Implementation of LRIT in Montenegro
12th LRIT NCA meeting

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MONTENEGRO – key facts

POPULATION: 670.000
ADMINISTRATIVE CAPITAL: PODGORICA
LAND AREA: 13.812 km2

MONTENEGRO APPLIED FOR EU MEMBERSHIP ON 2008
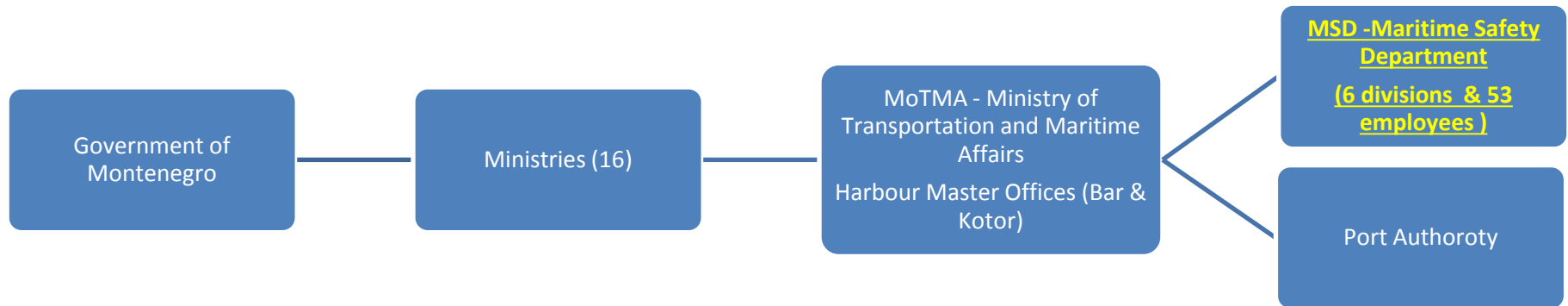**MONTENEGRO CANDIDATE COUNTRY SINCE 2010**

