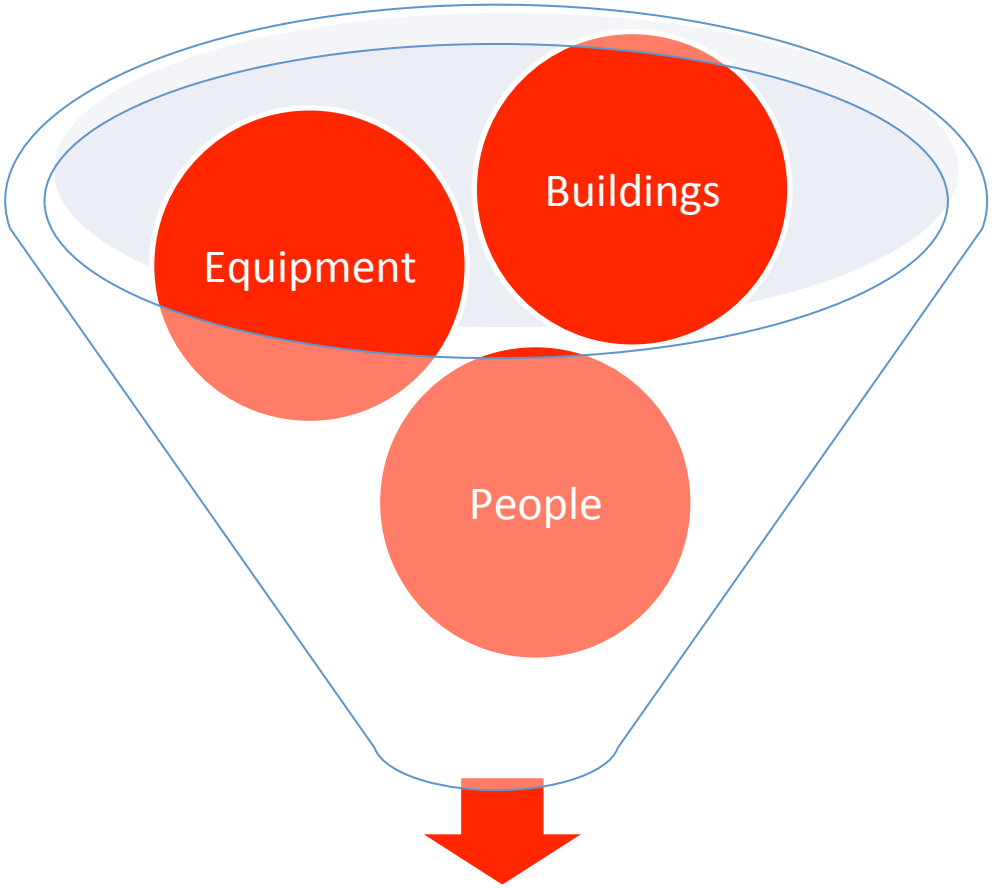
HSBO 2012

Specifying the optimal craft
- for the Danish Coastal Rescue Service

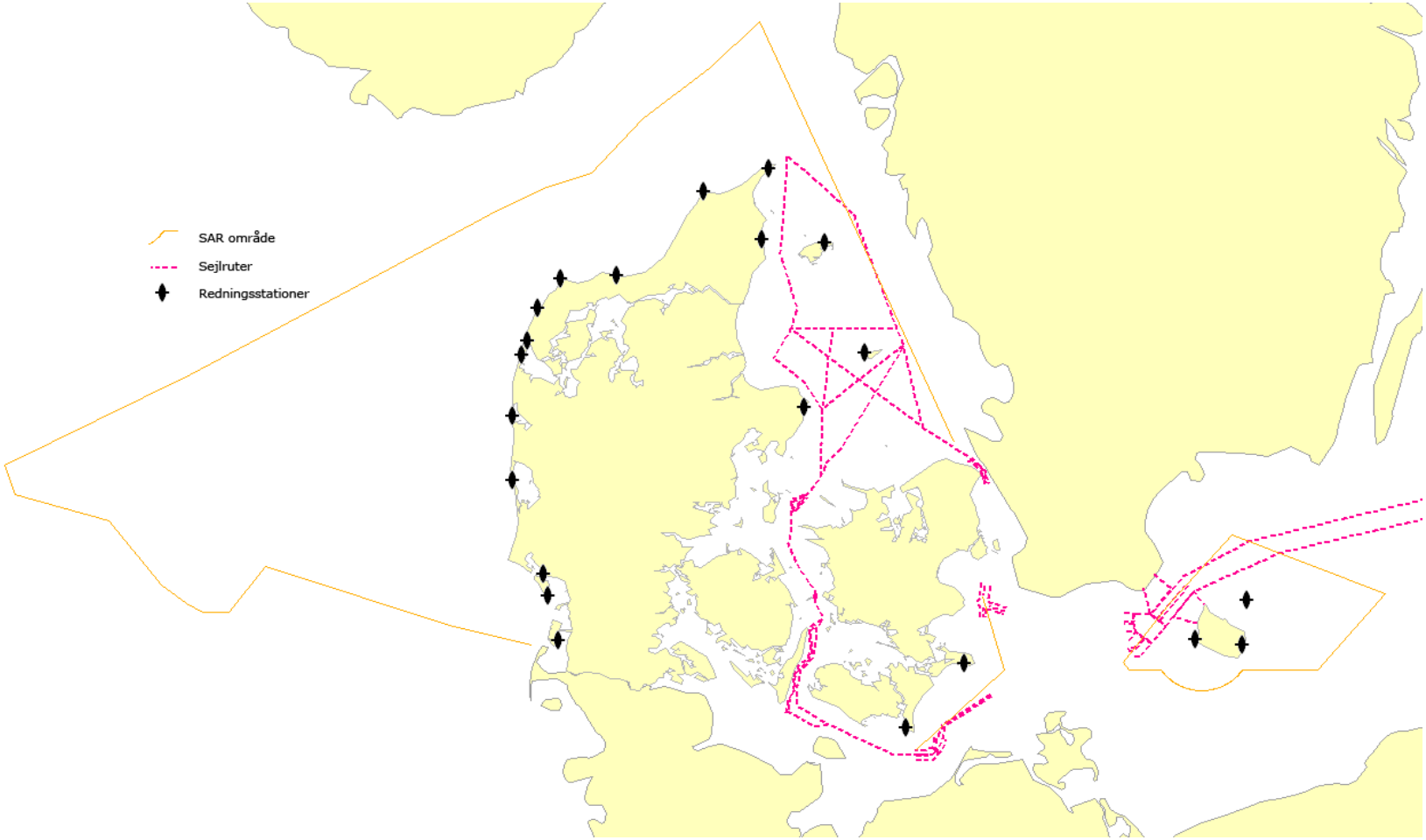
by
Remmi Edelbo Pedersen
Head of Danish Coastal Rescue Service & European regional development group coordinator, IMRF
www.sar.dk / rsp@frv.dk

