



Boosting Climate Actions Using Frontier Technologies

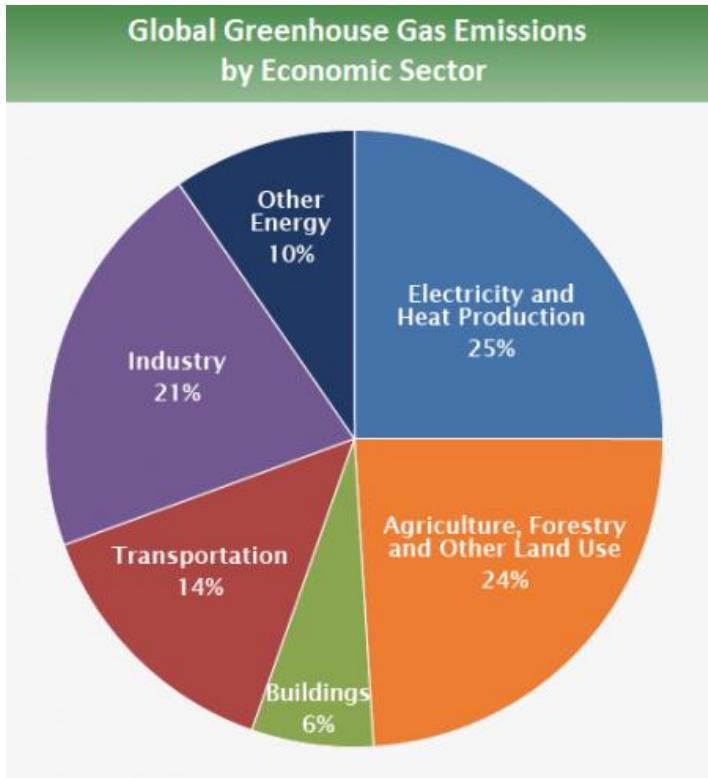
Vicente Sebastián



CONTEXT

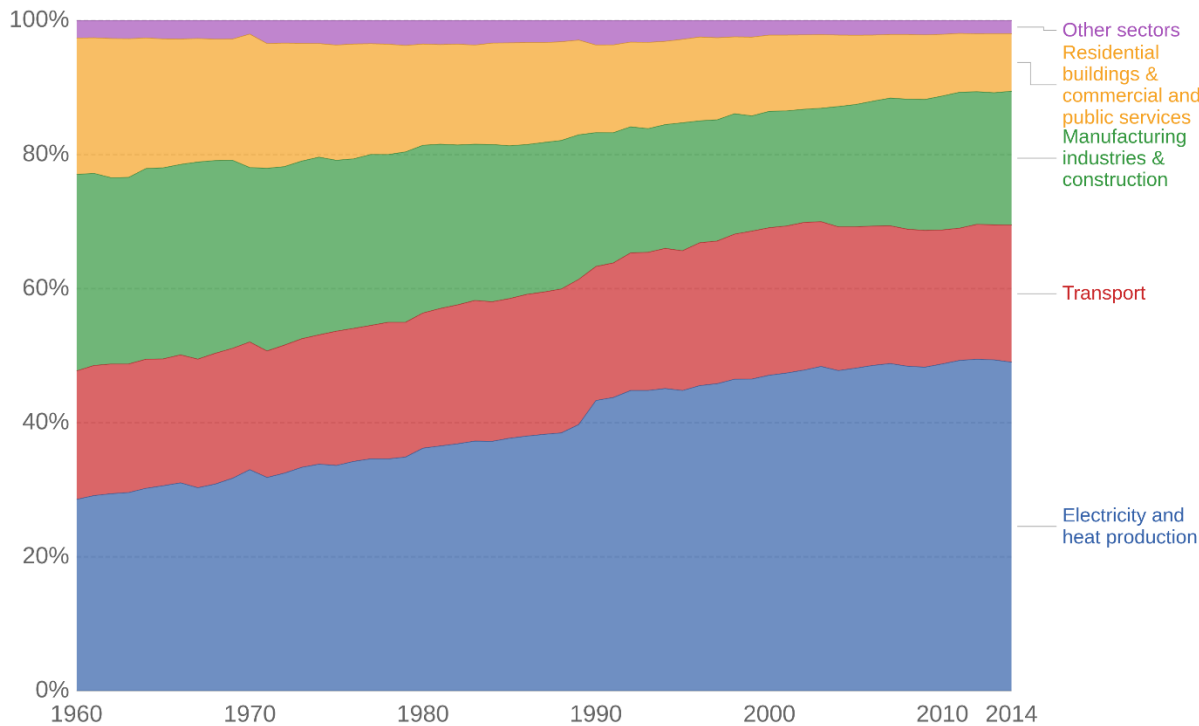
TRANSPORTATION IS THE RESPONSABLE OF 14% OF GLOBAL GREENHOUSE GAS EMISSIONS

- Context
- New Paradigms
- Frontier Technologies
- Climate Impacts



Carbon dioxide (CO₂) emissions by sector or source, World

