

Bike Sharing and eScooter Sharing Systems

#micromobility



City Mobility Challenges

authorities struggling to provide sustainable eco-friendly solutions to satisfy various needs of their citizens



Growing CO2 emissions and pollution



Lack of last mile mobility options



Need for new sustainable solutions

Dockless NonSolutions



Littered Public Space

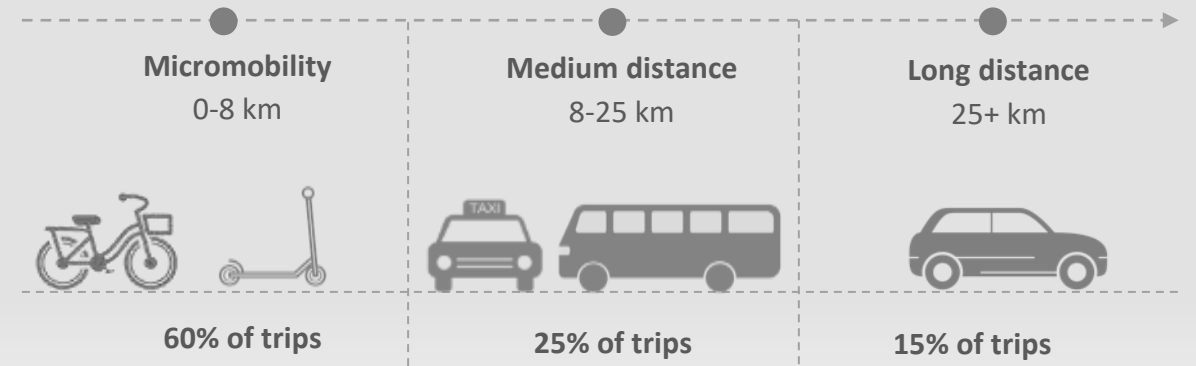
Chaotic Operations

Poor relationship with cities




SUSTAINABLE Micromobility

Completing the transportation mix



Station based or hybrid bikes, e-bikes and e-scooter sharing systems
as a well proven last mile solution across Europe



