

# PLANIRAJ I KOMBINIRAJ!

Edukacija o novim  
konceptima  
prostorno - prometnog  
urbanog planiranja

**13. - 14. prosinac 2018.**

HKD Napredak  
(Bogovićeve 1/I. kat, Zagreb)



## Sustainable Urban Mobility Planning (SUMP): high on the political agenda



### In Europe

- 2009: Action Plan on Urban Mobility
- 2010: European Council of Ministers supports SUMP
- 2011: Transport White Paper
- 2013: Urban Mobility Package



### What is the full cost of this commute?

King George Skytrain Station

#### HOW MUCH DOES THIS 5KM COMMUTE COST SOCIETY IF YOU...

##### DRIVE

You contribute charges/taxes. Society pays for emissions, the infrastructure you drive on, noise pollution, congestion and the risk of an accident.

driving costs society **\$2.78**

##### BUS

You contribute fares. Society pays for emissions, infrastructure, operation costs, noise pollution, congestion and the risk of an accident.

bussing costs society **\$0.38**

##### WALK

You contribute savings to the healthcare system and improved productivity from exercise. Society pays for the risk of pedestrian accidents.

walking saves society **\$1.08**

##### BIKE

You contribute taxes on bicycle gear and maintenance, savings to healthcare system, improved productivity from exercise. Society pays for risk of bike accidents.

biking saves society **\$0.75**

#### HOW MUCH DOES THIS 5KM COMMUTE COST YOU IF YOU...

##### DRIVE

You pay for travel time, operating costs (fuel, maintenance, tires, insurance, license and registration, depreciation, financing), your risk of an accident.

driving costs you **\$6.47**

##### BUS

You pay for wait time, travel time, fares, your risk of an accident.

bussing costs you **\$8.00**

##### BIKE

You pay for travel time, operating costs (bike gear, maintenance), your risk of an accident. You gain health and longer life expectancy from exercise.

