CONEBI/WBIA:

Symposium on the Future Networked Car 2020

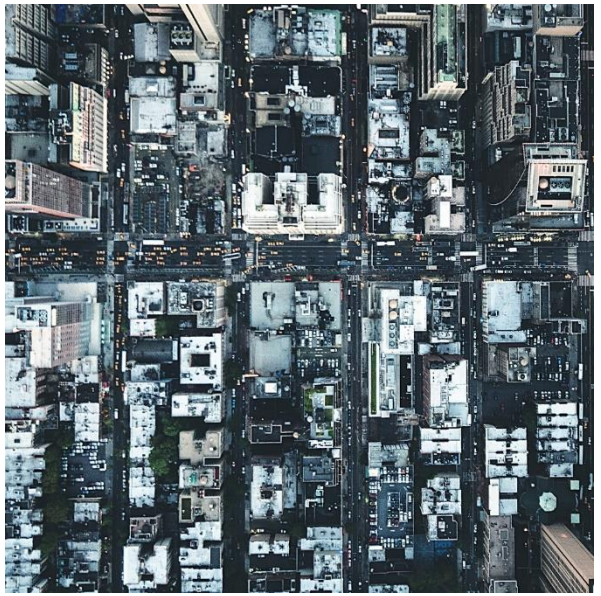
Manuel Marsilio

General Manager (CONEBI)

Spokesperson (WBIA)

Increasing pollution

Increasing population



Increasing urbanization

Increasing mobility & pressure on accessibility

SOME OF THE TRENDS IN CITIES

WHAT IS THE FUTURE HOLDING?