Best Practice Example #1

Courtesy of Mr Peter Žnidaršič
Micromobility Manager, Nomago bikes

#bikesharing

Areas of developing the future of mobility

a greener approach to transportation

PUBLIC TRANSPORT



SMART CITY



SUSTAINABLE MOBILITY



SLOVENIA GREEN





REGISTRATION

Fast & Easy
Multi-Platform access



PAYMENT

Card Payment via Mobile
app, web page and Info point



RENT

User friendly
rental process



RETURN

Flexible return
at the station

The components of bike sharing today



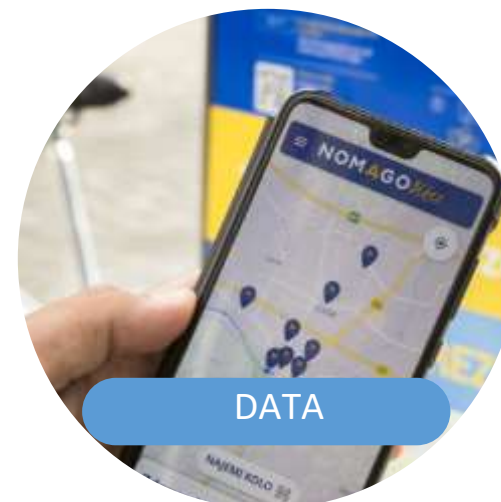
INTEGRATION

International References
& Easy **Integration**



SUPPORT

24/7 Maintenance, Customer
support and Administration



DATA

Real-time system **data**



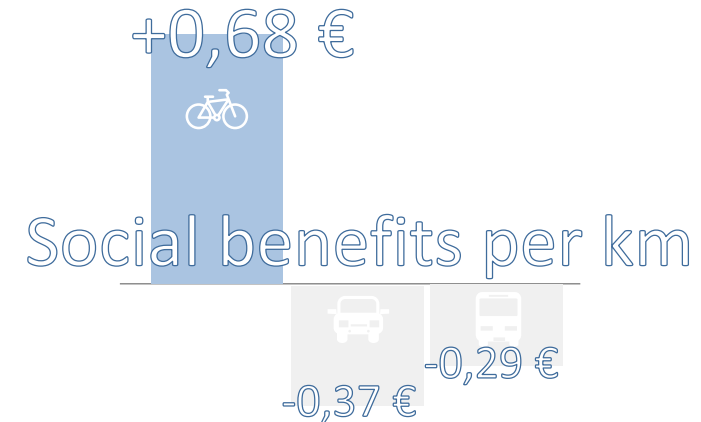
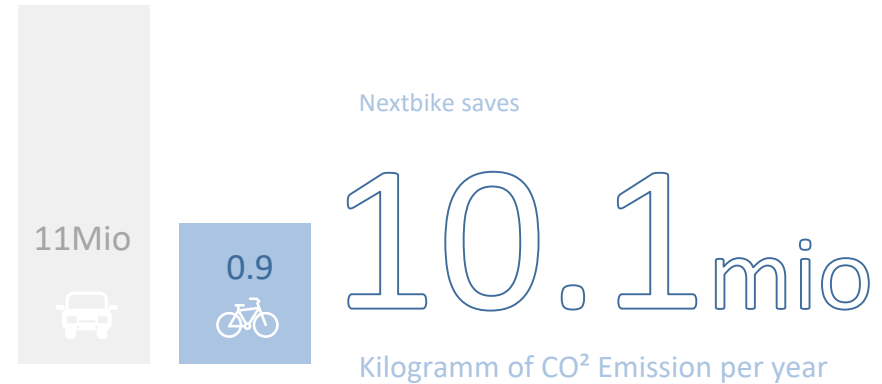
Nomago Bikes powered by nextbike



1 registration – 1 UX in 300 cities, 28 countries

10 Years
Possible lifetime

Sustainable
Service
Partly with e-transporters and cargo bikes



2.2 Mrd.
Burnt calories in 1 year (100 Kcal per Trip)

44 mio.
Km driven on nextbikes per year



NOMAGO Bikes
powered by nextbike

nomago.si

NOMAGO

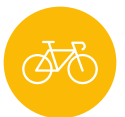
Micromobility

Nomago Bikes powered by nextbike

- 🚲 **Complete and integrated Micromobility offer in Slovenia**
System of Electric and Regular bicycles build to share
- 🚲 **Flexible & Innovative platform**
Multi-language app and web for registration, rental and reservation
- 🚲 **Smart & Hybrid system**
Smart bikes with GPS locating, zone geofencing and virtual stations
- 📢 **2021 - Bike-sharing system in 12 cities around Slovenia with more than 450 bikes and 85 stations.**



