

# Disaster management in German local governments

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# Henning Schulz

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- since 11/2020: Freelancer
- 2015-2020: full-time Mayor, City of Gütersloh, Germany
- 2013 -2015: Head of the Departement of Urban Design, Building & Mobility, City of Gütersloh
- Work experience in various public administrations and Architect's offices (Berlin, Brussels, Peine)
- studied architecture in Hannover and London
- Training as a bricklayer, Grammar School





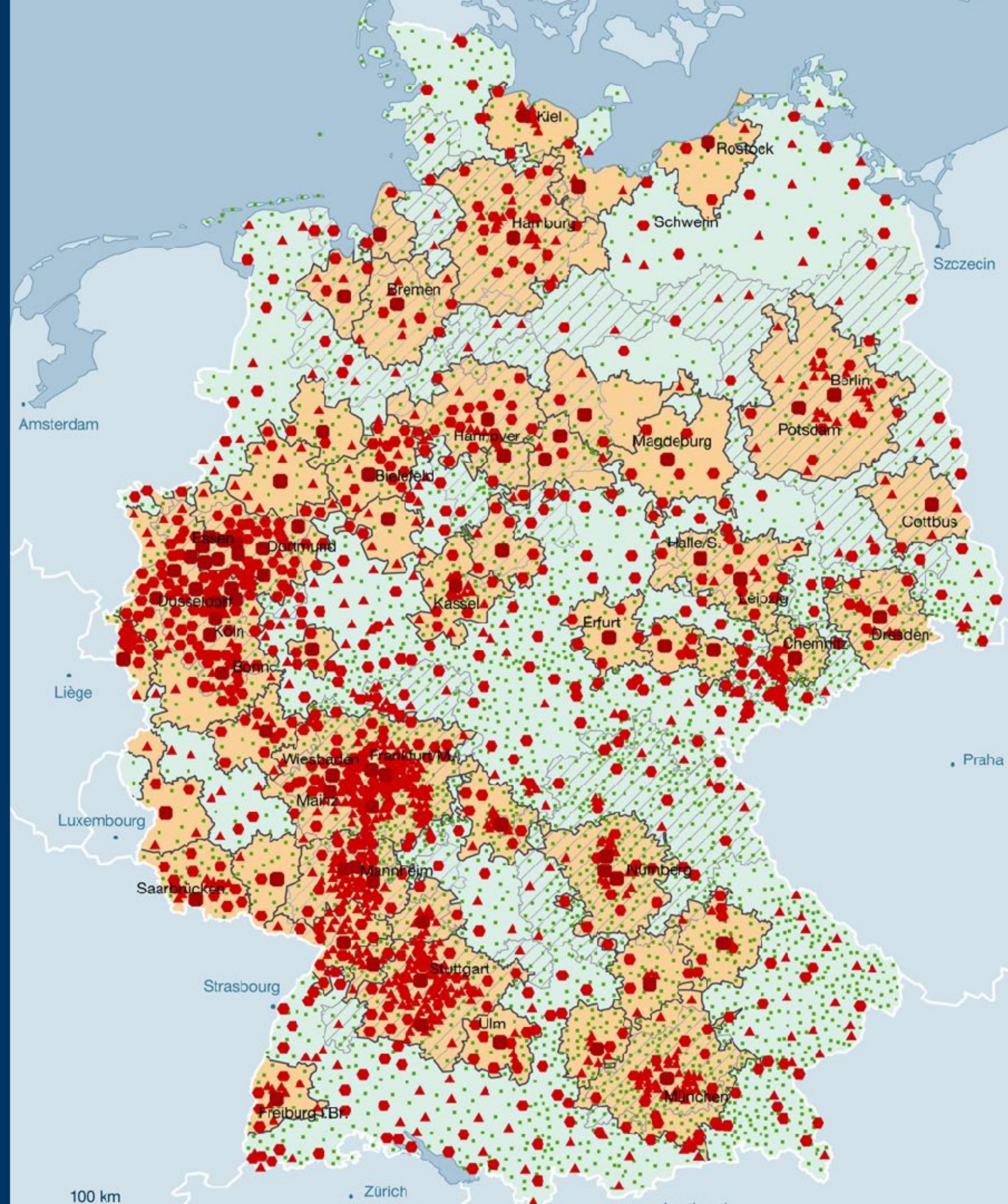
**Disasters can be triggered and cause considerable damage in particular by**

- natural events,**
- technical and/or human failure,**
- deliberate acts with a terrorist or other criminal background,**
- wars**



## Disaster Management - Responsibility in Germany's federal system (2):

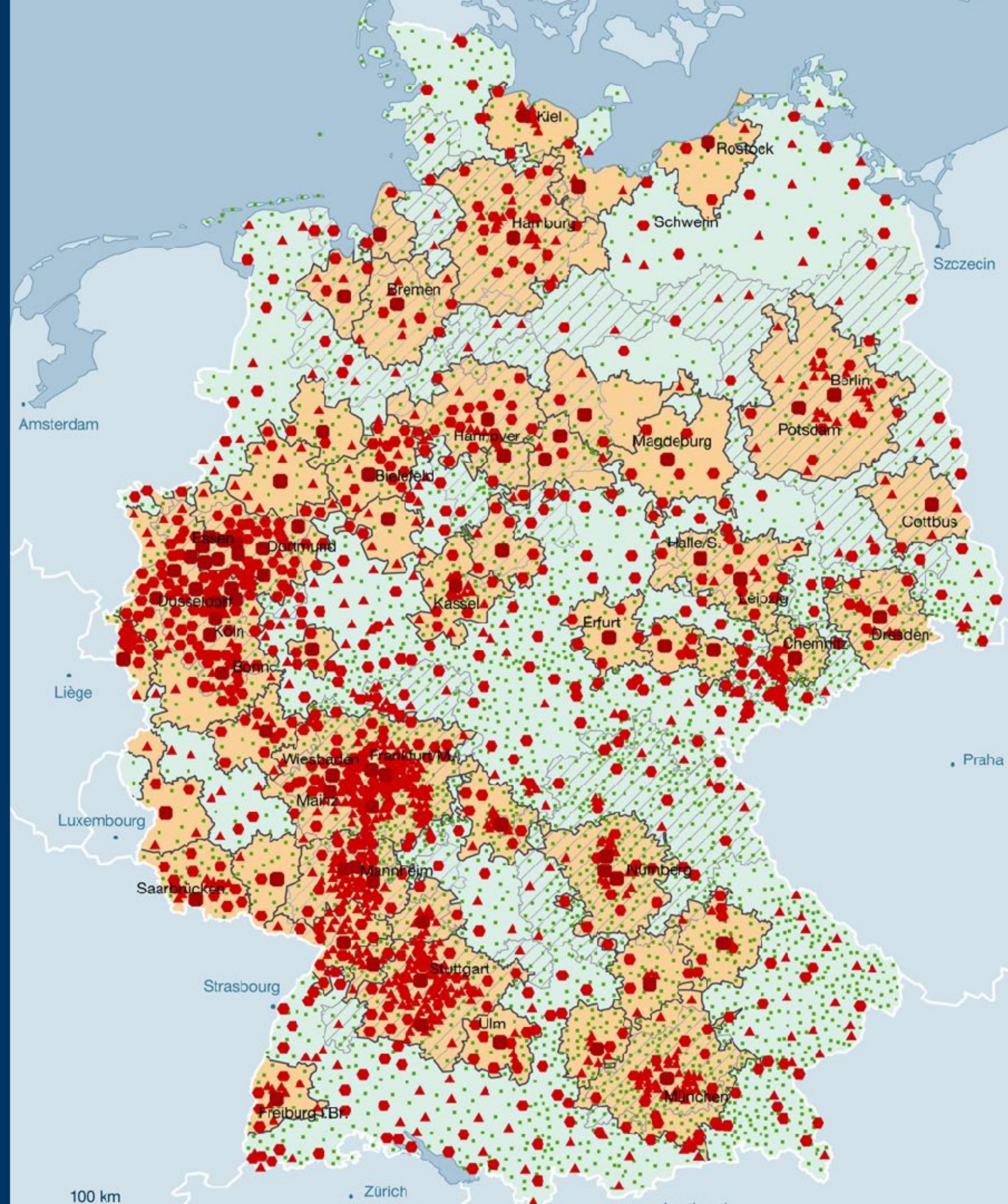
- in Germany there are approx. 11.100 municipalities, cities & districts
- only the independent (bigger) cities & districts (approx. 400) are responsible and legally obliged to maintain a crisis team and to provide civil protection for disaster management and are thus also responsible for drawing up plans for major emergencies and disasters. They determine the disaster situation and are responsible for directing the defence measures, including responsibility for the deployment of forces and the operation of a control centre.
- evident that all municipalities are challenged by different events in the area of hazard prevention.