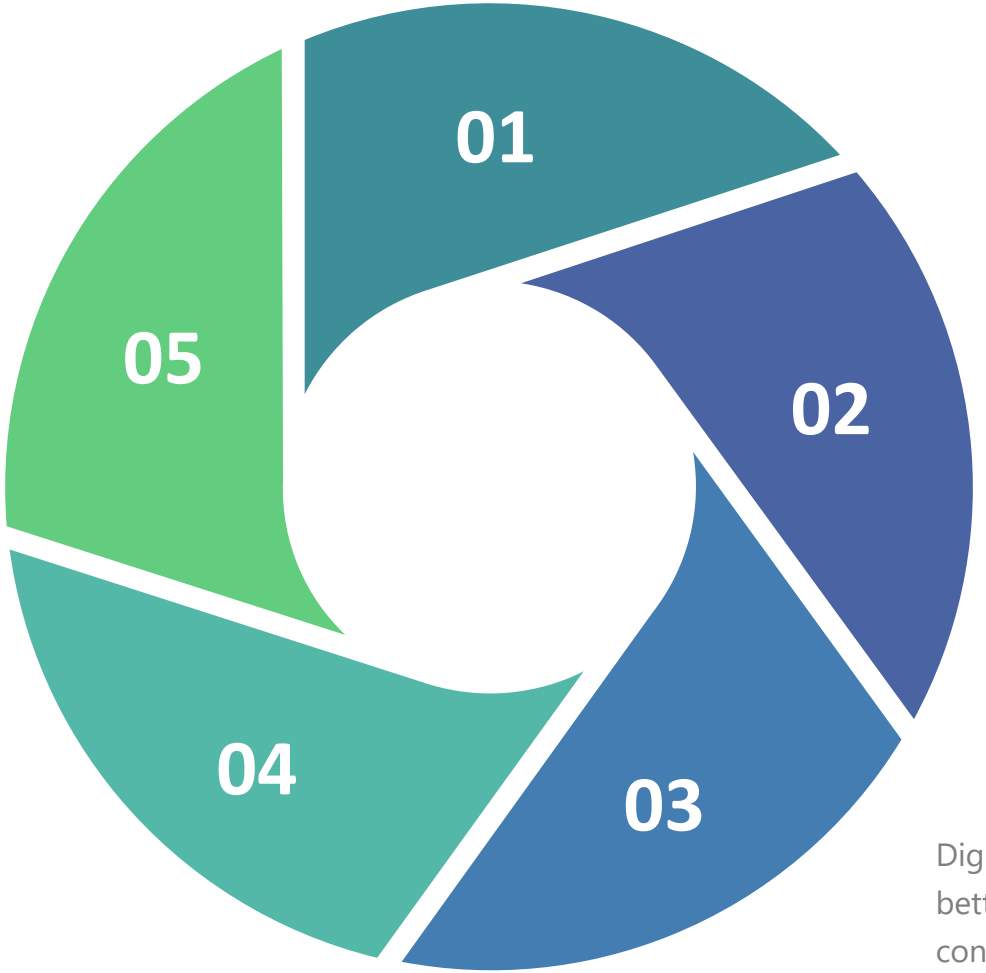
New paradigms for future Mobility

Big Data

Traffic management systems and Mobility-as-a-Service platforms will be fostered by Big Data aggregation across users, providers and machines (i.e. in-vehicle information)

Artificial Intelligence

Vehicle connectivity (and automation, in a later stage) will be a crucial step towards safer mobility. Vehicles will communicate and cooperate with each other thanks to artificial intelligence and eventually ble to detect and avoid Vulnerable Road Users



Sustainability

Better impact on the environment, health, society and productivity

Multimodality

In the sharing economy, urban commuters will focus more on the combination of different means of transportation