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service



Coastal Rescue Service

KYSTREDNNGSTJENESTEN
Danish Coastal Rescue Service



Primary area of operations GMDSS area A1 ~ 20 – 30 miles off coast.
The goal is to be able to reach/cover this area within 1 hour.
21 lifeboat stations

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service

On average

400 life saving operations
400 assistance operations

Reaction time from alert to first unit away 8 min

Equipment availablity goals
100% Lifeboat rescue stations
98% LRB/FRB/Vehicles
96% All weather lifeboats

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service

KYSTREDNNGSTJENESTEN
Danish Coastal Rescue Service

KYSTREDNNGSTJENESTEN
Danish Coastal Rescue Service

LRB – Light Rescue Boat
"Mathis Ship Yard"

- High Speed
- Good seakeeping
- Long operation time
- Carry many people
- SOLAS approved engines
- Backup on all essential equipment
- Special requirements regarding stability
- Drop test 4 meters
- Composite hull

FRB
“Zodiac Hurricane”

Built to FRB regulations
High Speed
Dual drivetrain
High degree of back-up
Good seakeeping capabilities
Aluminum hull and superstructure

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service

How to specify the ultimate craft for the Danish Coastal Rescue Service

First we need to look at what these crafts will be doing and when and where.

What?
- Lifesaving coastal rescue
- Assistance

When?
- 24-7-365
- All but the most severe weather conditions

Where?
- VHF area A1
- Unprotected waters (North Sea and Skagerrack 80% Seastate 5 WMO) and semi protected waters (Kattegat and the Baltic Sea 80% Seastate 3 WMO)
- Both shallow and deep water

How to specify the ultimate craft for the Danish Coastal Rescue Service

Secondly we want to combine the experience and knowledge we got from our previous builds, the LRB and the FRB. Remove the trimmings and find the essentials.

Minimum requirements:

- 4 hours of operation in seastate 3 @ minimum 40 knots with a crew of 4(400 kg) and normal equipment.
- Composite or aluminum hull
- Semi-foamfilled tubes or solid foamfenders
- Backup on all essential equipment – radios, engines, ect.
- Easy access to essential parts and in regard to maintenance
- High degree of standard parts used in the build
- High degree of protection against schock, vibrations and noise
- High degree of protection against the environment
- FRB approved

Other requirements
High end-user involvement
Make the yard bring forth their best ideas

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service

Bespoke hybrid between the FRB and LRB
"Maritime Partner"

- Top speed ≥ 40Knots
- Long operation time 40Knots/4 hours
- Very good seakeeping capabilities - Seastate 3 @ 40 knots
- Back up on all essential equipment and systems
- Low/easy access maintenance
- FRB approved

INTERNATIONAL MARITIME RESCUE FEDERATION

The International Maritime Rescue Federation (IMRF) brings the world's maritime search and rescue organisations together in one global - and growing - family, accredited at the International Maritime Organization (IMO).
IMRF's member organisations share their lifesaving ideas, technologies and experiences and freely cooperate with one another to achieve their common humanitarian aim: "Preventing loss of life in the world's waters“.

Major projects of the IMRF

- Rescueboat guidelines – recommendations on how to start og improve a SAR organization; RNLI
- Mass Rescue – how to deal with mass SAR like Lisco Gloria and Costa Concordia; SSRS
- European exchange programme – EU funding to knowledge share between the organisations; KNRM
- Communicationsproject – Make the IMRF known and available to new members; NSRS

KYSTREDNINGSTJENESTEN
Danish Coastal Rescue Service

Thank you!

Remmi Edelbo Pedersen

Head of Coastal Rescue Service & European regional development group coordinator,

IMRF

www.sar.dk / rsp@frv.dk