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Vehicles Initiative

# **EuroNanoForum 2017**

## ***Nanotechnology in smart, green and integrated transportation***



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# EGVI cPPP as part of the system approach



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Efficient vehicles



Intelligent traffic management



Better infrastructure



Public transport and intermodality



Improved logistic

**Decarbonisation can only be solved by a system approach !**



Infrastructure for connected & automated vehicles



Decarbonised Energy / fuels



Flexible and shared mobility services

# Main pillars for the future mobility in road transport



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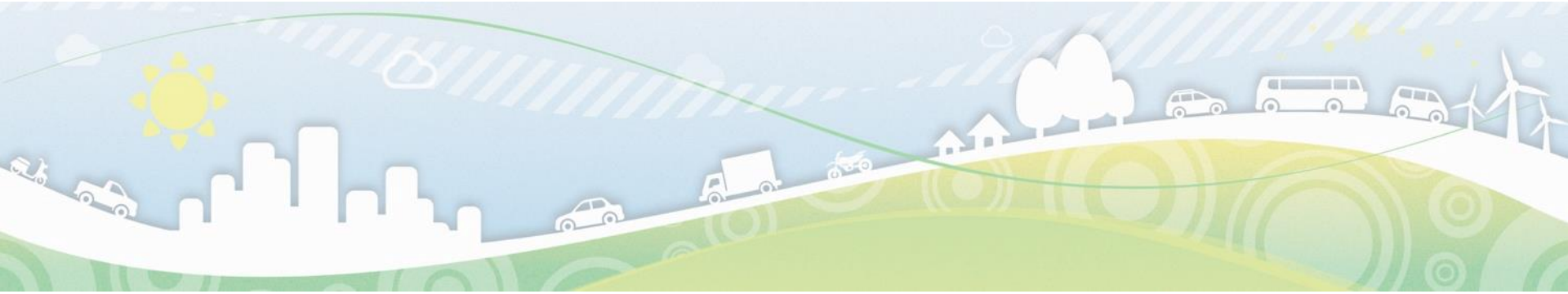
- Improvement of energy efficiency
- Alternative energy sources including electricity and CO2 neutral fuels
- Information and Communication Technologies

# How nanomaterials can contribute reducing CO2 emissions in road transport?



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- Vehicle is a part of the smart energy system
- **Needs for new processes in production and integration in vehicles** - focusing on new sensors techniques for Connected and Automated Driving
- **New or improved materials** to be used in batteries and vehicle structure for new functionalities and weight reduction
- **New production processes**
- In order to realise the components of the system, experts from various sector are needed and ERTRAC integrate all of them under a single umbrella.



**Thank you !**

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