

# Emergency Light House, a Help Point in the Darkness: Disaster Beacons



by Michael Becker  
DJ9OZ

Head of Emergency Communications Committee  
Deutscher Amateur Radio Club (DARC)

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Bundesministerium  
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# Project Overview

- ▶ **Project Title** Disaster beacons as access points for citizens in crisis situations
- ▶ **Short Form** Kat-Leuchttürme (Disaster beacons)
- ▶ **Programme** Research for Civil Security by BMBF
  
- ▶ **Duration** 08.2012 until 07.2015
- ▶ **Funding** 2,5 Mio. €
- ▶ **File number** 13N12419 - 13N12425
- ▶ **Coordinator** TimeKontor AG

# Project Partners



Council of the Berlin Borough of Steglitz-Zehlendorf



HUMBOLDT-UNIVERSITÄT ZU BERLIN



## Associated partners:

- Senatsverwaltung für Inneres und Sport / AG Infrastrukturbetreiber
- Der Polizeipräsident in Berlin

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## Focus of partners

### Scientific partners

Beuth Hochschule für Technik Berlin (BHT)

Hochschule für Wirtschaft und Recht Berlin (HWR)

Forschungszentrum Katastrophenrecht der HU Berlin (FZK)

### Practical partners

Berliner Feuerwehr (BFW)

Bezirksamt Steglitz-Zehlendorf (BA SZ)

Charité – Universitätsmedizin Berlin (CHA)

### Development partners

Beuth Hochschule für Technik Berlin (BHT)

TimeKontor AG (TK)

### Organisational partners

Berliner Feuerwehr (BFW)

Bezirksamt Steglitz-Zehlendorf (BA SZ)

Senatsverwaltung für Inneres und Sport (SenInnSp)

Der Polizeipräsident in Berlin (POL)

