

# LNG BUNKER CONFERENCE

## LNG BUNKERING AND ITS REGULATORY FRAMEWORK IN GERMAN SEAPORTS - STATUS QUO AND OBJECTIVES





# AGENDA

1. ABOUT RAMBOLL
2. RECENT LNG BUNKER OPERATIONS AND THEIR APPROVAL
3. CURRENT EXAMINATIONS AND LINKS TO FURTHER STUDIES

# RAMBOLL AT A GLANCE

- Independent engineering and management consulting company
- Established 1945 in Danmark
- Strong presence in Scandinavia, North America, Germany, the UK, the Middle East and Asia-Pacific
- Owned by the Ramboll Foundation



**16.500  
experts**



**300 offices  
in 35 countries**



**1,5 billion  
Euro turnover**

## Services in the fields of:

- |  |                         |
|--|-------------------------|
| • Building construction & architecture | • Environment & health  |
| • Transport & infrastructure           | • Energy                |
| • Urban planning & design              | • Management Consulting |
|  | • Water                 |

# MR THOMAS RUST

- Works for Ramboll as Senior Consultant at the Rostock location
- 10 years of professional experience in the port, shipping and logistics industry
- Processing of various site-specific potential analyses for the use of LNG as marine fuel



## Contact

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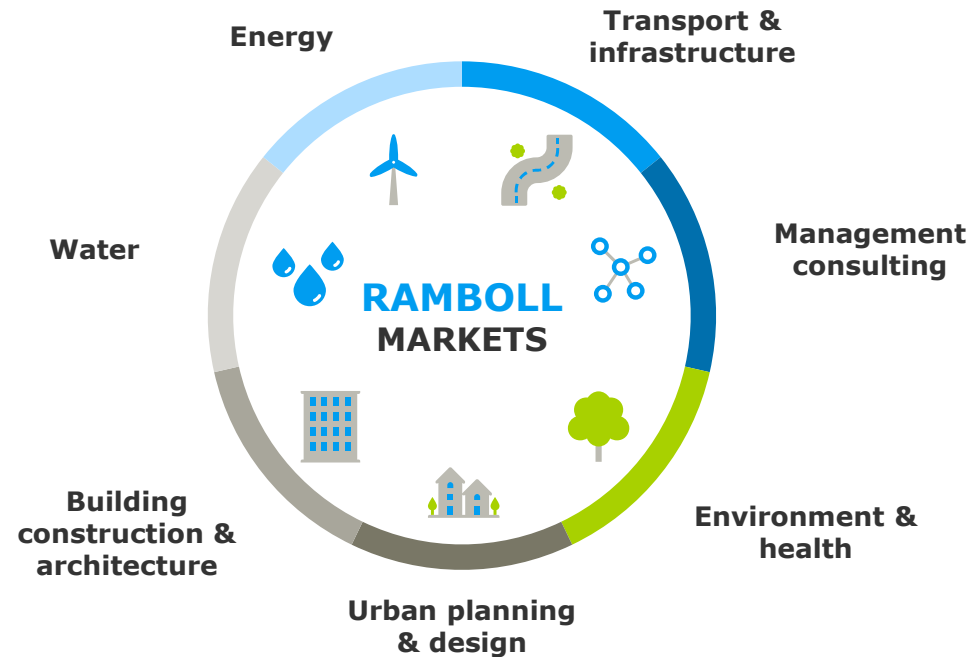
Ramboll Deutschland GmbH

Dierkower Damm 29

18146 Rostock

# RAMBOLL IN GERMANY

We know the German market and develop custom-made solutions for the specific challenges of our customers.



