

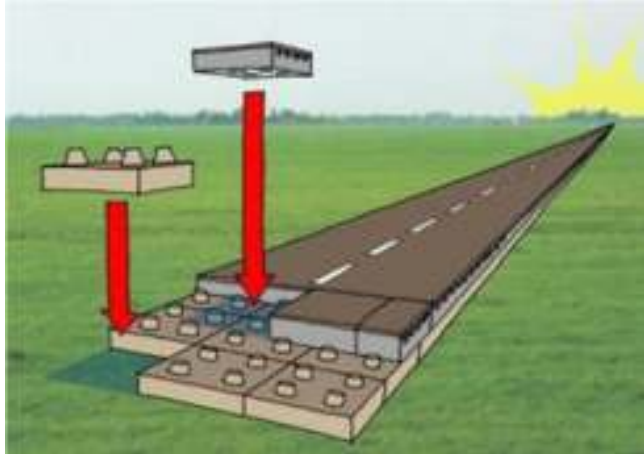
# FEHRL

*Towards a more cost efficient infrastructure: Europe's next generation of roads, enabled by the Forever Open Road programme.*

*Ruud Smit*



# Stimulating innovation 1989-2009



## Europe needs efficient roads

### In addressing the Global challenges.....

- Financial Crisis
- Competition
- Climate Change
- Social/Demographic Changes
- Energy & Resources security

### .... Europe needs roads to be more efficient:

- Much cheaper
- Ensuring seamlessly flowing traffic
- Much safer
- Minimal footprint
- Fully ICT integrated
- Enhancing new mobility concepts
- Enhancing social inclusion
- Resilient to climate change effects



# Europe URGENTLY needs a next generation of roads

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*To be enabled within this decade*

## Achieving a quantum leap in societal performance

- Congestion
- Safety & security
- Social inclusion/Accessibility
- Liveability
- Energy/Resource efficiency



## At a lower cost

- -20% LCC



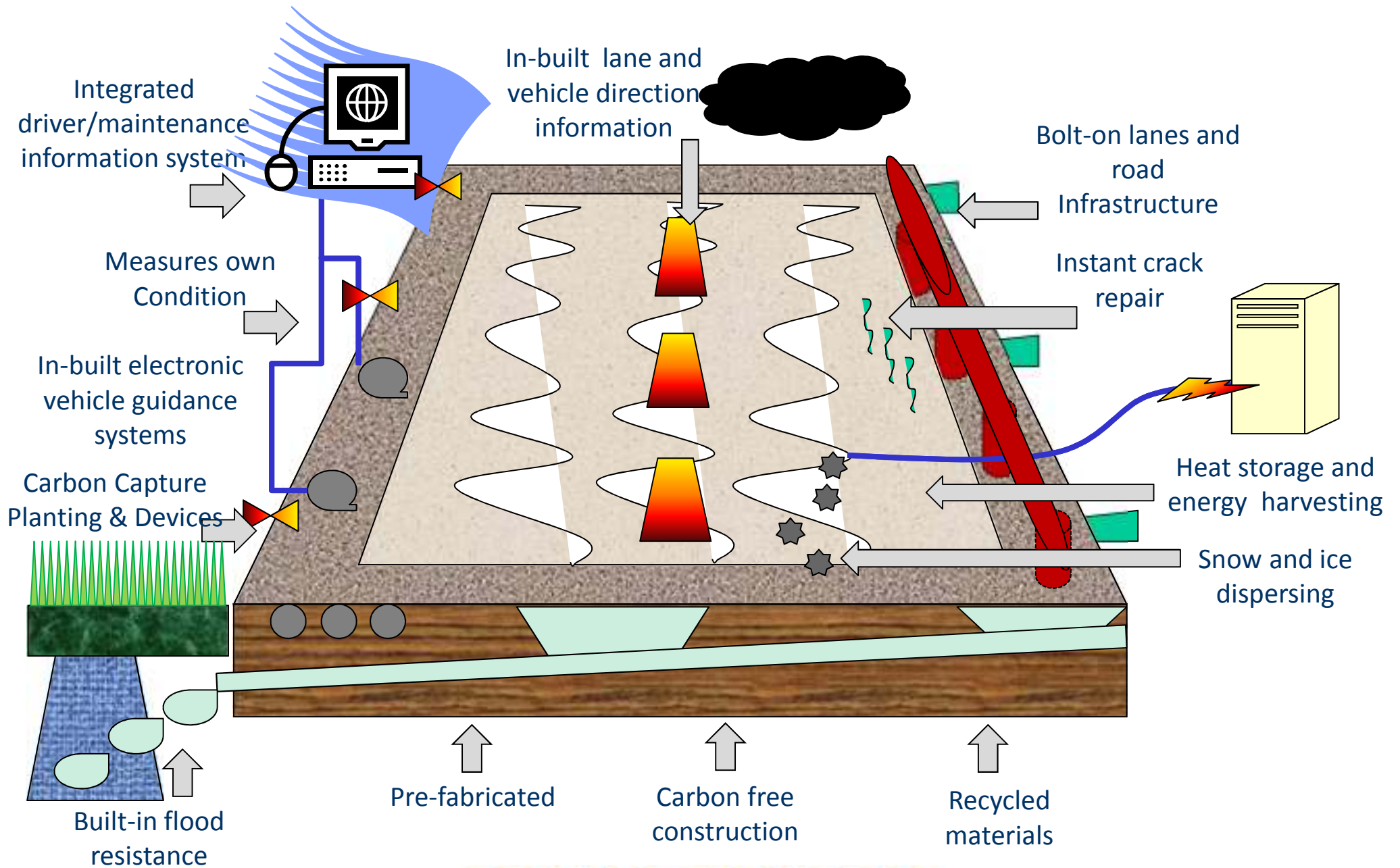
## By an integrated road concept that is highly:

- *Adaptable* (future interventions will not intrude on traffic flow)
- *Automated* (ICT integrated with vehicles, services, user)
- *Resilient* (service levels guaranteed even at extreme weather conditions)



## By a road that is Forever Open.....





**FOREVER OPEN ROAD**  
 Redefining Highway Transport for the 21st Century

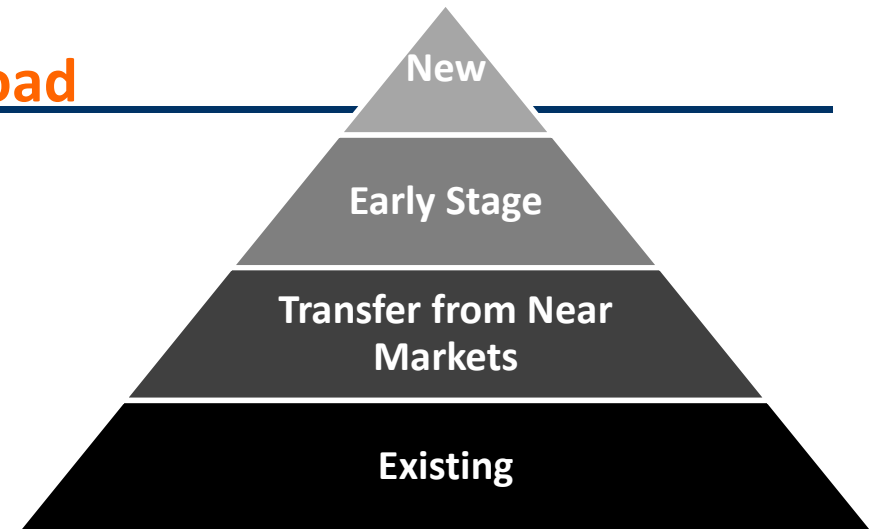


## Strategies to enable the Forever Open Road

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### Development strategy: efficient innovation

- Start with what we know already
- Adopt solutions from other sectors
- Innovate on last remaining gaps