## Disaster Management - Responsibility in Germany's federal system (2):

- for the other approx. 10.700 municipalities & cities the Municipal hazard prevention planning is a voluntary task
- However, not only with regard to the Corona pandemic, but also in retrospect of past events (heavy rain, floods, heat & drought, ...), it is evident that all municipalities are challenged by different events in the area of hazard prevention.





## **Desaster Management - Responsibility in Germany's federal system (3):**

**- Whether there is a legal obligation or not:**

**It is part of the self-evident tasks of every city administration as a body responsible for danger prevention to ensure the protection of the population, its supply as well as the maintenance of security & order and the administrative functions even under difficult circumstances.**

**- For this reason, most municipalities - even small ones - have set up so-called "staffs for extraordinary events (SAE)": Permanent members of the staff include representatives of the police, the fire brigade and the public order office.**

**If necessary, other functions and organisations supplement the staff work depending on the situation.**

**- The situations and threats are as diverse as the number of municipalities - for this reason, it only makes sense if individual solutions are developed locally in the municipality.**



## **What is the reality in the municipality?**

**- Results of the survey from KOMMUNAL magazine (end of March 2020)**

**Only a few municipalities have comprehensive emergency response planning - Example: Pandemic plans**

**- Only 20 % of municipalities in Germany have prepared plans for epidemic**

**- Of these 20 %, in turn, the plans are largely applicable in only 24 % of cases.**

**- As a result, around 5 % of the municipalities were able to fall back on "applicable" pandemic plans.**

**-Accordingly, there seems to be a lack not only of quantity but also of quality of plans in terms of applicability**



## **What is the reality in the municipality?**

### **- Results of the survey from KOMMUNAL magazine (end of March 2020)**

- 78 % of the participating municipalities have drawn up regulations for the most important aspects of a crisis team.**
- 59 % of the municipalities have drawn up plans for specific crises and major incidents.**
- 50 % of the municipalities have made plans for extreme weather**
- 64 per cent of the participating municipalities have made arrangements to ensure important functions (However, these are concentrated on the fire brigade (51 %) and the rescue service (33 %)).**
- For other functions, such as childcare, on the other hand, arrangements were made in only 10 % of the participating municipalities. The cascading effects of a childcare breakdown were evident at the beginning of the Corona pandemic.**



Einrichtungsintern In-house

External Extern

**Krisenstab** Crisis team

**Krisenstabsleiter**

Crisis management team leader

**Kernteam**  
Core team

Technical advisor  
Fachberater

**Erweiterter Krisenstab**  
extended crisis team



Informationen,  
Meldungen

Information,  
messages

**Externe Stellen**  
(beispielsweise Behörden  
der Gefahrenabwehr,  
Katastrophenschutz),  
Kunden, Presse

External bodies  
(emergency  
response  
authorities,  
disaster control,  
customers,  
press,...)

Information,  
requests

Informationen,  
Anfragen



Personal-  
wesen

Situation/  
Lage

Aufträge/  
Einsatz

Versorgung der  
Mitarbeiter

Presse- und  
Medienarbeit

IT und KT

Einrichtungs-  
spezifische  
Aufgaben

Human  
Resources

Situation,  
location

Orders,  
deployment

Supply of  
the staff

Press and  
media relation

Information and  
telecommunication  
technology

Facility-  
specific  
tasks

Meldungen, Anweisungen  
Messages, instructions



Meldungen  
Messages



Departement.....

Abteilung A

Abteilung B

Abteilung C

Abteilung D

...

...

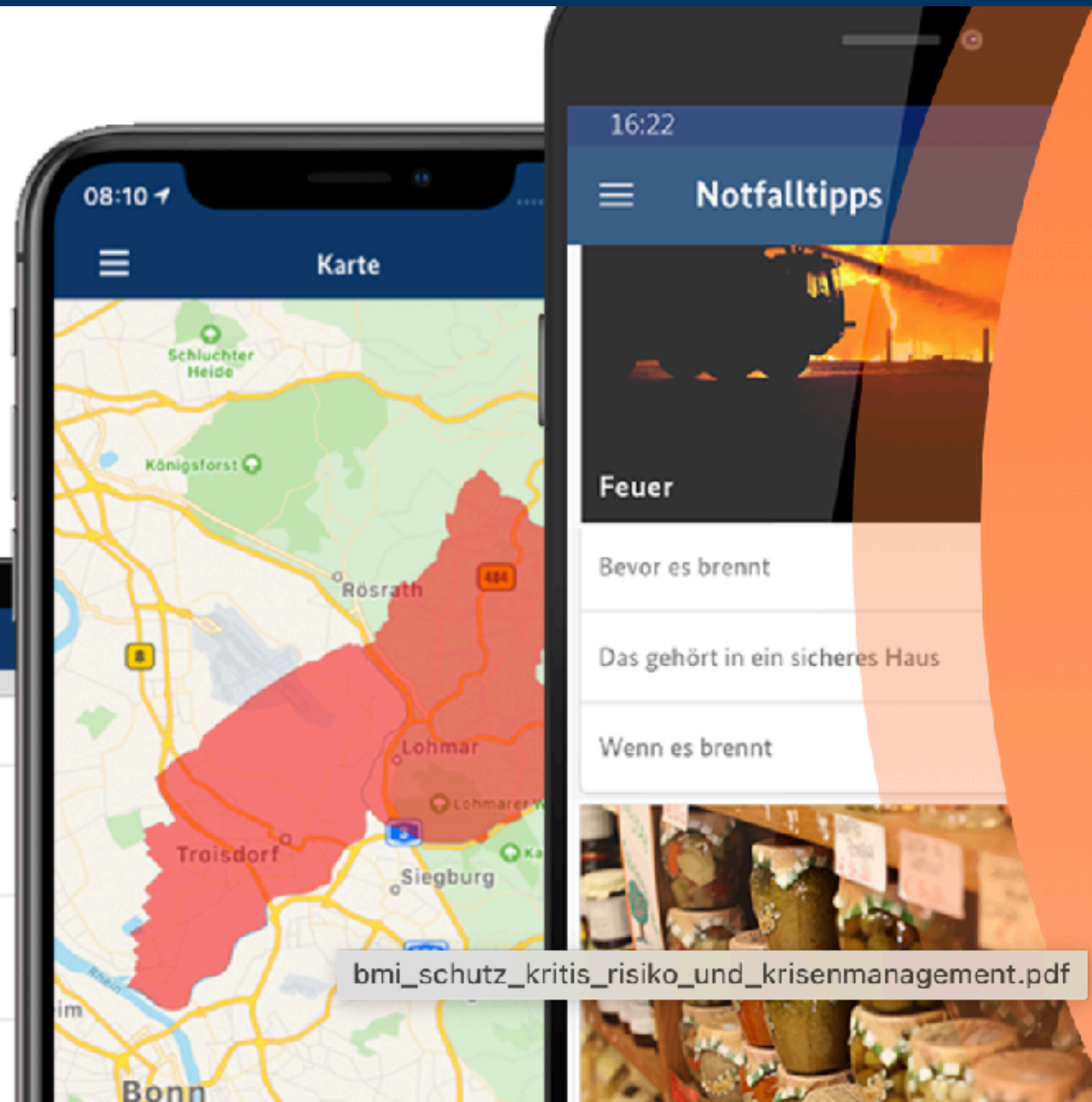
Abteilung N

Important (my experience): Centrally organised crisis team, but technical responsibility decentralised in the departments with clear assignment of personnel.