**600  
Experts**



**Established  
in 2000**

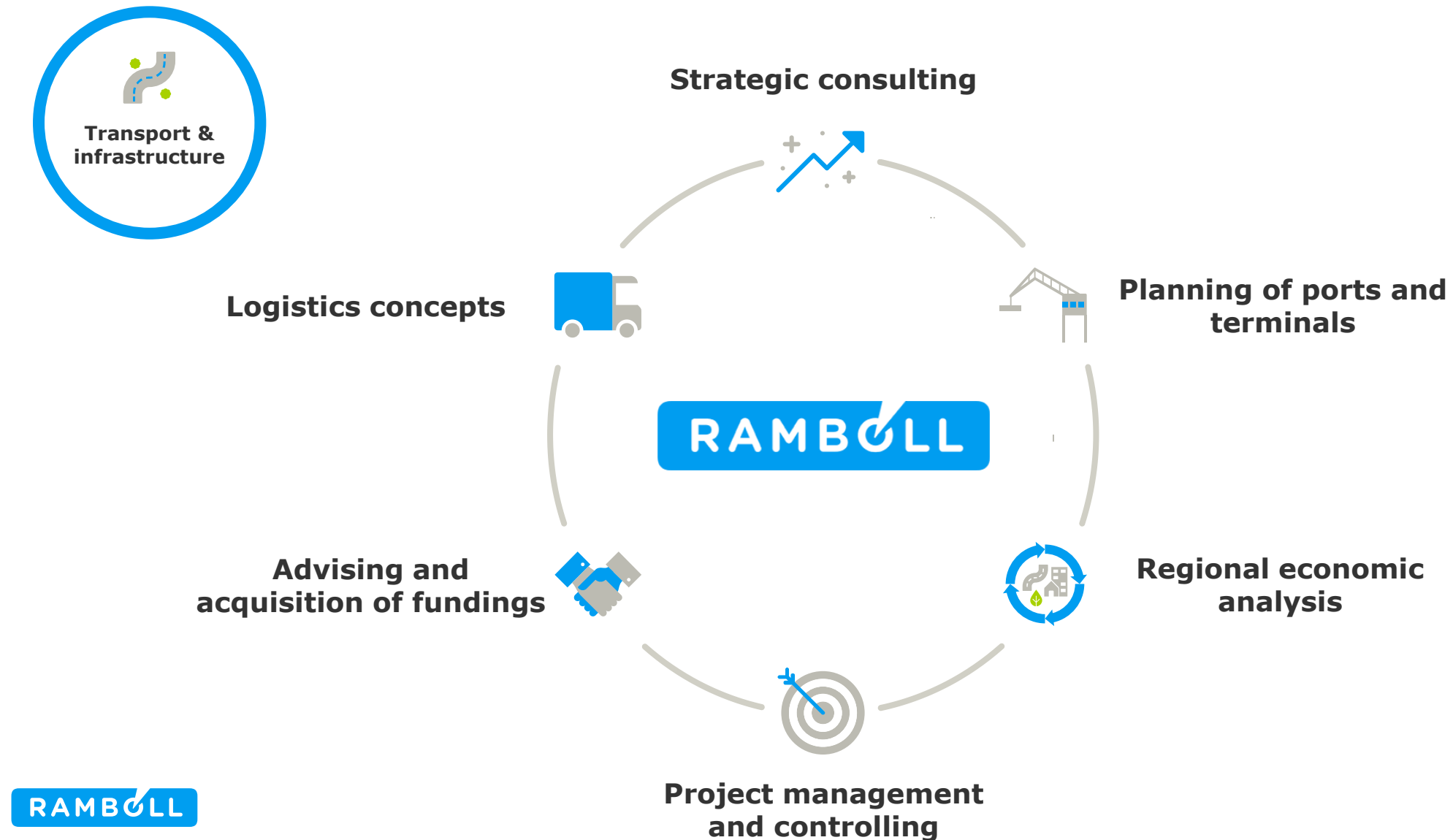


**Headquarters:  
Hamburg**



**11** Locations  
in Germany

# SERVICES ,STRATEGIC PORT PLANNING AND LOGISTICS'



# AGENDA

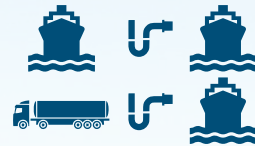
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# RECENT LNG BUNKER OPERATIONS BRUNSBÜTTEL PORTS

## Currently featured bunker modes:

- 1<sup>st</sup> StS-transfer in Germany in October 2019
- StS-transfers are subject to approval
- TtS-transfers are only subject to notification (est. 2017)



## Key issues of the authorisation:

- Special case regarding the competent licensing authority (LKN Schleswig-Holstein)
- Port captain is provided by the port operator and responsible for the security arrangements
- Use of the IAPH (International Association of Ports and Harbors) bunker checklists

## Port specifics:

- Proximity to the Kiel Canal and the Elbe fairway including pilot change
- Roadstead in the immediate vicinity of the port



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# RECENT LNG BUNKER OPERATIONS

## SEAPORT EMDEN

### Currently featured bunker modes:

- All bunkering activities are subject to approval
- TtS-bunkering since 2015
- 1<sup>st</sup> StS-transfer in August 2020