### Delivery Strategy: prove implementation readiness

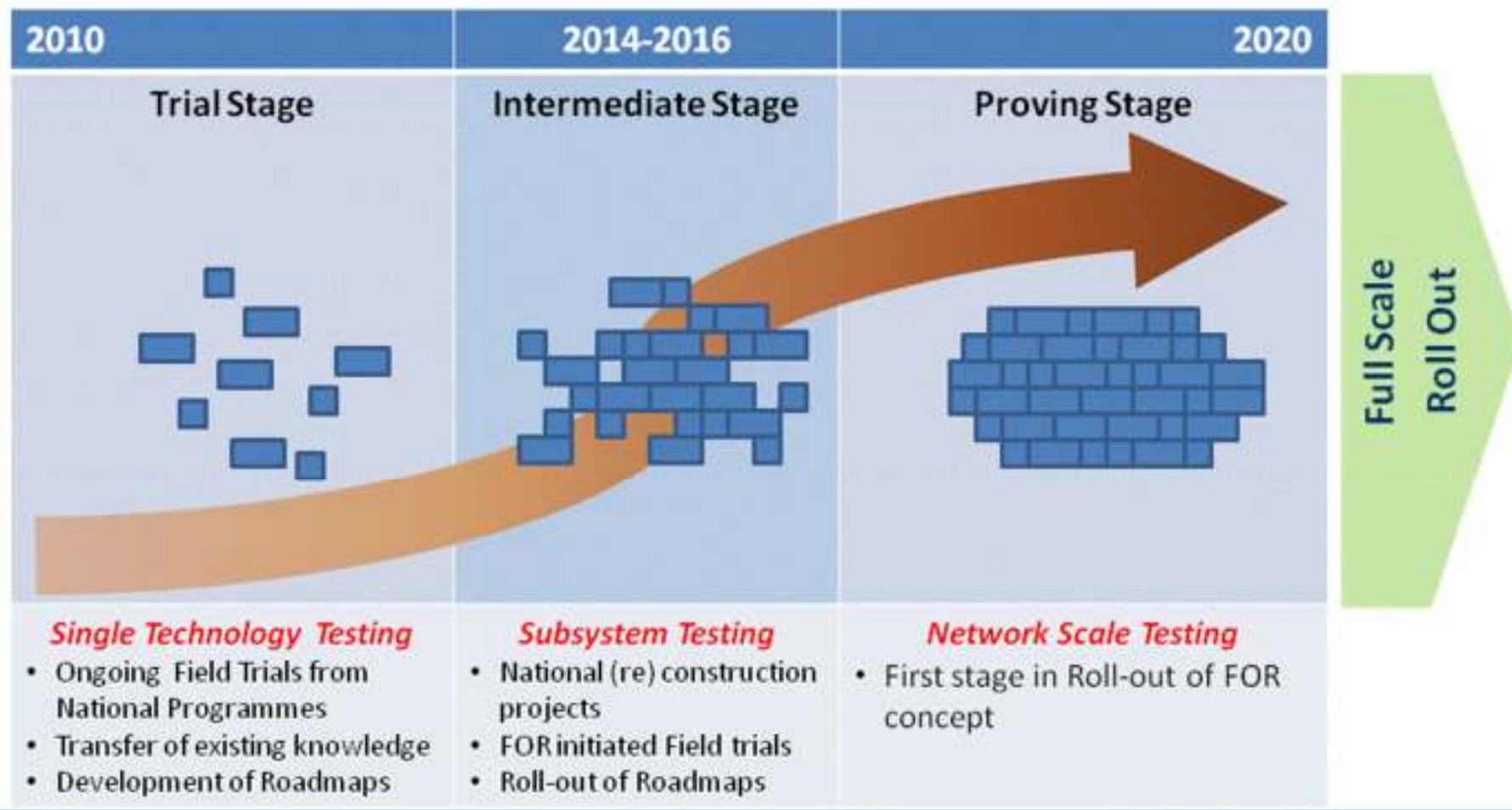
- Demonstrate the viability in the operational practice
- Provide common European standards, specifications and guidelines
- Ensure sound knowledge transfer

### Management Strategy: Join forces for synergy, volume and speed

- National Road Administrations
- Industry
- Research providers
- Authorities

## Road map: the Forever Open Road enabled within this decade

FOR will enable the next generation of roads within this decade. In time the demonstrations will increase in scale and complexity, ranging from single technology trials now to subsystem testing mid term and to full scale systems proving in the second half of the decade.



## Current activities

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### Building up the project portfolio

- Ongoing technology trials and system proving tests
  - From national programmes
- Newly funded projects (from EC, CEDR/ERANET-ROAD, ...)
  - E.g. EXPECT, MIRIAM, Pilot4safety
- Disclosing existing knowledge
  - From international databases (US, EC, CEDR, ...)

### Developing Innovation Roadmaps

- ERTRAC: Green corridors (filling in its gap on infrastructure)
- ERTRAC: Climate Change Resilient Transport (multi modal)
- “Automated Road” (linking in to the Digital Agenda and ITS action plan)
- “Adaptable Road” (linking in to Refine Initiative by ECTP)

### Reaching out to external partners at the European level

- Industry associations
- CEDR, ASECAP
- European Technology Platforms: ECTP, ERTRAC, ERRAC, Waterborne, EIRAC
- Public Bodies/Authorities



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**Thank You!**



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