Bundesamt  
für Bevölkerungsschutz  
und Katastrophenhilfe



## Warn-App NINA

Sirene für die Tasche: Empfangen Sie Gefahrenmeldungen Ihrer Feuerwehr, Polizei und Katastrophenschutzbehörde direkt auf Ihr Smartphone – abgestimmt auf Ihren Standort.

**MEHR ÜBER DIE APP ERFAHREN**

[https://www.bbk.bund.de/DE/Themen/Risikomanagement/risikomanagement\\_node.html](https://www.bbk.bund.de/DE/Themen/Risikomanagement/risikomanagement_node.html)



## **Technical support for the municipalities from the Federal Office of Civil Protection and Disaster Assistance (Bundesamt für Bevölkerungsschutz und Katastrophenhilfe)**

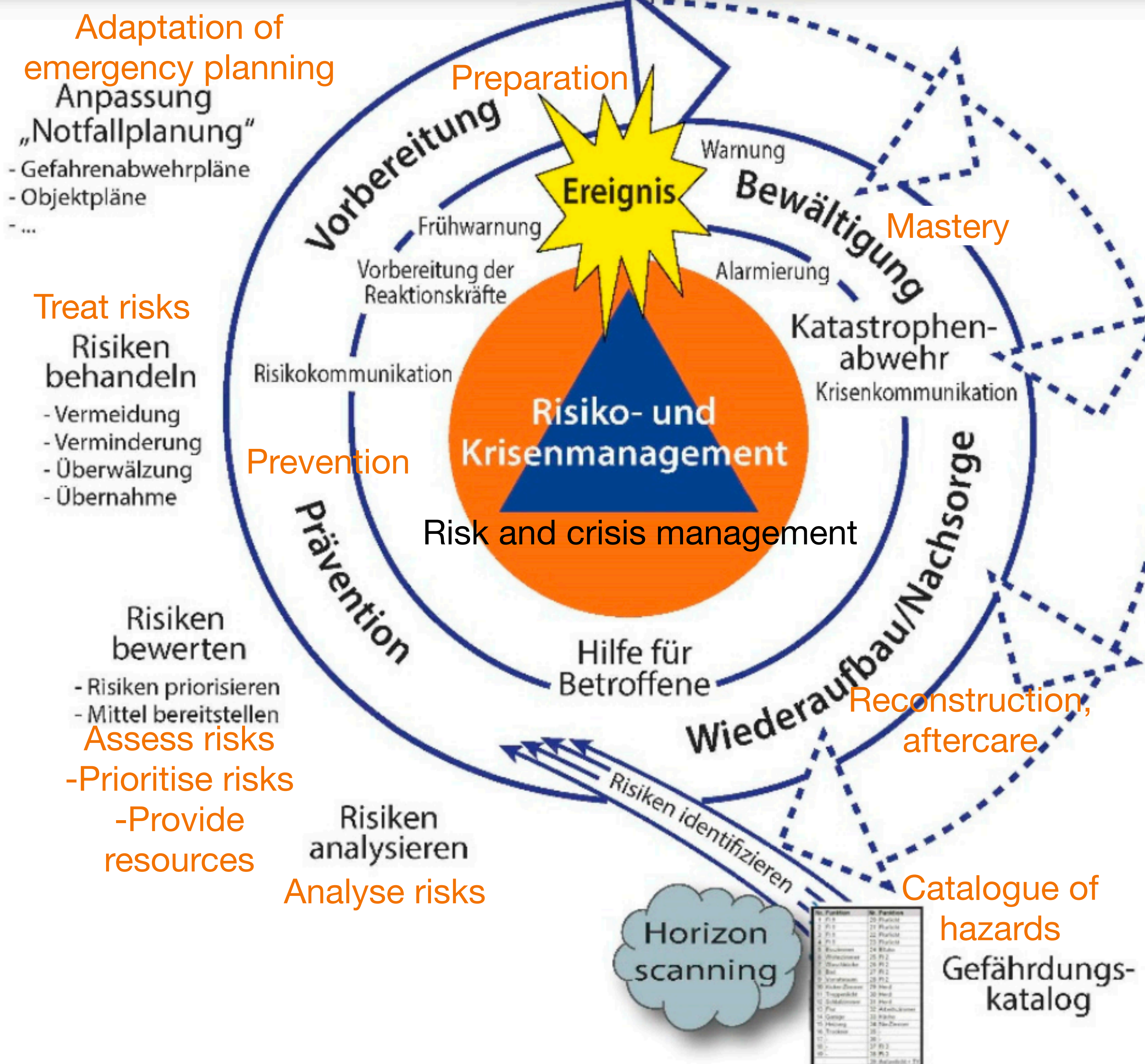
- The Federal Office recommends that all municipalities and operators of critical infrastructures - whether private sector or public authorities - create internal organisational and procedural structures for the event of a crisis.**
- This includes, for example, the establishment of crisis teams or the description of information and reporting channels in the event of an incident.**
- Such organisational structures should enable institutions to act autonomously and as independently as possible in a crisis.**
- However, in order to be able to react not only in a crisis, but also to minimise risks in advance, structures for risk management are equally important.**
- The responsible persons should be clearly named and equipped with the necessary powers.**



# Integrated risk management

In order to adapt civil protection capabilities and resources to the threat, continuous and systematic risk management is required.

- Analysis and assessment of potential risks.
- Planning and implementation of measures to avoid and minimise risks.
- Goal: Promote networking and cooperation between governmental and non-governmental actors at different levels and interlink them more closely.
- Result: Integrated risk management as a basis for more effective and efficient management of extraordinary events.





## **Start with integrated risk management before the crisis situation occurs....**

- The special feature of integrated crisis management is the cross-level and cross-departmental cooperation between the different actors.**
- It brings all those who are responsible together at a "round table" and enables a structured exchange among them. Based on the findings, measures are then developed and emergency plans are adapted.**
- The continuous exchange in Integrated Risk Management promotes the understanding of structures and responsibilities and enables all those involved to get a picture of each other's resources and capabilities.**



