

IMMERSE

IMplementing MEasuRes for
Sustainable Estuaries



**TRANSNATIONAL
EXCHANGE
LAB**

12 - 13 June 2019

Gothenburg, Sweden



WHAT IS IMMERSE?

IMplementing MEasures for Sustainable Estuaries



7

estuaries

Scheldt (NL/BE), Elbe (DE)
Hulsegfjord/Holbaekfjord and
Roskildefjord (DK), Göta älv
(SE) and Tees and Humber (UK)

The aim of IMMERSE is to improve the quality of estuary management measures by using transnational knowledge and to increase stakeholder support.



11

partners

Lead partner: Flanders
Department of Mobility and
Public Works (MOW)

All project partners from across the North Sea Region will explore, develop, test and implement a wide range of measures in estuaries, focusing particularly on transnational cooperation and stakeholder integration.



3

years

IMMERSE will run from
October 2018 until September
2021

International cooperation in this highly specialised field will lead to more effective measures, due to exchange of knowledge and experiences on technical and governance issues.



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PROGRAMME

Wednesday 12 June 2019

09:00 - 09:30 Arrival and registration

Oceanen

09:30 - 10:40 Plenary session: introduction

Oceanen

- **Welcome and opening** by IMMERSE - Frederik Roose, Flanders Department of Mobility and Public Works, MOW (IMMERSE Lead Partner)
- **Introduction to Gothenburg Area:** "Regulation of Lake Vänern - a challenge for the Göta River and Gothenburg," Håkan Alexandersson, Regional Authority of Västra Götaland
- **Introduction to sediment management activities in the Port of Gothenburg** (description of the problem, how was it tackled before, current challenges), Nikol Nielsen Gulis, Chief of Project Management, Port of Gothenburg
- **Introduction to IMMERSE**, the TEL approach and specific goals, practical info about parallel sessions - Frederik Roose, MOW

10:40 - 11:00 Morning Break

Oceanen

11:00 Break-out Session I

- Sediment Management - Port of Gothenburg - Room: *Tången*
- Governance - Room: *Pater Noster*

12:30 Lunch

Arken Restaurant 1st Floor

PROGRAMME

Wednesday 12 June 2019 (continued)

13:30 Break-out Session II

- Sediment Management II – Research on metal recovery
– Room: Tången
- Flood protection management – Room: Pater Noster

15:00 – 15:30 Afternoon Break

Oceanen

15:30 Plenary Session: conclusion

Oceanen

- Feedback from breakout sessions
- Discussion and conclusion
- Outlook to next IMMERSE TEL
- Introduction to boat trip 13 June

17:00 Conference day end

18:30 Networking dinner

Arken Restaurant 1st Floor

*Beverages at own cost

PROGRAMME

Thursday 13 June 2019

08:30 Depart from Arken Hotel Lobby

Walk in group from Arken to quay 751 / 752 at Arendal for the boat trip along the Göta Älv

Moderators: Anna Wilhelmsson, COWI and Ann-Margret Strömvall, Chalmers University of Technology

- **The pilot project at Arendal**, Kristina Bernstén COWI and Eduardo Epifano Port of Gothenburg (quayside)
- **The history of Gothenburg port**, Eduardo Epifano, Port of Gothenburg
- **Gothenburg: the largest ongoing infrastructure and construction project in the Nordic countries.** Anders Svensson Architect and Project Manager The River City, Gothenburg City
- **Water Quality issues in Göta Älv**, Monica Dahlberg, Göta Älvs Vattenvårdsförbund
- **Stormwater contamination problems**, Ekaterina Sokolova, Chalmers University of Technology
- **Landslides risks.** Per Bolin, Swedish Geotechnical Institute
- **Contaminated sites**, Henrik Bengtsson, The County Board of Västra Götaland
- Lunch
- **Wading sea birds at Torsviken.** Eduardo Epifano, Port of Gothenburg
- Trip out to archipelago

12:30 Return to Arken Hotel

BREAK-OUT SESSIONS I WEDNESDAY 11:00 - 12:30

SEDIMENT MANAGEMENT I - PORT OF GOTHENBURG

Room: Tången

This session will share and work on measures related to sediment management from the Göta Älv estuary. Chalmers University (IMMERSE partner) and local institutions are developing methods to treat and reuse contaminated sediments from the Port of Gothenburg. This morning session will introduce a sediment stabilization pilot in the Port of Gothenburg and a similar case from the Scheldt estuary, and include a discussion of their activities and interaction among participants to contribute knowledge and expertise. The session will consist of small groups for an interactive brainstorming exercise, followed by report back and summary of main conclusions.

