8th Session of the RID Committee of Experts' standing working group
(Utrecht, 20 to 24 November 2017)
Keeping track of dangerous goods

RID meeting, November 2017

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24/7

Passenger transport

Safety
Reliability
Punctuality
Sustainability

1.1 million passengers per day

9 operators of passengers

147 million km. passenger transport per year

16.9 million population

4 million local residents

Freight transport

24 hours per day
7 days a week
365 days a year

3.3 million trains per year

54 milliard Freight tonne-kilometers per year

21 railway undertakings

11 million km. freight transport per year

Source: Jaarverslag ProRail 2016
Routes and shunting/marshalling yards with dangerous goods

- Marshalling Yards for dangerous goods
- Test area
- Area with a lot of transactions with dangerous goods
- Route with a lot of dangerous goods
- Route with temporarily more dangerous goods
Which information is needed?

- RID or non-RID?
- Fixed or variable load?
- Container and rail car number?
- Rail tank car number?
Current manual system is vulnerable for errors
Accurate, actual & accessible information is needed
Automated tracking & tracing, using combination of new technologies

- Differential GPS
- Smart camera
- IOT Sensors
Testing DGPS from 6 suppliers
Smart camera
Smart camera's
Internet of Things sensors