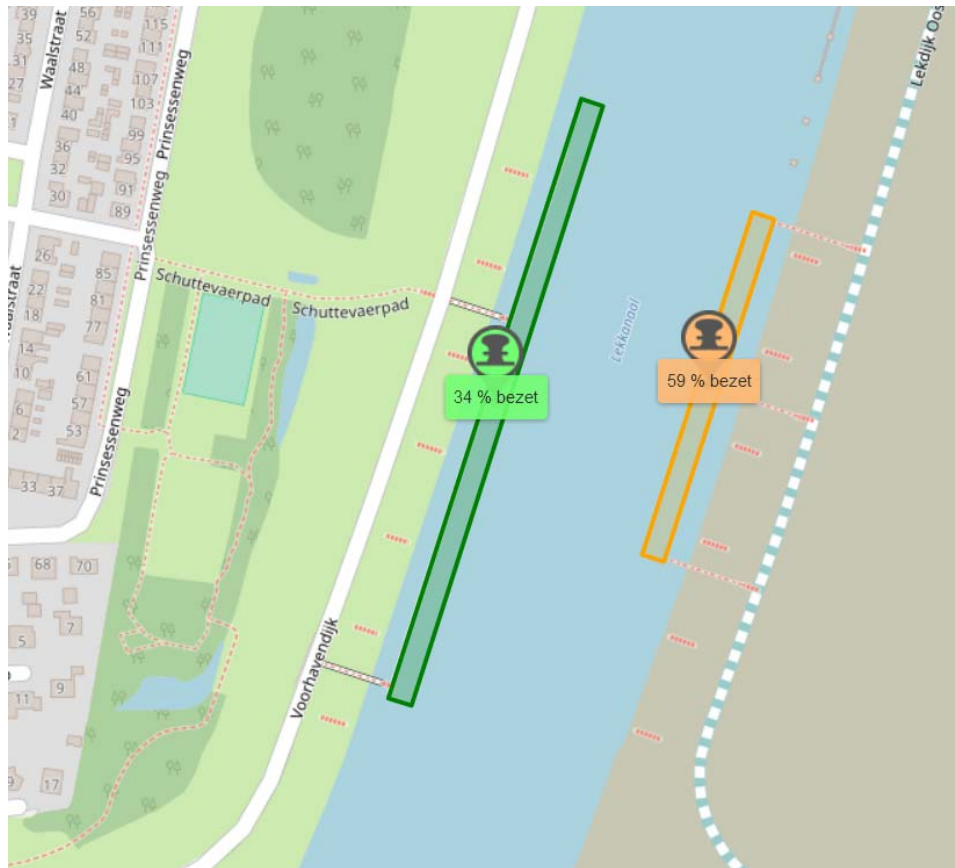Rijkswaterstaat
Ministry of Infrastructure
and Water Management

# BLIS
# Berth Information
# System

Roelof Weekhout Msc BEnvE
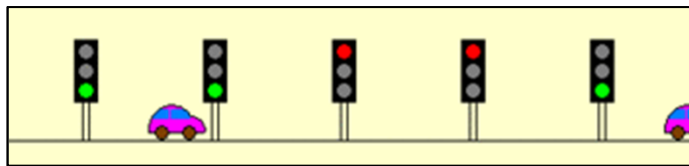
November 2018

# This presentation

- Prelude to BLIS

- BLIS in detail

- Expanding BLIS
  - to national level
  - ...and beyond?