### Key issues of the authorisation:

- Definition of the approval framework by port authority order of the port captain
- Use of the IAPH bunker checklists
- Enabling of SIMOPS (simultaneous operations) during LNG bunker operation (vehicle handling)

### Port specifics:

- Continuous bunkering of ro-ro/passenger ferry MS Ostfriesland at Außenhafen Emden
- Participation of the WSA Ems Nordsee in the approval process due to the proximity to the Ems fairway



© Niedersachsen Ports / Flight Inspector Emden



# RECENT LNG BUNKER OPERATIONS

## ROSTOCK PORT

### Currently featured bunker modes:

- All bunkering activities are subject to approval
- TtS-bunkering since 2017
- 1<sup>st</sup> StS-transfer in January 2020



### Key issues of the authorisation:

- Performance of port authority tasks by the Hafen- und Seemannsamt of the Hanseatic City of Rostock
- Award of bunker licences (valid for 3 years) on the basis of a risk assessment designed to fit the conditions of the port of Rostock
- Granting of individual approvals where a licence is held

### Port specifics:

- Theoretical suitability of each berth for at least one LNG bunker mode according to the risk assessment



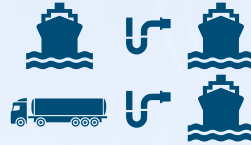
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# RECENT LNG BUNKER OPERATIONS BREMEN PORTS

## Currently featured bunker modes:

- All bunkering activities are subject to approval
- 1<sup>st</sup> TtS-transfer in a German Seaport (2015)
- 1<sup>st</sup> StS-transfer in June 2020



## Key issues of the authorisation:

- Responsibility for the approval of bunkering operations by the Hansestadt Bremisches Hafenamt
- Use of an own risk assessment based on established guidelines (e. g. EMSA Guidance on LNG bunkering)

## Port specifics:

- Periodic execution of initial LNG bunkering for ships built/converted in surrounding shipyards
- Proximity of the Stromkaje to the Weser fairway (frequency, size, speed of shipping traffic)



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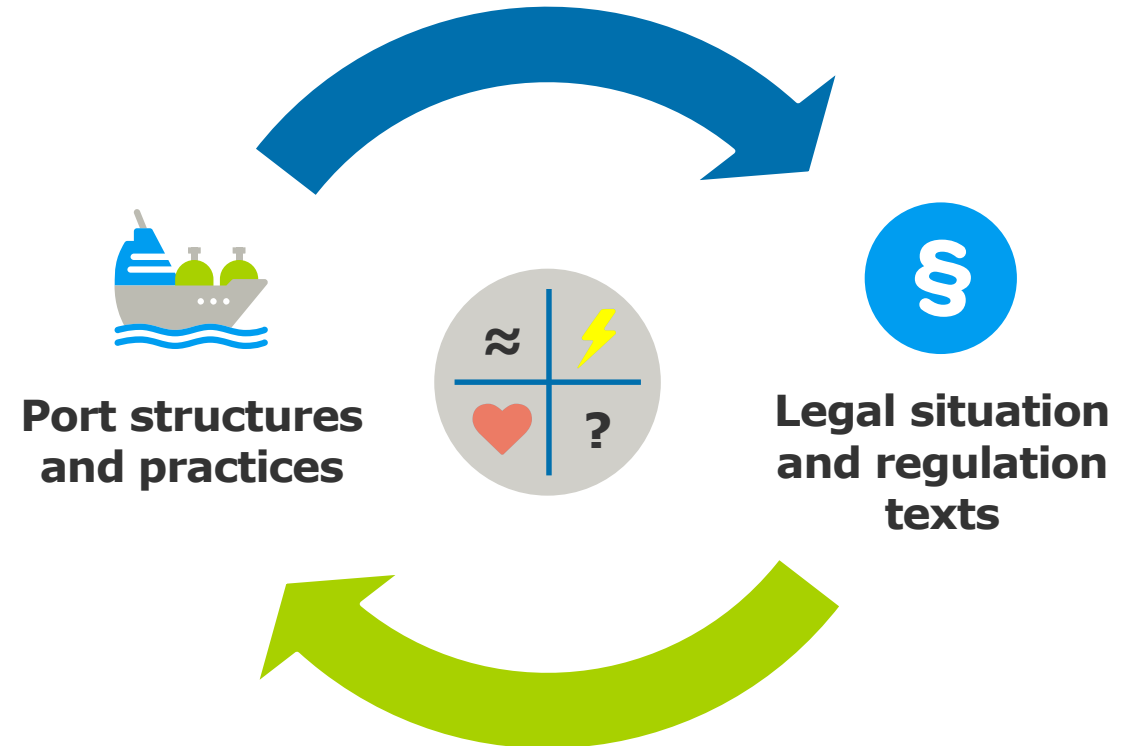


