

ENABLING SMART MOBILITY

INTELLIGENT TRANSPORT SYSTEMS FOR THE CITIES OF TOMORROW

10th International Symposium “The emergence of the Smart City” | 5th of March 2019

Jean SCHILTZ

Deputy Director Smart Mobility
Directorate Sustainable Technologies



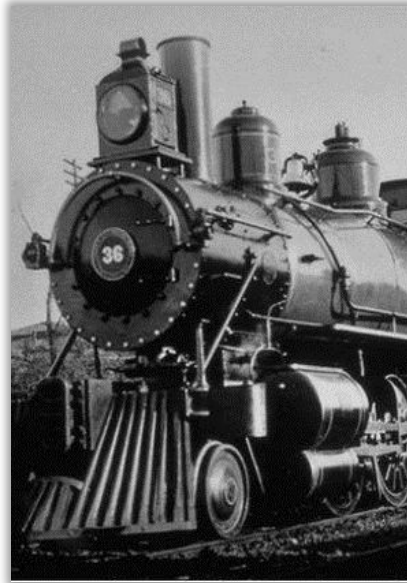
LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Économie

THE MOBILITY (R)EVOLUTION(S)

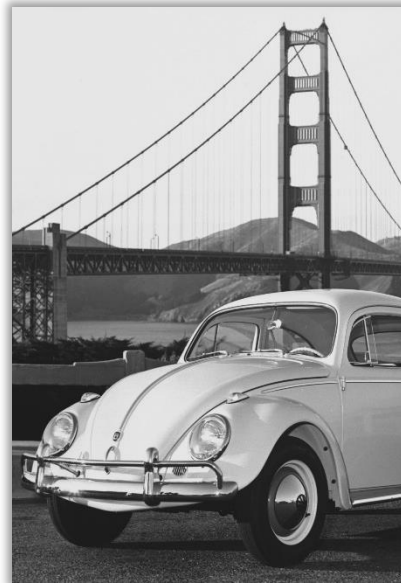
Reshaping the mobility landscape



Mobility 1.0
(<XVIII century)



Mobility 2.0
(XIX century)



Mobility 3.0
(XX century)



Mobility 4.0
(XXI century)

Mechanisation

Metallurgy, engineering
Steam and water power

Industrialisation

Mass production & motorisation
Electrification

Digitalisation & Automation

IT and Cyberphysical systems
Ownership → “as-a-Service”



THE RISE OF SMART MOBILITY

Trends, sub-sectors and building blocks

CCAM (Cooperative, Connected and Automated Mobility)