ADRIATIC SEA:
COASTLINE LENGHT: 294 km
MARITIME BORDERS : ITALY, CROATIA AND ALBANIA

INLAND SEA AREA: 362 km2
TERRITORIAL SEA AREA: 2.099 km2
EPICONTINENTAL SHELF AREA: 3.885 km2

Montenegro Maritime Administration

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│                 │     │                 │     │ MoTMA - Ministry of  │─────────▶│ MSD -Maritime Safety │
│ Government of    │─────│ Ministries (16) │─────│ Transportation and   │          │ Department            │
│ Montenegro       │     │                 │     │ Maritime Affairs     │          │ (6 divisions  & 53   │
│                 │     │                 │     │                      │          │ employees )          │
│                 │     │                 │     │ Harbour Master       │          └──────────────────────┘
│                 │     │                 │     │ Offices (Bar &       │          ┌──────────────────────┐
│                 │     │                 │     │ Kotor)               │─────────▶│ Port Authoroty       │
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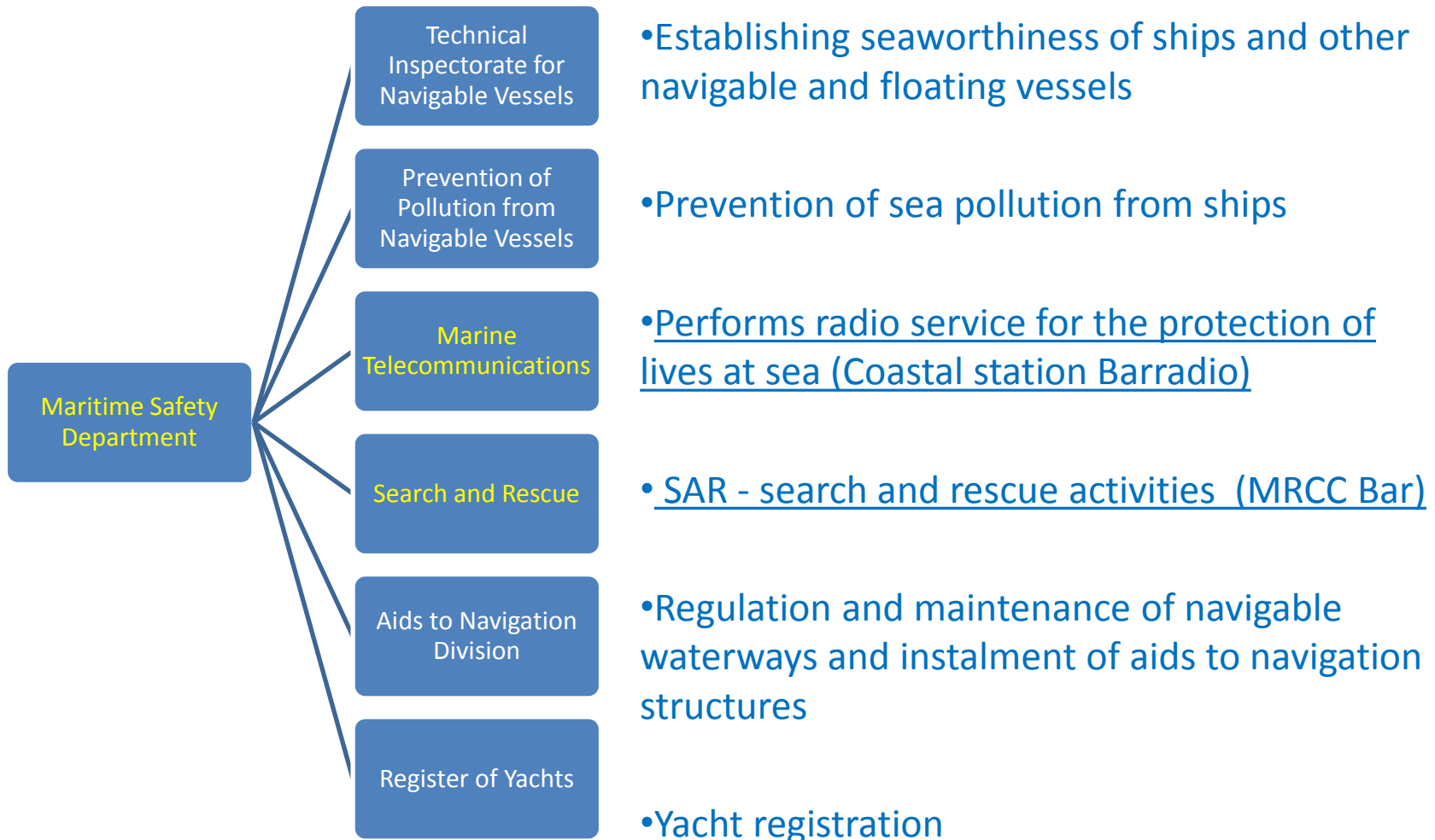
- Maritime Safety Department, in cooperation with MoTMA, is responsible for implementation of LRIT in Montenegro.
- Montenegro member of IMO and IMSO
- Montenegro participate in CleanSeaNet and EU LRIT Data Centre

Organisational structure of MSD (6 divisions)

Maritime Safety Department	
Technical Inspectorate for Navigable Vessels	• Establishing seaworthiness of ships and other navigable and floating vessels
Prevention of Pollution from Navigable Vessels	• Prevention of sea pollution from ships
Marine Telecommunications	• Performs radio service for the protection of lives at sea (Coastal station Barradio)
Search and Rescue	• SAR - search and rescue activities (MRCC Bar)
Aids to Navigation Division	• Regulation and maintenance of navigable waterways and instalment of aids to navigation structures
Register of Yachts	• Yacht registration

Montenegro LRIT Data Center

- 2nd December 2008 Montenegro applied to be a part of EU LRIT Data Centre
  - Council Resolution of 9th December 2008 on EU LRIT Data Centre

- We have considered to make cooperative LRIT Data Centre with Croatia.
  - We have received positive feedback from Croatia.

- To comply in due course with "LRIT" regulations Montenegro decided to have national LRIT Data Centre ("outsource" solution)
  - On 2009 after procurement procedure MSD signed contract with **POLESTAR** for LRIT data centre and other LRIT services.
  - Contract with Polestar ended at beginning of 2015 when Montenegro joined EU LRIT Data centre

Montenegro LRIT Data Centre

Montenegro has appointed three ASPs (Application Service Providers) for testing ship borne LRIT equipment:

- CLS
- Polestar
- Transas

- Obligations toward IMO related to LRIT are fulfilled (GISIS data),
- Obligations toward IMSO (International Mobile Satellite Organization) are fulfilled
  - Integration fee (2009) and audit fees (2010-2014) have been paid
- Obligations toward POLESTAR were fulfilled
- Each year IMSO performed audit of Montenegro LRIT Data Centre and IMSO had not issued any observation or non-conformity notes. The Montenegro Data Centre had performed at a very high standard and IMSO reported it to the IMO Maritime Safety Committee

Process of joining EU LRIT Data Centre

- 2nd December 2008 Montenegro applied to be a part of EU LRIT Data Centre
  - Council Resolution of 9th December 2008 on EU LRIT DC
  - At that moment Montenegro as a "third country" didn't meet all criteria from Council Resolution
- 29th November 2013 Montenegro applied again to be part of EU LRIT Data Centre after all criteria from Council Resolution are met
- At end of 2014 CoU for the EU LRIT DC signed
- From 14th January 2015 Montenegro started in Production in the EU LRIT CDC

