Smart mobility in Prishtina
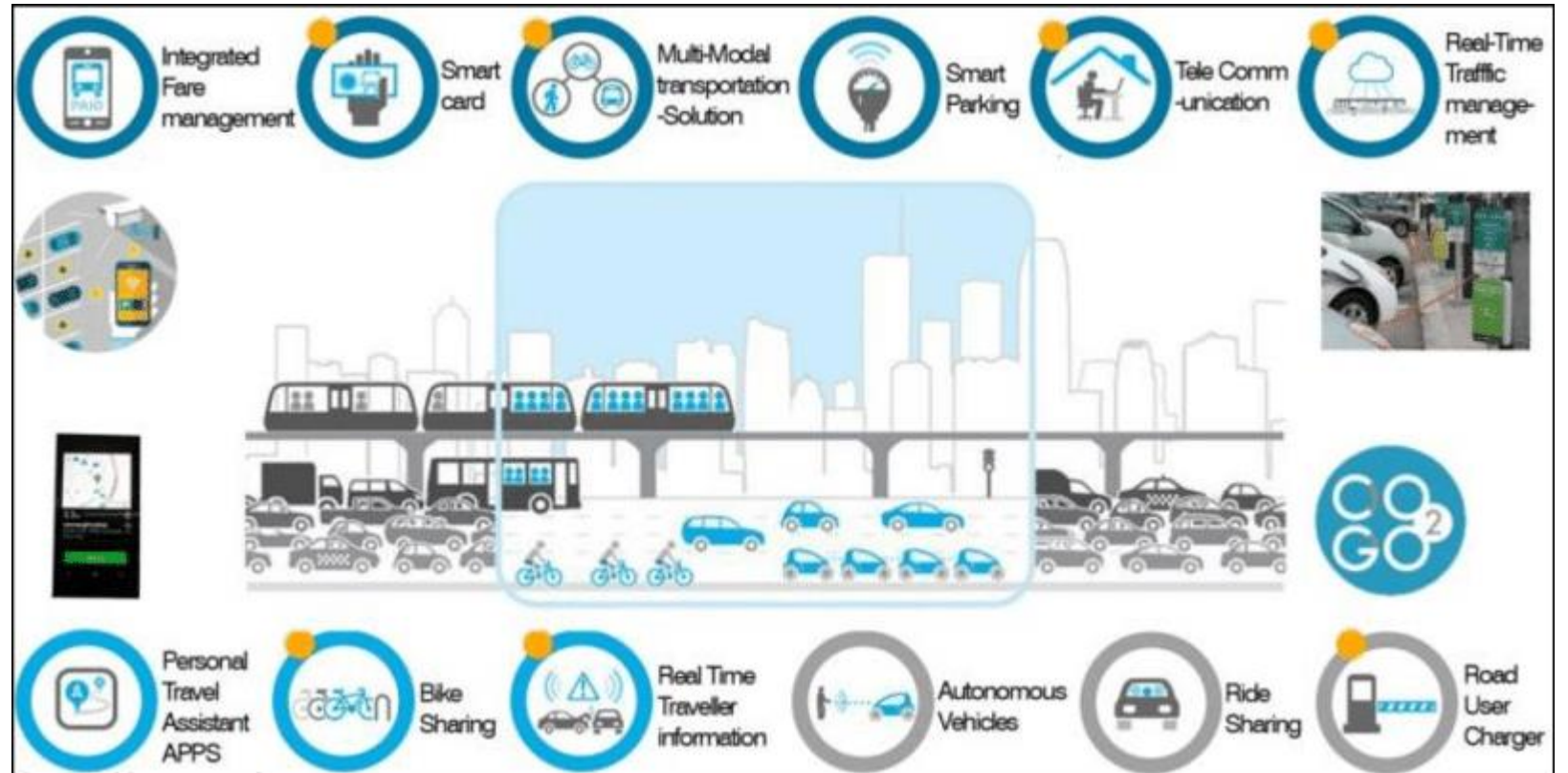
Challenges and Opportunities

Dr.sc. Mevlan Bixhaku

What is Smart Mobility?

In short, smart mobility is an intelligent transport and mobility network.

Smart mobility integrates all modes of transportation and infrastructure: cars, bike-shares; traffic signals; buildings; parking spaces; emergency vehicles and people; and it utilizes sensors, software and data platforms to streamline all of these elements into one coherent system.