Cooperative Mobility



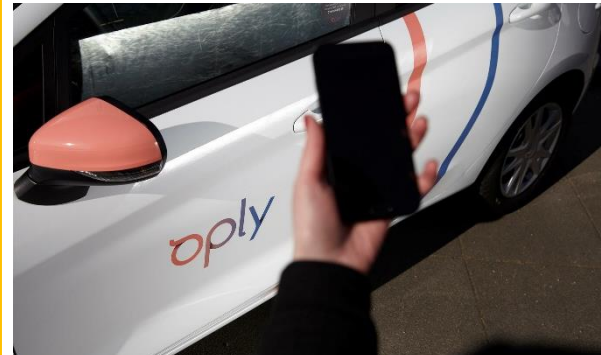
Connected Mobility



Automated Mobility



Multimodal Mobility/ MaaS



Shared Mobility



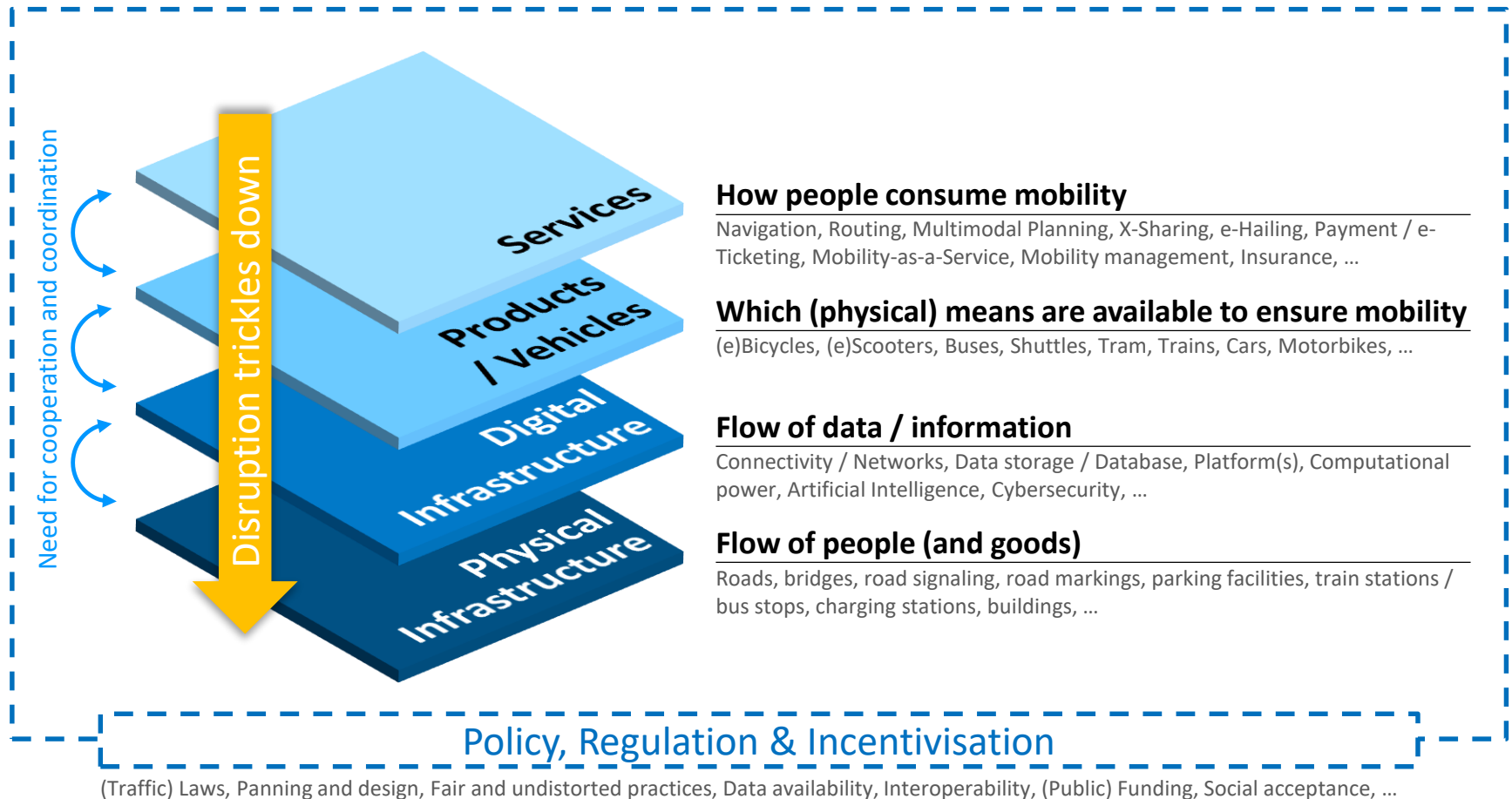
Green Mobility

CASE (Connected, Automated, Shared, Electric)



