

DATA COLLECTION ON ACCIDENTS IN INLAND NAVIGATION



Examples of practical experience in the Netherlands

Timco van Brummelen
12 OCTOBER 2020

RWS INFORMATIE

1

-1



Why we register shipping accident data

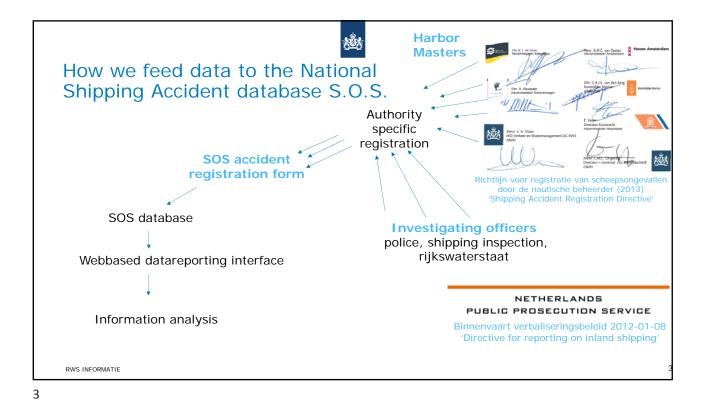
Laws: Reporting of accidents and safety issues to the competent authority is mandatory (and requires registration)

Reliable data on shipping safety at sea, in harbours and inland waterways is needed as a basis for risk based

- safety policy
- · management of shipping activities
- inspection

RWS GEGEVENS

2



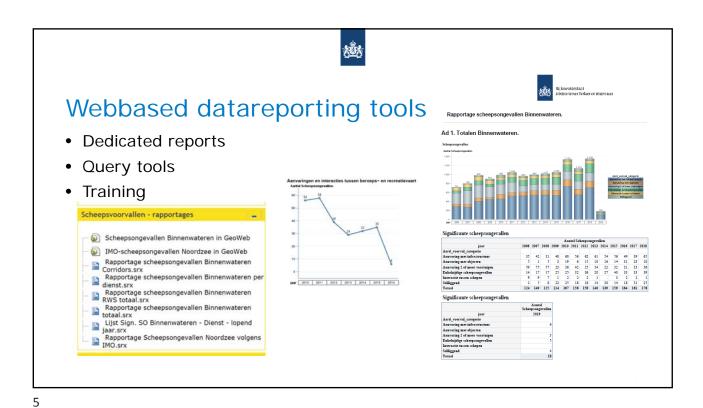
National accident registration

- All serious shipping accidents
- As complete as possible for less serious shipping accidents
- Equal level of reporting by different harbor masters
- Reliable and accurate national reporting of shipping safety

Reported to parliament (accountability of safety policy)

Research and analysis to improve riskmanagement and monitor risk development

4



Interface for geographic Kilometrering Vaarwegen analysis Scheepsongevallen Scheepsongevallen significant A 2016 Significant scheepsongeval 2008 Voorvalnumer: 20096091
Aanleverende Instantie Omschrijving: Schuttevaer
Aanleverende Instantie Omschrijving: Schuttevaer
Aanleverende Instantie Naam:
Typering Voorval Omschrijving: Significant scheepsongeval
Datum Voorval: 447-2008
Tijdstip Voorval:
Jaar Voorval: 2008
Aantal Betrokken Schepen: 3
Bots en Interactie Partners: Alleen Recreatievaart
Betrokken Vaart: Alleen Recreatievaart
Betrokken Vaert: Alleen Recreatievaart
Aard Voorval Code: SS99
Aard Voorval Omschrijving: Onbekend
Aard Voorval Additionele Info:
Aard Voorval Niveau 2: Varend
Aard Voorval Niveau 3: Verkeresongeval
Aard Voorval Niveau 4: Schip-Schip
X Coordinaat: 192679
Y Coordinaat: 192679
Y Coordinat: 192679
Y C A 2014 A 2012 <u>A</u> 2010 A 2009 **2008** Scheepsongevallen niet significant Vaarweg kenmerken ⊕ **WM Regio** Nationaal Wegen B Veiligheidsregios ٦ × × › Toevoegen aan selectielijst | Toon aanvullende details 6