Regional bike sharing



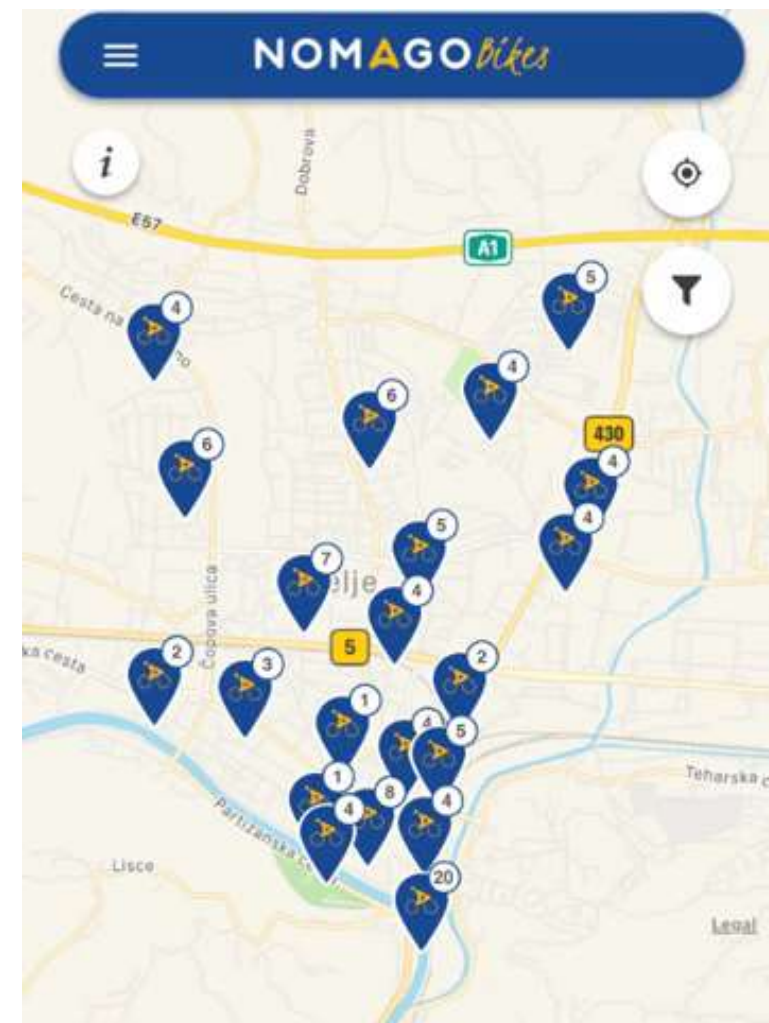
KolesCE bike sharing

- 8 municipalities in Savinjska region
- 1 registration – same pricelist, same UX
- 68 stations, 337 bikes: 52% electric – 48% classic
- 75 thousand km driven per year
- Daily trips between cities in the morning & afternoon
- 90% rentals via mobile app



Average rental

- 15 min
- 1,5 km



Smart bike

Height-adjustable ergonomic saddle for persons of 1,50-2,0 m; with theft protection

FrameLock

- Enables parking feature in the app
- Anti theft alarm
- Precise localisation via Wi-Fi, GPS, GLONASS or BEIDOU
- Average 40 day battery life
- Rechargeable via solar basket

