



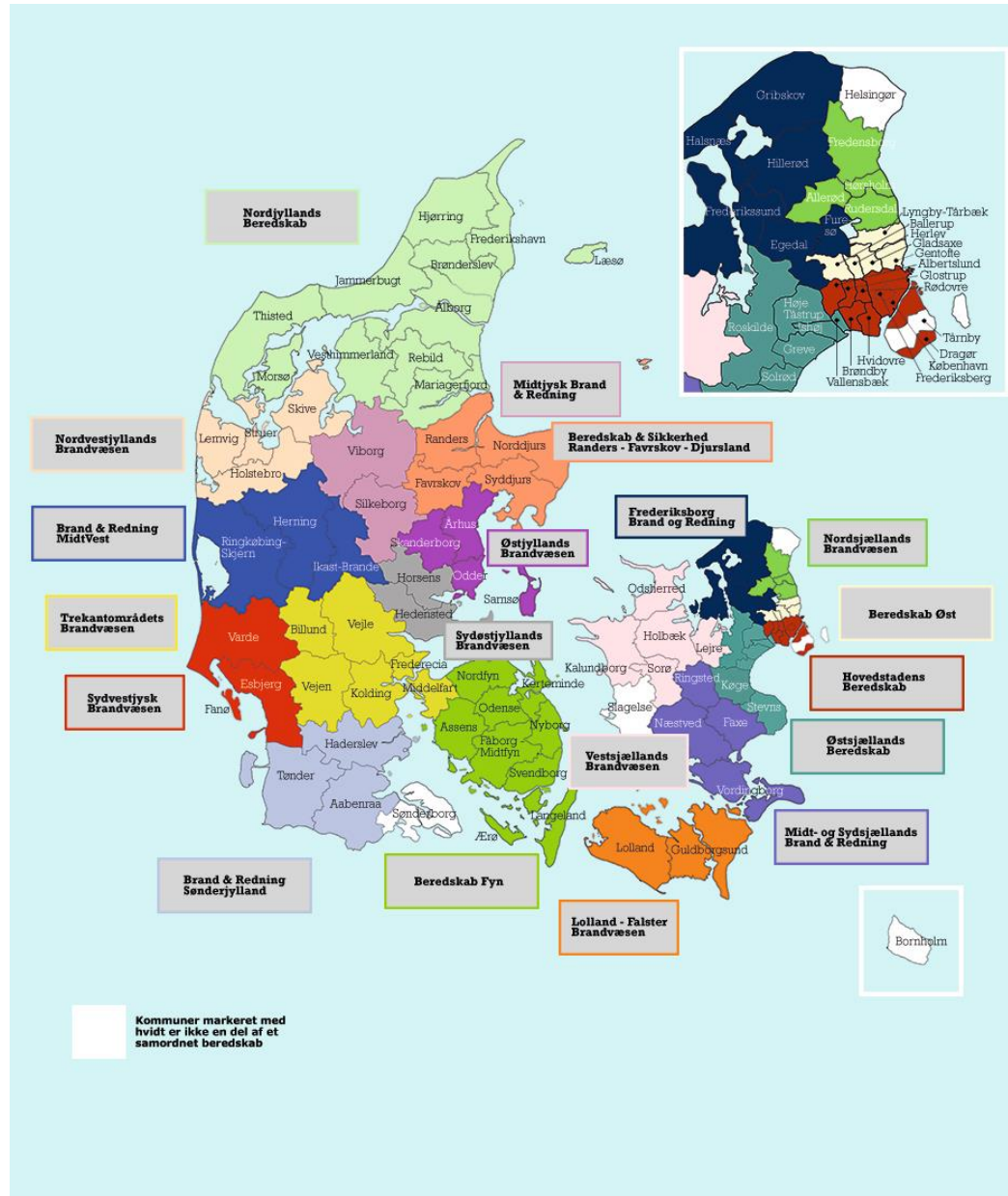
# Risk and Vulnerability Analysis Civil Contingency Planning Sarajevo 23 Nov 2016

A perspective presented by Birger Kjer Hansen, Municipality of  
Lyngby-Taarbæk (Denmark)