Share of carbon dioxide (CO₂) emissions from fuel combustion by sector or source.



Source: International Energy Agency (IEA) via The World Bank

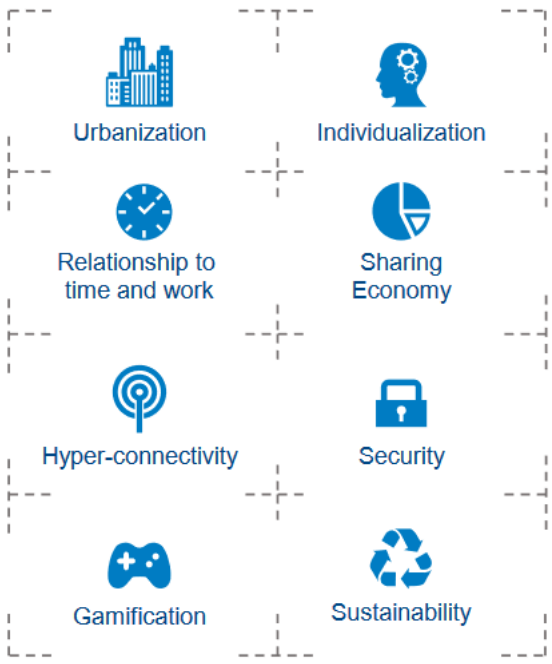
OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY



NEW MOBILITY PARADIGMS

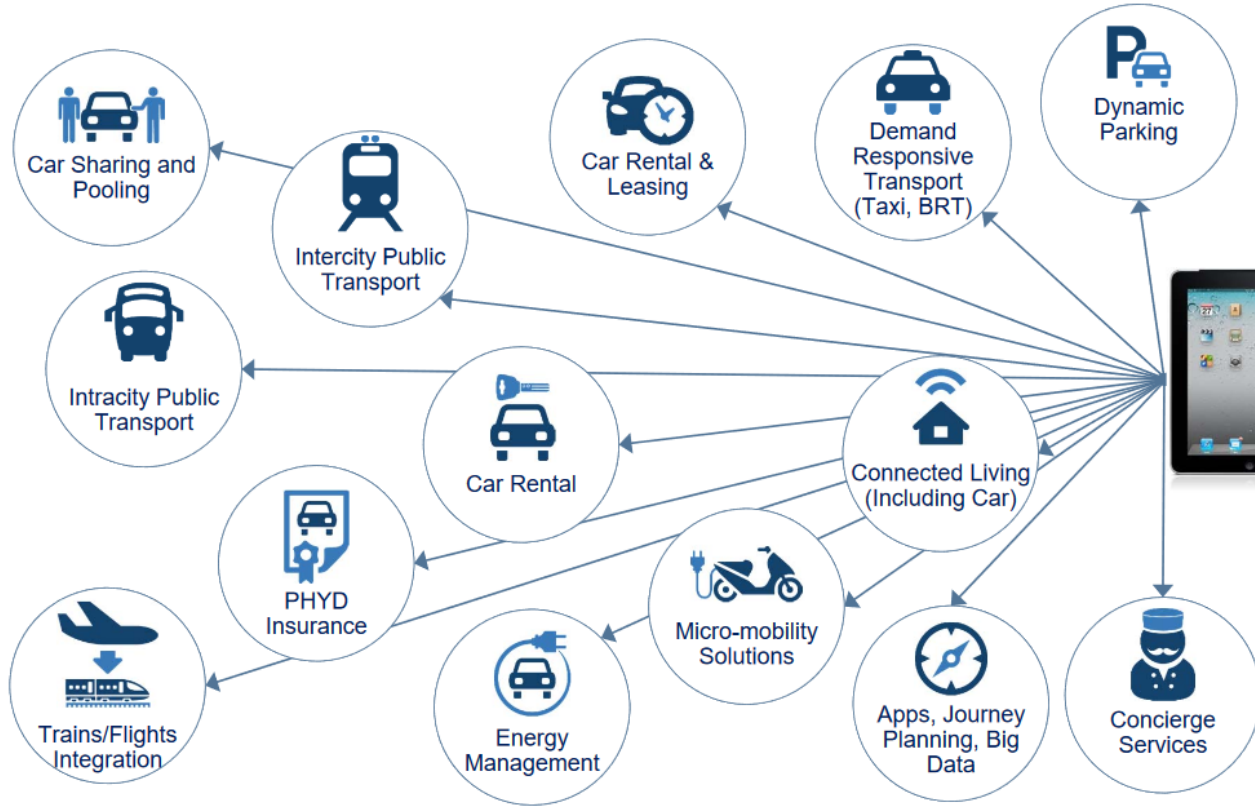
- Context
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CHANGE OF HABITS



