

# Challenges and opportunities at the interfaces of Industry, Science and Politics

## *A personal perspective*

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# Challenges and opportunities at the interfaces of Industry, Science and Politics

## ● **Focus:**

- Transportation

## ● **Relevant Trends**

- Digital connectivity
- Automotive technology
- Climate change
- Urbanization
- Changing demographics

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## ● Illustrative Example I

- Wireless charging of electric vehicles
  - The technology exists to charge electric vehicles remotely (by driving over a road segment with embedded charging technology)
  - The use of wireless charging technology may facilitate large-scale adoption of electric vehicles
  - Exploiting wireless charging of electric vehicles in the best possible way requires government, industry, and academia to work together

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## ● Illustrative Example II

### ● Connected vehicles / platooning

- The technology exists for a number of trucks to drive together as a platoon with a single driver
- The use of connected vehicles can result in reduced fuel consumption (in the range 5 - 15%)
- Exploiting connected vehicles in the best possible way requires government, industry, and academia to work together