



PLATFORM ZERO INCIDENTS

CESNI WORKSHOP

DATA COLLECTION ON ACCIDENTS IN INLAND NAVIGATION

October 12, 2020



Platform Zero Incidents

1

Introduction



Maurits van der Linde
SHEQ-consultant (safety, health, environment, quality)
Initiator & Program manager Platform Zero Incidents



Platform Zero Incidents

2

Mission Platform Zero Incidents

Platform Zero Incidents strives for **zero environmental and safety incidents** in the inland barging industry.



Platform Zero Incidents

3

Vision Platform Zero Incidents

- ⦿ Setting up a platform in which **near misses and incidents** are **shared** among the **members and stakeholders**.
- ⦿ **Prevention of reoccurrence** of near misses/incidents by developing and **promoting best practices based** on investigation and analysis of (trends of) near misses/incidents.
- ⦿ Building sustainable relationships with its **stakeholders**.
- ⦿ **Increasing safety responsibility and awareness** throughout the industry.
- ⦿ PZI will be the **centre of expertise** concerning the prevention of safety and environmental incidents in the inland barging industry.



Platform Zero Incidents

4

Starting principle

PLATFORM ZERO INCIDENTS

The experts of transporting (dangerous) goods via inland waterways are on **board!**

5

Members

ANACO, HBS Marine Oil GmbH, BFT tanker logistics, MTS, Interstream Barging, Imperial logistics, Reederei Deymann, UNIBARGE, VT MARITIME LOGISTIC SERVICES, VICTROL, VINOTRA, ROTTERDAMSE TANK REDERIJ, Stolt Tankers, UNIVERSE SHIPPING B.V., VARIO SHIPPING, CFT COMPAGNIE FLUVIALE DE TRANSPORT, GEFO, DEEN SHIPPING, INTERTRANS, SOMTRANS NV TANKER SHIPPING COMPANY ANTWERP, FTS HOFFTRANS, MAASKADE BEVRACHTERS, TankMatch, ams TRANSPORT CREWING SOLUTIONS, NAVAL INLAND NAVIGATION, TRENDCO, kooLe TERMINALS, STETRA, DARI, STETRAG

Platform Zero Incidents

6

Stakeholders

BINNENVAART KENNIS
Dräger
NETHERLANDS MARITIME TECHNOLOGY
Port of Rotterdam
Oiltanking
Port of Amsterdam
TOTAL
bp
CBRB Centraal Bureau voor de Rijn- & Binnenvaart
EOC VOORTVAREND VERZEKERD
Shell
KONINKLIJKE BLN-SCHUTTEVAER
Vopak

Platform Zero Incidents

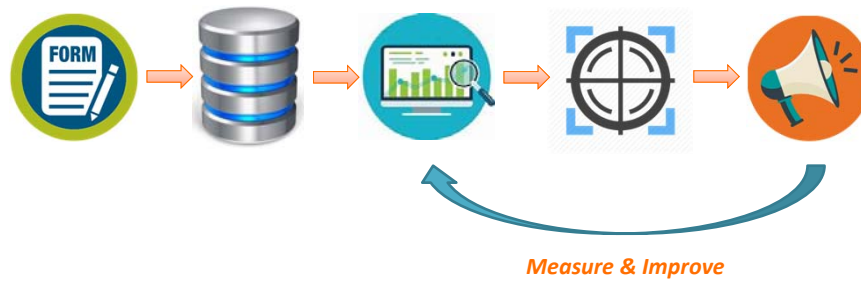
7

Process

Platform Zero Incidents

8

From reporting to improving



Platform Zero Incidents

9

Reporting Form and Database





- ⚠ Electronic reporting form, anonymous and secure
- ⚠ Over 4.350 records (2015-2020 YTD)
 - ⚠ Incident, near miss, substandard act/condition
 - ⚠ Appr. 2.000 incidents with consequences for people, environment and/or material
- ⚠ Reports are divided per process/activity



Platform Zero Incidents

10

Focus areas

- 🔺 Man over board
- 🔺 Navigating / Mooring
- 🔺 Loading / Discharging
- 🔺 High impact / Low Frequency incidents
 - 🔺 Bunkering (luboil/fuel/drinking water)
 - 🔺 Winches