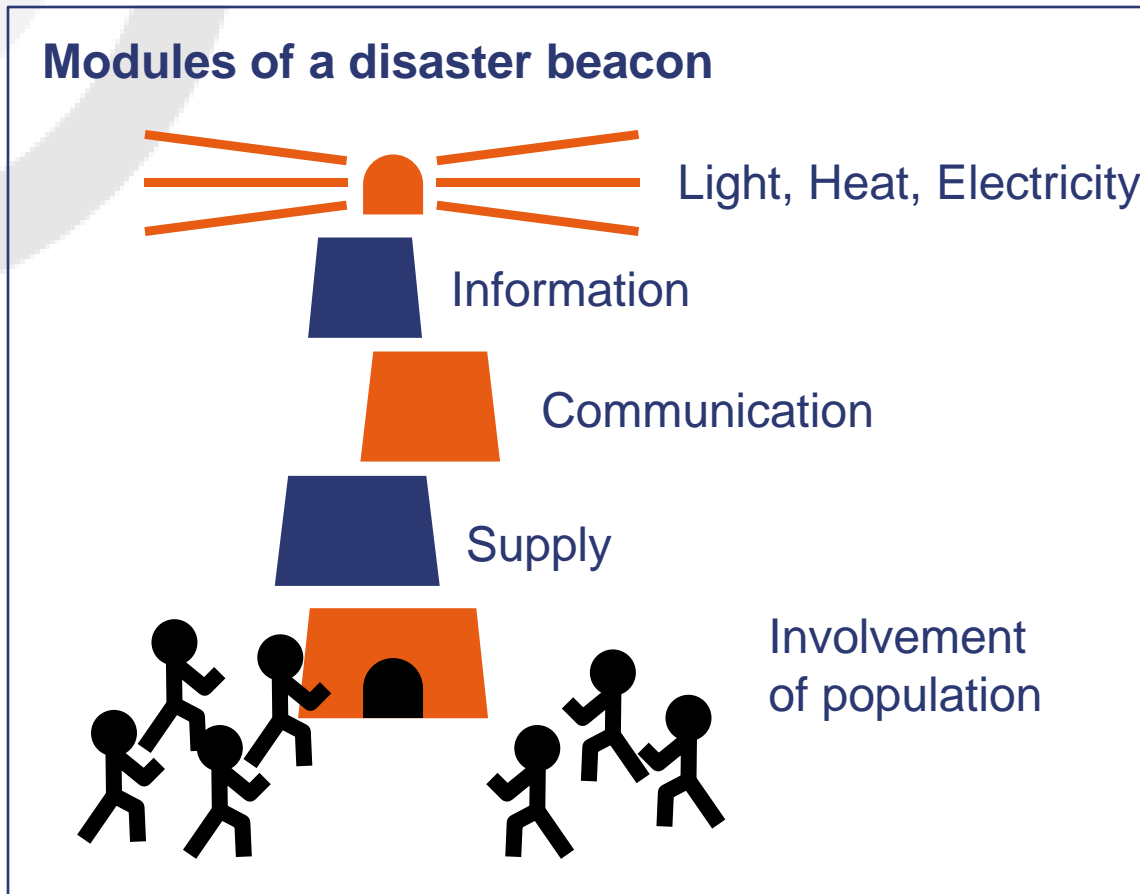
# Scientific advisory council

- Michael Becker, Deutscher Amateur-Radio-Club e.V.  
Head of division Emergency Radiocommunications
- René du Bois, Head of division KM 1 – Coordination center crisismanagement,  
Federal ministry of the Interior
- Benno Fritzen, Head of fire brigade Münster
- Dr. Ansgar Klein, CEO National Network for Civil Society  
[Bundesnetzwerk Bürgerschaftliches Engagement (BBE)]
- Prof. Dr. Martin Voss, visiting professor at institut for ethnology  
of Freie Universität Berlin, Focus research on disasters