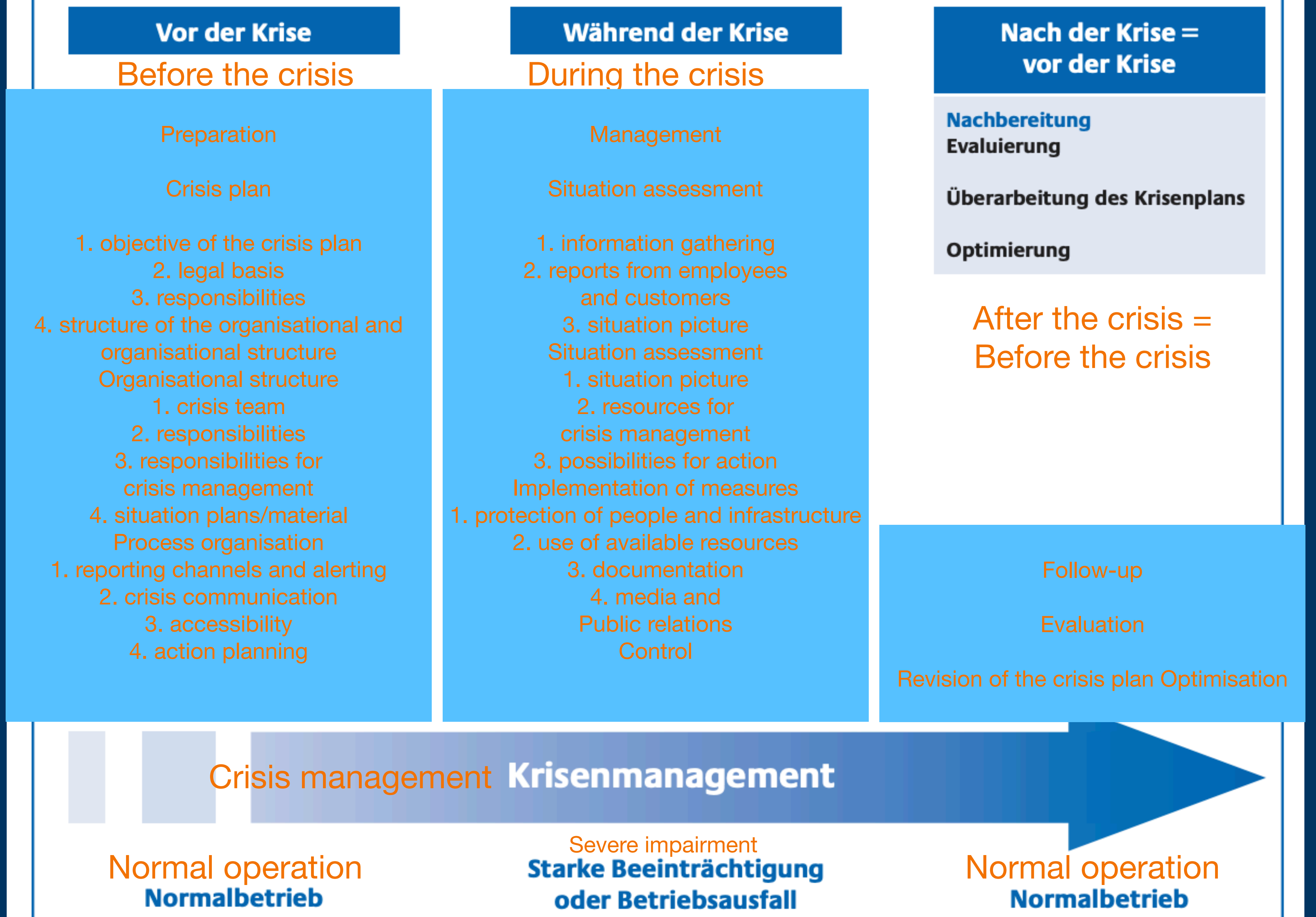
**Conduct simulation games!!!**

**If a person visualises a situation/  
crisis scenario in advance, he or she  
makes 17 times fewer mistakes in  
the event of this situation occurring.**



# Components of crisis management

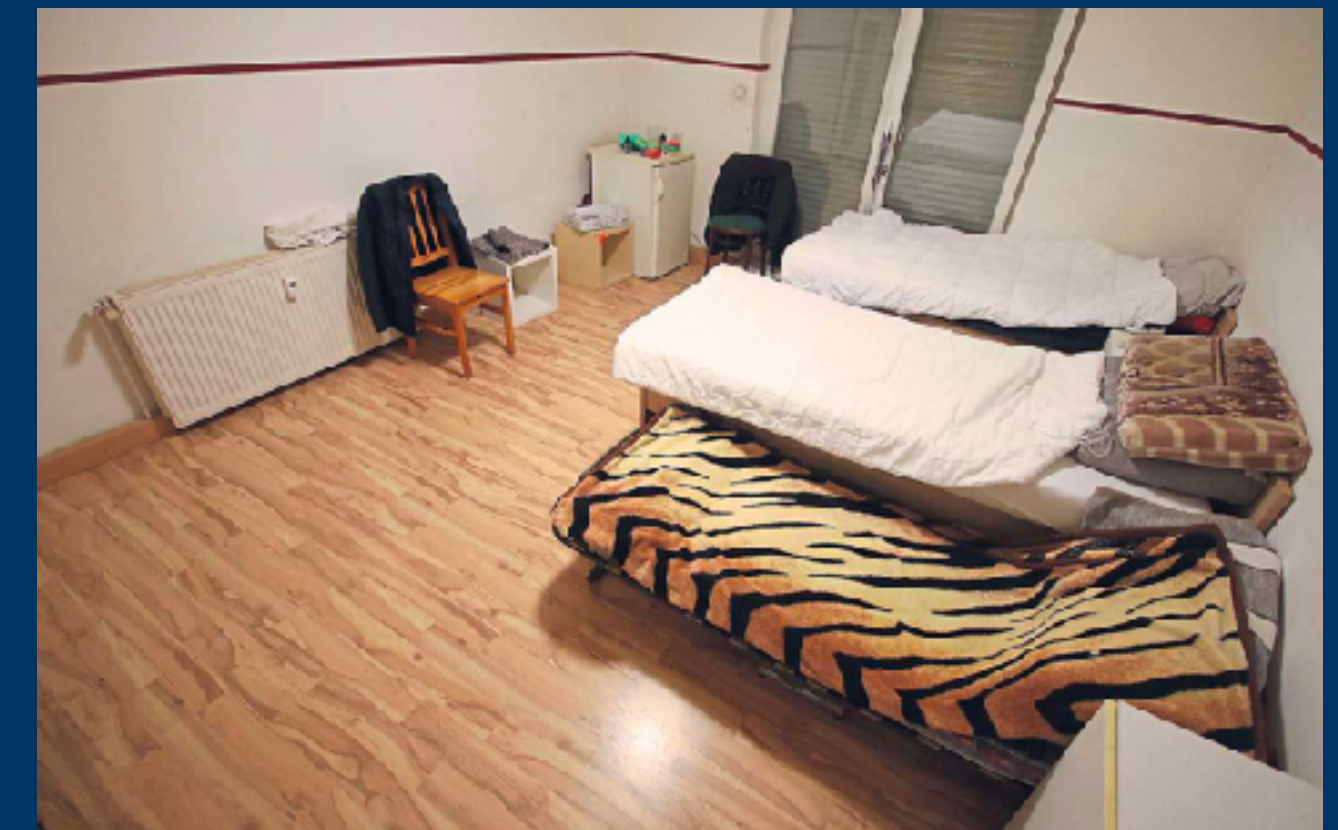
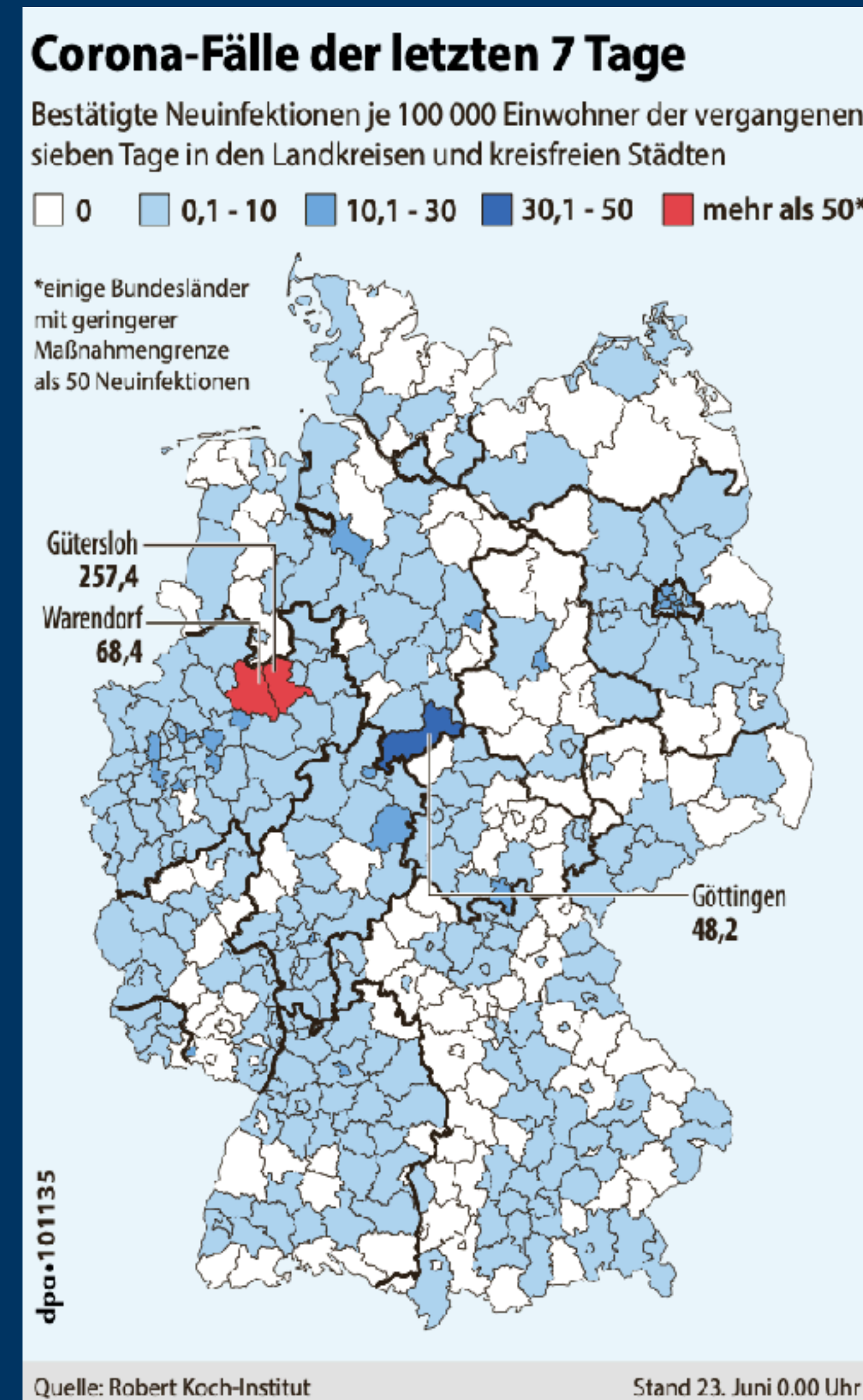
Abbildung 9: Bestandteile des Krisenmanagements<sup>31</sup>