RFID reader for smart card integration

Front and rear light with built-in reflector and parking light

Shimano Nexus Hub

Basket with solar module for charging the FrameLock

Covered wiring reduces vandalism

Air tires with puncture protection and reflectors

ISO 4210 CERTIFICATION

E-Smart bike



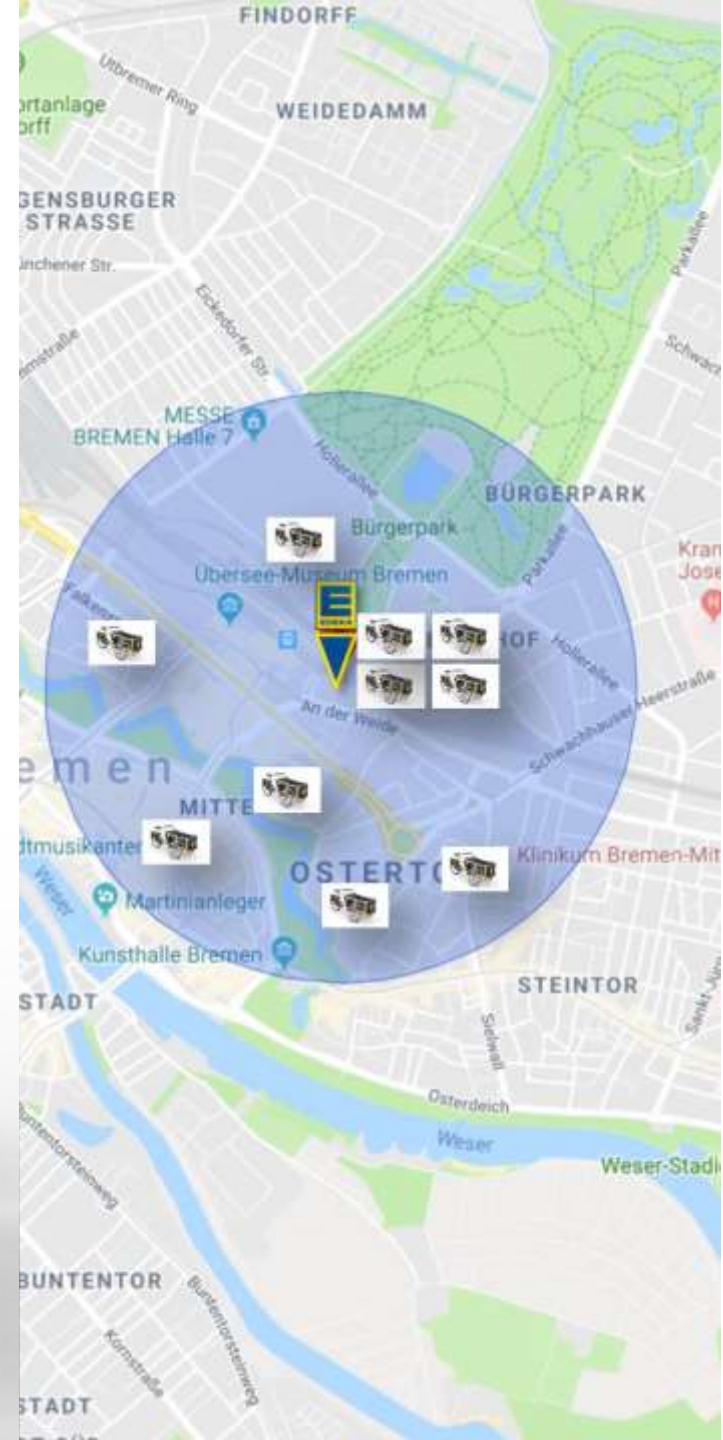
Lithium ion battery

- Designed for durability
- Encapsulated into the downtube
- Capacity of 14 Ah, 500 Wh, 36 V
- Charge level display integrated in the frame

Engine

- Natural driving experience due to mid-mounted engine
- Made in Germany
- Supports up to 25 km/h
- Stepless boost feature for fast acceleration

Cargo & E-Cargo bike



Station with terminal

For electric & classic bikes

Multimedia Kiosk with charging infrastructure

- 7 inch touch screen with interactive map
- Customer channel for registration, rental and return
- Smart Card reader
- Large surface for additional information or advertisement



