

## SUSTAINABLE TRANSPORT ECOSYSTEMS

**Havrylashenko Kateryna**

*National Aviation University, Kyiv*

*Scientific supervisor – Myroslava Semeriahina, senior lecturer*

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This research constitutes a relatively new area of transport ecosystems which has emerged from current technological trends and new mobility solutions. Generally, market demands stand for provision of reliable, fast and personalized services in terms of convenience as they open up developments in sphere of mobility. The majority of cities do not have a clearly expressed perception of mobility systems and adjusted strategies for future transport ecosystems.

It is in need to analyse the current achievements in the field of sustainable transport ecosystems. As an ecosystem, in terms of fundamental vision in transportation, is accepted as a comprehensive system of integrated sensors, nodes and corridors in a collaborative testbed, involving governmental, academic and industrial organizations that are located across the specific infrastructure.

The world-first arranged project is led by the University of Melbourne [1]. In this case, the technology advances are oriented on conquering the gap between existing infrastructure and standardized transport modes. A challenging problem which arises in the domain is lack of collaboration as a major barrier that drives to forming non-modernized approach in the sector of transportation. The secondary problem concerns innovations that direct new business models that are centered around customer-centric approach and agility in way of working. The overcoming these obstacles can give an ability to improve customer experience for providers, transform and contribute to the wider ecosystem [2].

In order to address future mobility challenges, cities and mobility solutions providers must adopt more comprehensive, coordinated and proactive approaches to manage mobility supply and demand. The mobility systems of tomorrow should be intermodal, personalized, convenient and connected, and encourage the use of more sustainable modes of transport (public transport, cycling, walking), while integrating new mobility solutions, such as autonomous vehicles (AVs). Convergence constitutes a major opportunity to reinvent mobility systems as they gradually evolve to embrace “mobility-as-a-service”, evolving from the ownership of individual transport modes towards usage of multiple mobility modes as services.

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