# From the practice: The „Gütersloh/ Tönnies“ Lockdown in June 2020

- At the end of June, corona infections in Gütersloh rose explosively. The reason for this were infections in a slaughterhouse in the neighbouring town, which in the end spread to over 2000 workers in the meat industry.
- Approximately 1000 workers lived in 500 flats, which were almost unknown to the city until then. Together with the family members, about 2000 people living in Gütersloh had to go into quarantine for 14/ 28 days.
- The task of the city of Gütersloh was - from one day to the next - to control the quarantine of the infected persons in 500 flats, to ensure the supply of food and drink and to guarantee the safety - especially of women and children.





# Gütersloh

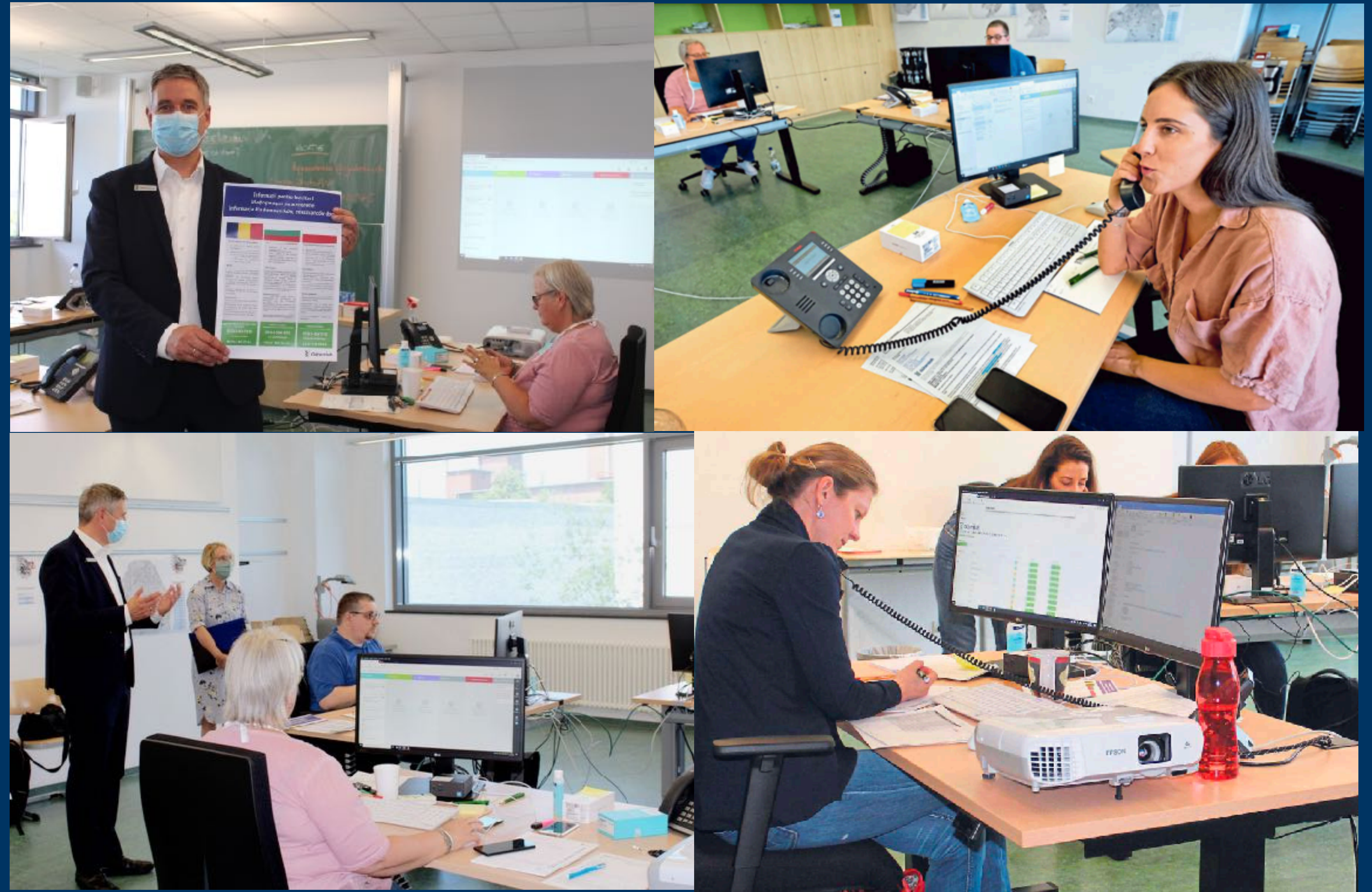
- Population > 100.000
- 112 km<sup>2</sup>
- North-west Germany
- economically strong location (e.g. Miele, Bertelsmann,..)





# Establish an 24/7 situation centre

- We established a new situation centre running around the clock.
- All needs and problems were registered in real time in a digital Plattform/ App and processed 24/7 in the newly established situation centre





# What do do???

- Work in a crisis management team only like this???
- personal presence is a problem in Corona times
- We decided, to build up a simple, and powerful „virtual crisis management platform“





**Digitalisation can make an important contribution to disaster management, for example by using digital tools and platforms and by sending alerts directly to mobile phones in selected radio cells via cell broadcast.**

**Control centres and situation centres must be digitally networked on platforms.**





## Use of digital tools in crisis situations:

- **Messenger**: low-threshold actor networking, easy real-time communication in groups.
- **Task management**: shared documents, targeted databases, KanBan boards
- **Geographic information systems (GIS)**: spatial visualisation of information
- **Geobased real-time management tools**: for networking of full-time and voluntary actors