Moderators: Anna Wilhelmsson (COWI) and Ann-Margret Strömvall (Chalmers University of Technology)

Speakers:

1.Introduction to the expansion of Nya Arendal. Port of Gothenburg -

Eduardo Epifano, Port of Gothenburg

2.Short film about the stabilization project. (Swedish speech with English text).

Martin Jönsson, PEAB

3. Stabilization of TBT polluted sediments: Technology and environment -

Per Lindh, Swedish Transport Administration and Kristina Bernstén, COWI

4. TBT treatment methods from AMORAS treatment plan, Port of Antwerp -

Patrick Van Goethem, Flemish Department of Mobility and Public Works

*Participants can choose which parallel session they would like to attend.

BREAK-OUT SESSIONS I (CONT.) WEDNESDAY 11:00 - 12:30

GOVERNANCE

Room: Pater Noster

In addition to being complex natural environments, estuaries can also be subject to complicated management structures, responsible for considering diverse stakeholder interests. The initial preliminary results from an IMMERSE activity to improve stakeholder integration by analyzing and discussing past experiences will be presented for exchange among participants. The session will feature an interactive exercise in small groups guided by discussion questions including recommendations from previous projects, followed by report back and summary of main conclusions.

Moderators: Yvonne Andersson-Sköld (Swedish National Road and Transport Research Institute, VTI) and Sebastien Rauch (Chalmers University of Technology)

Speakers:

- 1. Introduction to activity:** improve stakeholder integration by analysing and discussing past experiences
- 2. Göta Älv case** - Deliliah Lithner, Swedish National Road and Transport Research Institute (VTI)
- 3. Elbe case** - TBD
- 4. Humber Case** - Yvonne Andersson Sköld, Swedish National Road and Transport Research Institute (VTI)

*Participants can choose which parallel session they would like to attend.

BREAK-OUT SESSIONS II WEDNESDAY 13:30-15:00

Sediment Management II - Research on metal recovery

Room: Tången

This session will continue from the topic as introduced in the morning session, with a focus on development of new methods for treatment of sediments polluted with TBT and at the same time recover metals from sediments in the Port of Gothenburg. The session will feature an interactive exercise in small groups for brainstorming, followed by report back and summary of main conclusions.

Moderators: Anna Wilhelmsson and Kristina Bernstén (COWI)

Speakers:

1. Background to the research.

Aim and goal. Societal values. Research and scientific challenges
Associate Professor Karin Karlfeldt Fedje, Chalmers University of Technology
/Renova waste and recycling company

2. Results from the research

Enhanced leaching of metals and TBT from contaminated sediments.
Comparison of management strategies for metal-contaminated dredged
sediments – Anna Norén, Chalmers University of Technology

3. Continuation of the research

Hypothesis? Ongoing tests with photocatalytic electrolysis and phytoremediation
Professor Ann-Margret Strömvall, Chalmers and Associate Professor Karin
Karlfeldt Fedje, Chalmers/Renova

*Participants can choose which parallel session they would like to attend.

BREAK-OUT SESSIONS II (CONT.) WEDNESDAY 13:30-15:00

Flood protection

Room: Pater Noster

The objective of this session is to introduce the challenges that the City of Gothenburg is facing to protect the city from flooding and to share experiences from other estuary/city managers about flood protection in urban areas. Description of the problem in the City of Gothenburg and the challenges ahead. This session will address:

1. Description of the problem in the City of Gothenburg and the challenges that lie ahead:

- Who is the problem owner in Gothenburg?
- What is the strategy to deal with the problem?
- What input from other estuaries might be helpful?

2. Exploration/assessment of solutions

- What solutions have been investigated?
- In what stage is the development of solutions: exploration of ideas, pilot studies, assessment of alternative solutions, design of a preferred solution?