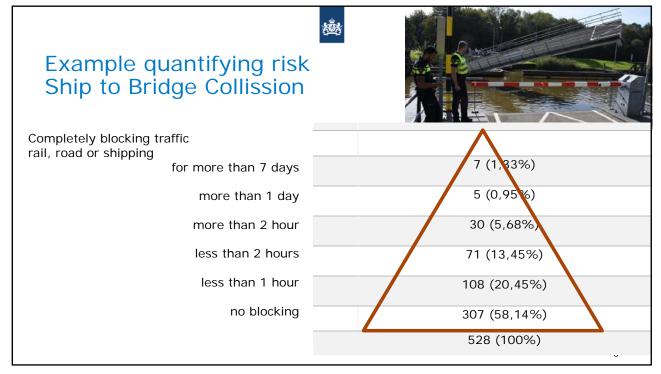


Strength and weakness of accident data

- + Overview of different types of accidents and locations
- + High coverage of serious accidents
- + Usefull for risk analysis and monitoring
- + Indication of causes
- Detailed investigation of individual accidents is needed to identify causes (only a few)
- Data can be missing on accidents
- Data can be incomplete or inaccurate
- Degree of registration of accidents by a data supplier may vary over time

7

7





Example monitoring risk: Collission of professional inland shipping and recreational craft

Highest risk Serious or fatal injury Risk reduction measures:

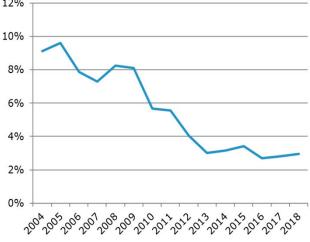
- Spatial separation ('biking lane')
- · Risk education
- Promote safe sailing habits
- Law enforcement program



9

9





10



Motivation for sharing is related to the benefit

For participants of a Community of Practice on Shipping Accidents

- Share and discuss accident investigations
- Program and excecute trend and risk analysis
- Pool of experts used for expert judgement and quality control
- Develop new tools
 - Risk analysis
 - Human factor analysis

11

11



Perspective for international data sharing

SOS contains Belgium and Netherlands accident data for the Western Scheldt

Mutual interest and international treaty

Verdrag tussen het Koninkrijk der Nederlanden en het Visams Gewest inzake het gemeenschappelijk nautisch beheer in het Scheldegebied, Middelburg, 21-12-2005



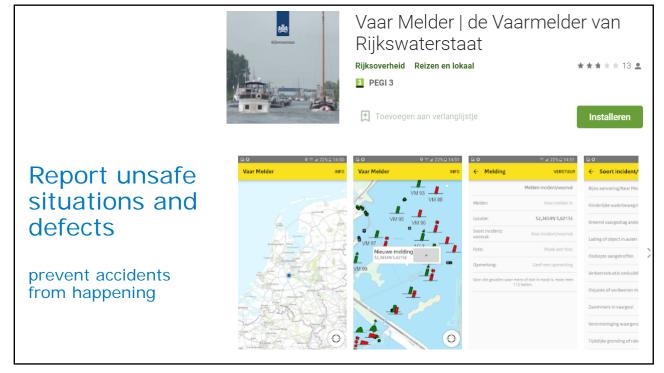


B-NL cooperation Western Scheldt

- -Accident data
- -Risk analysis → priority
- -Analysis of risk reduction measures
- -Improve risk reduction measures
- -Risk based policy

13

13





In Summary

NL has an extensive shipping accidentdatabase SOS Sharing of data is stimulated by mutual benefits:

A suite of webbased reporting tools

Data is available for risk based

- safety policy
- management of shipping activities
- inspection

Experience with use of data for monitoring and risk assessment Belgium and the Netherlands share data on the Western Scheldt

15

15



Contact

Database and risk analysis

Rijkswaterstaat - timco.van.brummelen@rws.nl

Shipping inspection

Human Environment and Transport Inspection - dirk.peters@ILenT.nl

16