biking costs you **\$3.70**

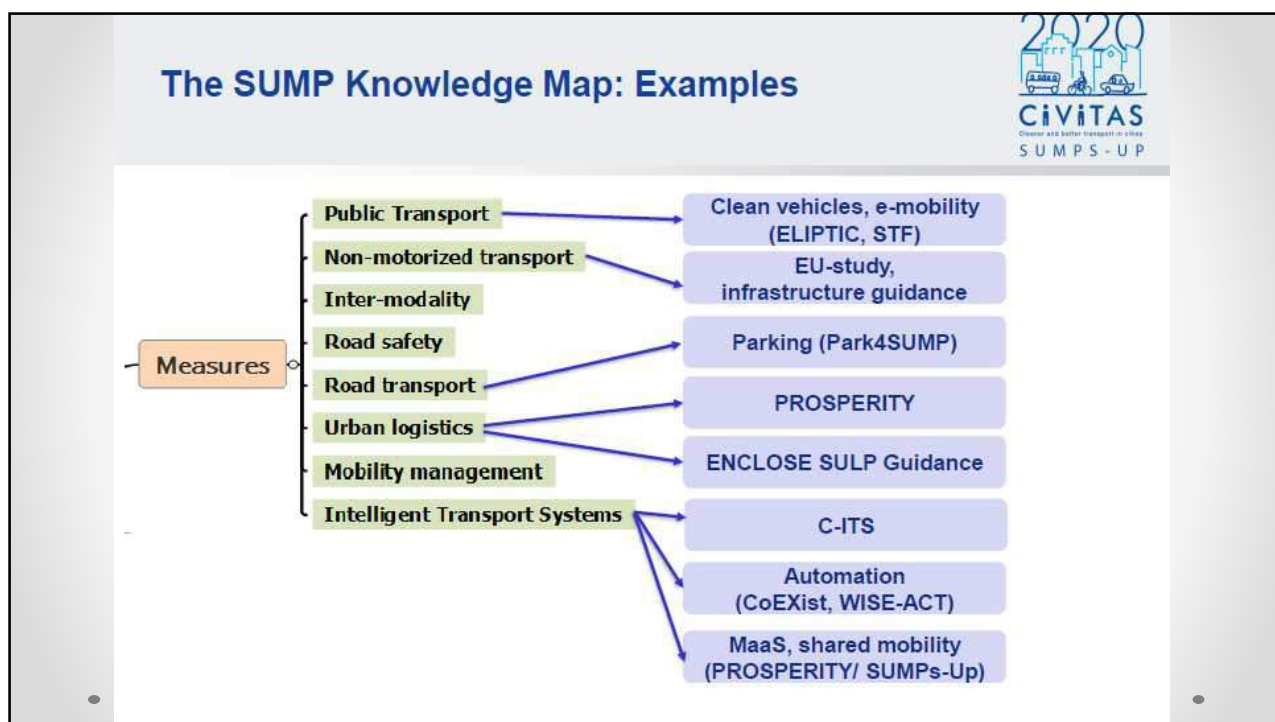
##### WALK

You pay for travel time, your risk of an accident. You gain health and longer life expectancy from exercise.

walking costs you **\$7.93**

Fraser Hwy & 158 Street

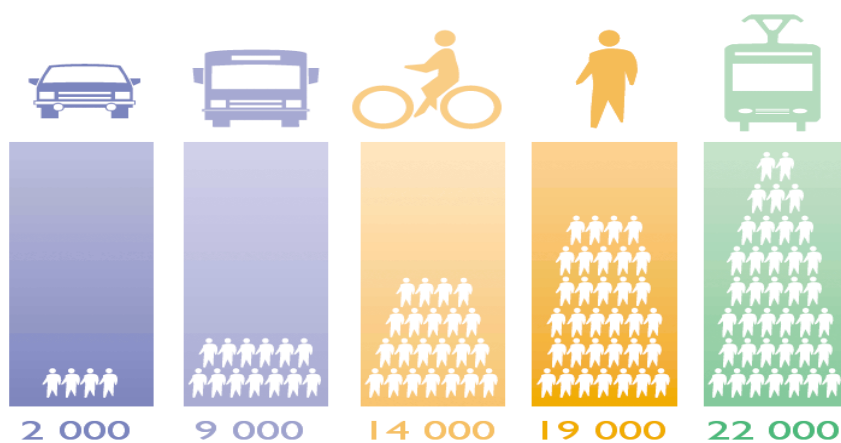
Financijska komponenta



Infrastruktura = cilj	Infrastruktura = alat
Projektno planiranje	Strateško planiranje
Planiranje bez uključivanja javnosti	Transparentnost/participativnost
Protočnost	Dostupnost/Kvaliteta života
Gradovi za automobile	Gradovi za ljude
Politika	Struka
Zadovoljavanje prometne potrebe	Upravljanje prometom
Prometni stručnjaci	Interdisciplinarnost
Prometni projekti	Strateški ciljevi



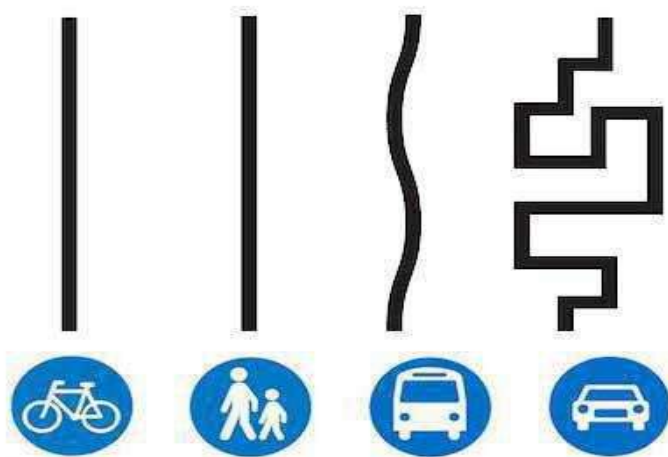
## Desired lines concept



Iskoristivost  
gradskog  
prostora za razna  
prijevozna  
sredstva

Broj ljudi koji mogu proći prostorom širokim 3,5 m u urbanom okruženju u sat vremena

## Ljubljana



A gdje smo mi?