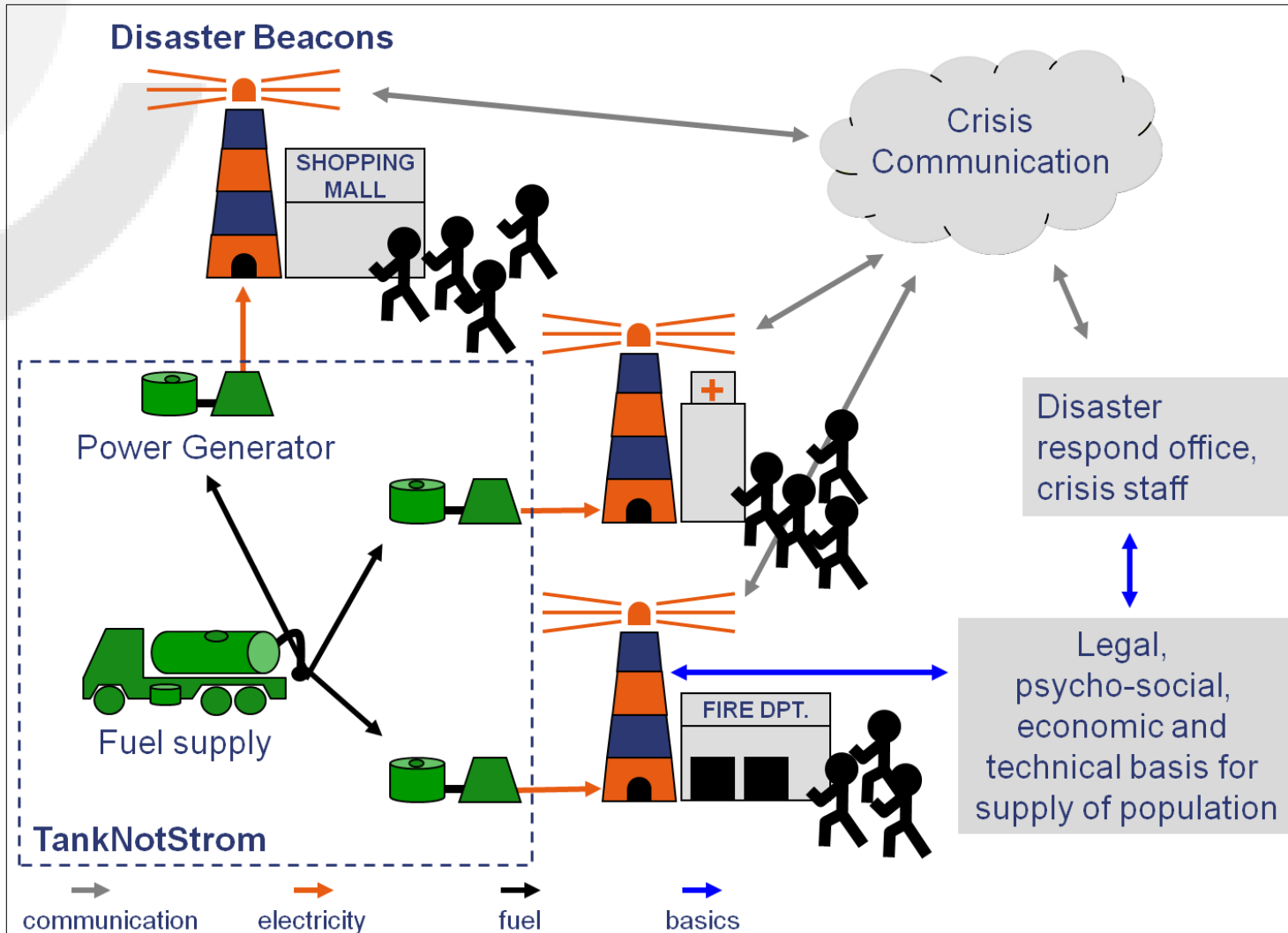
## Project aims

- ▶ Development of a concept for access points for the population in case of disaster (disaster beacons) for maintenance of supply and for information and communication of population
- ▶ Organisational and technical execution of disaster beacons
- ▶ Construction-kit for planning disaster beacons
- ▶ Involvement of population into the process of crisis- and disaster management
- ▶ Clarification of legal framework conditions

# Disaster - Beacon (Definition)



# System of Disaster Beacons 1/2





- ▶ Crisis communication (preventive, in crisis)
- ▶ Supply concept
- ▶ Imbedding into existing disaster respond concepts
- ▶ Need for help and readiness to assist of local citizens
- ▶ Construction-kit for planning disaster beacons
- ▶ Planning of a network of disaster beacons in a region

# Work packages

- ▶ **AP 01** Analysis of the present situation of crisis management systems in Germany and selected countries to manage ongoing blackout of power outage
- ▶ **AP 02** Developing requirements and basics for a citizen oriented crisis and disaster management
- ▶ **AP 03** Crisis communication – Emergency Communications System
- ▶ **AP 04** Regulatory framework in national context – legal attendance and consulting
- ▶ **AP 05** Judicial consideration of security systems of European countries

# Work packages

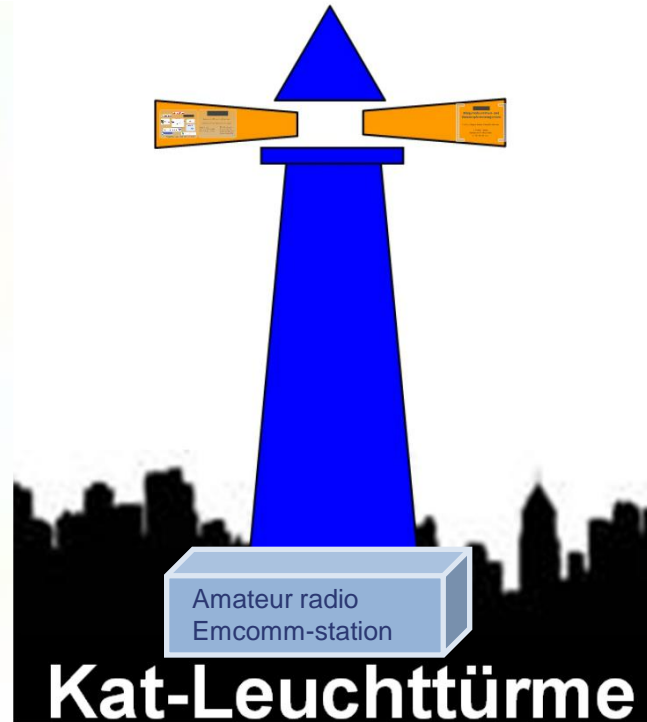
- ▶ **AP 06** Concept of a disaster beacon
- ▶ **AP 07** System of disaster beacons
- ▶ **AP 08** Example realisation, integration und evaluation of technical systems of disaster beacons
- ▶ **AP 09** Test, integration and evaluation of the complete system of disaster beacons
- ▶ **AP 10** Public presentation and project-oriented implementation of results