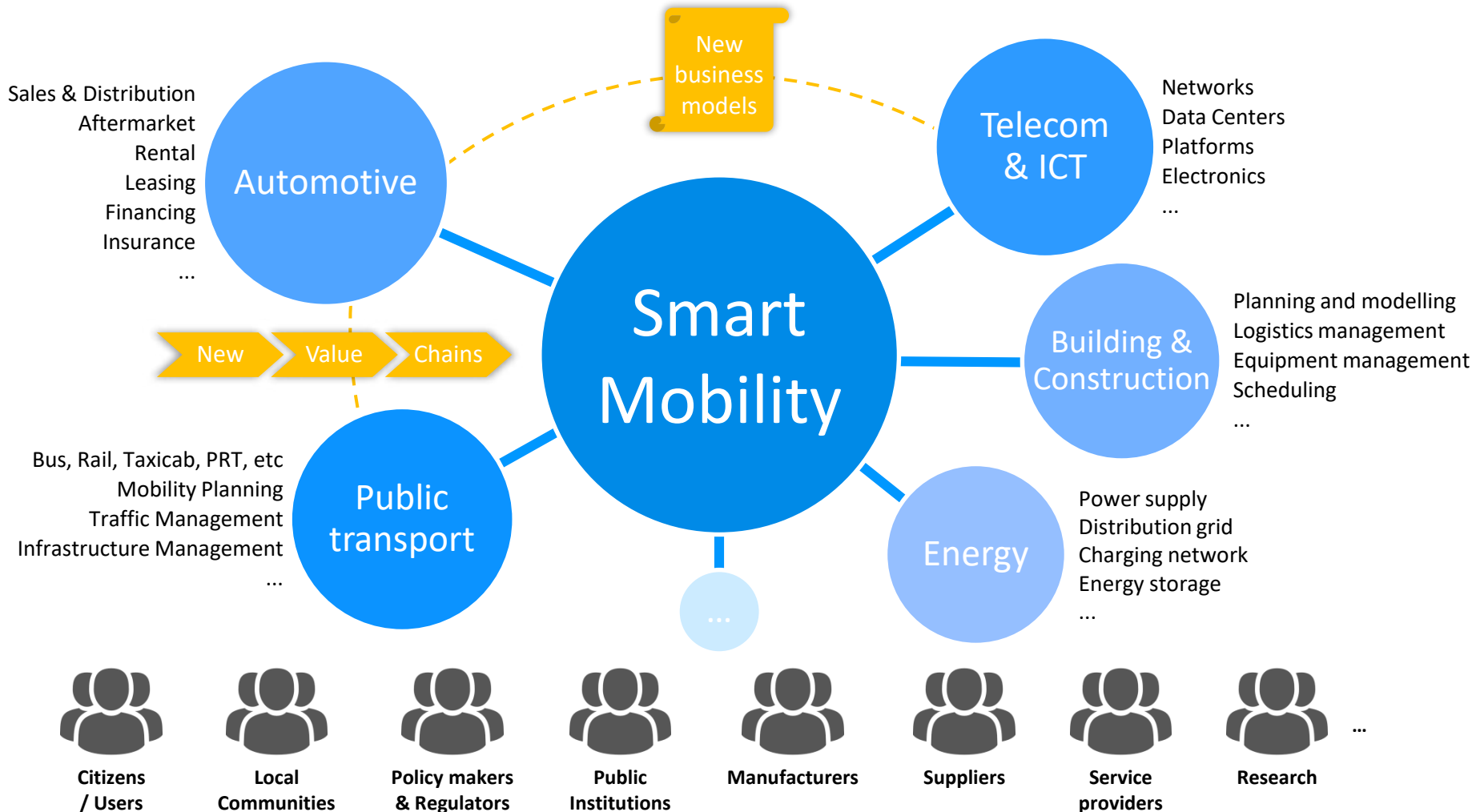
MODELING MOBILITY 4.0

The Smart Mobility Stack



THE SMART MOBILITY ECOSYSTEM

A Complex System-of-Systems with Multiple Stakeholders



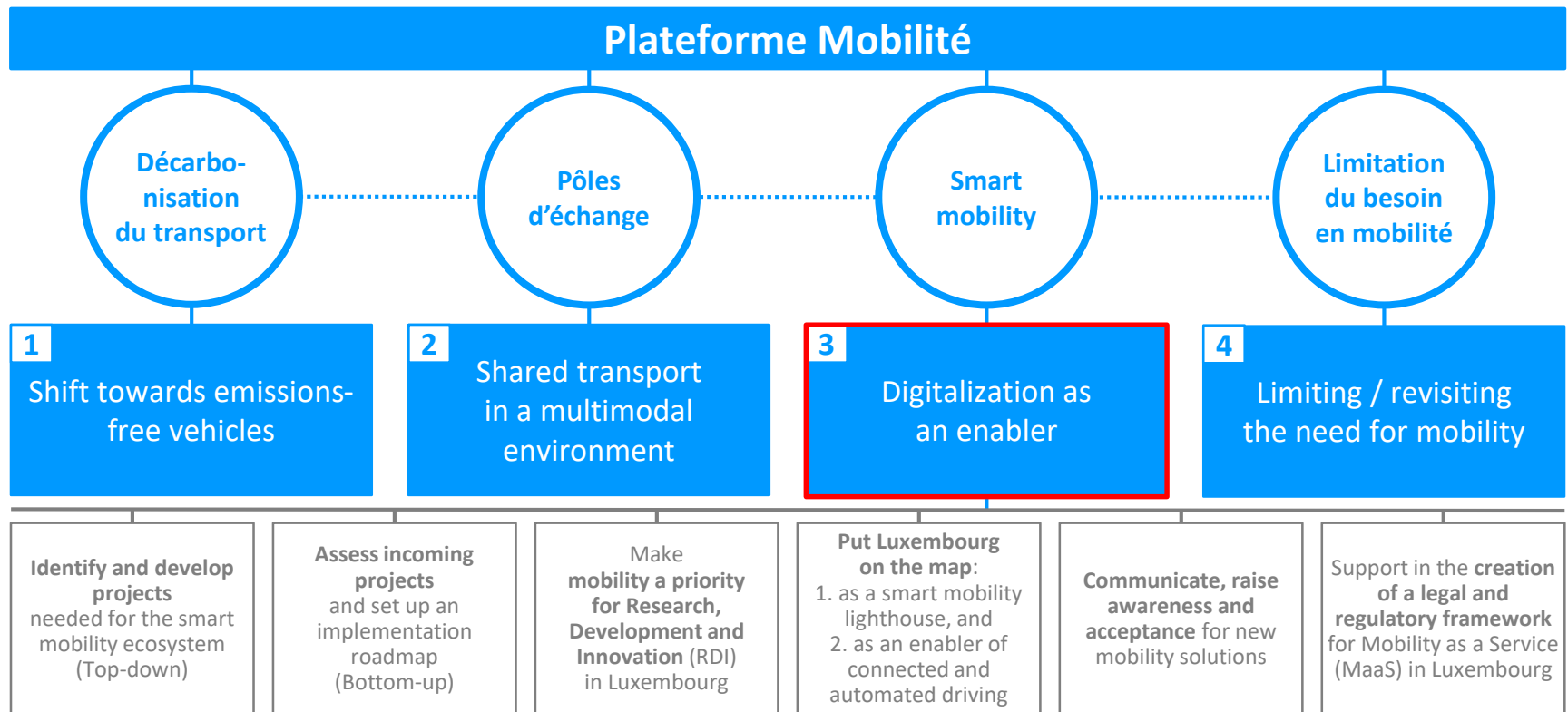
MULTILATERAL COOPERATION BETWEEN STAKEHOLDERS

Luxembourg Bodies working together on the Topic of Smart Mobility



TIR AND THE MOBILITY PLATFORM

Implementing the main subjects to achieve the “vision for 2050”



MOBILITY INNOVATION CAMPUS

Project type Science park

Strategy Public – Private partnership in [open innovation and shared R&D](#) on behalf of next generation green, connected and automated mobility