# LYNGBY-TAARBÆK KOMMUNE





# Introduction

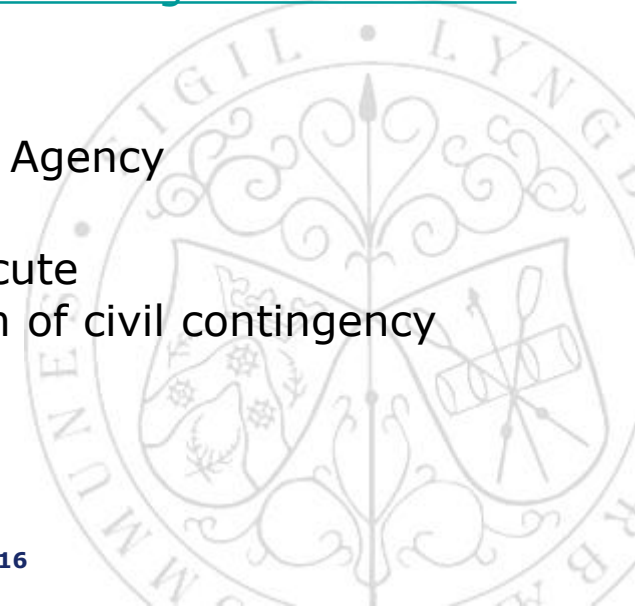
- Organizational levels - National and regional/municipality
- National: Reform 2015 - 24 Units at municipality/regional level (National Operations)

Map:

[http://brs.dk/beredskab/idk/kommunalt\\_beredskab/sammenlaegning-af-kommunale-redningsberedskaber/Pages/kort-over-sammenlagte-kommunale-beredskaber.aspx](http://brs.dk/beredskab/idk/kommunalt_beredskab/sammenlaegning-af-kommunale-redningsberedskaber/Pages/kort-over-sammenlagte-kommunale-beredskaber.aspx)

National/State Level: Danish Emergency Management Agency (Beredskabsstyrelsen)

- The Agency is to handle operational tasks and execute authority/administrative tasks in the full spectrum of civil contingency planning:



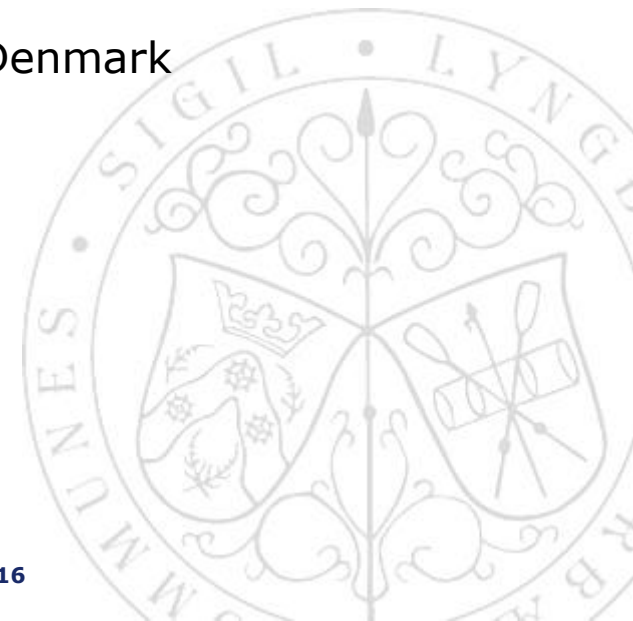


- National (supplementary) and International relief operations
- Emergency planning and operations capability concerning “specialities” (atomic, chemical)
- Providing centralised education offered to all employed within the area of civil emergency – including training conscripts
- Development of risk handling knowledge and advisory to government on regulations
- Crisis management at National level in support of the Police authorities and in cooperation with local/regional Emergency Units.

The Agency is allocated within 6 regional centers in Denmark

Source:

<http://www.jannerup.dk/ipaper/bs-uk.html>





# Beredskab Øst (BEROS) - Emergency Unit East

- Municipalities Lyngby-Taarbæk; Rudersdal; Gladsaxe, Gentofte; Ballerup & Herlev)
- Population approximately 0,3 mio. citizens)
- Very urbanized area
- Relatively small by geography.





## BEROS tasks

- Operational, supervisory, advisory and planning tasks
- 24/7/365 on operational alert, minimum of 3 operational managers on the roster at all times; 5 locations ready for firefighting & rescue operations (traffic accidents etc.)
- Supervisory and other tasks as authority controlling public institutions and employers concerning compliance and fire measures and other risk handling measures
- Advisory tasks in the area of fire regulation - required especially municipality authorities dealing with application and licenses to perform changes in existing houses and construction as well as new constructions concerning buildings and infrastructure
- Assisting municipalities performing risk based analysis.

About BEROS:

[http://beros.dk/beredskabet\\_opgaver.asp](http://beros.dk/beredskabet_opgaver.asp)





# Emergency Unit

## - Dimensioning by Risk Based Analysis

- According to law each Municipality is fully responsible for dimensioning the emergency capacity ("fire brigade") in accordance with "circumstances"/the situation in the municipality
- The Emergency Unit is to be able to provide a sufficient and reasonable prophylactic and mitigating support in case of incidents and disasters
- The Risk Profile of the Municipality; the Service Level required; Organization (Manpower etc.); Dimensioning; Materiel; is (also according to law and subject for supervision by Danish Emergency Management Agency )to be described in details in a document called the Municipality Emergency Planning
- The Municipality Emergency Planning document is to be revised every fourth year.

