NICOSIA!

A SMART,
SUSTAINABLE,
ACCESSIBLE
Capital City

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Transportation/
Engineer





ΛΕΥΚΩΣΙΑ!

Πρωτεύουσα Ευφυής, Βιώσιμη, Προσβάσιμη για Όλους









Στρατηγική για Ολοκληρωμένη, Βιώσιμη Αστική Ανάπτυξη στα πλαίσια αξιοποίησης των Ευρωπαϊκών Διαρθρωτικών και Επενδυτικών Ταμείων της Προγραμματικής Περιόδου 2014-2020



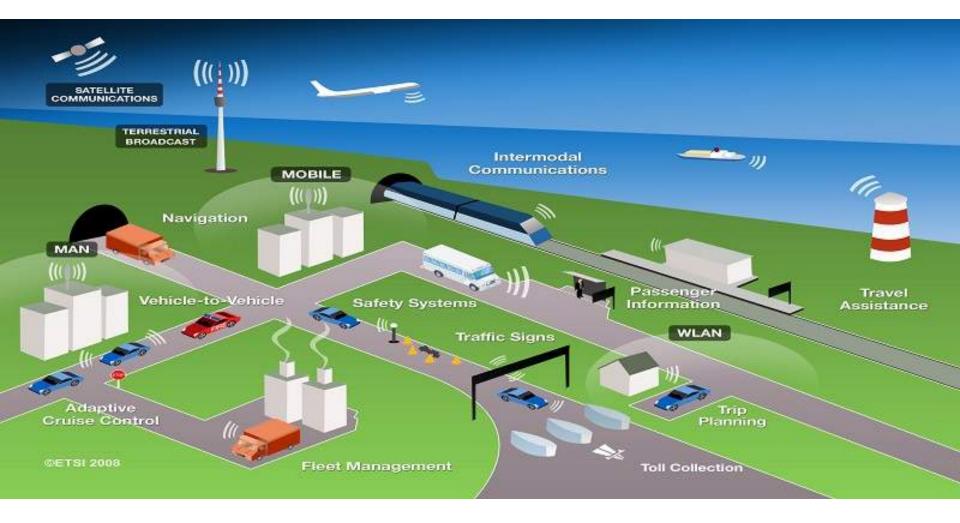


Smart City and Mobility Data

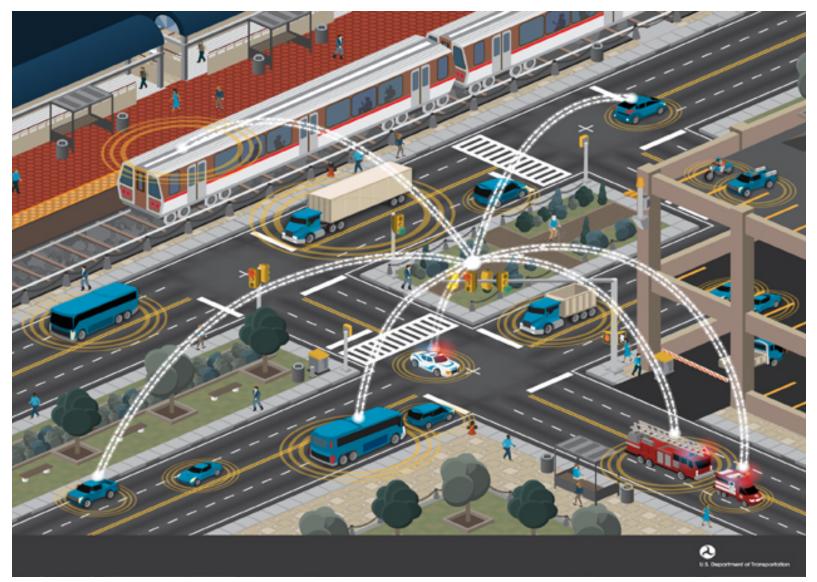