⏪ Platform Zero Incidents

11

Safety flashes/alerts



PLATFORM ZERO INCIDENTS
SAFETY FLASH: UITVALLEN, STRUWELEN EN VALLEN

DOOP PRACTICE

- 🔺 Dragen van veiligheidsklemmen en veiligheidsgordels
- 🔺 Uitvalven en valbeveiliging
- 🔺 Dragen van goede persoonlijke beschermingsmiddelen
- 🔺 Verzekering van werkgereedschap
- 🔺 Langzaam en voorzichtig bewegen van en met zwaartepunten
- 🔺 Uitvalven verwijderen

ACTIE WINKEL

- 1. Draag een veiligheidsklem of een veiligheidsgordel
- 2. Draag een goede persoonlijke beschermingsmiddelen (PBM) aan
- 3. Draag een goede persoonlijke beschermingsmiddelen (PBM) aan
- 4. Draag een goede persoonlijke beschermingsmiddelen (PBM) aan

PLATFORM ZERO INCIDENTS
SAFETY ALERT: WAREN MET DE FOLIE SAMEN

DOOP PRACTICE

- 🔺 Niet roken op de werf
- 🔺 Niet roken op de werf
- 🔺 Niet roken op de werf
- 🔺 Niet roken op de werf

ACTIE WINKEL

- 1. Niet roken op de werf
- 2. Niet roken op de werf
- 3. Niet roken op de werf

PLATFORM ZERO INCIDENTS
SAFETY FLASH: NIET VERBODEN TOEGANG (AAN BOORD)

DOOP PRACTICE

- 🔺 Niet roken op de werf
- 🔺 Niet roken op de werf
- 🔺 Niet roken op de werf

ACTIE WINKEL

- 1. Niet roken op de werf
- 2. Niet roken op de werf
- 3. Niet roken op de werf

PLATFORM ZERO INCIDENTS
SAFETY FLASH: ORDE EN NETHEID

DOOP PRACTICE

- 🔺 Een schone en opgeruimde werkomgeving
- 🔺 Een schone en opgeruimde werkomgeving
- 🔺 Een schone en opgeruimde werkomgeving

ACTIE WINKEL

- 1. Een schone en opgeruimde werkomgeving
- 2. Een schone en opgeruimde werkomgeving
- 3. Een schone en opgeruimde werkomgeving

⏪ Platform Zero Incidents

12

Best practices / guidelines



PLATFORM ZERO INCIDENTS

BEST PRACTICE FIRE PREVENTION & FIGHTING

Revision 0

PLATFORM ZERO INCIDENTS

BEST PRACTICE NAUTICAL COMMUNICATION

1st Version

PLATFORM ZERO INCIDENTS

BEST PRACTICE MOORING

1st Version



Platform Zero Incidents

13



Human factor



Platform Zero Incidents

14

Human error syndrome

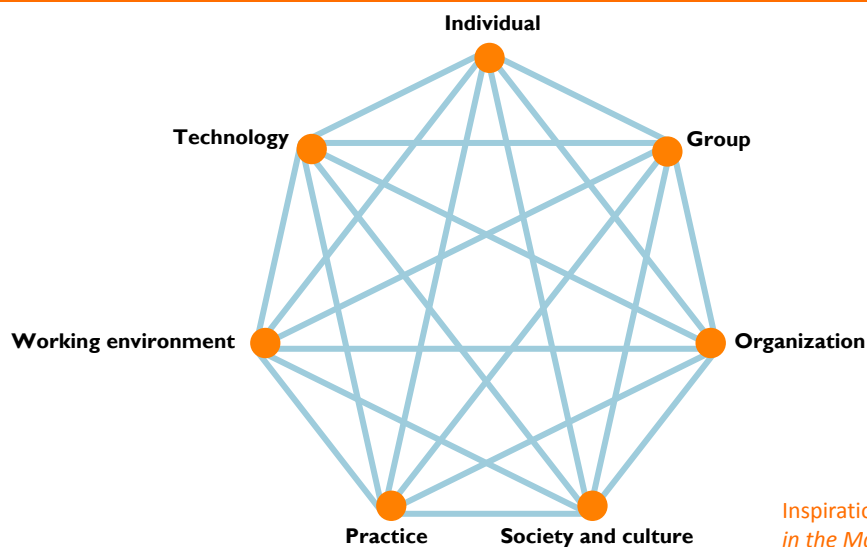
- ⚠ The human factor plays a role in appr. 80% of the incidents, maybe this is even a higher percentage.....
- ⚠ It is therefore tempting to link corrective/mitigating measures to this factor: the man/woman in the wheelhouse.
- ⚠ Human error is **not** a cause of failure. It is the effect, or symptom, of deeper trouble. (Dekker, 2002)
- ⚠ Human error can not be seen separately from the context in which the occur.