# Amateur Radio operators ready to assist

- ▶ **What can we do?**
- ▶ **How can we assist?**

# Access points for population (Disaster Beacons)

**Disaster Beacons  
access- and help-points for citizens  
amended by an amateur radio command-  
or gatewaystation**

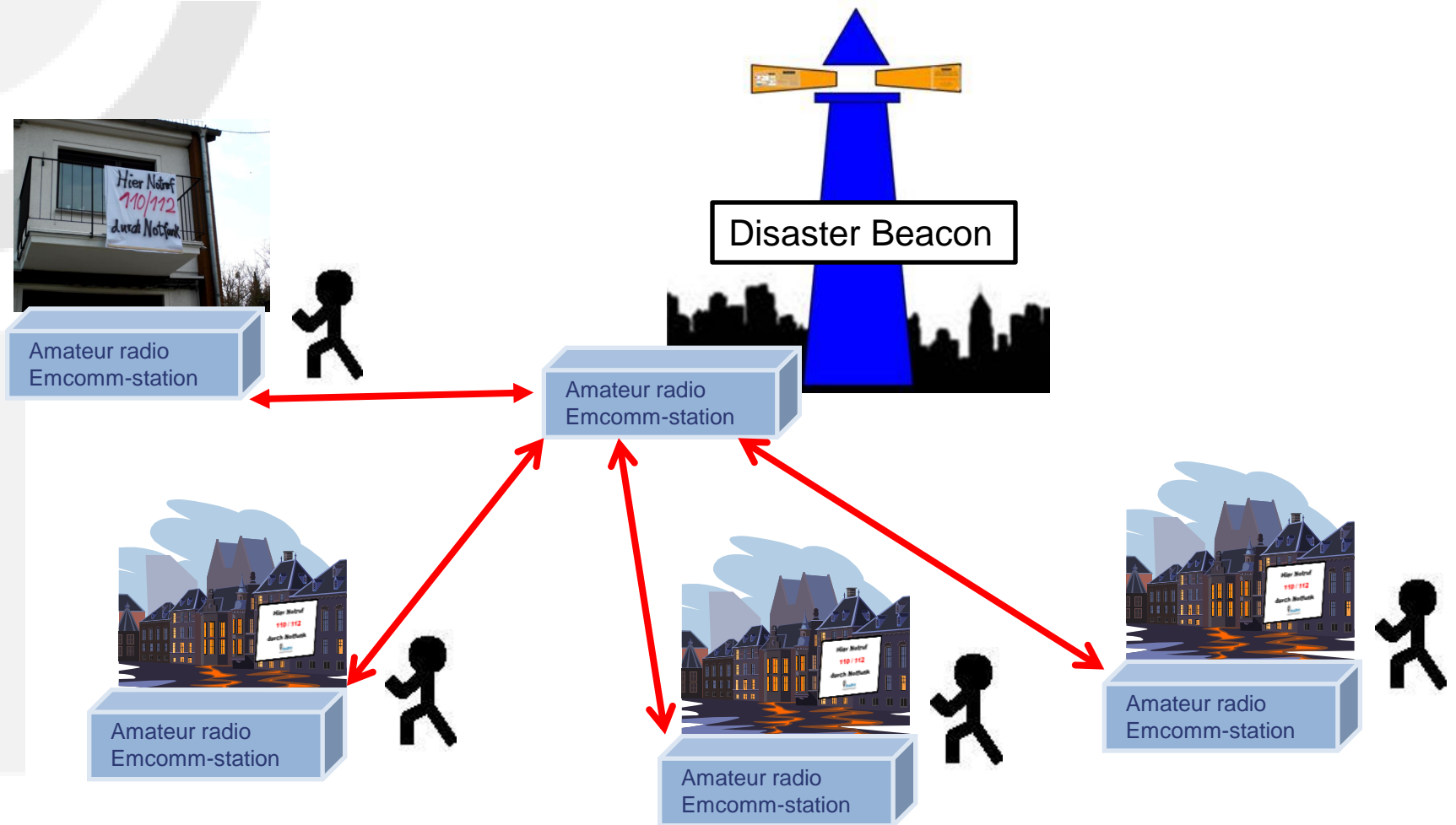


Quelle:  
Hochschule für Wirtschaft und Recht, Berlin  
Prof.Dr.Birgitta Sticher /Benedikt Schweer

