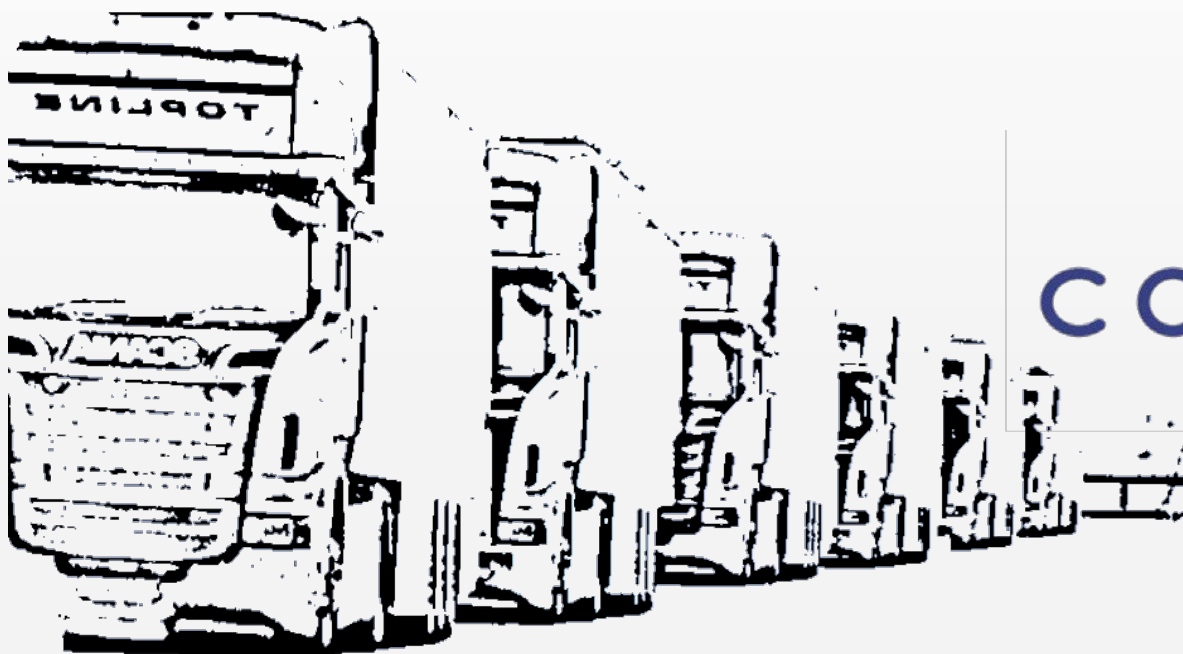


Submitted by the expert from Scania

Informal document **GRRF-76-43**  
(76th GRRF, 17-21 February 2014,  
agenda item 8)

## ***Cooperative dynamic formation of platoons for safe and energy-optimized goods transportation***

Magnus Adolfsson  
Project Coordinator  
Scania CV AB



COMPANION

- Technology steps of platooning
- Incentives for platooning
- Scania test site
- COMPANION