Platform Zero Incidents

15

Sociotechnical system

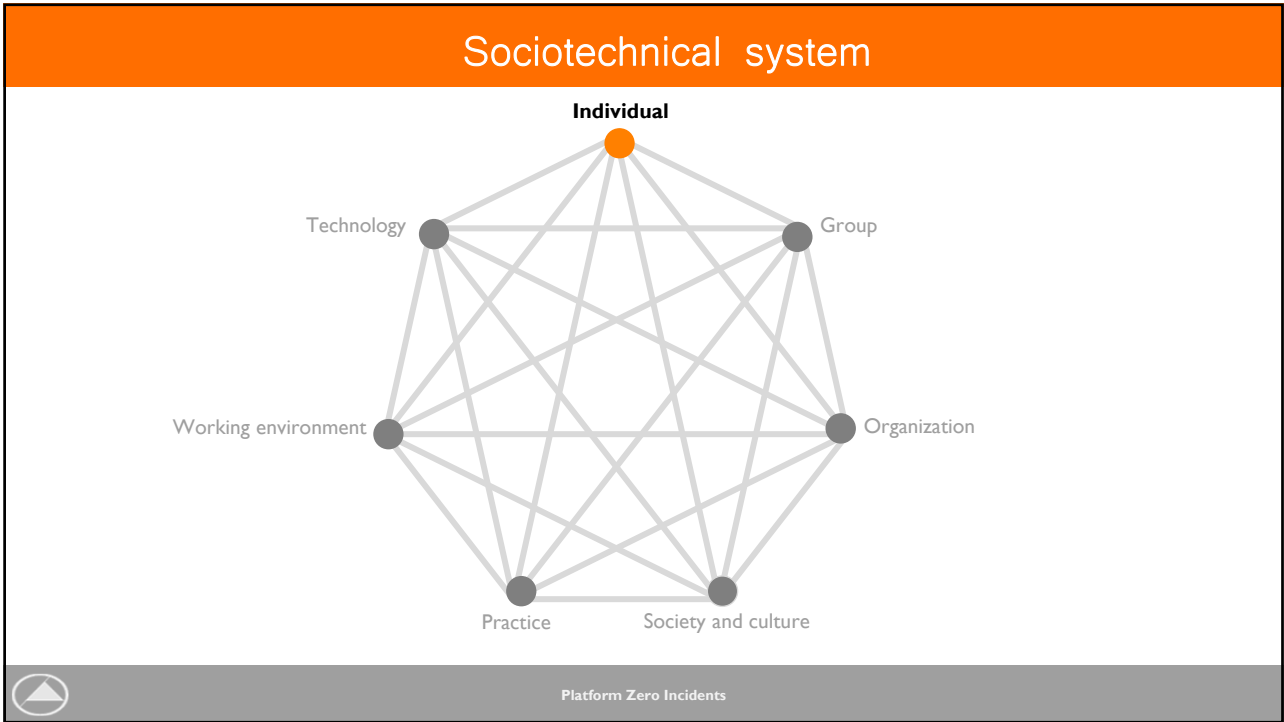


Inspiration/source: *Human factors in the Maritime Domain (2008)*

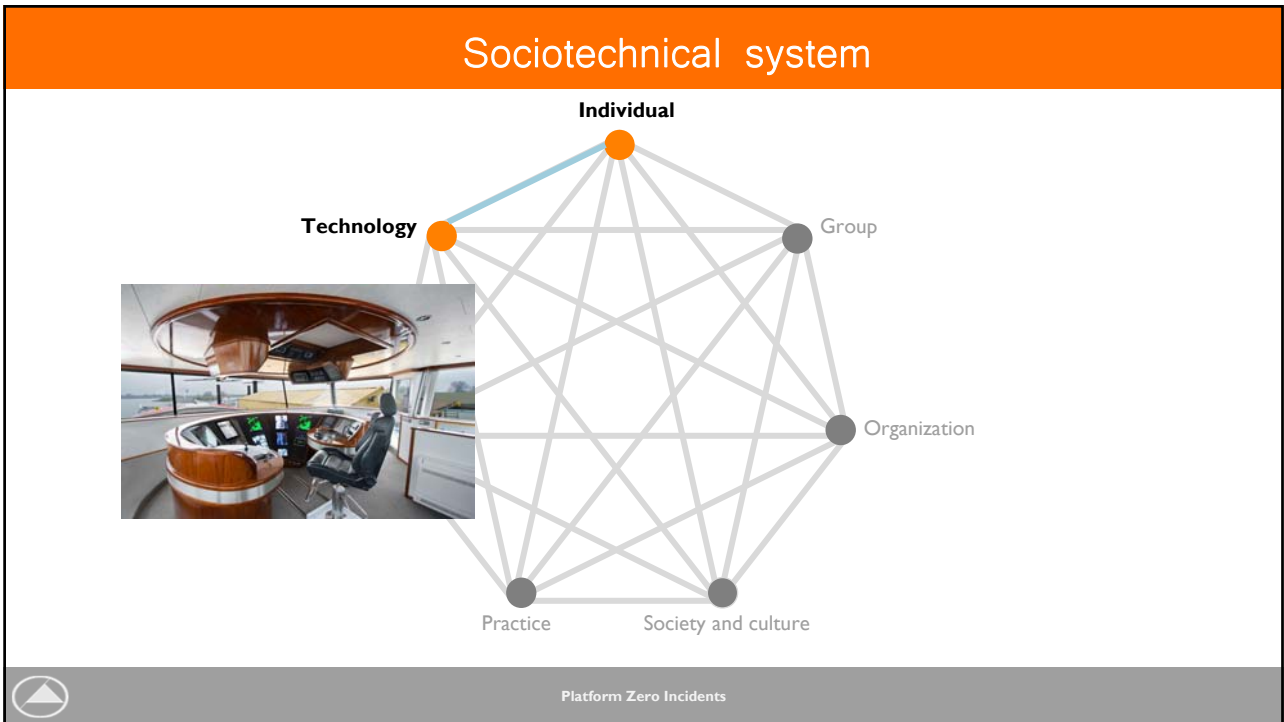


Platform Zero Incidents

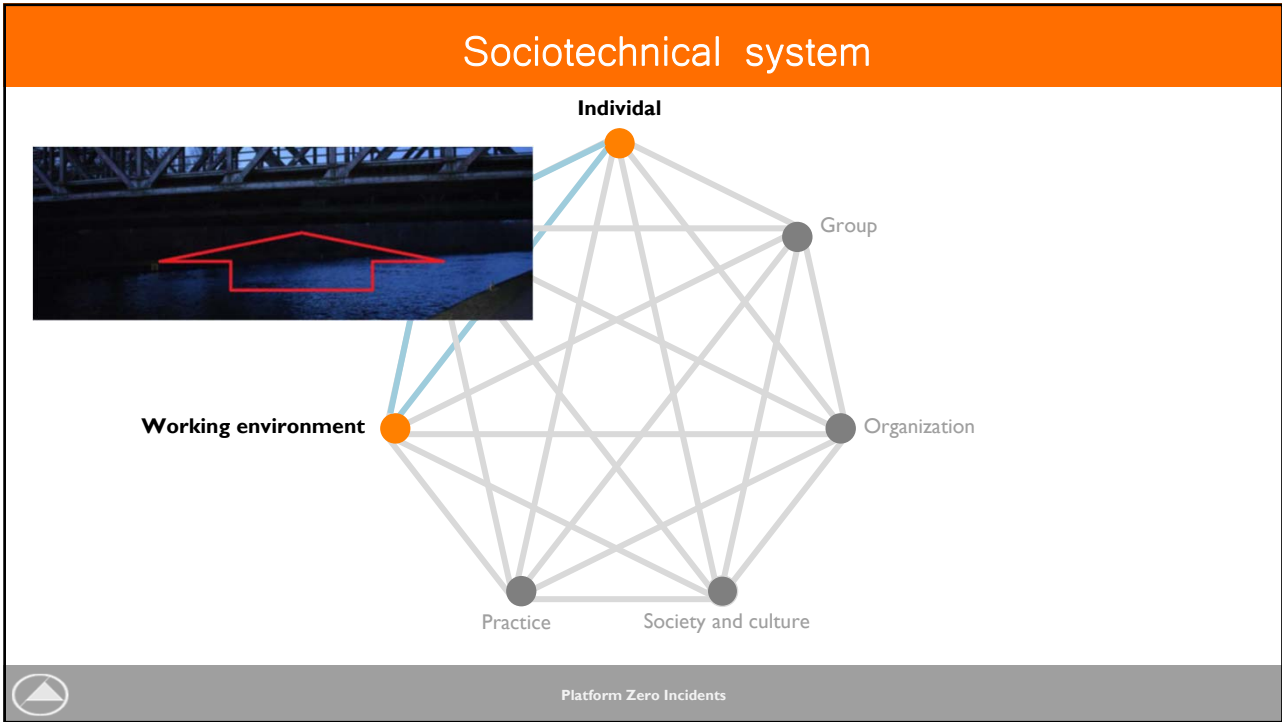
16



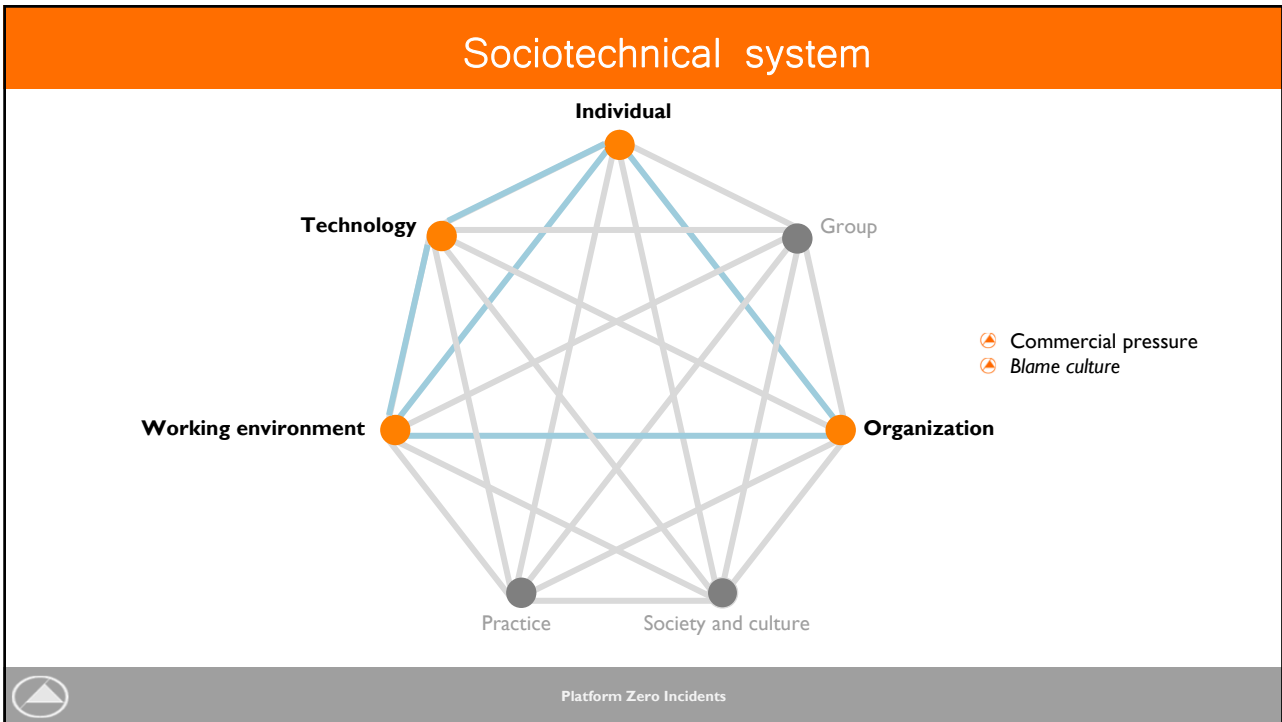
17



18



19



20



Success factors Platform Zero Incidents



Platform Zero Incidents

21

Success factors

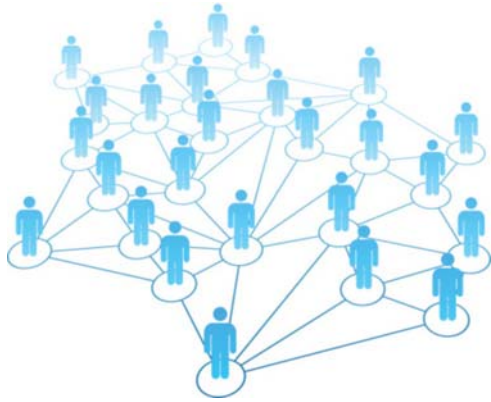
- ▲ Members report on anonymous basis
- ▲ Industry initiative by market parties, influence on own safety
- ▲ Unlocks knowledge and expertise from the sector
- ▲ Aimed at working together with relevant stakeholders
- ▲ Finding out actual root causes
- ▲ Based on facts
- ▲ Aimed at safety, not on commercial aspects



Platform Zero Incidents

22

Zero Incidents



LET'S WORK TOGETHER TOWARDS ZERO INCIDENTS



Platform Zero Incidents