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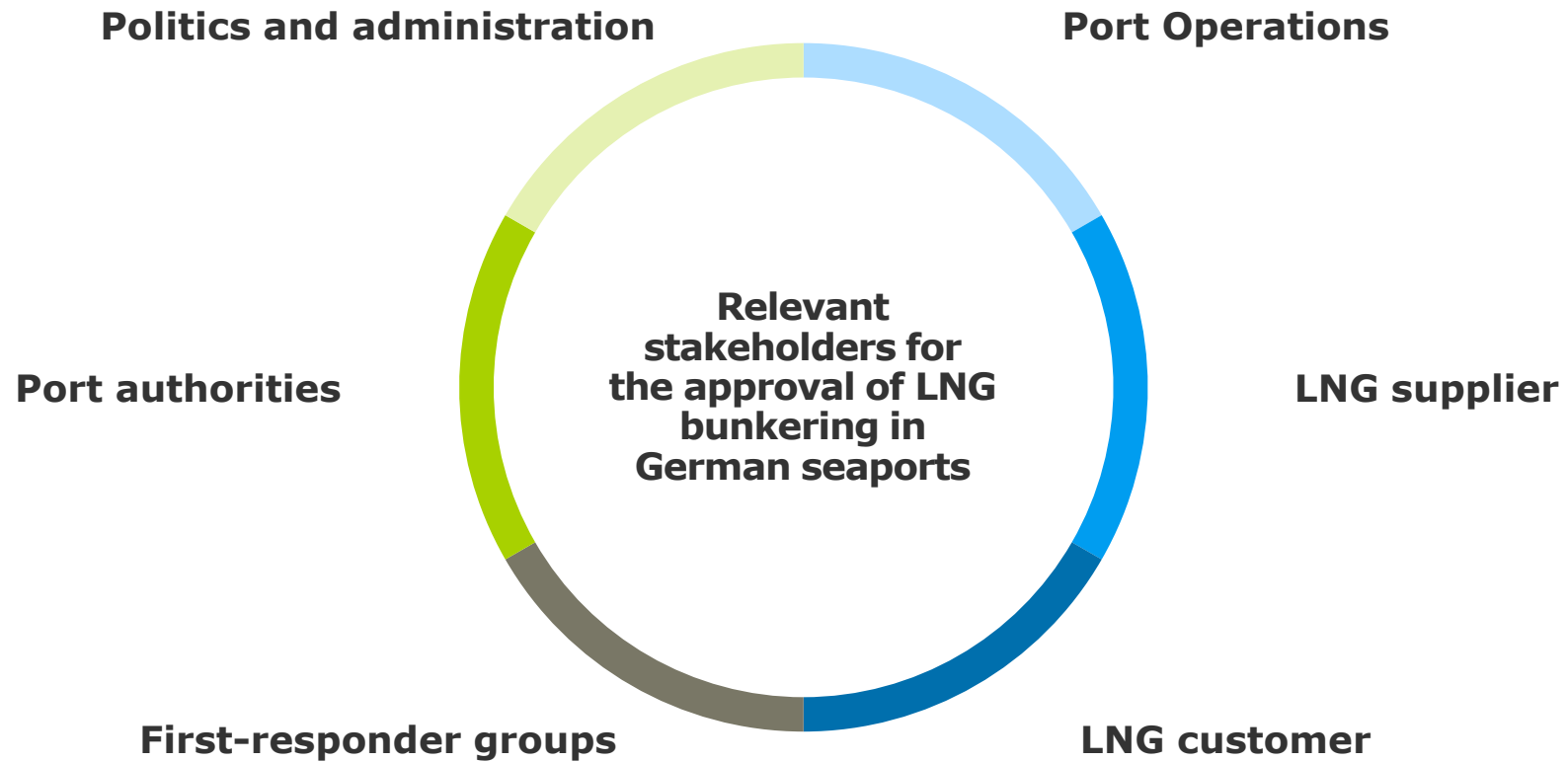
# FIRST LESSONS LEARNED AND UPCOMING ACTIVITIES

