



# ESTEP WG2 - TRANSPORT

## Panorámica y oportunidades en la Investigación e Innovación Siderúrgica en Europa

Madrid, 25-09-14



PLATAFORMA TECNOLÓGICA ESPAÑOLA DEL ACERO

Proyecto: INF – 2013 – 0162 – 020000, financiado por:

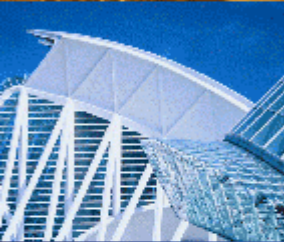


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# 1 - Members



Hoffmann, Oliver  
ThyssenKrupp Steel Europe

Duysinx, Pierre  
University Liege

Rassili, Ahmed  
University Liege

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ESTEP

Gauriat, Antoine  
ArcelorMittal

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Tata Steel Europe

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Arenholz, Enno  
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Peruzzi, Martin  
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Wonneberger Ingo  
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## 2 - Main Goals

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- to convince decision makers that 'steel is the material of choice' in the transport sector,
- to influence future calls for 'Sustainable Surface Transport (SST)'
- to participate in Advisory Boards to control and advise projects
- to generate and/or participate in Research Projects





## 2 - Main Goals

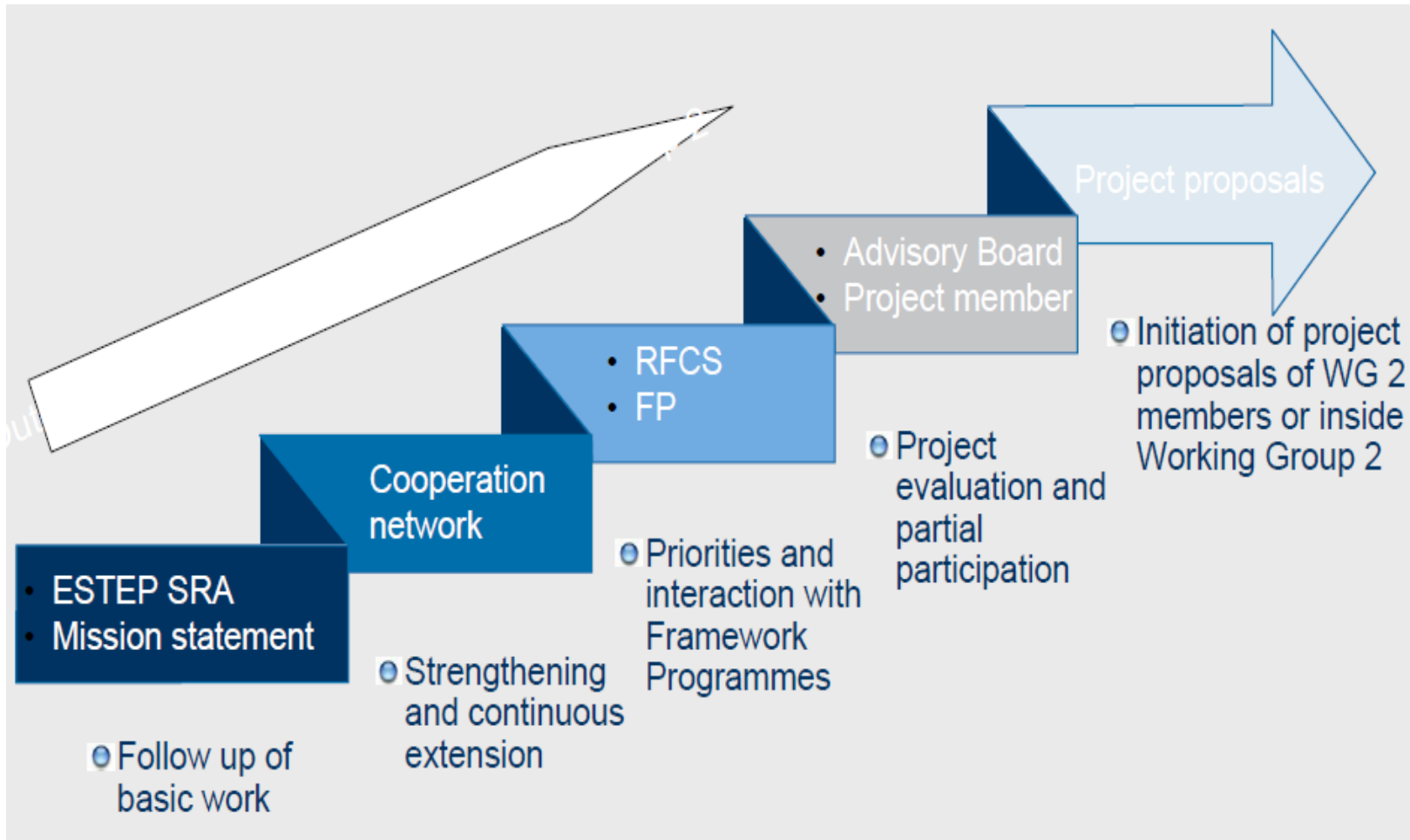
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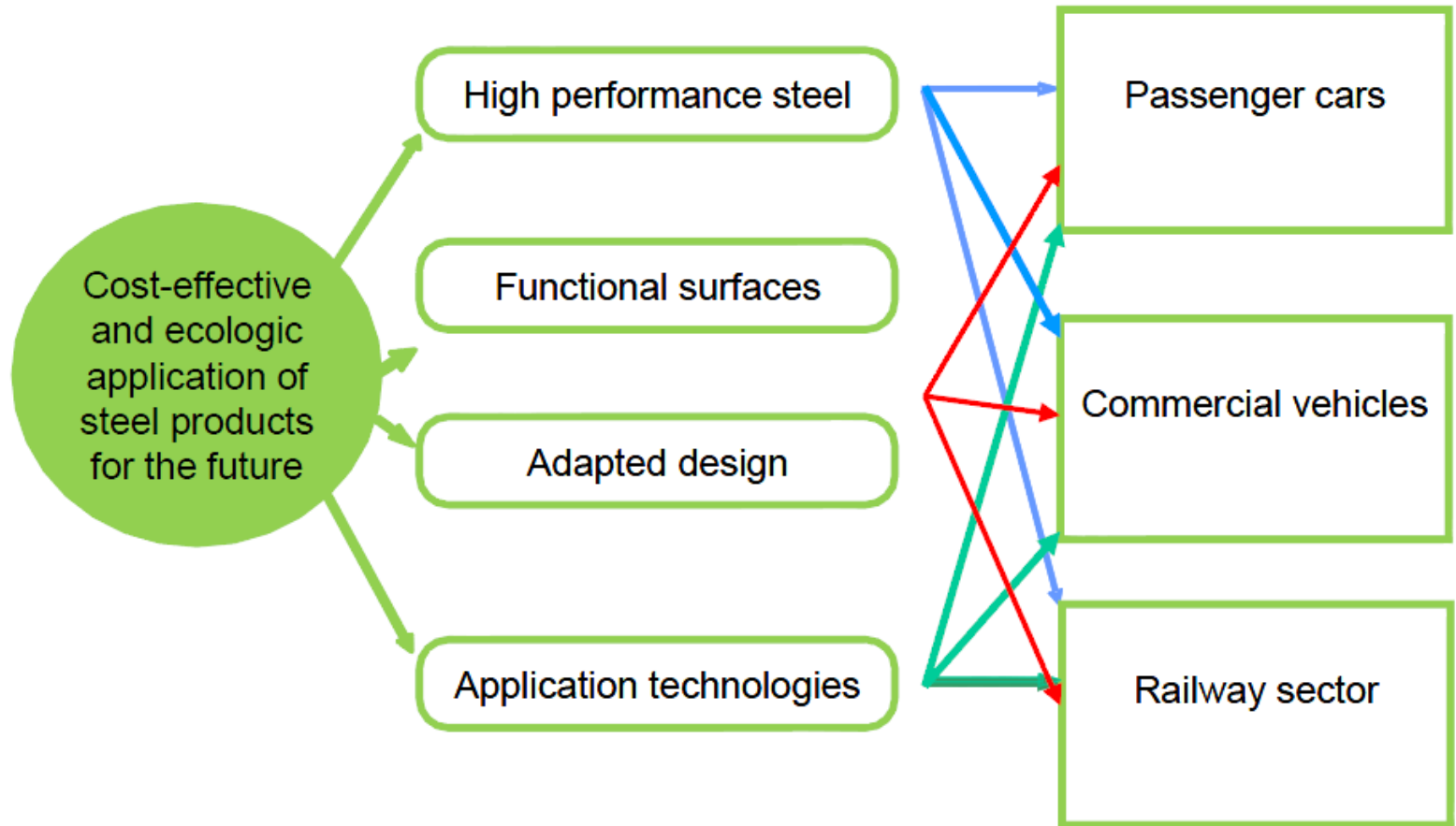
- ESTEP's Working Group "Transport" focuses on the relationship between sustainable environmental friendly material selection of steel and the reduced emission of greenhouse gas (CO<sub>2</sub>) during the life cycle, while improving safety and cost-efficiency of road transport systems.