Lovgrundlag:

<https://www.retsinformation.dk/forms/r0710.aspx?id=6440>

## How to perform Risk Based Analysis?

- "Handbook of Dimensioning" - offered by the Danish Emergency Management Agency  
(<https://brs.dk/viden/publikationer/Documents/RBDhaandbog.pdf>)

Circular:

- Politically decision concerning service level (reaction time etc.)
- Implement (in practical)
- Risik identification
- Risk analysis
- Scenario analysis
- Capacity analysis
- Suggestions to handle – and/or ajust - service level

... and all over again!







Performing the proces:

- Stearing and follow up
- Communication
- Documentation
- Experience recording

... continually!





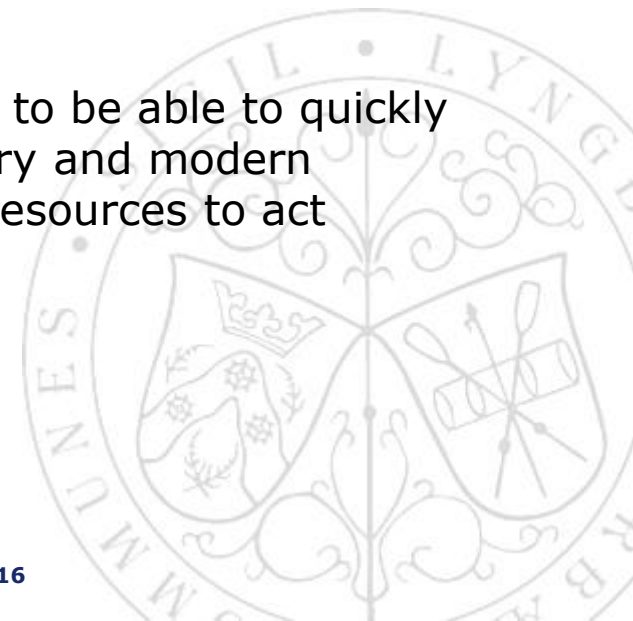
# The case of Lyngby-Taarbæk Kommunen and the other 4 municipalities ... the plan(ning) and experiences hereof

Aim:

To secure the necessary capacity and agility to handle all risks assessed within the area of responsibility  
- in accordance with politically stated service level concerning fire handling and other operational incidents handling.

The plan in detail covers the following overall themes:

- The Emergency Unit and its capacity can be trusted to be able to quickly counter any incident - including having the necessary and modern equipment, well trained manpower and leadership resources to act appropriate as service level demand



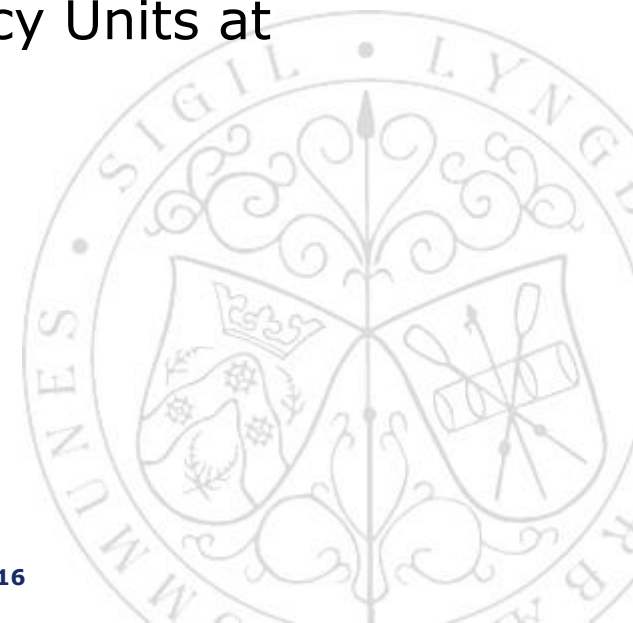


## The case ...

- Being able to assist other Emergency Units or receive such aid fully coordinated as part of the National capacity
- Secure a high quality as authority dealing with supervisory and advisory tasks preventing disasters and supporting ability to coordinate with other Emergency Units at municipality and state levels.

## RBD for BEROS:

<http://beros.dk/downloads/rbd2015.pdf>





The case ...

Each plan contains a (very)detailed description concerning e.g.:

- Present Emergency Planning (area of responsibility; organization; management and manpower/material capacity; water supply concept)
- Risk Profile (housing stock; population; area (urbanised - infrastructure - traffic patterns/intensity/pendling - risk in general and specifics - social challenges - challenges developing due to climate change - risk level and threats assesment)
- Statistics (operational categories and numbers of each appeared - real alarms and false alarms - activity each vehicle - operations in area of responsibility and performed on call by other Emergency Units - operational categories appearance (during a day, during a week, during a month, during year -...)
- Statistics especially concerning supervisory and advisory taskings



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Q & A?