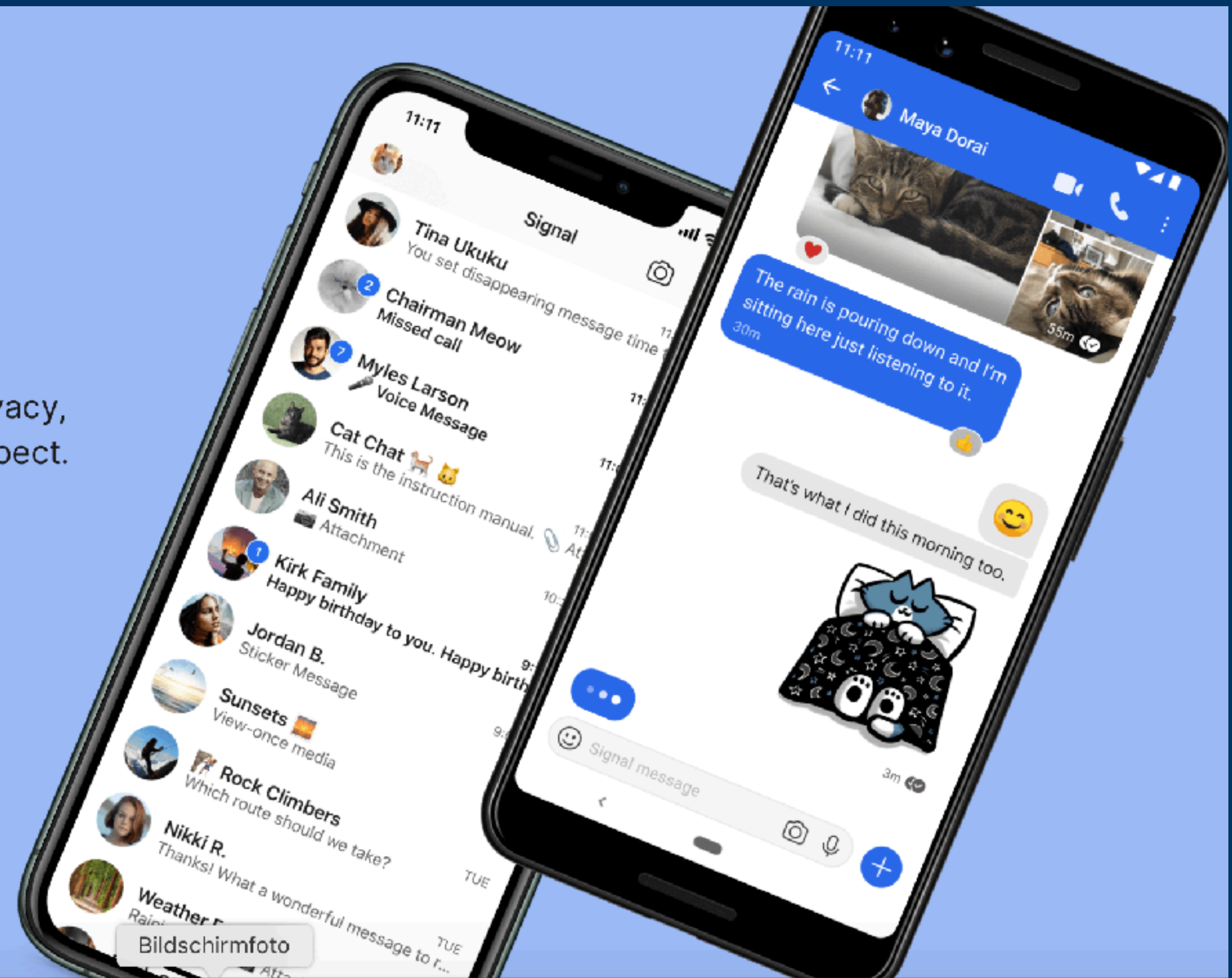


# Step 1: Organize easy & fast realtime communication and connect your staff

- Connect all responsible crisis-managers at all levels at the local government / administration
- Open a channel for your population to send messages to the situation centre very easily

## Speak Freely

Say "hello" to a different messaging experience. An unexpected focus on privacy, combined with all of the features you expect.





## Step 2:

Choose an digital tool, which works as a real time Information/ Task Plattform - it should be easy to use an working with all operation systems, all Desktop and mobile devices

- For the initial Meeting we decided, to build up a simple, and powerful „virtual crisis management platform“ using our already introduced tool from the project management „Meistertask“ (Tools like „Trello“, „Padlett“ or even „Google Docs“ will be suitable as well - the real time exchange of Information is the key need!)

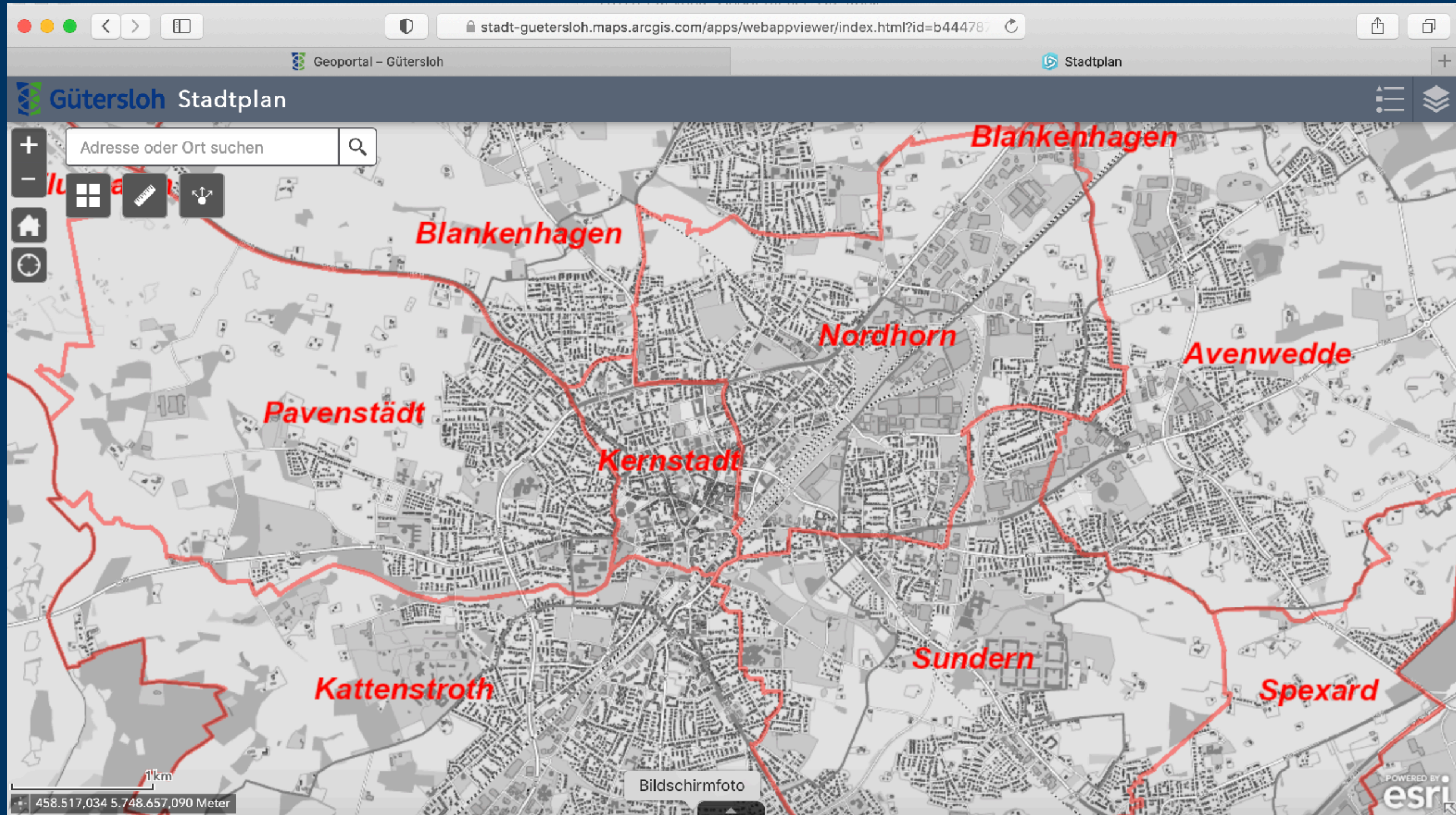
The screenshot displays the MeisterTask interface, a Kanban-style project management tool. The board is organized into five columns: 'Next Up' (5 items), 'Pipeline' (5 items), 'In Progress' (4 items), 'In Review' (6 items), and 'Done' (5 items). Each column contains task cards with details such as due dates, progress indicators, and category tags. The 'In Progress' column has a 'Due today' section. The 'In Review' column includes a section for 'Overdue' tasks. The 'Done' column shows completed tasks with a green checkmark. A sidebar on the right lists team members and their task counts.