Source: Arthur D. Little

NEW MOBILITY OPTIONS



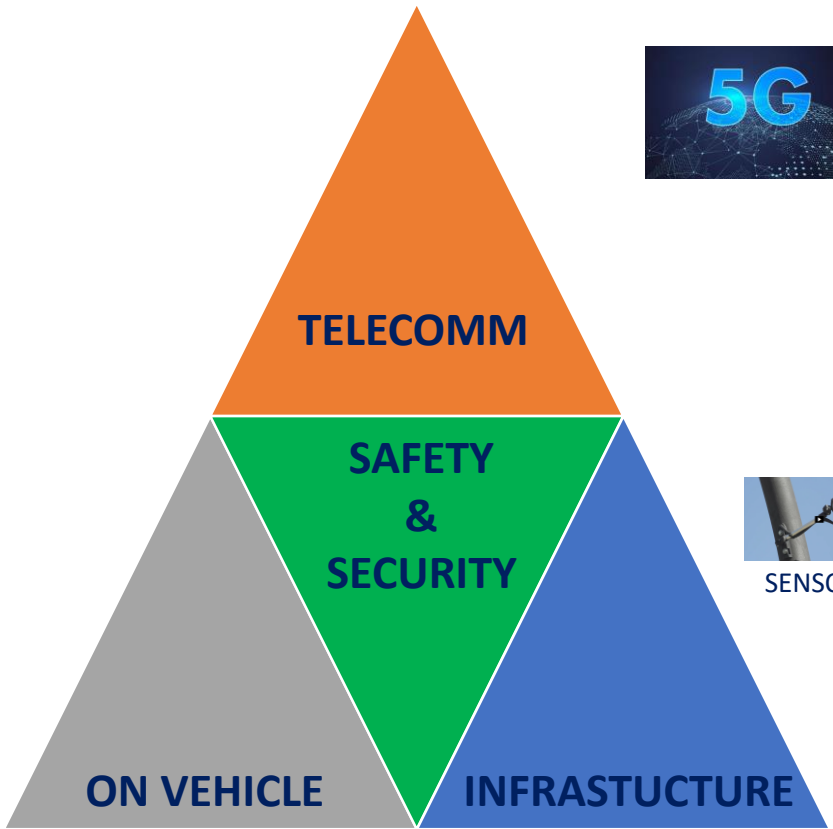
Source: Sarwant Singh. Frost & Sullivan


IoT, BIGDATA, EDGE COMPUTING, AI

- Context
- New Paradigms
- Frontier Technologies
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AUTONOMOUS VEHICLE
ROAD SAFETY
TRAFFIC MANAGEMENT PLANNING





