

#### INTERNATIONAL RAILWAY SAF

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A CONTRACTOR

Using data's safety value to optimise the supervision strategy. An example of a risk-based approach















# Supervise the safety of the national railway system



#### DIRECTIVE (EU) 2016/798 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL





## A proactive plan

The French NSA's human resources are limited

> X2 railway operators to supervise in the next 5 years

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Sub-theme: Improving safety performance through digitalisation

SNCF

DB Cargo p

renfe Mercancias

#### A supervision decision-making tool with 2 interrelated goals



# Which railway operators to prioritise?

## Which types of safety events to focus on?

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## An opportunity to strengthen the supervision strategy







### Using data is key for the project



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### 3 – Decision making : Prioritising the supervision of railway operators





#### Prioritising the supervision of railway operators





In the red zone : railway operators with the highest priority



#### New supervision plan at short term

for railway operators' Safety Management System (SMS)







#### Prioritising safety events





#### Selecting safety events to focus on

Prioritised safety events including accidents

Safety event	Criticality class	Priority class
Accident to persons involving rolling stock in movement	1	1
Level crossing accident	1	1
Train or rail vehicle loading irregularity	1	1
Failure of the track	1	2
Derailment	1	2
Collision of train with obstacle within the clearance gauge	1	2
Failure to follow a speed restriction order	2	2
Failure of a safety measure	2	2
Failure of the breaking system	2	2
Failure of the railway overhead line	3	2
Falure to communicate a speed restriction order to a train		3
Train composition failure	1	3
Authorised signal passing without verification	2	3
Train or rail vehicle running without authorisation	2	3



## 4- First estimate of the impact of decisions



# What next?