## Kvaliteta života – urbana mobilnost

"A developed country is not a place where the poor have cars. It's where the rich use public transportation."

Gustavo Petro, Mayor of Bogota

"If you plan cities for cars and traffic, you get cars and traffic. If you plan for people and places, you get people and places."

Fred Kent – streets for people

# Stage 4 and technology



"Post-modal"



"Journey-rational"



Resource-efficient



## Integrated planning Sustainable Urban Mobility Planning in CIVITAS cities

### CiVITAS Facts & Figures



<b>MALMO (SE)</b> CIVITAS II	TIME HORIZON <b>2030</b>	REDUCE CAR SHARE FROM 41% TO <b>30%</b>	REDUCE COMMUTING BY CAR FROM 67% TO <b>50%</b>
<b>TOULOUSE (FR)</b> CIVITAS II	AIMS OF THE <b>BIKE PLAN</b>	KM OF NEW BIKE LANES <b>140</b>	EXPECTED USE OF BIKES <b>FROM 4% TO 10%</b>
<b>LILLE (FR)</b> CIVITAS I	MODAL SHARE TARGETS	CARS: FROM 56% TO <b>35%</b>	PEDESTRIAN: FROM 31% TO <b>35%</b>
		PT: FROM 10% TO <b>20%</b>	BIKE: FROM 2% TO <b>10%</b>
<b>BRISTOL (UK)</b> CIVITAS I	FOCUS ON ROAD <b>SAFETY</b>	PEOPLE KILLED AND SERIOUSLY INJURED (TARGET) <b>-30%</b>	