Docks & Sign station

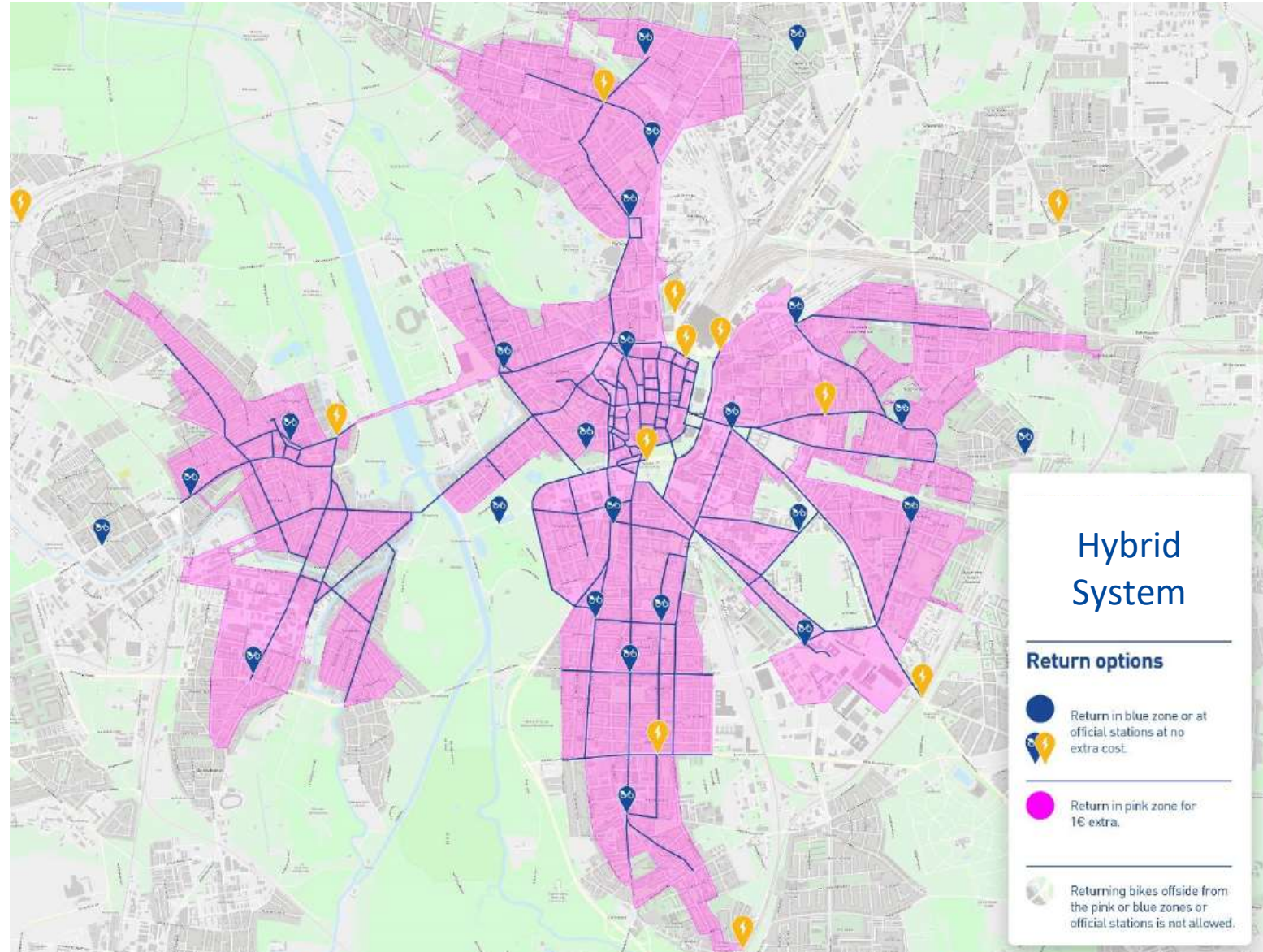
Flexible, prominent, easy to install

- No cabling, grid connection or wireless signal
- Cost-efficient
- Operations security
- Best user experience
- Different variations



Hybrid system

- **Dockless system with designated stations with docks & Charging stations**
- **Virtual stations** with infrastructure - Corral type
- Integration into seamless **network** – guiding the users with different pricing
- **Micromobility stations** at Mobility Hubs
- Involvement of the community
- Collaboration with the City and private land owners



Mobile app

Key benefits of the NextBike mobile app

Overview of real time availability
of bicycles and docks at the
stations



Rental history along with distance
travelled and CO2 savings



Comments on the rental and
provide **feedback**



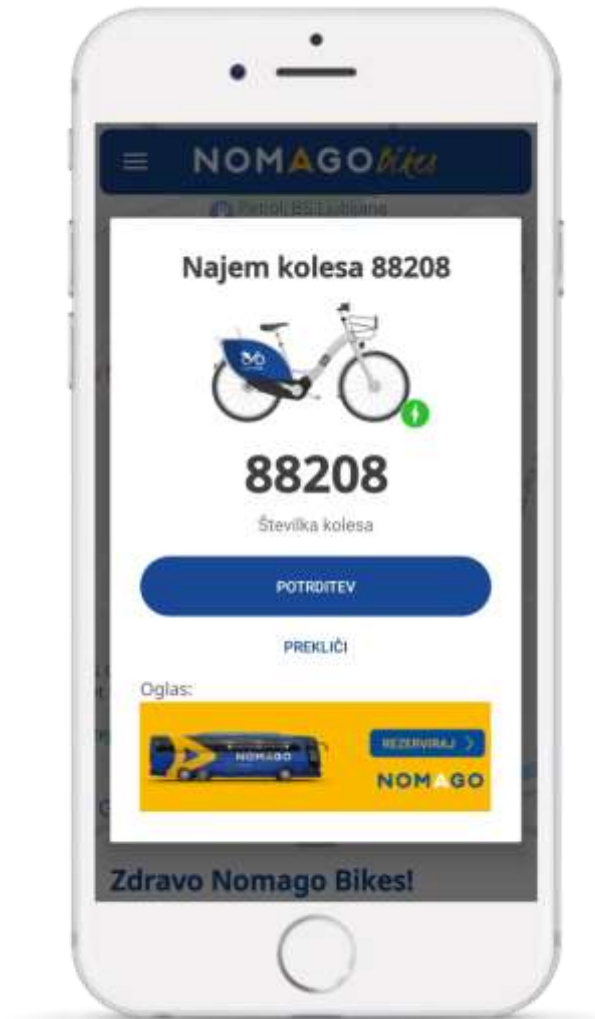
Registration, user account
settings and rental history