- Technology steps of platooning



- Incentives for platooning



- Scania test site



- COMPANION



# Technology steps



- Technology steps of platooning



- Incentives for platooning



- Scania test site



- COMPANION



# Incentives for platooning



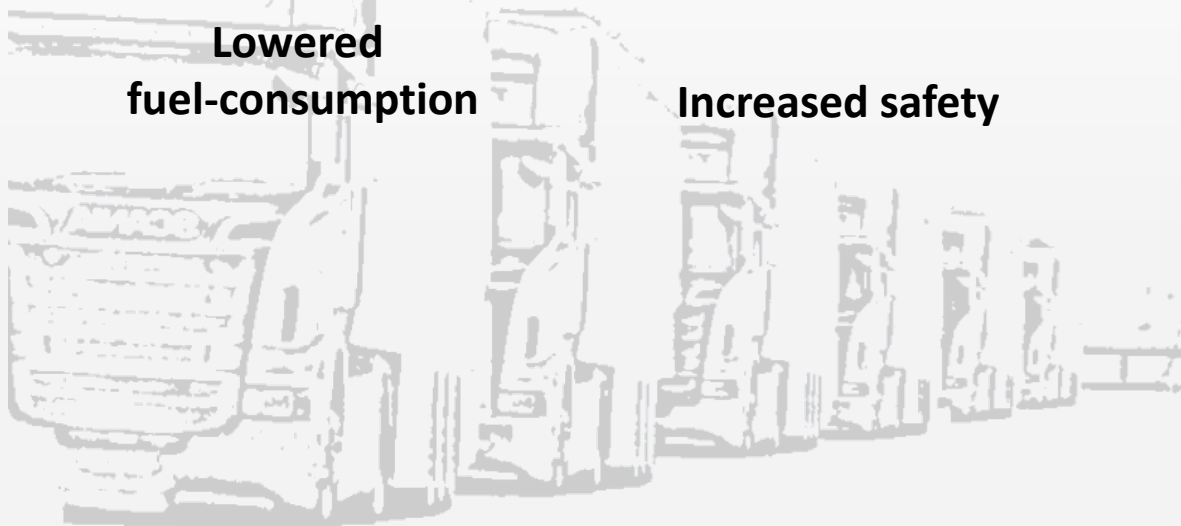
**Lowered  
fuel-consumption**



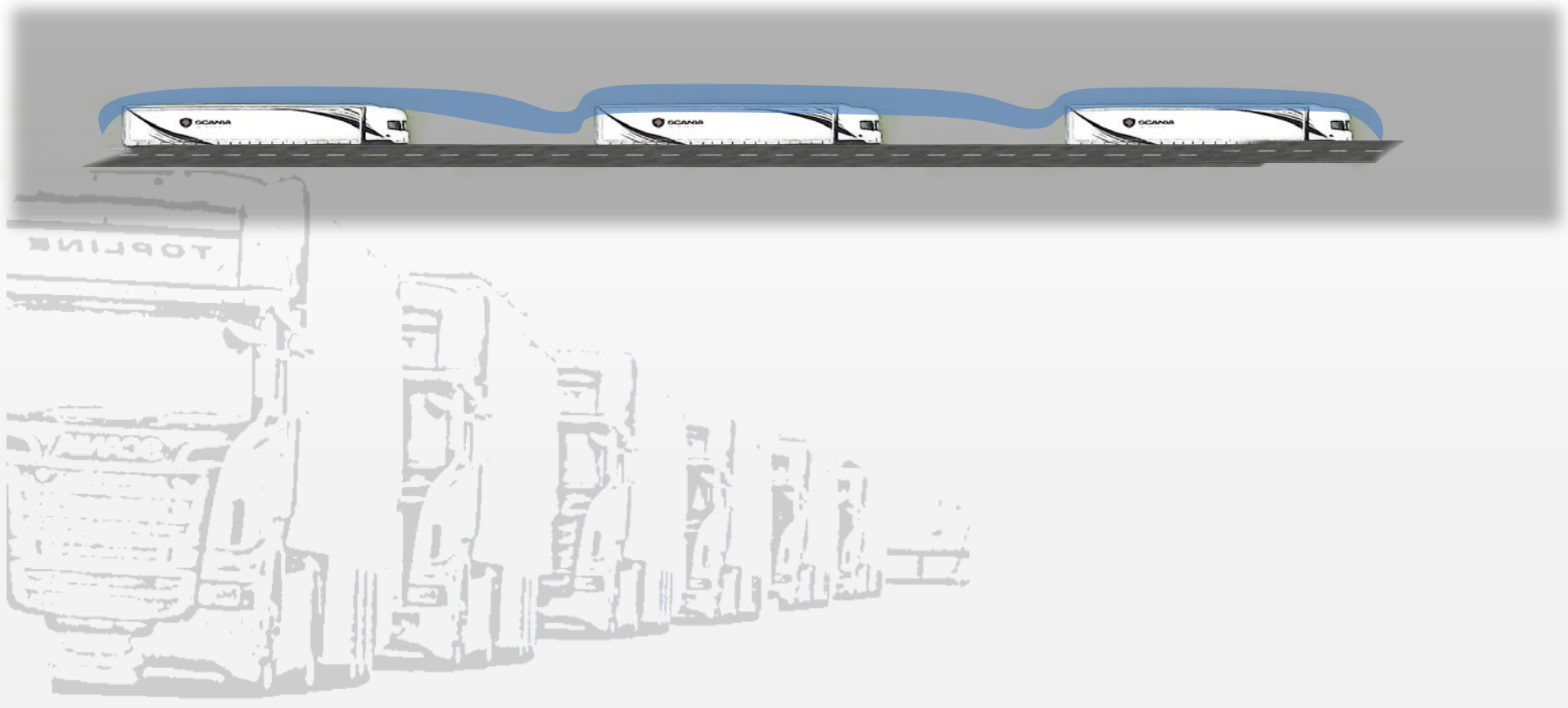
**Increased safety**



**Higher road capacity**



# Lowered fuel consumption

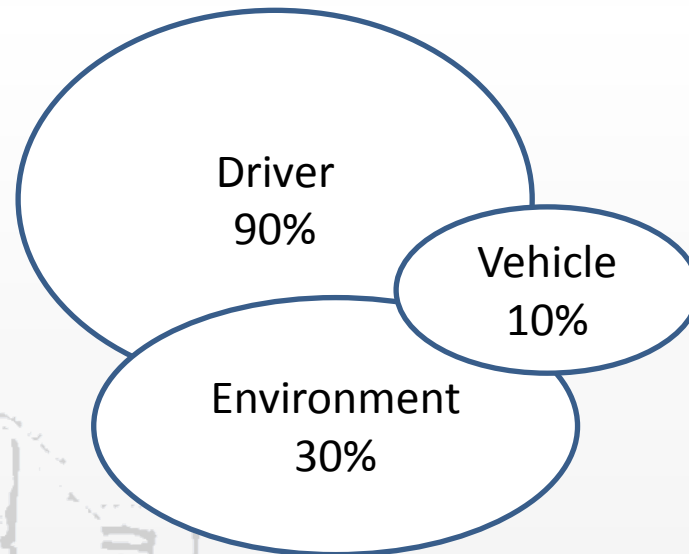