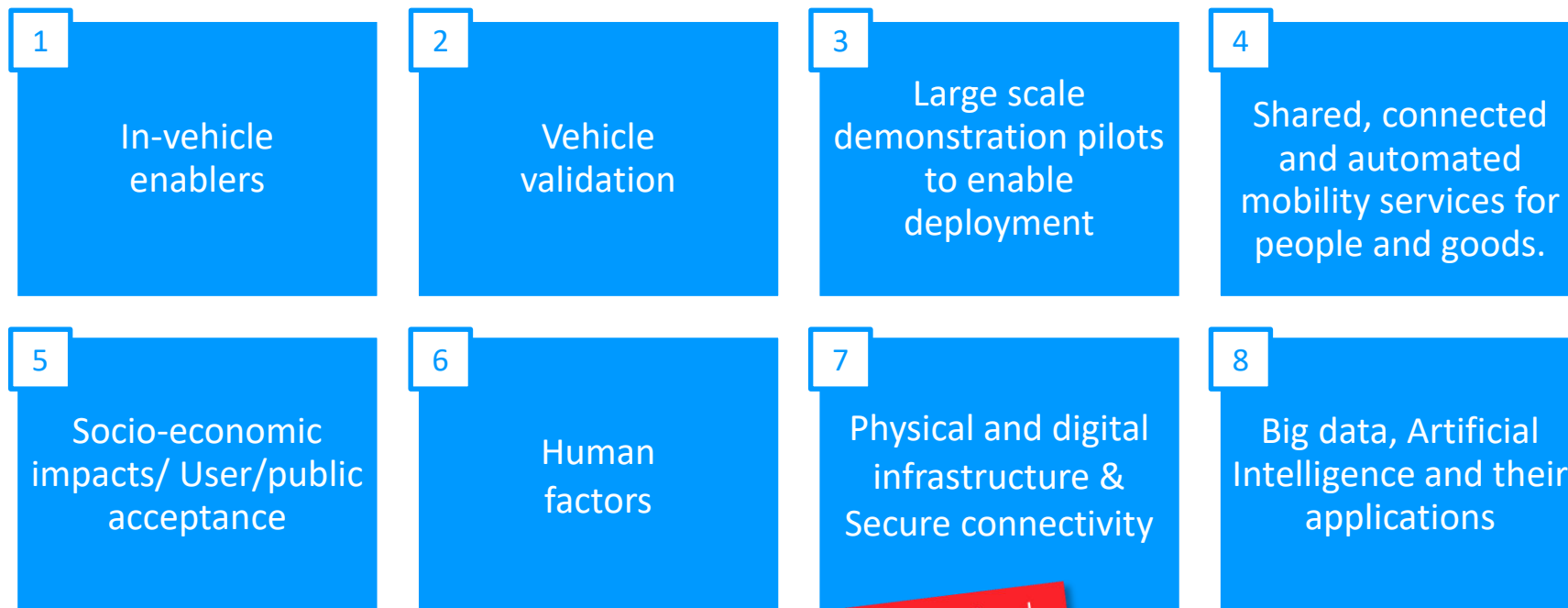
Capacity Total surface 14 hectare of which 8 hectare available for new investors, infrastructure capable for hosting 4.000 engineers and scientists daily – business incubation surface 1.400m²

Planning First inauguration (IEE): Q2 2019, Technoport mobility Incubator 2021



THE EUROPEAN COMMISSION STRATEGIC TRANSPORT RESEARCH AND INNOVATION AGENDA (STRIA)