Column	Count	Task Title	Due Date	Progress	Category		
Next Up	5	Create Spring Newsletter	May 9, 2019	0/6	Retention		
		Social media campaigns		1/3	Growth		
		Homepage Update	Jun 13, 2019	1	2/3	Growth	
		Weekly Report					
		New Whitepaper	May 24, 2019	3/7		Brand Aware... Growth	
Pipeline	5	Update Partner Kits	May 11, 2019	4	1/2	Growth	
		Create event plan		1	0/6		
		Weekly report	Jul 10, 2019	0/3			
		Post: "How to automate your workflow"		2	2/3	Retention	
		Style Guidelines					
In Progress	4	Weekly report	May 3, 2019	1			
		Fix issues on new landing page		1			
		Get input from Thomas about tagline ideas!		1			
		New Tutorial Videos	May 16, 2019	4	3/3	Retention	
In Review	6	Evergreen Blog Post		1/1	Brand Aware...		
		Write Customer Success Story	May 9, 2019	1	0/5	Growth	
		Business Landing Page	May 24, 2019	6	3/4	Growth	
		Summer Newsletter		3/3		Retention	
Done	5	Update Screenshots	Jun 15, 2018	2/2	Growth	Completed	
		Brainstorm ideas for Facebook campaign	Apr 3, 2019	1		Brand Aware...	Completed
		New Landing Page	Apr 26, 2019	1	0/6		Completed
		Create images for October newsletter	Oct 13, 2018	1	0/4		Completed
		New Affiliate Program					Completed



## Step 3: If available - use your GIS System, to visualize Information on a map

- We put all Information in our GIS (Geodata Information) to keep the overview over the 500 Quarantine locations





# This is what the daily work outside in the city looked like...



DRK-Rettungshelfer Frank Markowsky erklärt seinen heutigen Einsatz-Kollegen von der Bundeswehr, was ansteht.

Die Teströhrchen werden in einer Box gesammelt.

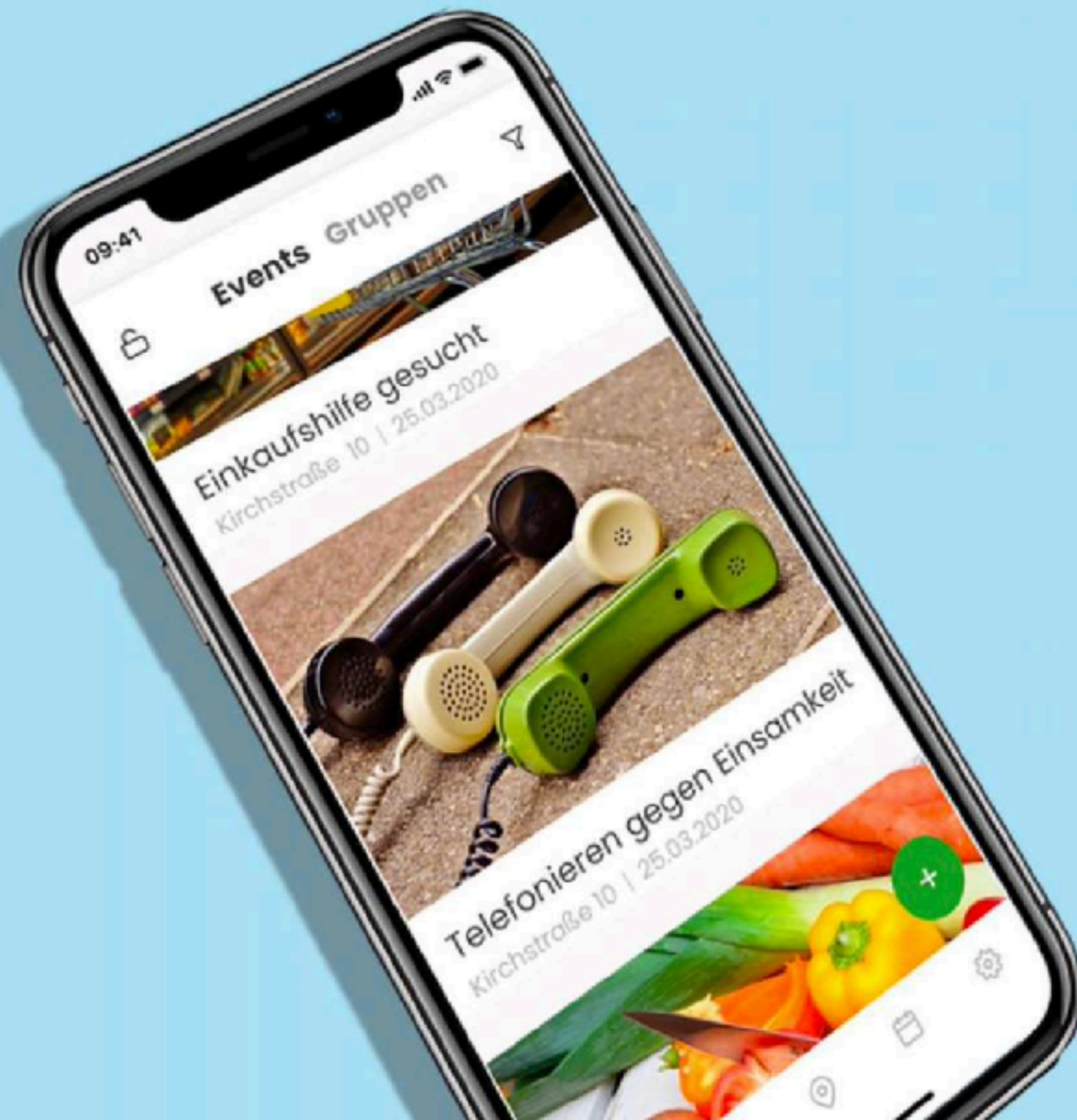
An der Feuerwehrschule in St. Völ gibt es kilometerweise Schutzanzüge.



## Step 4:

You can additionally use Geodata-based Apps, to connect in realtime the spontaneous work of Volunteers in a crisis with the work of the public administration

# VoluMap



**Die Plattform zur  
Förderung des  
bürgerschaftlichen  
Engagements  
für Kommunen**



# Coordination

The past crises have shown:

There is a lot of social commitment! -  
Whether it is the arrival of refugees or  
floods.

Sandbag helpers wanted

But professional organisations in  
particular find it difficult to involve  
spontaneous helpers.

How many are coming?

How can the helpers be coordinated?

This is where **VoluMap** provides  
targeted help. A counter makes it visible  
for all sides at which location helpers  
are needed for which action!



## Sandsäcke füllen & verlegen



ca. 32 km  
entfernt



ca. 8  
Stunden



noch 50  
Plätze  
frei

### Über das Event

Die Feuerwehr Gütersloh sucht dringend Helfende. Das Hochwasser an der Dalke droht weiter zu steigen. Auf dem Berliner Platz

### Über das Event

Die Feuerwehr Gütersloh sucht dringend Helfende. Das Hochwasser an der Dalke droht weiter zu steigen. Auf dem Berliner Platz haben wir eine zentrale Sandsackfüllstation einrichtet und benötigen Unterstützung beim füllen der Sandsäcke!

### Können Sie folgendes Mitbringen?:



Schaufel

0/25

### Koordination des Events



**Simon Jegelka**

topocare wie die Wasserwehr

Fragen & Anmerkungen an Simon Jegelka...