# Prelude to BLIS

- Several projects focussed on optimization of lock & berth use

  ➔ need for a "Blue Wave" policy



- <u>Blue Wave</u>

  1) Path & convoy management ➔ tool for tall ship routes

  2) Lock planning ➔ real time tool for users; estimate lock passage time

  3) Bridge planning ➔ decision support system for bridge operators

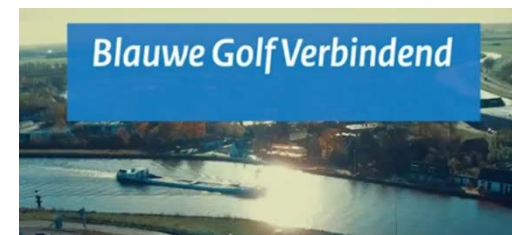  4) Berth location and information system ➔ real time tools for users

# BLIS in detail

- **B**innenvaart        **B**innenschifffahrt        **B**erth
  **L**igplaats          **L**iegeplatz              **L**ocation &
  **I**nformatie         **I**nformations            **I**nformation
  **S**ysteem            **S**ystem                  **S**ystem

- Initiative by the Port of Rotterdam (2014)

- Open system → Port of Amsterdam & Dutch government joined

- All data available on one platform: www.blauwegolfverbindend.nl

# BLIS in detail

- **What can BLIS do**
  - give real-time availability
  - dimensions of the berth
  - types of ships allowed
  - ADN-ships allowed (# of cones)
  - extra functions like car drop-off

- **How does BLIS work?**
  - detects AIS transponder in a polygon
  - calculates & stores % availability

- **Wat is BLIS not?**
  - berth reservation system
  - tool for law enforcement
  - pleasure craft

**WAALH 2 SPUDPAALLOCATIE**

**Ligplaats**

| | |
|---|---|
| Lengte ligplaats | 135 |
| Breedte ligplaats | 20 |
| Max. toegestane scheepslengte | 135 |
| Aangelegde schepen | 0 |
| Bezette breedte | 0 |
| Scheepstype(n) | MVSC, MVSB, MTS |
| Kegels | 0 |
| Afmeervoorziening(en) | Geen |
| Afmeerfunctie(s) | Wachten |
| Afmeeroptie(s) | SPL |

Laatste geregistreerde wijziging: 15-12-2017 02:01 door Havenbedrijf Rotterdam. –
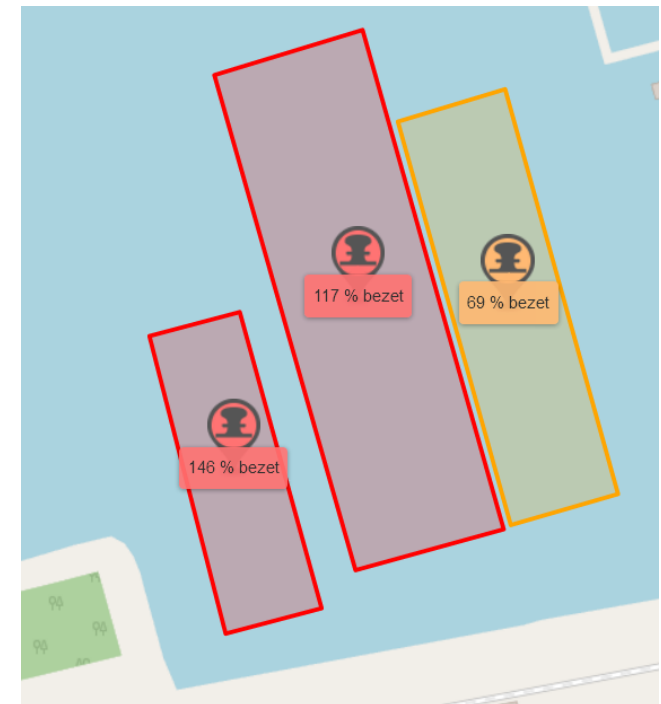
0 % bezet