Atención:
Peatones



Atención:
Ciclistas

ON BOARD INFORMATION

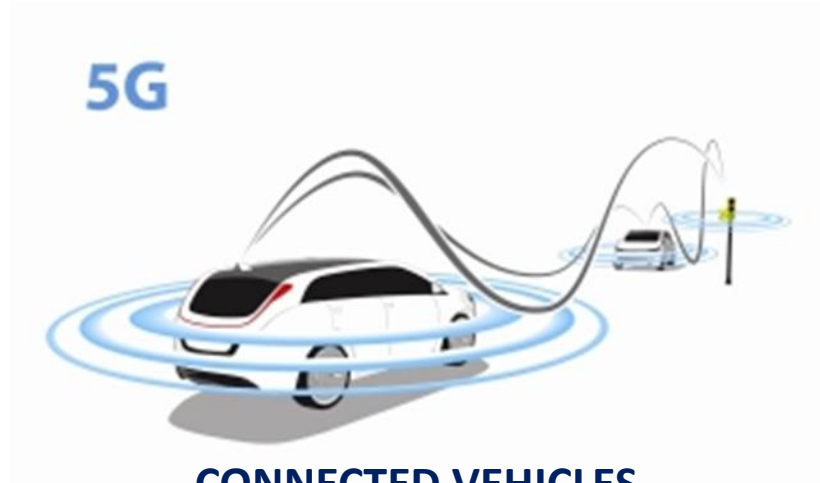


TELECOMMUNICATIONS

- Context
- New Paradigms
- Frontier Technologies
- Climate Impacts



CONNECTED INFRASTRUCTURES



CONNECTED VEHICLES

INFORMATION TO USER