# 2 - Main Goals

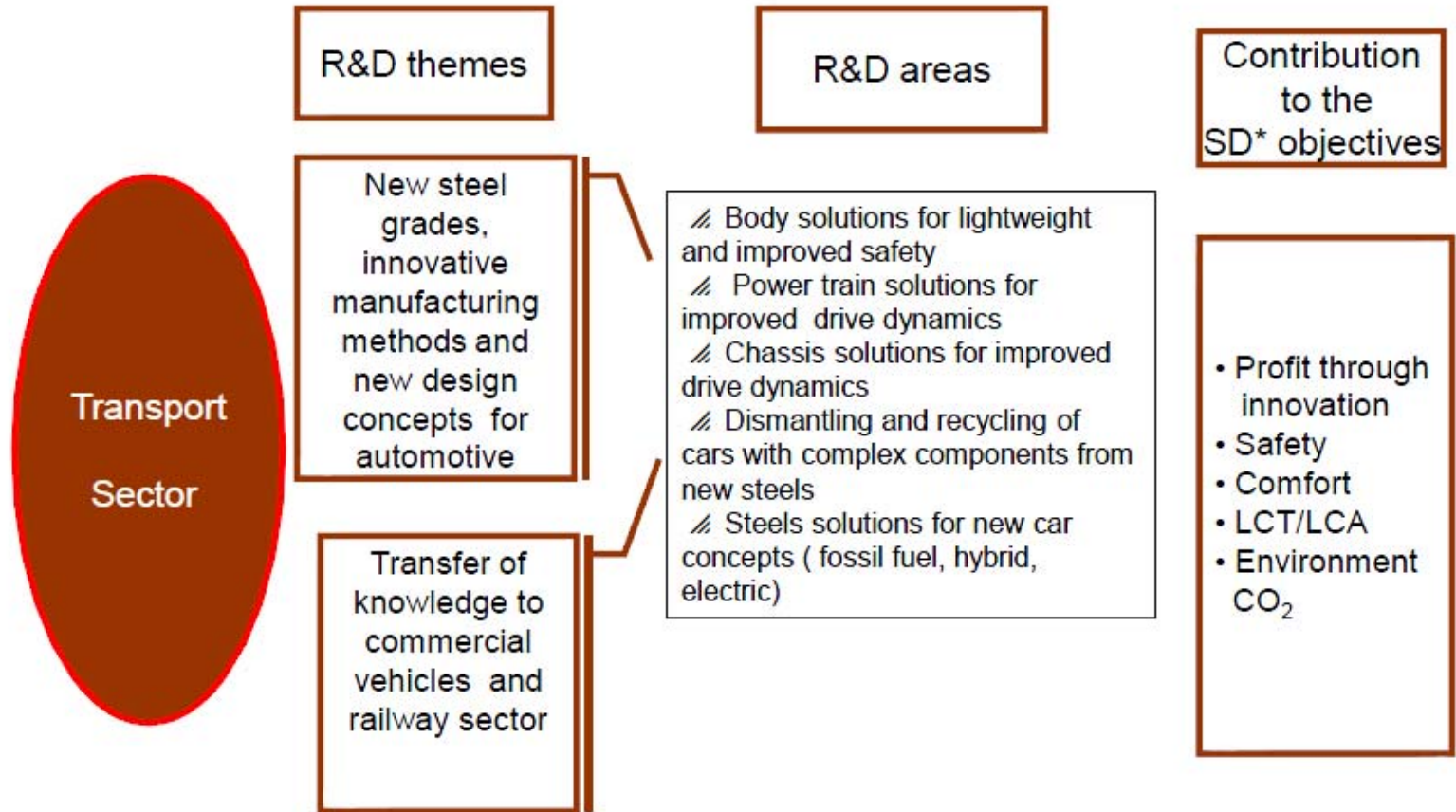


# 3 - SRA





# 3 - SRA





# 3 - SRA

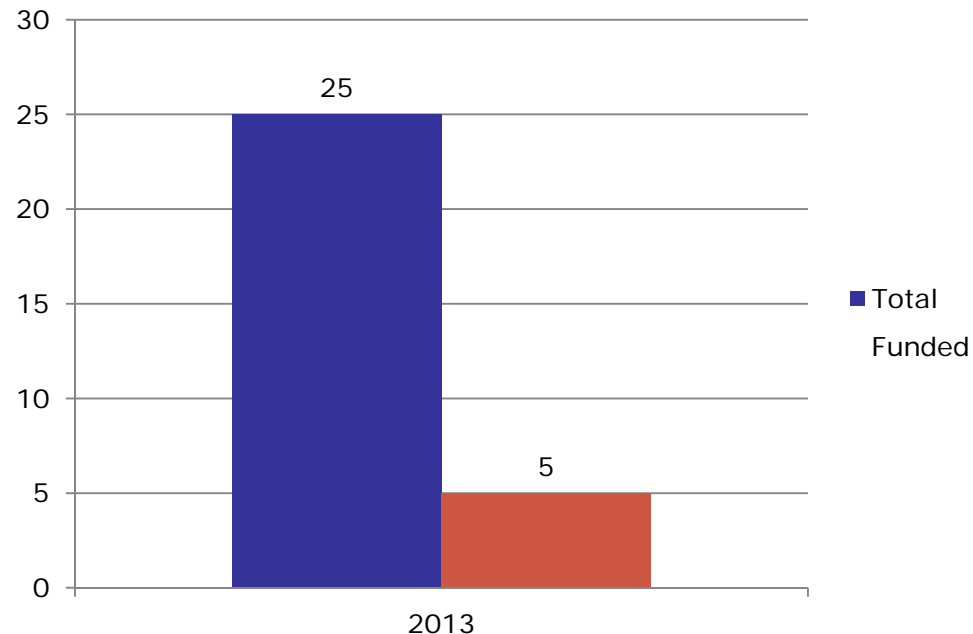


<b>Body solutions for lightweight and improved safety</b>	
<b>Power train solutions for improved drive dynamics</b>	
<b>Chassis solutions for improved drive dynamics</b>	
<b>Dismantling and recycling of cars with complex components</b>	
<b>Steel solutions for new car concepts ( hybrid, electric)</b>	
<b>Transfer of knowledge to commercial vehicles</b>	
<b>Transfer of knowledge to railway sector</b>	