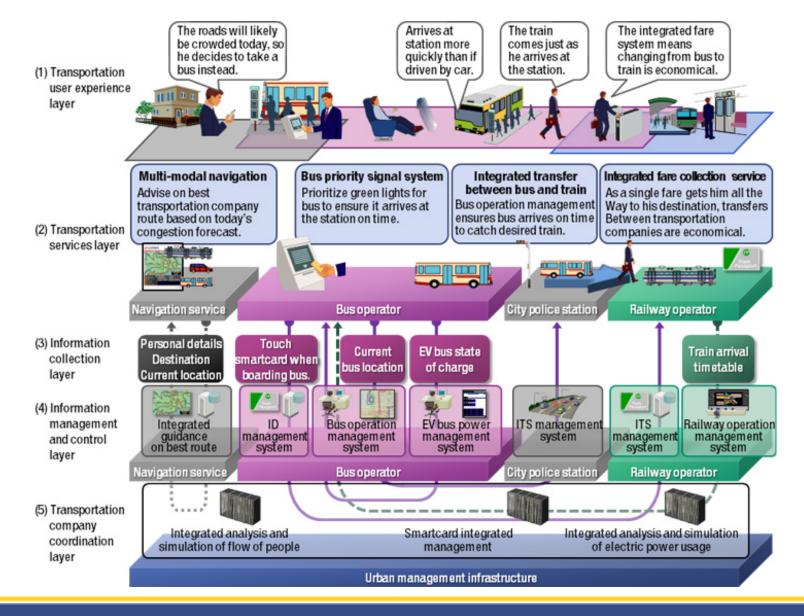












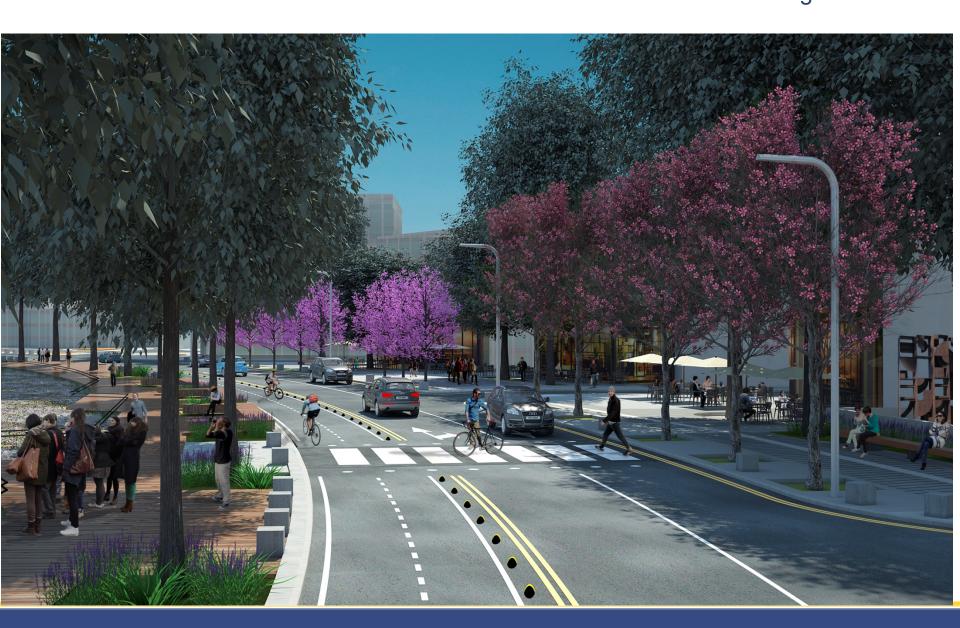


Nicosia Smart City Challenges

- How we addressing the challenges of TODAY and TOMORROW
- Transportation is not just about concrete and steel. It's about how people want to live and commute
- How we are Coordinating data collection and analysis
- Reducing inefficiency in parking systems and payment
- How are we optimizing traffic flow on congested arterial streets
- Limiting the impacts of climate change and reducing carbon emissions