# Support by amateurradio for population: Mini-beacons

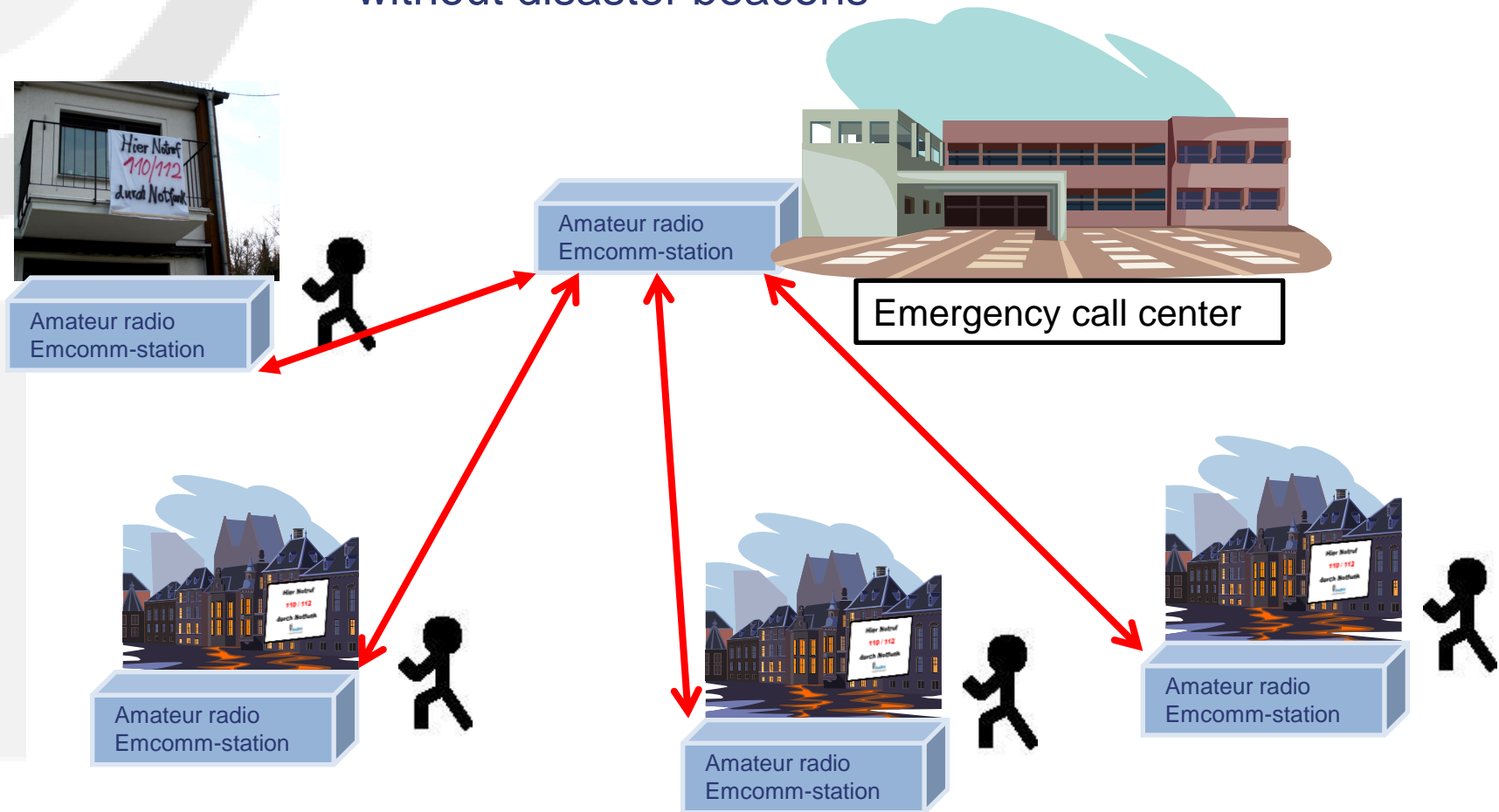


# Wide spread access for population: Mini-beacon system



# Wide spread access for population: Mini-beacon system

Alternative for regions  
without disaster beacons





Thank you for your attention

Further information:

<http://www.kat-leuchtturm.de>