Moderators: Frederik Roose (Flanders Department of Mobility and Public Works MOW) and Sebastien Rauch (Chalmers University of Technology)

Speakers:

1. Göta Älv presentation – flooding issues in City of Gothenburg – Ulf Moback, City of Gothenburg

2. Flood protection strategies in other areas:

– Sigmaplan as flood protection strategy in Flanders. Koen Segher, De Vlaamse Waterweg

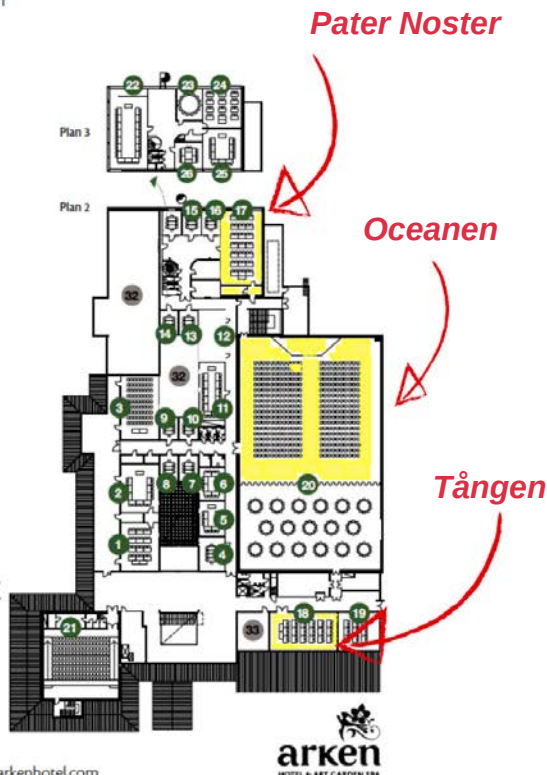
*Participants can choose which parallel session they would like to attend.

VENUE

Konferenslokaler på Arken Hotel & Art Garden Spa

KONFERENS	BEG	SKOL	ÖAB	B-BORD
1 AKERN	50	32	24	24
2 BÖLEN	50	32	24	24
3 CYKLOREN	50	32	24	24
4 EKAN	20	12	12	12
5 FJÖRDEN	20	12	12	12
6 GRÖNNAN	20	12	12	12
7 HOLMEN	14 kvm			
8 INNANSKÄRET	14 kvm			
9 JÖLLEN	14 kvm			
10 KORVEN	14 kvm			
11 LANTERNAN	50	32	24	24
12 MASTER / ACTIVE MEETING CONCEPT				
13 NALADEN	14 kvm			
14 ÖSTRUMET	14 kvm			
15 SKÄLLEN	13 kvm			
16 MATSKÄR	13 kvm			
17 PATER NOSTER	70	60	32	36
18 TÅNGEN	70	60	32	36
19 TÄRNAN	50	32	24	24
20 OCEANEN	1000			
21 AULAN	152			
22 VINGA	70	60	32	36
23 UTÖKEN	20	12	12	12
24 UDDEN	40	24	16	18
25 KALYSUND	40	24	16	18
26 HÄLLEN	20	12	12	12
27 VÅGEN	50	32	24	24
28 VIKEN	100	70	80	36
ÖVRIGA LOKALER				
29 ENTRÉ/HOTELLRECEPTION				
30 RESTAURANG				
31 UTESERVISNING				
32 ART GARDEN SPA				
33 KONFERENSRECEPTION				

Vi har 28 konferenslokaler och grupprum som rymmer mellan 5–1000 personer, där alla är utrustade för högsta komfort med ergonomiska stolar, generösa skrivtavlor och justerbart ljus. Samtliga har projektor eller TV-skärm. Wifi finns tillgängligt på hela anläggningen och i 18 av våra huvudlokaler erbjuder vi dessutom fast bredband.



