



Ministerstvo dopravy



Panel discussion - Vision of transport development in cities

5th International Conference Smart and Healthy Transport in Cities
9 April 2019, Pilsen, Czech Republic

Martin Pichl

Deputy Director of ITS, Space Activities and R&D&I Department and Head of
Intelligent Transport Systems and Research, Development and Innovation Unit
Ministry of Transport of the Czech Republic

What the world will be like in about 100 years from now? What did people dream about the future?



- Visions of the future formed the civilisation development
- Often different to reality
- Fantasy that cannot be implemented

Source: Institute of Creative Photography, The Silesian University in Opava / Troppau



Development - things that would be helpful and things that wouldn't

- The goal is to define the track, how this can be done
- Brakes on development can differ widely – technical constraints, necessary preparation for technological and legal environment, political will and support
- The basic issue:
 - Barriers which can seem insurmountable - that they really are?
 - Problems to be technically addressed and fine tuned in term of project readiness
 - Problems to be patiently explained
 - To understand concerns and needs of individual stakeholders and users
 - To find a common understanding in order to be able to speak in common language
- For development is also very important the political will and support that is visible for the general public



Sustainable Planning

- Public sector also assists with the development
- The establishment of a legislative framework
- The creation of relevant frameworks and procedures that would allow to make sure that no low-quality or non-functional components especially for traffic safety relevant applications are introduced on the market
- To prevent eventual damages and traffic accidents as much as possible
- Research and development by supporting activities covering the entire spectrum from research to market
- Industry shall be in a position to attest that the its solution and/or components and systems are reliable and ready for the market



Sustainable Planning

- Depending on the role of the stakeholders there are many different benefits from different point of views
- For example relating to the automated driving, better data/information is a major benefit. You are able to share and receive information, to be properly informed, to take better decisions
- This is important for users, as well as for automated systems. On the other hand this fact can also be dangerous, as it must be taken into account that a misuse for criminal activities is possible
- Inadequate education and training of the public and transport professionals involved in modern transport technologies will not bring the benefit expected from the deployment and operation of these systems



Sustainable Planning

- Do we know what people need?
- We cannot forget that people need individual approach in communication
- Public campaigns to increase awareness about intended project
- Transport automation might affect current working positions, resp. professions. This is an issue which is associated with the change of operational processes. Some professions will be transformed
- Primary and secondary school pupils and students should also be kept well informed of career possibilities in rapidly-developing modern technologies about which may not be a sufficient a high level of awareness

A photograph of a white bus and a white car on a road, viewed from a high angle. The bus is on the left, and the car is on the right. The road is dark, and the background shows some buildings and trees.

Sustainable Planning

- Public sector also assists with the development
- A potential user / customer may not wish to buy ‘a pig in a poke’
- He wants to know answers to practical questions supported by a real basis, i.e. findings from real pilot operations not from desk studies or laboratory tests
- Support demonstration and large-scale pilot projects to implement innovative measures
- In certain cases, the public sector acts as a market investor
- This activity is neither competition nor alternative to private sector activities

Sustainable Planning

- For instance the building of digital layer of transport infrastructure and which in the future will be a part of the day-to-day transport network operation
- Public sector shall be responsible for developing, managing and maintaining the barrierless mobility, traffic management, transport infrastructure
...





Thank you for your attention!

martin.pichl@mdcr.cz