- Context
- New Paradigms
- Frontier Technologies
- Climate Impacts



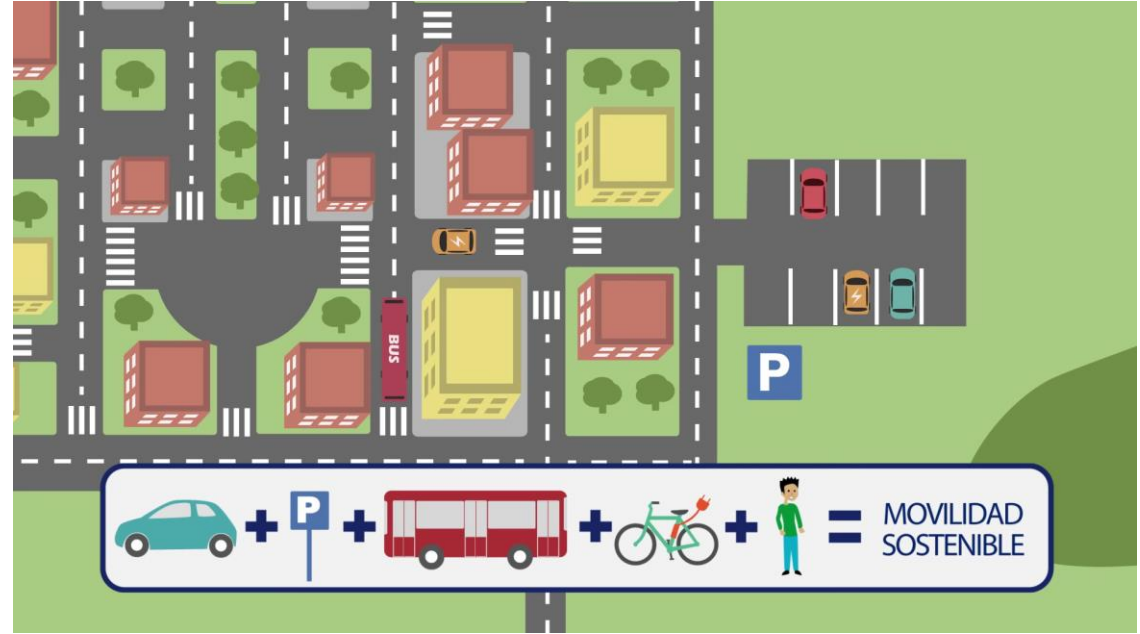
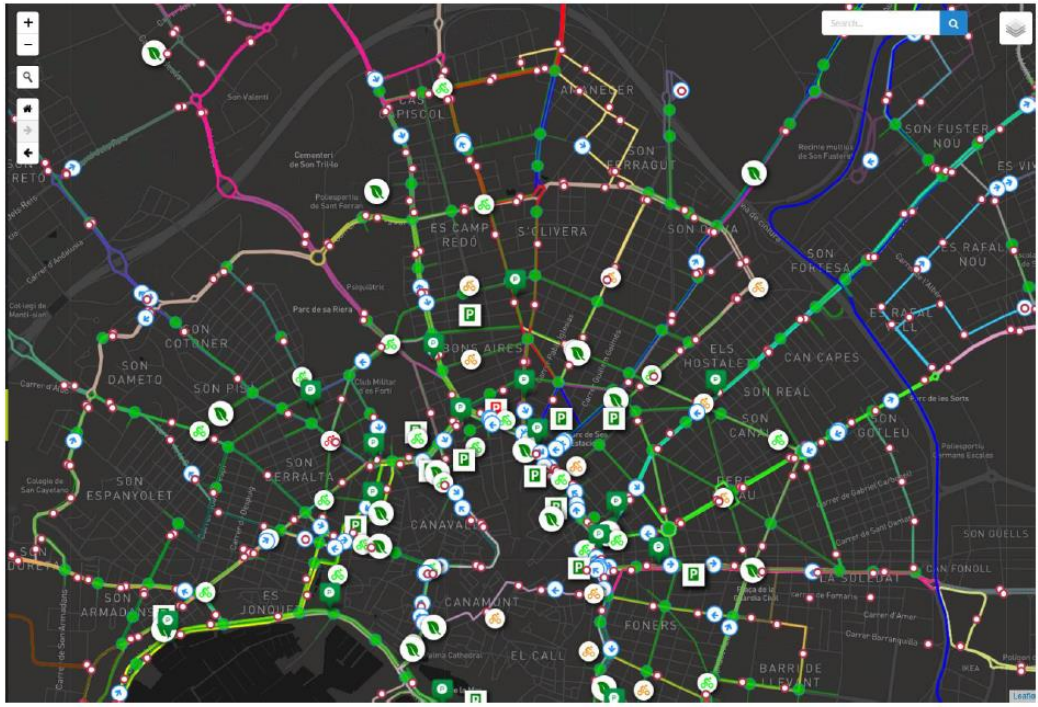
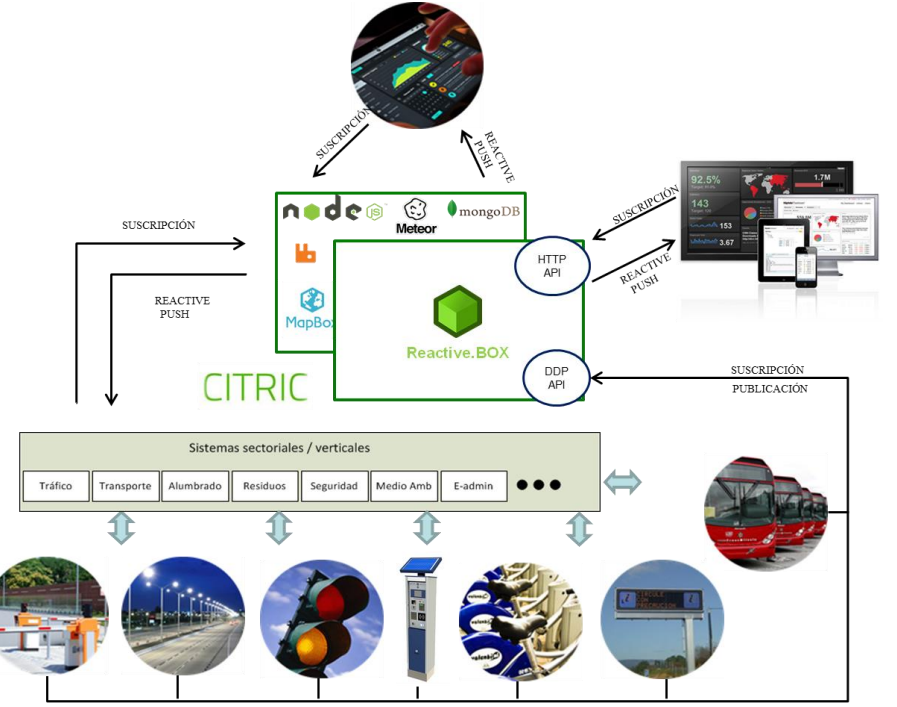
REAL TIME INTEGRATED MULTIMODAL INFORMATION
AUGMENTED REALITY
PERSONAL DEVICES