# 4 - Priorities RFCS 2014



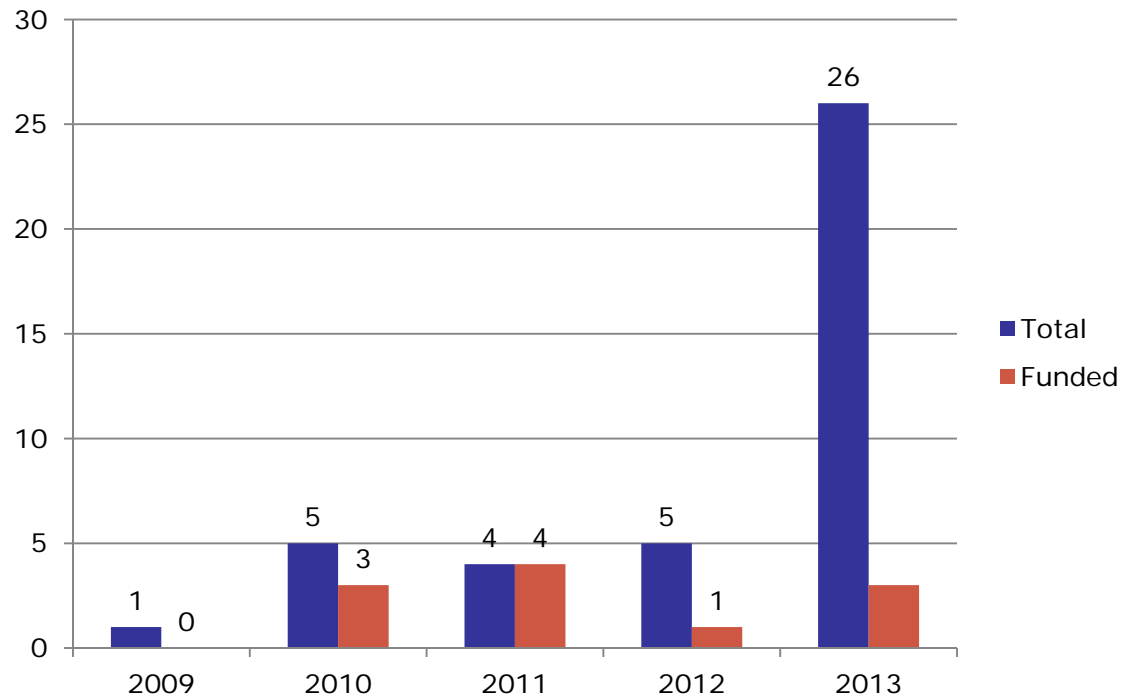
- **2.6** Development of new steel grades with improved technological property combinations (e.g. strength, formability, toughness, etc.) enabling more efficient steel applications (e.g. weight reduction, energy absorption, thermal shock resistance, wear ...)



# 4 - Priorities RFCS 2014



- **2.7** Development of steel solutions for transport, sustainable construction (focusing on energy efficiency and carbon neutralisation) or energy applications (including renewables) with improved life cycle assessment (LCA) results



# 5 - Cooperation Network



- **ERTRAC (European Road Transport Research Advisory Council):**
  - Comments to their SRA (public discussion) were submitted.
- **EU projects - PPP Electric Green Vehicles Initiative:**
  - ELVA addresses the call topic GC.SST.2010.7-5. "Advanced electric vehicle concepts". Participation of ESTEP (Oliver Hoffmann) in the advisory board. Mission is to keep steel in the structure.
- **University of Brussels**
  - Operational Guidance for LCA (Call GC.ENV 2011.3.1.3-2)
- **WorldAutoSteel**
- **CLEPA (Comité de liaison européen des fabricants d'équipements et de pièces automobiles): European Association of Automotive Suppliers**
  - The participation in a workshop is planned to collect input for future calls.







Muchas gracias por su atención

José Ignacio Barbero  Inspiring Business

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