Arken Hotel & Art Garden Spa • Nordatlanten 100, 418 34 Göteborg • 031-726 25 05 • www.arkenhotel.com

Arken Hotel & Garden Spa

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Wi-Fi: Arken_Guest
Password:
LOTUSHOTEL

Conference rooms: Oceanen, Tången and Pater Noster. The lunch and the networking dinner will take place in the restaurant of the Arken Hotel



PARTICIPANTS

First name	Last name	Affiliation	Country of work
Håkan	Alexandersson	County Administrative Board Västra Götaland	Sweden
Yvonne	Andersson-Sköld	VTI	Sweden
Maria	Axbrink	The Gothenburg region (Göteborgsregionen)	Sweden
Henrik	Bengtsson	Länstyrelsen i Västra Götalands län	Sweden
Kristina	Bernstén	COWI	Sweden
Lena	Blom	Dept. ofsustainable waste & water City of Gothenburg	Sweden
Dr. Maik	Bohne	Die Gespræchspartner	Germany
Love	Bojén	Länsstyrelsen Västra Götaland	Sweden
Per	Bolin	Statens Geotekniska Institut	Sweden
Clara	Coornaert	s.Pro - sustainable projects	Germany
Monica	Dahlberg	Water Quality Association of the Göta älv	Sweden
Olle	Dahlberg	City of Gothenburg	Sweden
Ole	Dalgaard	The Danish Coastal Authority	Denmark
Lisa Simone	de Grunt	s.Pro - sustainable projects GmbH	Germany
Jannie	Dhondt	De Vlaamse Waterweg nv	België
Niklas	Edvinsson	Swedish Agency for Marine and Water Management	Sweden
Lisa	Ekström	Göteborgs Stad	Sweden
Eduardo	Epifanio	Port of Gothenburg	Sweden
Johan	Eriksson	Swedish Maritime Organisation	Sweden
Josefine	Evertsson	City of Gothenburg Environmental Administration	Sweden
Ida	Fossenstrand	Project manager	Sweden
Zoe	Fraser	Tees Rivers Trust	United Kingdom
Karsten	Garborg	Sweco A/S	Denmark
Rebecca	Härd	Länsstyrelsen i Västra Götaland	Sverige
Anna	Hulterström	Göteborgs Universitet	Sverige
Martin	Jönsson	Peab Grundläggning AB	Sweden
Karin	Karlfeldt Fedje	Renova and Chalmers	Sweden
Anna	Karlsson	Tyrens AB	Sweden
Steven	Krol	Frames	Netherlands
Ben	Lamb	Tees Rivers Trust	United Kingdom
Gert-Jan	Liek	Rijkswaterstaat	The Netherlands



PARTICIPANTS

First name	Last name	Affiliation	Country of work
Per	Lindh	Trafikverket	Sweden
Delilah	Lithner	VTI	Sweden
Célia	Lointier	Contaminated sediments	Sweden
Anna	Markiewicz	Chalmers University of Technology	Sweden
Eva	Mathsson	Traffic department	Sweden
Alison	Miles	Environment Agency	England
Ulf	Moback	City of Gothenburg	Sweden
Oskar	Modin	Chalmers	Sweden
Nikol	Nielsen Gulis	Port of Gothenburg	Sweden
Anna	Norén	Chalmers University of Technology	Sweden
Malin	Norin	FRIST	Sweden
Thomas	Nygren	Älvstranden Utveckling AB	Sweden
Victoria	Ortiz	Federal Waterways Engineering & Research Institute	Germany
Cynthia	Pauwels	Antwerp Port Authority	Belgium
Lotte	Pedersen	Sweco	Denmark
Peter	Plantman	ÅF Infrastructure AB	Sweden
Elisabet	Porse	Kretslopp och vatten, Göteborgs stad	Sweden
Holger	Rahlf	Federal Waterways Engineering and Research Institute	Germany
Mats	Ransgård	Älvstranden Utveckling AB	Sweden
Sebastien	Rauch	Chalmers University of Technology	Sweden
Frederik	Roose	Dep. Mobility and Public Works	Belgium
Ann-Christine	Schleret Lember	Länsstyrelsen Västra Götaland	Sweden
Koen	Segher	De Vlaamse Waterweg	Belgium
Ekaterina	Sokolova	Chalmers University of Technology	Sweden
Ann-Margret	Strömvall	Chalmers University of Technology	Sweden
Jonas	Sundin	Swedish Maritime Administration	Sweden
Anders	Svensson	The River City, Gothenburg City	Sweden
Patrick	Van Goethem	Maritieme Toegang	Belgium
Clare	Waldmann	s.Pro – sustainable projects	Germany
Anna	Wilhelmsson	COWI AB	Sweden
Kirsten	Wolfstein	Hamburg Port Authority	Germany





FOR MORE INFORMATION:
[NORTHSEAREGION.EU/IMMERSE](https://northsearegion.eu/immerse)

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