Thematic areas for Connected and Automated Road Transport

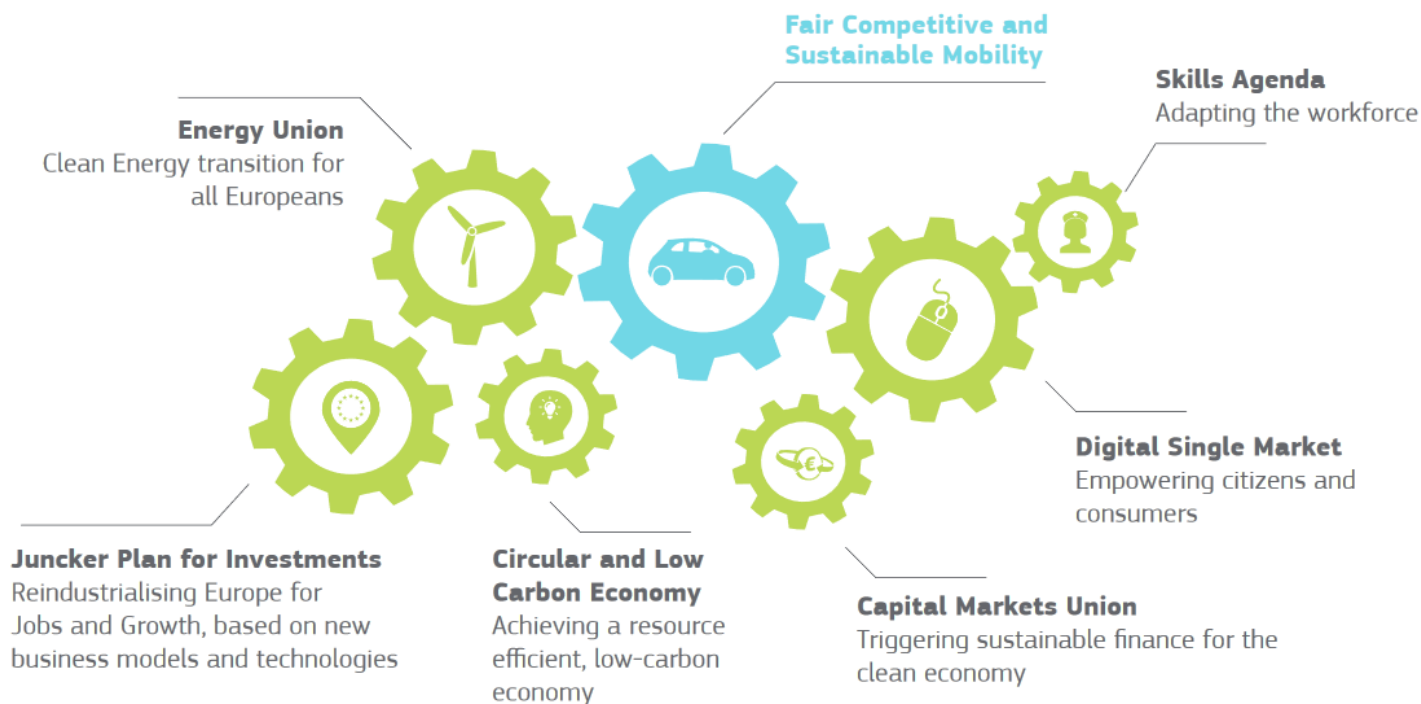


Integrated Roadmap on Connected and Automated Transport by the end of 2018



THE EUROPEAN COMMISSION « EUROPE ON THE MOVE » INITIATIVE

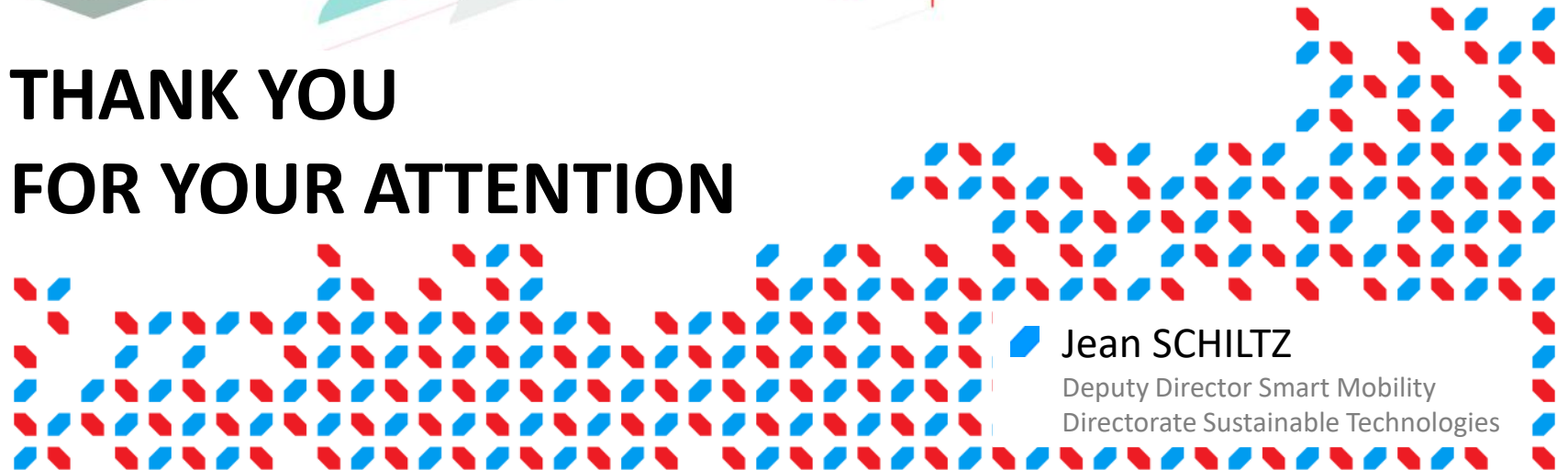
Towards a Safe, clean, connected and automated mobility





LU  **EMBOURG**
LET'S MAKE IT HAPPEN

**THANK YOU
FOR YOUR ATTENTION**



 **Jean SCHILTZ**
Deputy Director Smart Mobility
Directorate Sustainable Technologies