# Increased safety



## Contributing factors in an accident

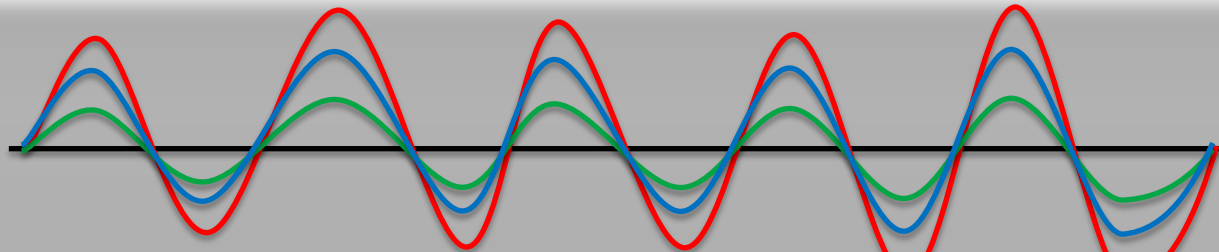




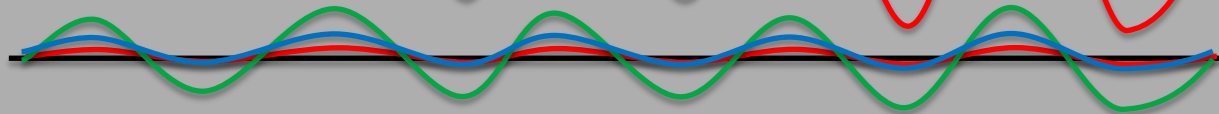
# Higher road capacity



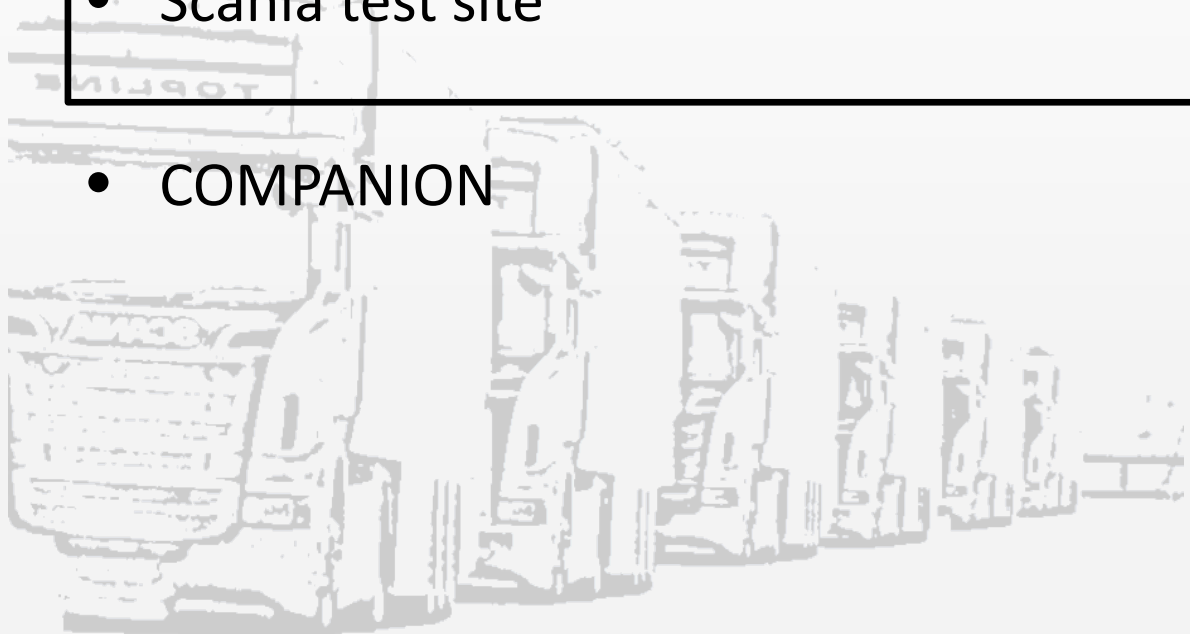
Manually



Platoning



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# Scania test site

- Scania Transportlaboratorium
- Södertälje - Helsingborg
- Large scale test
- AiCC



