

What we done in Germany?

- AIS roll-out on nearlyall navigable inland waterways
- AIS and data regulationby German government
- A few research projects
 on smart shipping are still running
 e.g. COMEX, RISCOMEX, LAESSY, SCIPPPER





Political Agenda

- New German governement proposes a rapid digitalization in IWT
- Set up a Masterplan for IWT
- Set up an Actionplan for AI –
 Foster Automated and Autonomous IWT
- Defining testing areas:
 - Dortmund-Ems Canal (near Rhine)
 - River Elbe
 - Spree-Oder-Waterway near Berlin
 - Hamburg Port





What we plan to do?

■ Competence Center for Autonomous IWT in North-Rhine-Westfalia

Collecting all relevant expertise from several universities and research institutions around Duisburg

Funded by regional government – building a competence center

Perspective 2-5 years for demonstrator



What we plan to do?

Project of Automated and Autonomous IWT near Berlin

- Working together with German waterway administration, bringing them into force and seat for autonomous IWT
- Clear vision on automous IWT precise satellite positioning, AIS/VDES, 5G communication, remote control on vessels, remote lock management etc.
- Building up testing field 2020 ff parallel adaption of regulation
- Additional path in Berlin City: approach with small autonomous vessels, full-equipped, using Al

What we plan to do?

■ Elbe 4.0

- Challenge to plan and test smart shipping on river
- Elbe on most of the rivers without locks
- General challenge of low water
- Digitalisation of IWT as a chance to use Elbe better for IWT
- Elbe very critical political topic (NGO's)