Jetzt mitmachen



# Abonnierte Events



✓ 2 von 15 09.09.2021



team Finnbahn clean up

✓ 14 von 20 09.09.2021



+



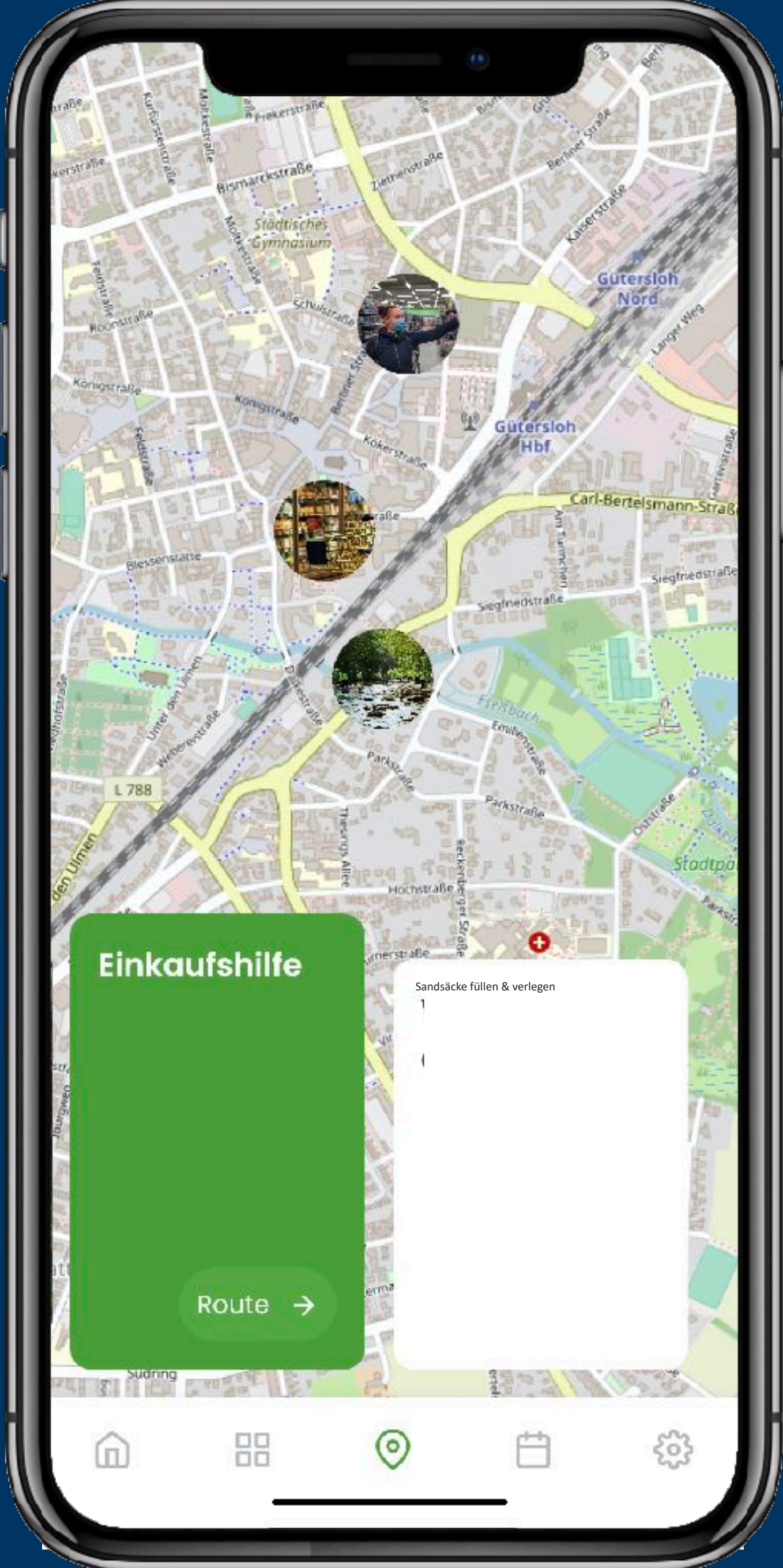
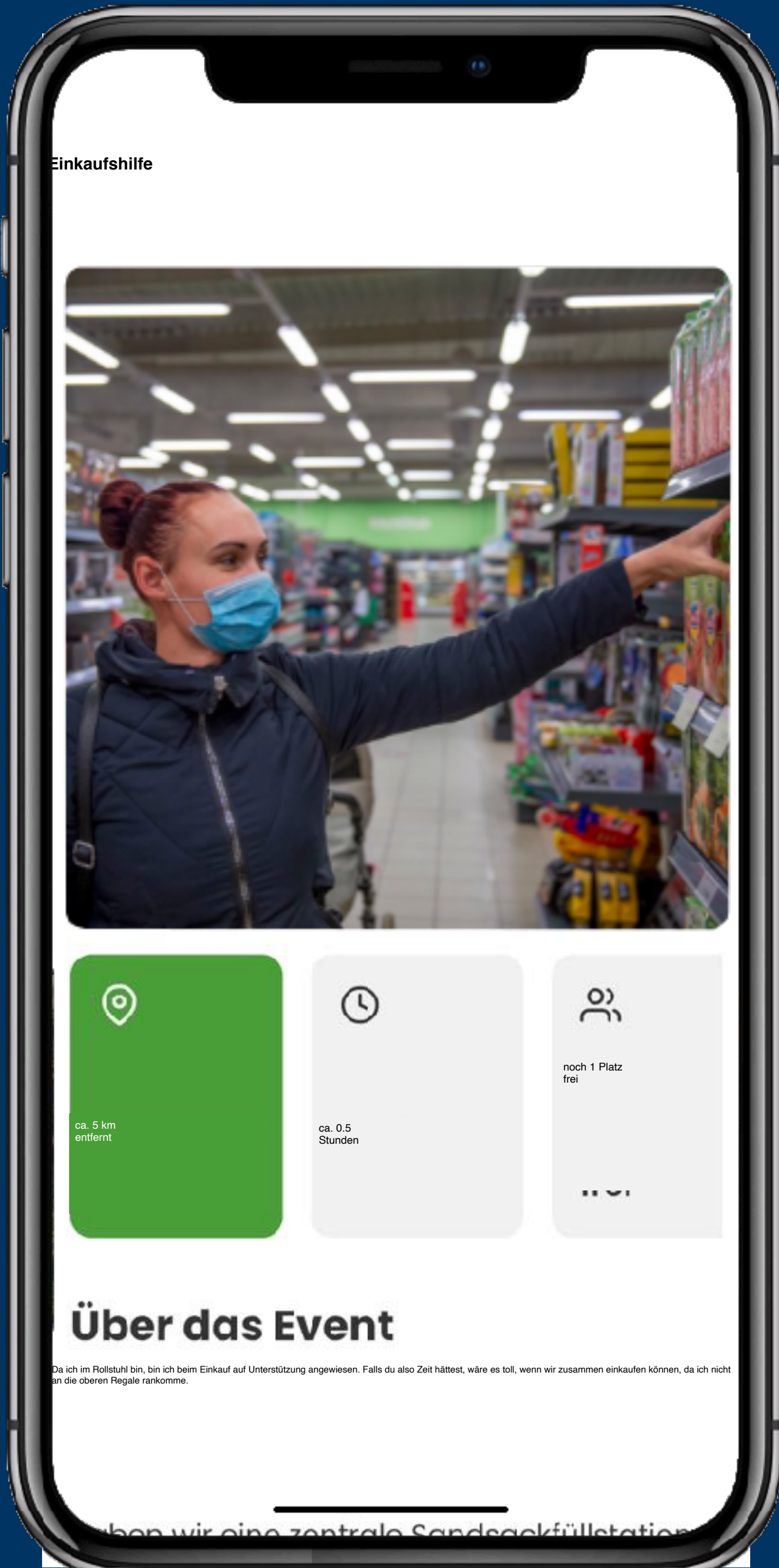
Helfer für  
Clean Up  
gesucht

Sandsäcke füllen & verlegen

Route →



# Shopping aid....





## Summary - Conclusion:

- The current crises (corona, floods, heavy rainfall, drought....) mean that the topic of crisis and risk management is on the agenda of many German municipalities - but to be honest, many municipalities are still at the beginning - structures and processes still have to be created and established on a broad scale.
- Start with integrated risk management before the crisis situation occurs. It brings all those who are responsible together at a "round table" and enables a structured exchange among them.
- Conduct simulation games- visualize a situation/crisis scenario in advance
- Crisis management requires resources even before the crisis: personnel, budget, structural and procedural organisation, clear responsibilities and competences.
- Important (my experience): Centrally organised crisis team, but technical responsibility decentralised in the departments with clear assignment of personnel.
- Digitization is a tool that can make our lives easier and helps us to master complexity and thus to meet people's individual needs more effectively - introduce the digital tools that will benefit you before the crisis situation



Thank you very much for  
your attention!



For further Information/ Advice you  
can contact me: [info@henningschulz-gt.de](mailto:info@henningschulz-gt.de)

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