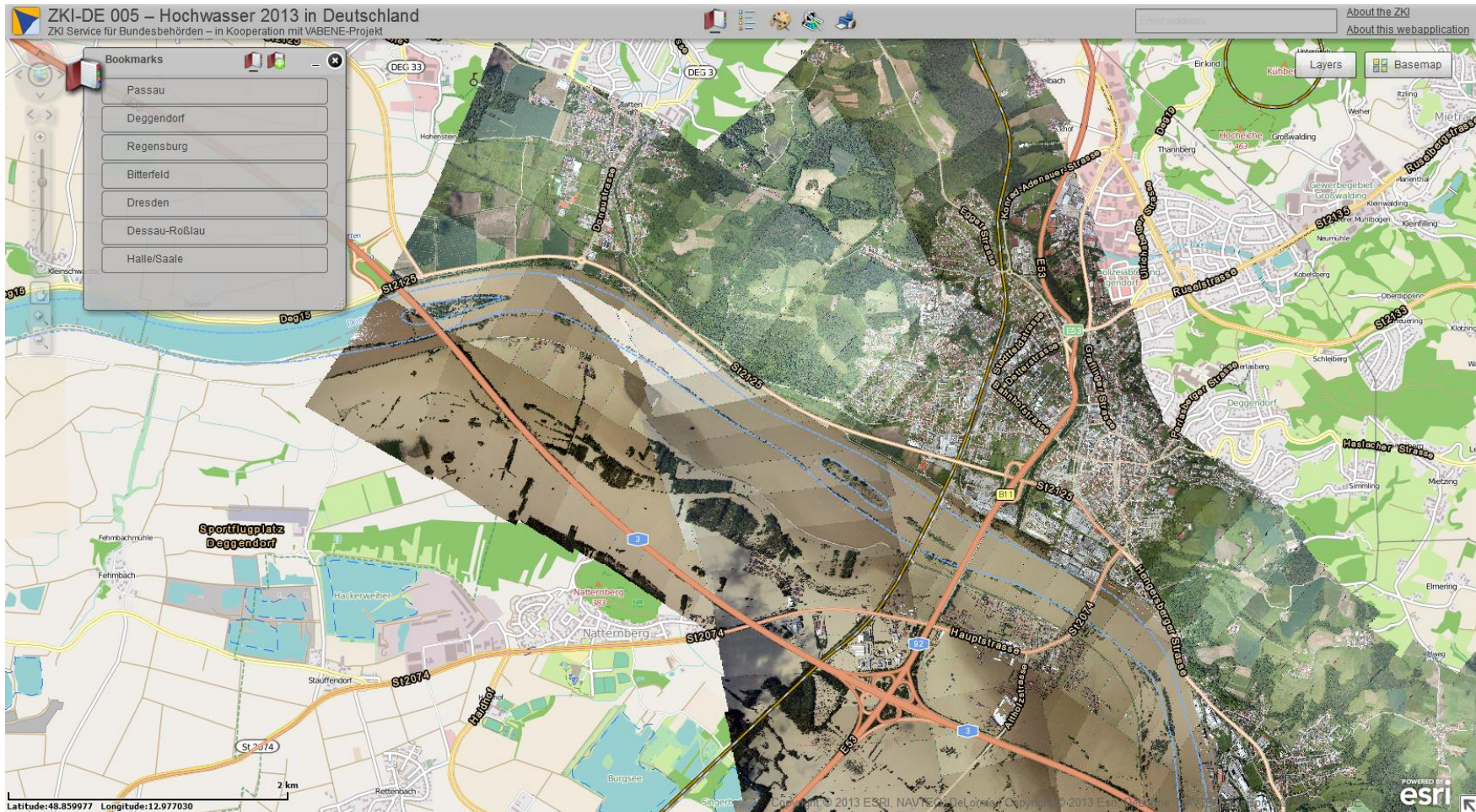
⇒ In total about 51.000 km²
⇒ ca. 70 products distributed

Legende

-  COPERNICUS-EMS
-  ZKI-DE Service



Aerial imagery by German aerospace centre



Remote sensing products have been used for

- Situation reports
- Documentation
- Flood protection counselling
- Calibration of models
- Analysis of affected areas / infrastructures
 - agricultural area
 - monuments
 - land property
 - claim for compensations
 -

Lessons learned – spatial information

- Who has what kind of data?
 - ⇒ facilitator for crisis information
- What can be done with geo information?
 - ⇒ facilitator for geo information
- Preparation is of utmost importance !



Lessons learned – general

- Need for information exchange standard
- Need of a commitment of regional and local level to provide standardised information
- Communication to the public is key (because they are affected!)
- Mediation of conflicting interests



Thank you for your attention!

Contact

Dr. Michael Judex

Federal Office of Civil Protection and Disaster Assistance

Division I.1: Crisis management – principles and IT-processes

Provinzialstr. 93

53127 Bonn

Tel.: ++49/(0) 228/99 550 – 25 02

Mail: michael.judex (at) bbk.bund.de

