Smart Shipping IWT in Germany

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What we done in Germany?

- AIS roll-out on nearly all navigable inland waterways
- AIS and data regulation by German government
- A few research projects on smart shipping are still running e.g. COMEX, RISCOMEX, LAESSY, SCIPPPER
New German government 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 autonomous 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 AI
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)