



EUROPEAN COMMISSION plan for automated mobility

Blaž Pongračič
Ljubljana, 13 July 2018

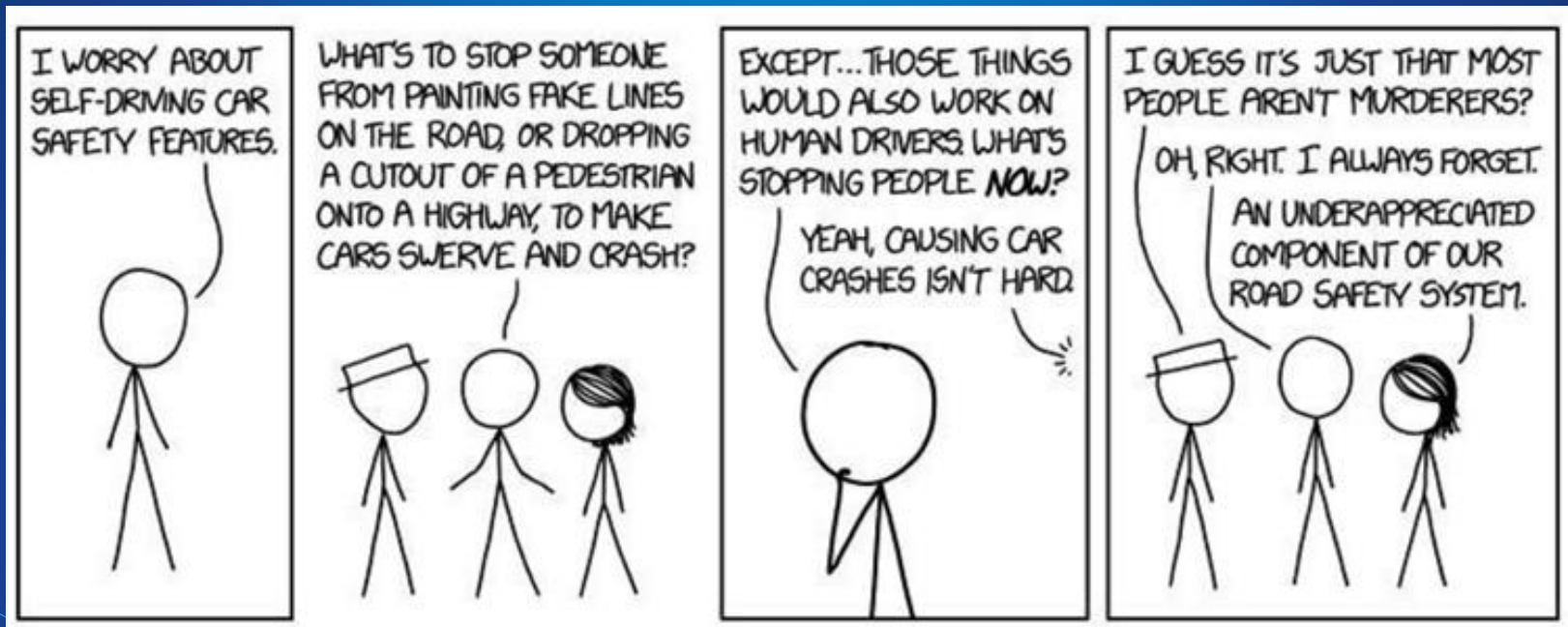


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ARTIFICIAL INTELLIGENCE

- Boost the EU's technological and industrial capacity
- Prepare for socio-economic changes
- Ensure an appropriate ethical and legal framework
 - Drafting AI ethics guidelines
 - Safety and liability
 - Empowering individuals and consumers



SAFETY

We need a real Single Market for vehicles that ensures road safety, data protection, access and cybersecurity



SOCIETY

We need to anticipate the effects of cooperative, connected and automated mobility on society, economy and environment



COMPETITIVENESS

We need to develop key technologies in Europe to keep up with competition and create jobs



**COMMISSION HELPS MEMBER STATES AND INDUSTRY
ON THE WAY TO CONNECTIVITY AND AUTOMATION WITH...**





AN APT LEGAL FRAMEWORK

- New vehicle type-approval rules
- Proposal made today for new safety measures for driver assistance systems and autonomous driving
- Proposal made today for new safety requirements for roads to support automated vehicles
- Proposal today for mandatory black box in automated vehicles
- Upcoming guidelines on the product liability framework
- Develop a balanced and fair framework for the sharing of vehicle data
- By end 2018, adoption of rules to ensure secured communication, data protection and interoperability
- By end 2018, recommendation on the use of spectrum for 5G large scale testing



REGARD FOR SOCIETY AND ETHICS

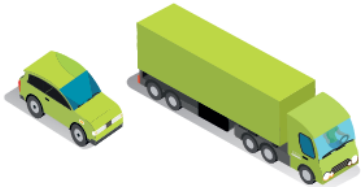
- Assessment of the medium and long term socio-economic and environmental impacts
- Support to the reskilling of the workforce
- EU forum on ethics to address issues related driverless mobility
- By end 2018, ethical guidelines on the development of artificial intelligence



FINANCIAL SUPPORT

- €300 million for research and innovation on automated vehicles from 2014 to 2020
- Up to €450 million made available today under the Connecting Europe Facility to foster the digitalisation of transport
- Establishment of a new partnership under the 2021-2027 EU budget to ensure a consolidated approach towards research and pre-deployment

TRUCKS & CARS



PUBLIC TRANSPORT



2020s

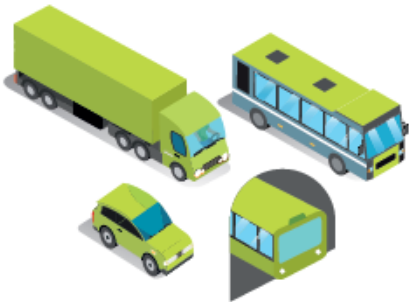
- Automated driving on motorways (e.g. truck platooning) and at low speed in cities (e.g. garbage trucks or valet parking)
- Automated mobility at low speed (e.g. urban shuttles, small delivery vehicles in cities)



2030s

- **Towards fully autonomous mobility.**
- **Towards fully autonomous mobility. 25% of trips in cities covered by shared automated vehicles.**

ALL NEW VEHICLES



By 2022

- Connected to the internet
- Many of them able to communicate directly to each other and their environment as of 2019
- Supported by free services high-precision digital mapping thanks to satellite data from Galileo services as of 2019





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VEHICLE SAFETY

The Commission proposes to make the following safety and driver assistance features mandatory:



- INTELLIGENT SPEED ASSISTANCE
- REVERSING DETECTION AND REVERSING CAMERA
- DRIVER DISTRACTION AND DROWSINESS RECOGNITION



- LANE KEEPING ASSISTANCE
- ADVANCED EMERGENCY BRAKING



- DIRECT VISION REQUIREMENTS
- PEDESTRIAN/CYCLISTS DETECTION



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INFRASTRUCTURE SAFETY

The Commission proposes to **update the European rules on infrastructure safety management:**



- **SCOPE EXTENDED BEYOND MOTORWAYS**

Only 8% of fatalities occur on motorways, while 39% happen on primary/main roads.

- **NETWORK-WIDE RISK MAPPING**

- **REINFORCED PROVISIONS FOR VULNERABLE ROAD USERS**



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