# Ljubljana

Star pristop



Nov pristop

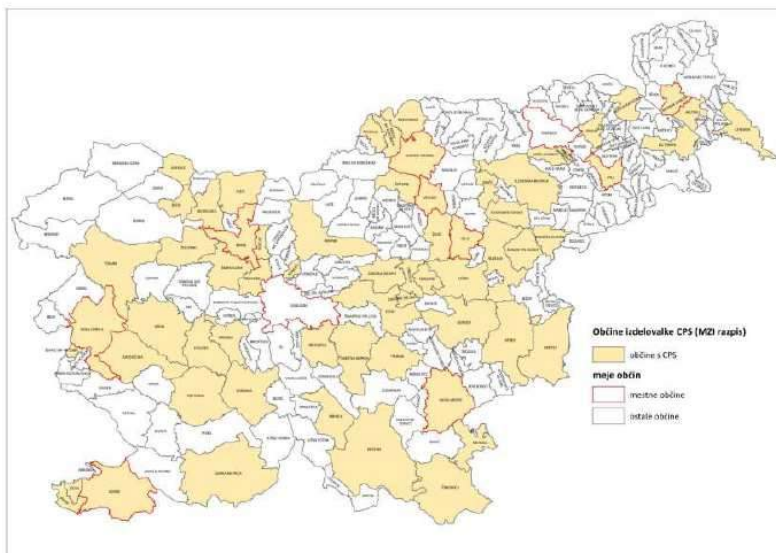




# Slovenija - SUMP

POUM u Sloveniji

**TM** SLOVENSKA  
PLATFORMA  
ZA TRAJNOSTNO  
MOBILNOST



## Copenhagen

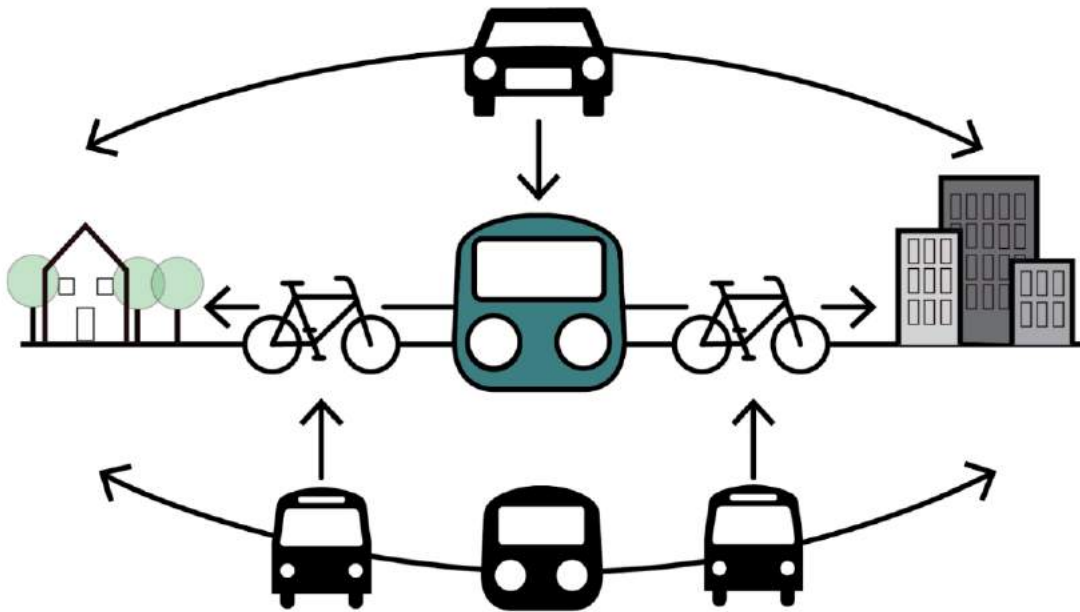
The City of Cyclists



How citizens of Copenhagen get to work or education each day

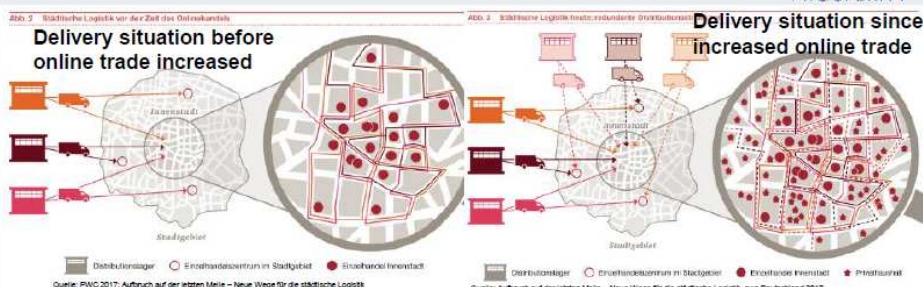
Source: City of Copenhagen. 2016

# Intermodalnost

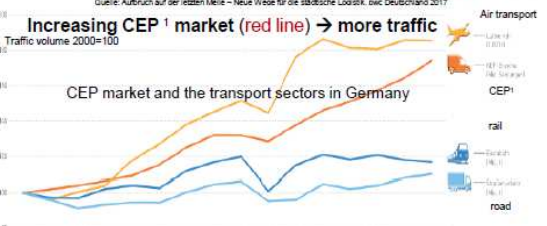


## Prijevoz robe u vremenu online

### Increase of delivery based on online trade



- Increasing number of delivery services**
- More CEP<sup>1</sup> companies
  - Cargo bike couriers
  - Private take away/on-demand delivery ([Postmates](#), [Uber freight](#),...)
  - .....
- More and faster deliveries**
- Amazon Prime Now 2h





# Zone 30 – traffic calming



## Area 30 Pilot scheme in the city centre.



The increase in the number of cyclists on sidewalks and pedestrian areas has led to conflicts with pedestrians, so has been designed a traffic calming campaign in 47 streets of downtown with 3 objectives

- Improving road safety for pedestrian and cyclists
- Reduce emissions of pollutants
- Reclaim the space for pedestrians



The measure does not end here but extends to all city.

# Big data, Internet of things



Arrogance of Space - Copenhagen. A Section of Hans Christian Andersen Boulevard

Motorist vehicles Bikes Pedestrians Road Space Bus Non-transport space Data Logging Train



## Car- sharing, bike- sharing, AirBnB, autonomna vozila

### Conspicuous by its absence



Create 

### Teme za radionicu

1. Uređenje užeg centra grada – Donji Grad
2. Vizije Zagreba 2030 (SUMP promet i prostor)
3. Zagreb za mene – 4-5 lokacija
4. Dizajn kvarta – model



Hvala!

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