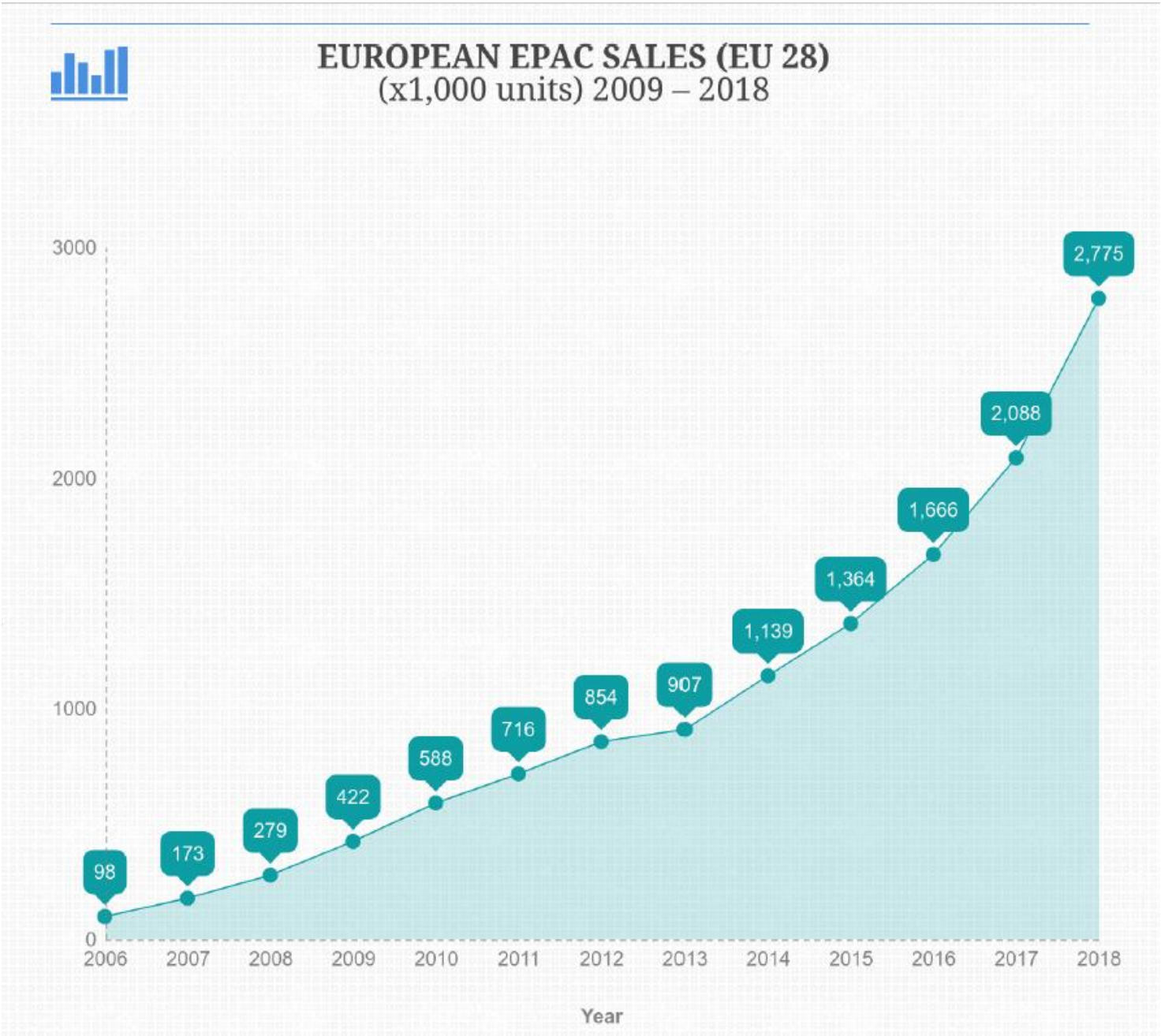
Digitalization

Digital transport platforms have started to appear to better combine transport demand and supply, allowing consumers to choose their preferred combination of prices, timing and other personal demand factors

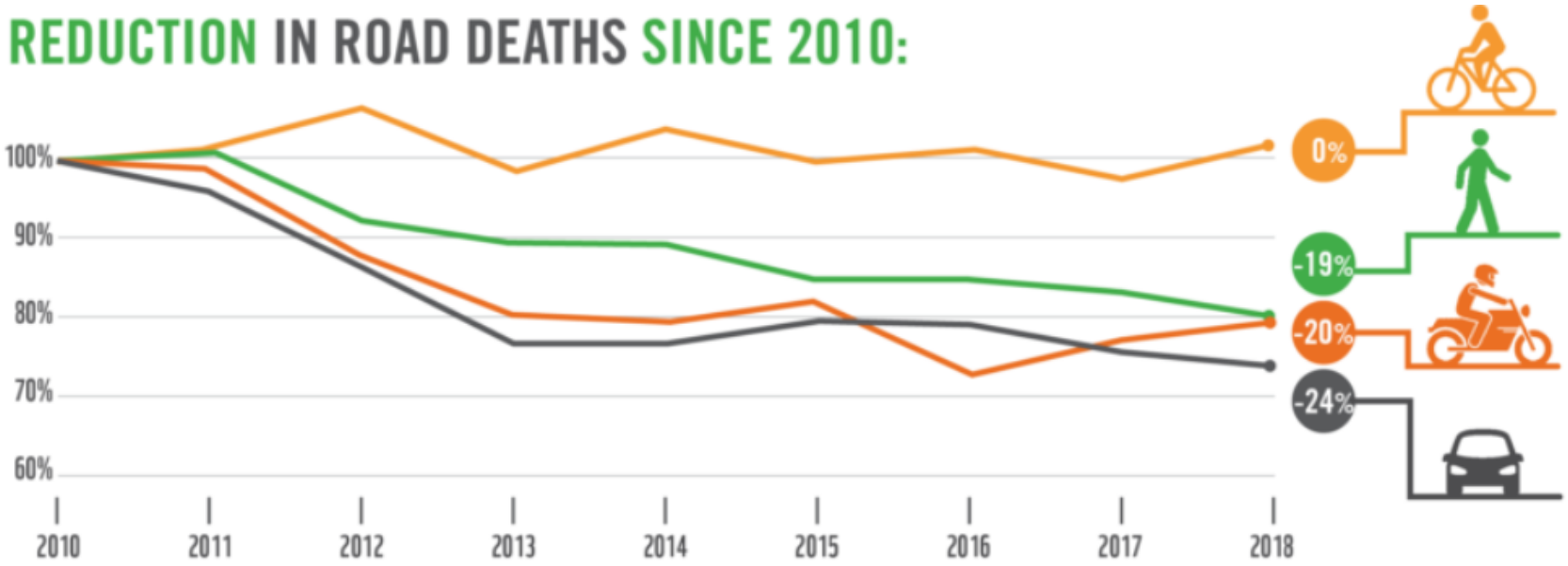
Thon Hotels
bright light
ZONE ROGIER
ZONE GD PLACE
ZONE LOUISE