www.blauwegolfverbindend.nl

Live demonstration
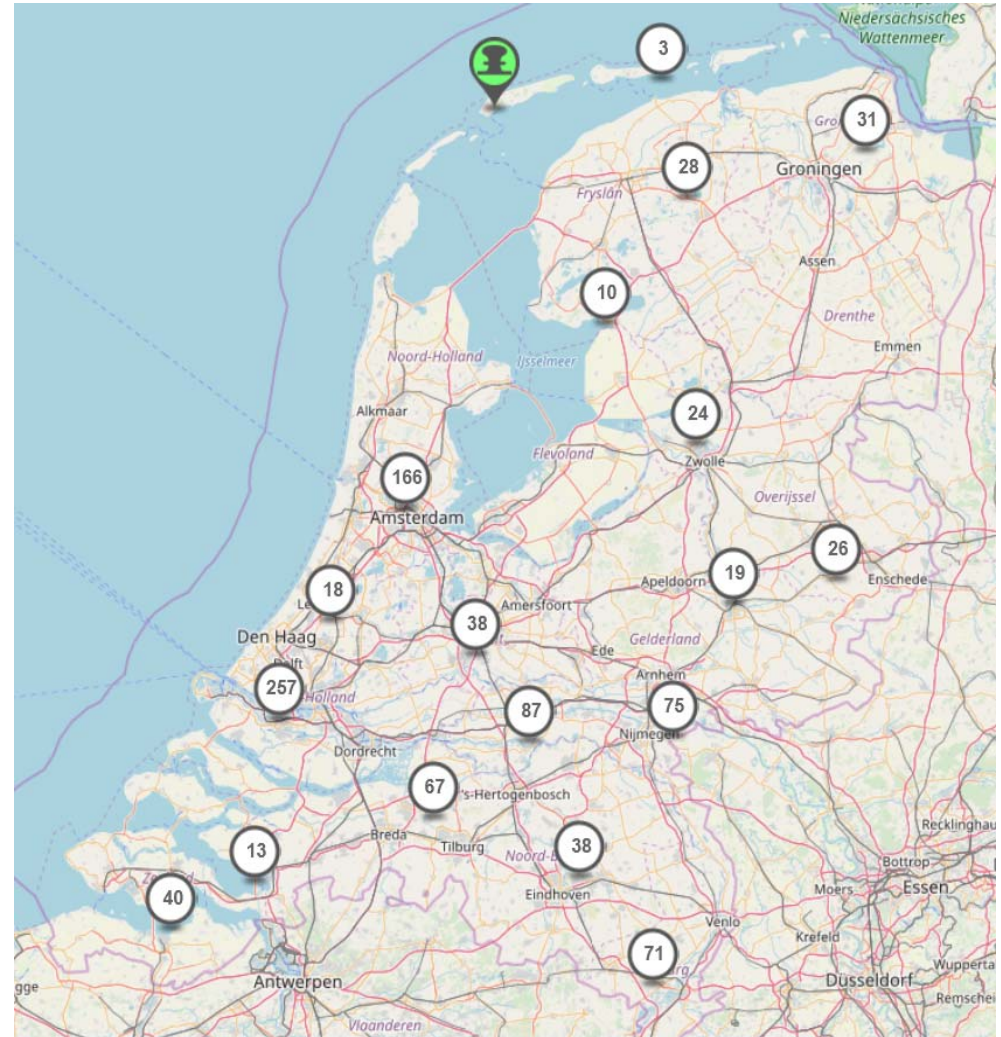
# BLIS in detail

- **Chalenges**
  - Solve system errors
  - Keep the polygones up to date
  - GDP regulation (2016/679 EU)

- **Plans for the future**
  - Use BLIS to report berth damage & problems
  - Integration in River Guide App
  - Integration in ECDIS (PC Navigo, Tresco)?
  - BLIS terminal for lock & bridge masters

  ! BLIS will remain a free & voluntary service

# Expanding BLIS

- **Port of Rotterdam**: +250 (2014)

- **Port of Amsterdam**: +150 (2016)

- **Rijkswaterstaat**: +700 (2018)

- **All others ports, provinces & municipalities**: +500-1000 (2019-2021)

- **Other countries?**

# Questions