- Independent preparation or commissioning of risk assessments by port authorities due to a non-equivalent legal framework
  - Orientation towards existing international guidelines and recommended practice
  - Confrontation of LNG customers and providers with varying requirements depending on location
  - Site-specific differences regarding regulatory responsibilities and the pragmatism concerning the handling of LNG
- ➔ Continuation of the exchange of experience
- ➔ Potential harmonisation of the licensing practice through an appropriate level of regulatory requirements
- ➔ Preparation of a comprehensive guideline

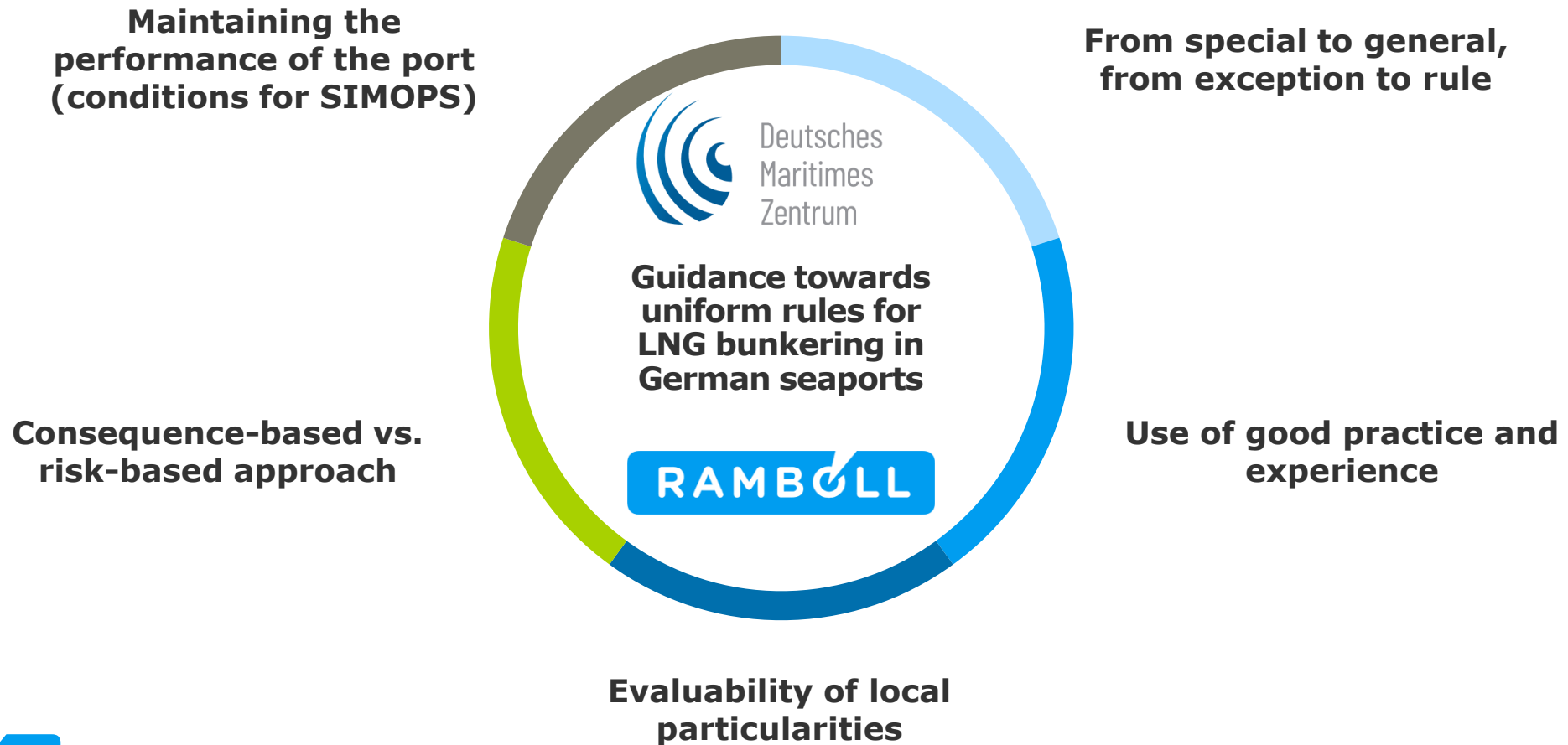




# PARTIES TO BE INVOLVED



# MAJOR TOPICS AND GUIDING IDEAS





# THANK YOU VERY MUCH FOR YOUR ATTENTION!

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Bright ideas. Sustainable change.

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