# Experiences



3 7 9 0 0 6 8

Kilometers of Platooning



38 vehicles



130 drivers



# Results – fuel consumption



3 seconds

-2% ✓ Verified



2 seconds

-5% ✓ Verified



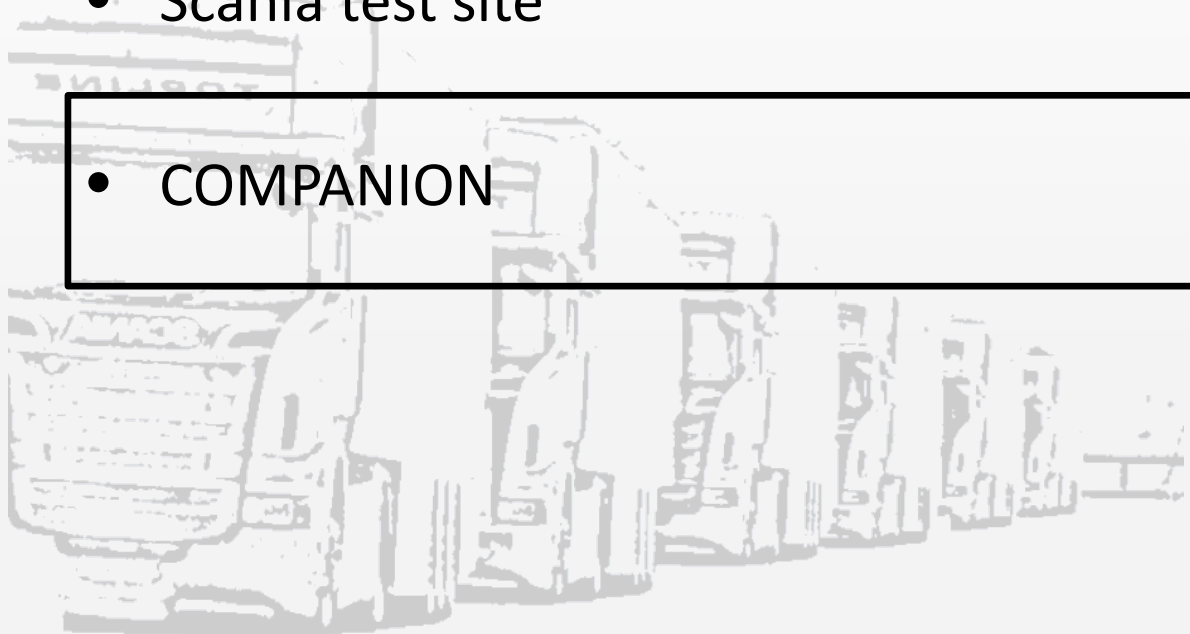
1 second

-7% ⌚ To be verified





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**Budget: €5,4 million**

**Received funds: €3,4 million**

**PM: 452**

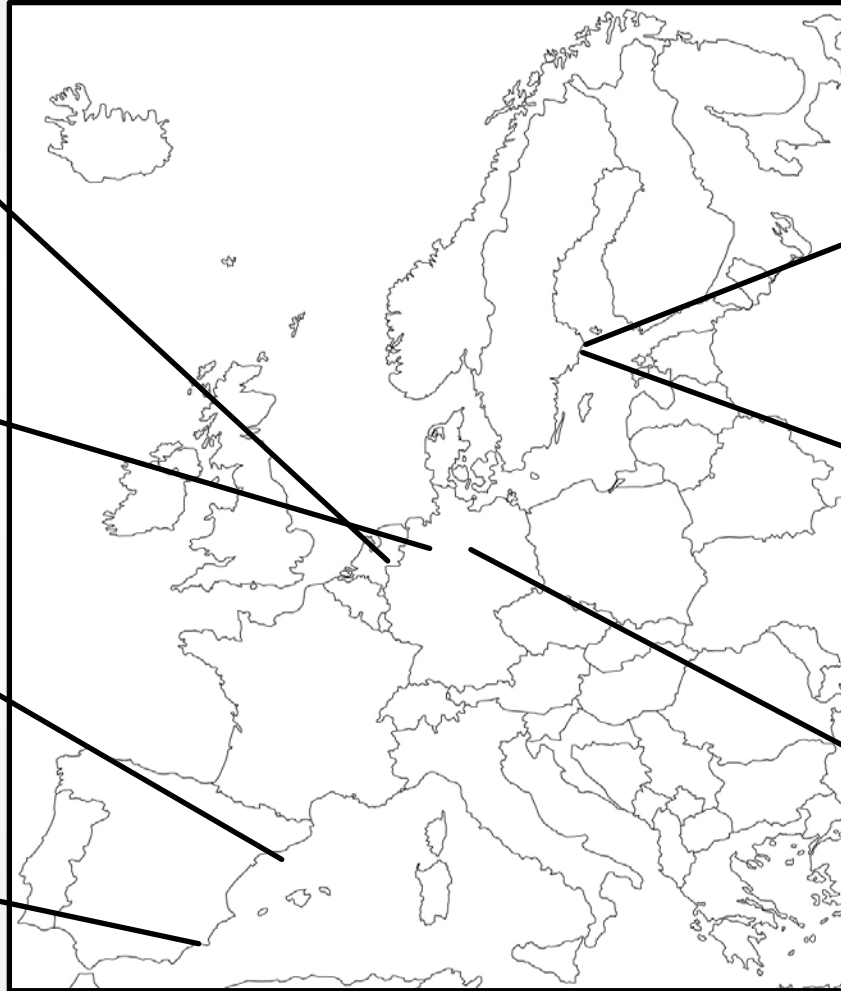
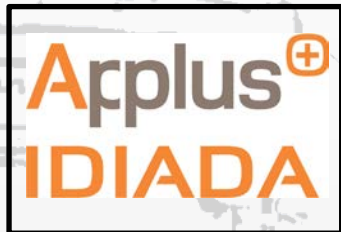