Around 20 million bicycles sold in the EU in 2018

Out of which more than 2,7 million units were EPACs



Road Safety



Source: European Transport Safety Council 2020 report

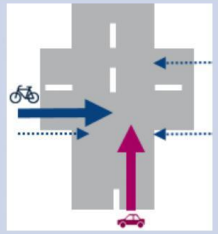
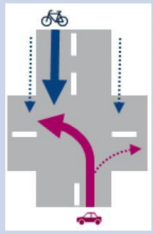
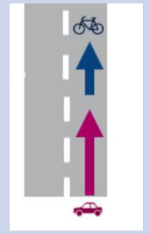
Revision of the EU General Safety Regulation

UN Regulation Blind Spot Information System to detect bicycles

NOW, IN A WORLD FIRST,
AEB CRASH AVOIDANCE TECHNOLOGY
DESIGNED SPECIFICALLY TO PROTECT CYCLISTS
IS BEING ADDED TO THE EURO NCAP RATINGS

V2X Communication

Use-Cases based on Bicycle-Car-Conflict Evaluation

Name	Crossing cyclist	Oncoming cyclist	Lateral riding cyclist	Upfront riding cyclist
Description				
Actors	• Cyclist • Driver • Visual obstructions (e.g. buildings) • Other traffic participants	• Cyclist • Driver • Other traffic participants	• Cyclist • Driver • Visual obstructions (e.g. vehicle design) • Other traffic participants	• Cyclist • Driver
Includes	• Cross road	• Turning	• Start of cycling	• Blind spot for cyclists • Lane change • Start of cycling • Sudden braking by cyclist
Accident frequency*	↑ (36%)	↘ (10%)	↘ (6%)	↓ (1%)
Cyclist fears**	-	Top 1 (88%)		Top 2 (83%)
Further use-cases (w/ minor accident frequency)	• Parking: Vehicle exists parking lot alongside the road • Dooring: Vehicle driver opens door after parking alongside the road (Top 3 of cyclist fears rated with 69%)			

Sources: *Traffic accidents with injured participants weighted for Germany based on GIDAS in 2016 || ** Forsa survey by CosmosDirekt in 2017

B2V / Active Collision Avoidance

"A bicycle and automotive industry collaboration to make safer roads for all bicycle riders."

Intelligent Transport Systems and VRUs:
Technical focus on Bicyclist VRU profile.

Need to raise the attention of the regulators on the interaction between motorised vehicles and all other road users (cyclists high on the political agenda)

Current vehicle-to-pedestrian research should be extended to ensure that bicyclists and other vulnerable road users will be incorporated into the safe deployment of connected vehicle systems (funding perspective).

Safety and VRUs:
focus on cycling infrastructure

Safer Cycling

In our opinion Life-Saving Technologies in cars and heavy duty vehicles (i.e. AEB that is able to detect bicycles) should become mandatory in the future and not just an optional extra.

The international regulatory context plays an important role.

Thank you very much for your attention

Manuel Marsilio

manuel.Marsilio@conebi.eu

CONEBI

Confederation of the European Bicycle Industry

Colibi-Coliped

Since 1960 Representing the European Bicycle Industry

WBIA

WORLD BICYCLE INDUSTRY ASSOCIATION