

# 13<sup>th</sup> UIC Sustainability Conference



## Carbon Footprint in railways: integrated scope and innovative tools

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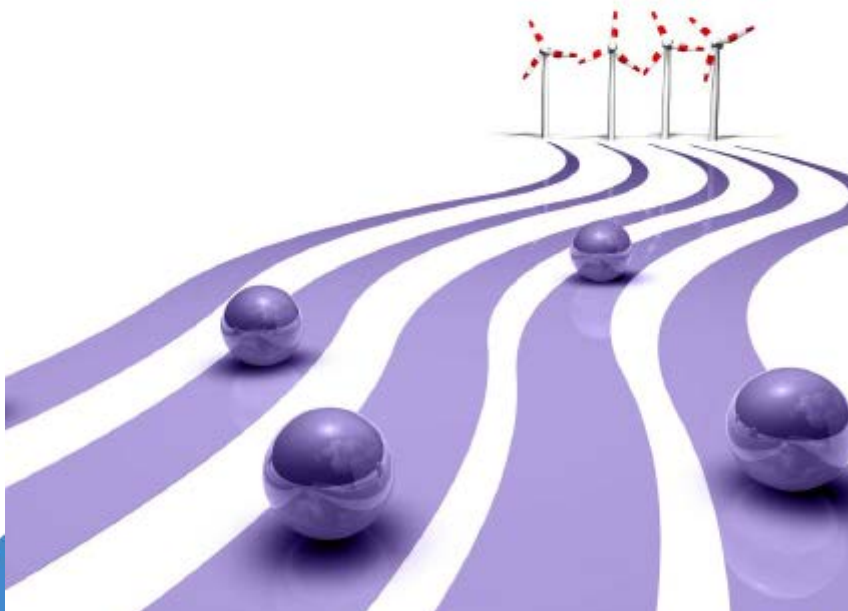


12, 13, 14 October 2016

# UIC report on carbon footprint from infrastructure



- Released in June 2016
- Comparison of methodologies to calculate carbon footprint from rail infrastructure



# Background



- As carbon intensity of rail operation decreases, carbon embedded into infrastructure becomes non negligible
- Some stakeholders criticizing eco tools to not include infrastructure carbon footprint
- What can be done to encourage low carbon infrastructure construction and maintenance



# Main messages



- Robust approaches exist to quantify the carbon content of infrastructure with limited amount of data needed
- Adding carbon footprint of infrastructure into eco tools does not change the carbon competitiveness of rail operation compared with other modes
- Financing low carbon infrastructure from procurement stage can have win-win effect



# Food for thought



- Swedish road administration to mandate infrastructure carbon footprint reduction from 2020
- Carbon footprint calculation mandatory for big projects
- Emission reduction -15% from 2015 by 2020, estimated to be possible at no cost
- -30% by 2025, uncertain costs
- -100% by 2050 (national target for the whole country) needs new technology and process

**Potential and methods to reduce GHG emissions from road infrastructure**



# Speakers

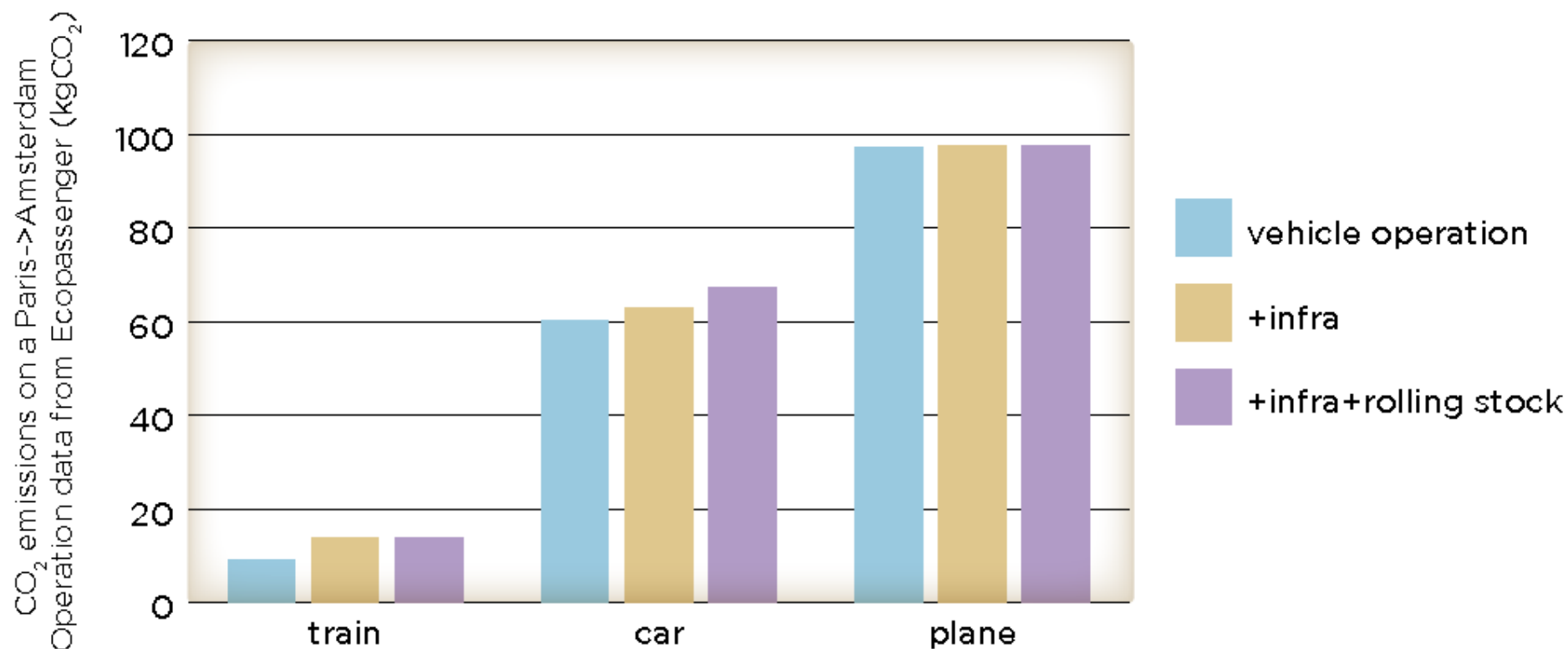


- **Fabian Scherer, SBB (confirmed)**
- **Per Corshammar, TUV-SUD (confirmed)**
- **Imed Ben Fredj, Eiffage (confirmed)**
- **Jon Casey, presenting on behalf of RSSB, Principal Environmental Consultant, Infrastructure, ATKINS (confirmed)**



# Adding Infrastructure to Eco Tools

- Rail still the most competitive mode



**Figure 11: CO<sub>2</sub> emissions of the main transport modes including operation, infrastructure and rolling stock on the route Paris-Amsterdam, a typical High-Speed European journey (500 km approx.). Source: EcoPassenger.com and O1 - IFEU, Tuchschnid**