



Co-financed by the Connecting Europe  
Facility of the European Union



Ministerie van Infrastructuur  
en Waterstaat

CEF subsidy

2017-NL-TM-0046-W

2017-NL-TM-0101-W

ERTMS B3 upgrade of 355  
international freight  
locomotives



# Dutch infra plan 2030

B3 only in infra.

Precondition for success:

Sufficient Rolling Stock





# ERTMS perspectives 2007





# Upgrade of vehicles 2.3.0d



Siemens BR189/F4



Bombardier TRAXX



Vossloh G1206



EMD Class 66



Alstom BR203

355 locomotives ERTMS for  
D-A-B-CH-I-NL-CZ-SK-H



## Vehicle owner: No benefit

stakeholder	Benefits	Support of vehicle owner
Inframanager	Flexibility in roll out More capacity	ESC tests Technical competence
Member State	CBA positive	Subsidy at national level



# Proposal for subsidy B3 upgrade

Funding	CEF	IenM	Owner
Prototyping	45%	45%	10%
Serial install	50%		50%

*Subject to final approval by EC and minister of state*