Number of Montenegro "LRIT" ships

- In 2008 and 2009 two "LRIT" ships
- In 2010 and 2011 one "LRIT" ship
    - During 2010 and 2011, as a policy of MSD, substandard ships were forced to abandon Montenegro flag. As a result no detentions from 2010 up to now.
- In 2012 two new ships added to Montenegro LRIT DC, in total 3 „LRIT" ships
- In 2014 two new ships added to Montenegro LRIT DC, in total 5 „LRIT" ships

Use of LRIT data

In Maritime Safety Department LRIT information is used in following Divisions:

- Marine Telecommunications – Coastal radio station BARRADIO
- Search and Rescue Division – MRCC Bar
- Prevention of Pollution from Navigable Vessels and
- Technical Inspectorate for Navigable Vessels

LRIT offered to other institutions in Montenegro which are in charge for maritime safety and/or security:

- Harbour master offices,
- Marine Police,
- Navy of Montenegro and
- Ministry of Defence.

Montenegro has good AIS coverage: SAR zone is fully covered with AIS BS that participate in National AIS network.

Montenegro participate as observer in MARES project

Distribution of LRIT data

LRIT data from Montenegro LRIT DC are distributed to NATO and EU NAVFOR forces

The IMO has set up a distribution facility for the provision of Flag State LRIT information to NATO and security forces operating in the Gulf of Aden and the Western Indian Ocean (MSC 298(87)), to help their efforts in the repression of piracy and armed robbery against ships.

Currently, there are 2 security forces that have been registered as recipients in the Information Distribution Facility: European Union Naval Force Somalia (EU NAVFOR) and the North Atlantic Treaty Organization (NATO).

VTMIS system in Montenegro

EU supported and funded implementation of VTMIS in Montenegro.

One VTMIS centre (Dobra Voda, Bar) and 3 site locations (Mavrijan, Crni Rt and Obosnik)

Following equipment is installed on the sites:

- Solid state radar (Terma Scanter 5202) with 21" antenna
- Direction finders
- AIS transceivers
- GMDSS equipment (VHF)
- Meteo sensors
- Shelter, masts, UPS, diesel generator etc.
- Radio links
  - For independent radio network
  - For redundant network through service provider

VTMIS system in Montenegro

Other data and/or functionalities areintegrated to VTMIS system:

- AIS data streams from external sources,
- VMS data from fishing vessels (pending)
- ADRIREP mandatory ship reports
- VTMIS system has a role of National SafeSeaNet system
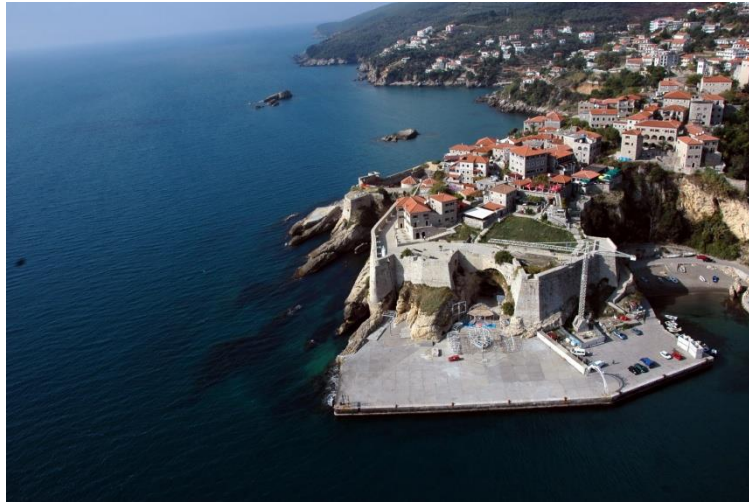- LRIT data: both WEB services have been implemented: LRIT2ES and ES2RIT

Next steps

- Implementation of the XML interface with SafeSeaNet in order to be able to communicate with the SafeSeaNet system acting as a Data Provider.
    - At this stage Montenegro could implement only the Send Notification mechanism, while the Request/Response mechanism could be part of future implementations.
    - From 3 different types of notifications (Ship, Alert and PortPlus), only PortPlus notifications will be implemented at this stage.

- Adding new layers into VTMIS system like meteo data (wind speed and direction) and oceanographic data (sea state, wave direction, sea temperature etc).

- In second phase of VTMIS project additional sensors and sites will be added in order to cover Boka Bay and Skadarsko lake.

- Single window implementation in Montenegro

THANK YOU FOR ATTENTION !

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