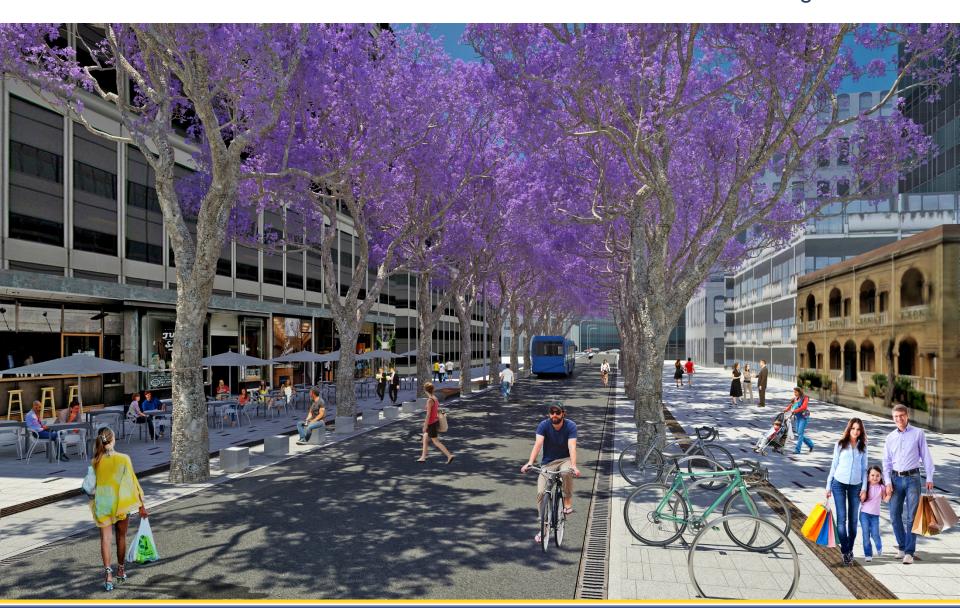


Regeneration of the ringroad (Stasinou ave) Budget: 15.6 mil €



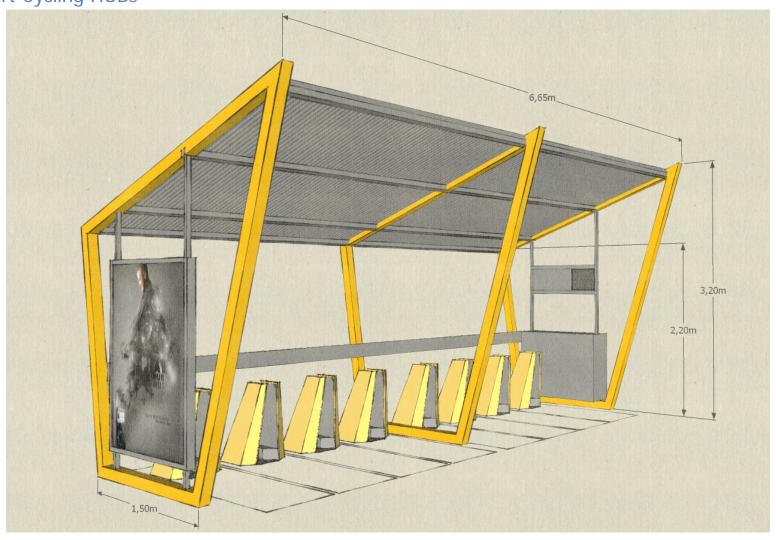
Makarios Avenue – Commercial Triangle

Budget: 28.8 mil €





Smart Cycling HUBs





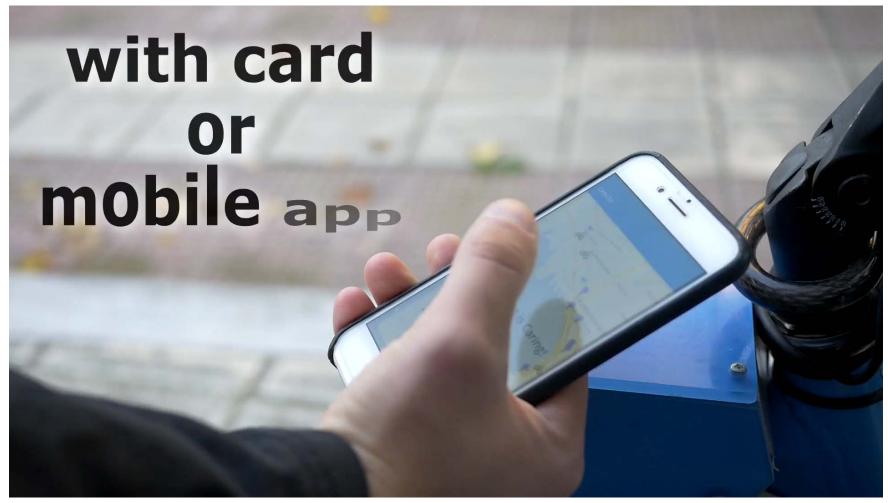
Efficient Smart Bikes



Smart Digi Lock

- NFC technology
- Built-in GPS / GPRS
- Data information of geographic location of the bike
- Real time information of lock and bicycle status
- Built-in motion sensor







Efficient Smart Bikes: Types of Bicycles



1. City Bicycles

- Suitable for use in the city
- Lightweight aluminum frame
- At least 3 gears built into the rear hub
- Dynamo Hub on the front wheel
- Front and rear mudguards
- Front and rear lights
- Lock to secure the bike between leases



Efficient Smart Bikes



2. Electrical Bicycles

- Suitable for use in the city
- Built-in GPS / GPRS
- Built-in motion sensor
- Maximum number of recharges : ≥700
- Maximum recharge time: Up to 5 hours
- Maximum autonomy with fully charged battery: At least
 50 km
- Maximum top speed: 25km/h
- Maximum motor power: 250Watt