Source: The Smart mobility concept - University of Zagreb · Deapartment of Urban Transport

City Introduction: Prishtina/ Kosovo

City Characteristics

- Over 50% of population < 25
- The youngest capital city in Europe
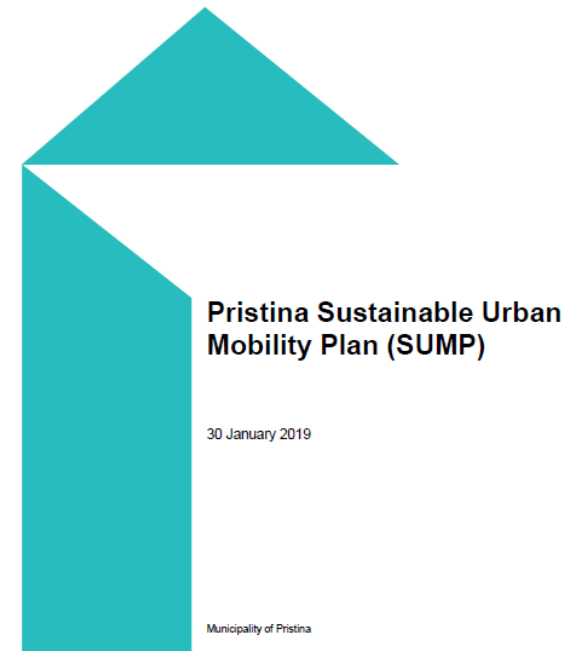- Population: – Last census = 200k
- Estimates = >400k

Prishtina Sustainable Urban Mobility Plan (SUMP)- Status of implementation

Pristina is the first municipality in Kosovo that has drafted a Sustainable Urban Mobility Plan which analyzes the problems with the transport network and possible solutions.

Signature improvement measures anchored in SUMP:

- Enhanced Public Transport Network & Services
- Cycling Network Development
- Enhanced Pedestrian Scheme
- More than 100 measures identified and assessed as part of SUMP)

Pristina Sustainable Urban Mobility Plan (SUMP)

30 January 2019

Municipality of Pristina

Pristina Sustainable Urban Mobility Plan (SUMP)- Status of implementation

Proposed SUMP measures for the short-term period – 2019 – 2020 have not been implemented as planned. New Citywide Bus Network Concept has not yet started to be implemented, although 51 Euro VI diesel buses have already been imported with support of the EBRD.

Of all the short-term measures envisaged for the period 2019-2020, only a few steps have been taken in implementing the construction of bicycle infrastructure. New bicycle lanes have been built in the "Dardania" neighborhood.

Smart Mobility - Status of implementation

In a global context, Prishtina is not a smart city. Earlier, citizens had a hard time accessing basic information, such a the requirements for obtaining a birth certificate, let alone other services like construction permits or even municipal investments.

However, this has changed, the Municipality of Prishtina has launched new digital services that give citizens the opportunity to apply for various documents online and send them to their address.

Public transportation

Trafiku Urban (TU) is the public transport company owned by the Municipality of Prishtina. It operates with 15 lines in the urban area. Lines are operated through a public-private partnership. In 2016 the Municipality of Prishtina purchased 51 new buses for the city, produced by Iveco, in an attempt to modernize the fleet.

Additionally, the app called **Trafiku Urban** (Android and iOS) developed by Appbites through the municipality of Prishtina allows you to see the real-time location of buses on lines 1, 3, and 4, as well as the bus stops they pass through.
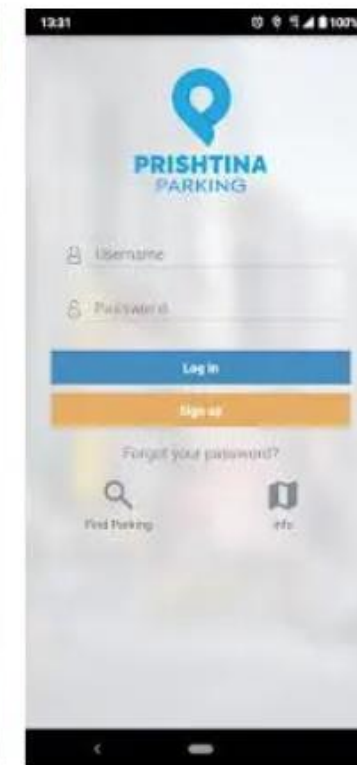

All different types of public transportation must be connected to the same database, synchronizing transport with each other and supplying users with real-time information on the transportation system so they can decide on the best route to their destination.

Parking issues

The EasyPark Mobile Prishtina application

The "EasyPark Mobile Prishtina" application enables you to find parking spots, to park your car quickly and easily. You can control parking sessions using intuitive and smart menu options and location services.

For using and taking advantage of these and many others services You need to download the application on your smart phone, register yourself in to the application service in order to use many of its easy-to-use features like: searching destinations and free parking spots; starting, stopping and adjusting parking sessions; one-click parking payments using a credit or debit card; finding the location where you left your car, and; much more.

Challenges to the Smart Mobility Sector in Prishtina

- Lack of coordination for the planned implementation of smart projects.

- Lack of legal regulations and guide lines.

- Lack of local companies and professionals for the implementation of smart projects.

- Lack of innovative forms of governing.

- Unfamiliarity of the local community on modern technical capabilities and low involvement of the local community.

- Lack of funding.

Recommendations

- Start with a realistic vision

- Identify the approach of policies / regulators that promote innovation and set smart projects for the city

- Implement your (network) infrastructure "first time right"

- Improve network and traffic management systems

- Incorporate smart requirements into publicly funded infrastructure programs

Thank you