**Start: 1/10 – 2013**

**[www.companion-project.eu](http://www.companion-project.eu)**





# COMPANION - Participants



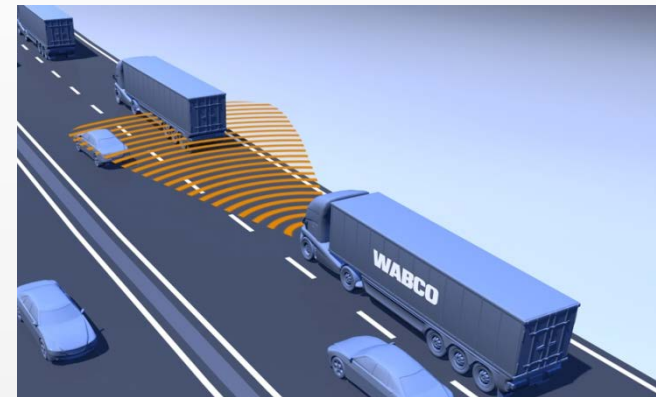
# COMPANION - Challenges adressed



- Safe and efficient control of inter-vehicle distance
- Formation of platoons
- User acceptance
- Business model
- Standardisation
- Legal solutions



- Regarding the USE of the companion  
To drive trucks in a platoon in public roads
  
- Regarding the Systems for semiautonomous driving.  
Systems that permit the use of trucks in a semiautonomous driving in a platoon.



**Thank you for your attention!**