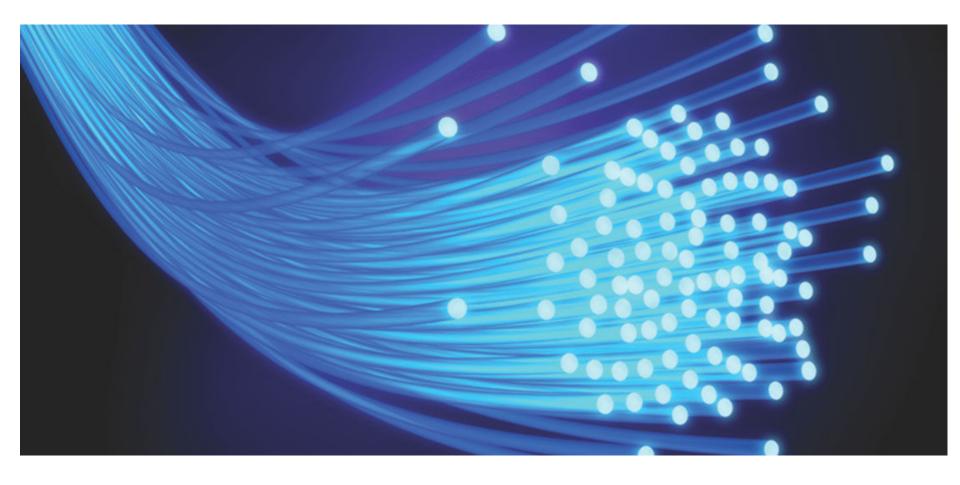


Efficient Smart Bikes



3. Disabled Bicycles

- Fun dual rider ability
- Equipped with crank and sprocket system
- Allows caregiver or parent to join in the fun
- The rear rider has full control of the bike





5 Concepts

Smart Lighting



Smart Parking

Citizen Smartphone App

 An App to share civic complaints and to allow City to listen and respond.

City WiFi

 Provide WiFi to buspassengers, pedestrians, tourists and shop keepers.

Environment Monitoring

 Measure and Broadcast environmental conditions





Smart Phone App

Scope: An App to Share Civic Complaints and to allow City to Listen and Respond, can also show Utility Places of Interest (eg, recycling), and has ability to broadcast announcements to subscribers



Το FIXMYCITY και στο κινητό σου ή στο tablet σου.

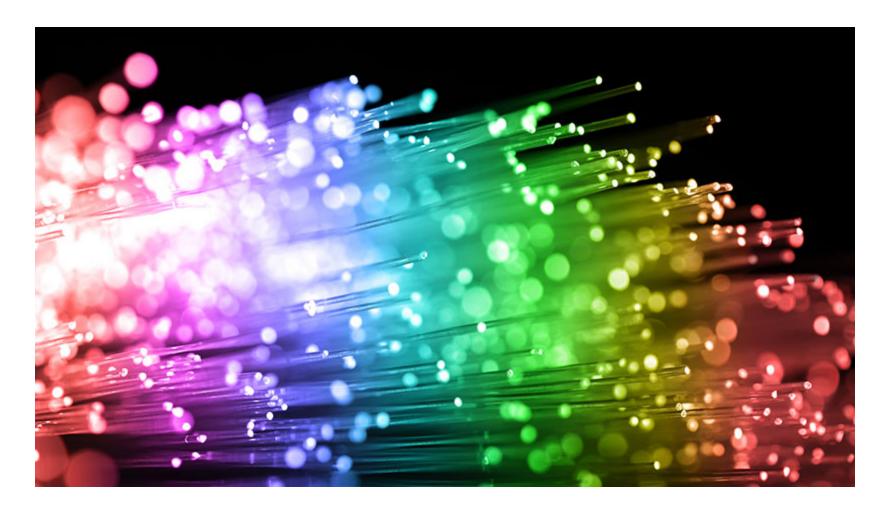














Targets

- Increase use of digital information and controls technology to improve reliability, security, and efficiency.
- Dynamic optimization of grid operations and resources, including automatic generation control
- Development and incorporation of demand response, demand-side resources, and energy-efficiency resources
- Deployment of `smart' technologies (real-time, automated, interactive technologies that optimize the physical operation of appliances and consumer devices) for metering, communications concerning grid operations and status, and distribution automation
- FTTH/FTTB
- Integration of `smart' appliances and consumer devices



The Internet of (Things) Everything

Turning Big Data into BIG Opportunity

INTERNET OF THINGS

connection of physical devices to the Internet

INTERNET OF EVERYTHING

connected devices that autonomously act based on real-time data



Thank you / Σας ευχαριστώ.