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| Senate Chancellery | |
| Section for European Politics | |
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LAND-SEA – Thematic Seminar

17th of September 2019, Hamburg city hall

Protocol: (revised by Jan von Haefen)

Occasion: Meeting of the LAND-SEA-Project partner

The meeting commences with the official welcome and introduction of the agenda and organizational matters by Mr. Jan von Haefen at nine o'clock. . Thomas Jacob ensures with a short guided tour through the city hall at half past nine.

Afterwards (at 10:15 am) Natasa Manjlovic explains the thematic of Multi-purpose flood protection infrastructure with the focus on the City of Hamburg. This includes the scope setting, key challenges and issues and multi proposed spaces and flood infrastructure in the context of asset management by facing nature based solutions. Moreover she points out the flood protection strategy and assets of the City of Hamburg, further examples and a conclusion and outlook.

The Italian partners contribute on the “main HH issues” at 10:45 am. Pasquale Contestabile points out that sustainability has become the current banner of political correctness, including the goal of human survival and conservation of biodiversity through facing the value of its holistic meaning. Not just focusing on one aspect includes facing the framework and causally hang of the flooding defence system, the waters influence, the damages and our consumer lifestyle and unsustainable approach to the water in terms of blue economy, shipping, land uses and tourism. Rising sea level together with regionally increased storm activity, caused by elevated and increasing levels of greenhouse gases in the atmosphere will increase in many parts of the world the risk of storm surges significantly. Reducing the emissions of

greenhouse gases into the atmosphere may mitigate the increasing risks somewhat, but the major task for regional and local stakeholders will be to prepare for appropriate adaptation. In most cases, possible strategies include intensification of coastal defense measures, in particular strengthening dykes, and adaptation to intermittent flooding. In case of Hamburg and the tidal Elbe river a third option seems to be available, which aims at mitigating storm surge risks by applying estuary engineering constructions. This option is sketched in this paper. The option has the potential to reduce significantly the expected future increases of local surge heights.

Innovative and enormous flood defences have been made and German hydraulic engineering is showing its best.

A contribution in technical terms to such level of knowledge is really hard. However, a possible suggestion can be derived from what is heard from the last hydraulic engineering conferences in various part of Europe on the issue of sustainability of the Land-Sea system.

Options for dealing with future elevated storm surge levels at the coast and estuary are implemented by fortifying, extending presently installed coastal defence, flexible response strategies, design dykes such that the amount of water which may safely spill over a few hours is considerably larger than allowed today and the partial undoing of previous man-made increases.

Moreover he points out the lessons learned from Venice. Over the past 50 years, large sections of Venice lagoon have been deepened to accommodate cruise ships. This process has kept some jobs in the city, but it has come at an ecological price. Deepened channels have encouraged the tides to sweep further down the city.

He raises awareness that the plan to dredge the river Elbe foresees the dredge about 130km of the river, would enable even the mega-ships with a draught of 14,5 meters to reach the port and leads to implications for health and property due to the effects of noise and vibrations resulting from dredging. Emerging hydraulic scientific community issues include new economic design approach for structures and action plan, to ensure more resilience of structures and action plan and the promotion of soft defence.

He explains the OBREC innovation which is the move from traditional design approach with the aim to dissipate incoming wave energy to a new concept of capturing wave energy to use the big amount of wave power in Europe.

the little naughty kid need of re-education. This means that our tourism must be ecotourism.

Afterwards Henrik Lesaar gives the official welcome speech and invites to a coffee break at 11 am.

At 11:15 am the Spanish partners contribute on the “main HH issues”. Mr. Ortiz Ramon explains

11:15 Contribution of the Spanish partners on the “main HH issues”

Mr. Ortiz, Ramon

- **Barcelona:** analysis of combined sewer overflow CSO, coastal water management,
- **1.** Overflow spots, examples of the flood area, criterias: Masterplan works with objectives agreed,
- Rainfall analysis in Barcelona: dec. heaps, for planning situation, 15 water storage tanks with total 477
- Sustainable urban drainage systems SUDS like Place de les Dones, Bon Pastor,
- **2** Problems: floods in the city and rain,
- Barcelonas drainage system: lots of episodes of heavy raines
- Barcelonas receiving waters. Urban beaches: total length of 4,5 km (10 beaches) over 3,500,000 users in 2004 summer, quality- reduce combined sewer through rain water management, detention tanks (retain water send to WWTP) Urban drainage sustainable techniques, problem when rain is so heavy that the pipes cant handle -> fill tanks, storage in pipes during rain, after rain empty them,
- Problem: solids, rain helps to clean the city, solid retention techniques

- Water quality forecast and control- modelling real time tools (12 hours forecast), water samples (model calibrate) Quality control sensors, BCASA control center-> automatically APP for mobile phone, Barcelona Council Web page, Beach Information panels,
- Improve the quality at the beaches -> water
- Questions: board with many informations from BCASA control center, flags for quality, cleaning the water in advance, recommondations to do more: not to put rubbish, campains more to focus on recycle and less threw it away, not put the rubbish in the toilets, plastic in the water, buy it in a glass not a plastic glass, plastic bags get collected,

11:45 Contribution of the Bulgarian partner; Reconstruction of water conductivity of flood control channels on the territory of asparuhovo neighbourhood, Varna

Further details are displayed in the presentation.

12: 30 lunch

13:30 Presentation of the Staff exchange programme in Italy

- The same level of information is needed by every partner to plan of what is going to happen next semester. Explanations are given about the modules, the aim of exchange, and the developed competences. HOW: There will be an agenda of the exchange by every partner, WHERE: Each partner will give the necessary information's about the needed logistics at site, WHEN: The dates for the staff exchange have various options and are terminated by each partner.
- Role of experts: learning process, present: Support of the experts, 2 or more thematic papers and training the staff- not going to send people who are not in the project, who is going to other regions,

13:50 Preparation of the Staff exchange: Best practice by Barcelona

Training is planned at the ecosystemic urbanism, further information's can be provided by Miss Garcia and Mister Sanchis.

The idea is to have two sessions about organisational instruments, as well as the work on a simulation that allows different indicators to be displayed.

Further information's are presented in the presentation of Barcelona

14:00 Preparation of staff exchange. Catalonia

Xavier Cazorla can give further information's. The tasks at the staff exchange will be discussed finally between the participating partners and experts.

14:20 Varna's Promenade Shore protection and recreation combined

Presented by Mr. Marinov

Further information's are presented in the presentation of Varna

15:30 Preparation to the Staff exchange: Best Practice by the italian partners

Presented by Diego Conte

The idea of the Italian Partner is to provide two modules (A: Santanastasio; B: Roscioni) with the potential topics: Management and valorization of coastal habitats, Transfer:

16:15 - Briefing of the experts panel

First impressions by the experts are given.

The framework of the action plan for 2019 is discussed. All partners have to prepare an action plan which has to be included by chance into the local politics.