SMART MOBILITY PLATFORMS

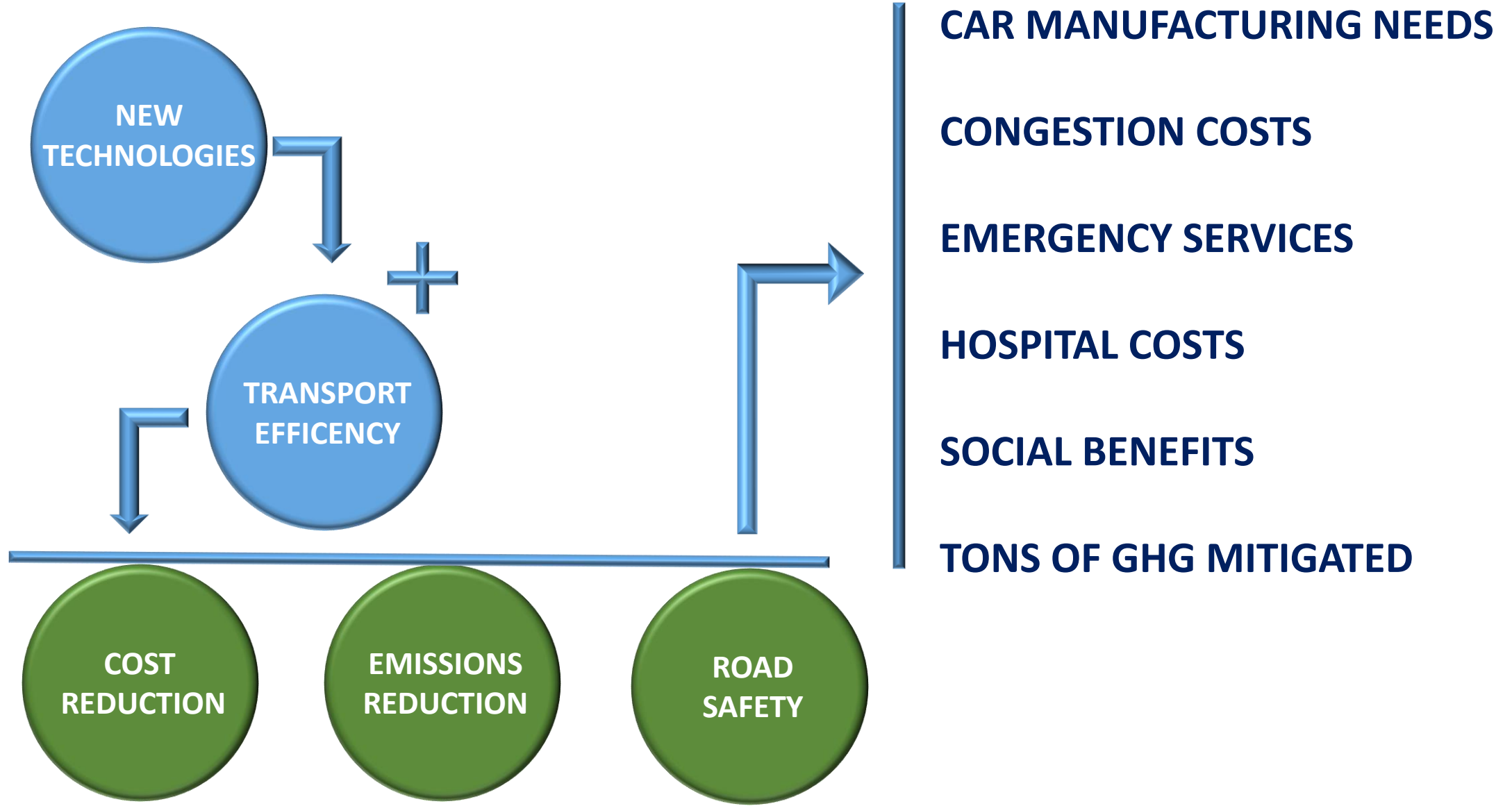
INTEGRATED INFORMATION FOR CITY MANAGERS
CUSTOMIZABLE INFORMATION TO CITIZEN NEEDS

- Context
- New Paradigms
- Frontier Technologies
- Climate Impacts



DIRECT SOCIAL, CLIMATE AND ECONOMICAL IMPACTS

- Context
- New Paradigms
- Frontier Technologies
- Climate Impacts



**GRACIAS
THANK YOU**

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