Inland AIS in the Netherlands

State of the art
traffic manager

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Rijkswaterstaat
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Implementation of AIS

- Inland AIS is an important new tool for traffic management
  = choice for automatic reporting and tracking
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  - Traffic management (TM)
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AIS is additional to radar information
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Political situation in the Netherlands

- 2005/44/Implementation of Tracking and Tracing is (yet) not obliged, but when doing so The Standard should be followed
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  - both government and branch have chosen for AIS and not for AI-IP
  - Implementation of inland AIS in the Netherlands
  - Costs are partly paid by the Netherlands government for all users of Netherlands waterways and nationalities,
  - With regard to privacy the number of obliged data via inland AIS is (for the time being) restricted.
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Other Agreements in the Netherlands

- Between the waterway police authority and the branch-organisations

- For general purposes no use of AIS data is made

- Only in case of severe cases and then only with a instruction of the Counsel
AIS on board in the Netherlands

- Support program in the Netherlands for 2009 – 2011
- The cost of buying a transponder is subsidized by the Netherlands Government
- With a own contribution of 500 Euro per vessel
- The program covers costs of transponder and installation of transponder on board.
- But the Program does not cover costs for a link with inland ECDIS viewers or other onboard equipment
- The program is for the following vessels:
  - Length >20m
  - Commercially active
  - Proven user of Netherlands waterway network (so for all possible nationalities)
- And keep in mind that Inland AIS transponders need to be certified according to the inland AIS test standard
- The estimated costs are 18 Million Euro
- The estimated total of 8000 vessels can be equipped
Inland AIS implementation international

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- **Important note:**
  - The program can be used for all vessels using the waterway networks of Germany and the Netherlands, so will be regardless of the flag of the vessel.
AIS shore based infrastructure for monitoring the inland waterway network

- Installation program for the entire area of the Netherlands
- Estimated project cost are about 30 Million Euro, including data communication and exploitation of the system until 2017.
- Installation will run between 2009 and 2011.
- In 2009 the corridor Rotterdam-Germany (Rhine) will be covered.
- The second corridor is Rotterdam-Antwerpen
Results of first survey of required AIS base stations
Pilots RIS in Netherlands making use of inland AIS equipment

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- In 2008 all 45 patrol vessels of RWS are equipped with AIS. So it is possible for the VTS centre to have a better coordination
Looking into the future 1

Some general remarks with regard to the years to come
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Looking into the future.1

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- The same is true for VTS centres, VTS operators should be aware that on some vessels equipment is not working correct and the should be aware of some position inaccuracies. (satellites)
Looking into the future 2

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Looking into the future.2

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- Data processing can be done for the greater part automatically
Be aware that transponders cannot solve all the problems of the authorities and the skippers!!