



3rd International Conference, Bitola, October 14 – 16, 2021

CONFERENCE CONCLUSIONS

The 3rd International Conference in the field of traffic and transport hosted by the Faculty of Technical Sciences in Bitola, North Macedonia, from 14th to 16th of October 2021, was co - organized by 9 higher education institutions. It brought together scientific researchers, professionals, representatives of business community and students from around the Europe.

Going through two key-note lectures, three guest lectures as well as more than 50 articles reviewed by two reviewers, one from North Macedonia and one from abroad, it can be concluded that the main aim of the event is directed towards providing a well-fit transport system as a response on technological advances, digital revolution, climate changes, rapid growing population.

These are the main conclusions, in the light of presentations and discussions during the conference:

- The fast development of information, computer and mobile phone technology, has great impact on transport sector. New strategies, solutions and applications have been developed, mostly aimed at making transport services more convenient, accessible and easy to use;
- The requirement for better understanding the relationships between land use and transport, sustainability in transport infrastructure development, transport policy, solutions and measures, are definitely main focus of many research works:
 - Key issues pertaining to land use planning are focused on integrated planning, (integration between different fields of development and spatial planning),
 - Transport modelling and forecast of travel demand enjoy constant upgrading and improvement. Widen modelling solutions can catch more details and specifics, thus improving the process of simulation and forecasting, which gives more powerful tool in the hands of transport workers,
 - The intelligent technologies on the roads are the future of transport. Therefore, current challenges of road infrastructure are oriented to the adaptations regarding the development of autonomous cars technology,

improving of road safety, as well as solving the legal problems related to the development of common rules for all countries,

- The automated driving and data processing technology empowers an issue related to the need for determination how the instruments of future traffic management need to be developed,
- The introduction of new ecological vehicles in public transport requires well-planned transition process related to many organizational, functional and maintenance problems,
- The public transport as a mode of transport that has important role toward urban transport sustainability, must further improve the quality of its services. The research focused on analysis of public transport user's needs and their response to the quality of service can help to increase the attractiveness of public transport as sustainable solution to urban transport problems,
- The recent transport technological advancements are expected to innovating the way in which transportation logistics are dealt with,
- Building the sustainable transport policy can be enriched by better cooperation and exchange of experience between local governments,
- New transport technologies are oriented to broader economic changes, such as gains in productivity and shifts in the economy structure,
- Strategies on the development of mobility in cities is a clear vision, goals, short-term and long-term measures, put together in an action plan and as such define the approach and responsibility of local self-governments that indirectly transfers into a national level,
- Sustainable Urban Mobility Plan is the tool that will promote the capacity of the local self-government in the direction of providing condition for decent lives of citizens: health, safety, accessibility, good public transport and sustainable types of transport and overall resilience,
- The functionality and number of tools and applications in the frame of information systems for transport will be developing over the coming years.

The organizer of this Conference, Faculty of Technical Sciences in Bitola, expects that the above-mentioned conclusions will guide the work of all stakeholders in the field of transport.

Bitola, North Macedonia, 15th of October, 2021