Easy bike rental process via bike
number or QR code in less than
3 seconds



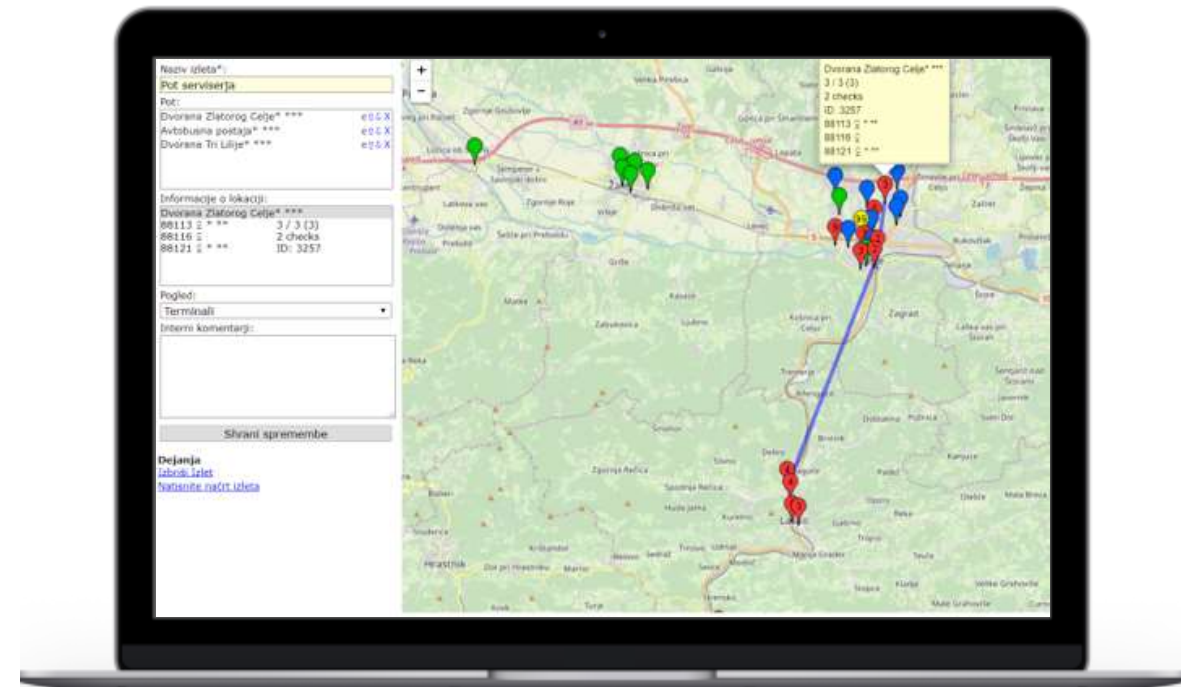
It works in **Slovenian, English,**
Croatian, Italian and more than
10 foreign languages



System Administration

Backend office

- ✔ **Cloud based system, multi-user access**
- ✔ Comprehensive overview of the database (users, rentals, bicycles, stations) on visual **Dashboard**
- ✔ **In-depth analysis** (access to detailed analytics with more than 50 data categories, daily / monthly report interval, number of registrations, leases, returns, new and regular customers, average rental duration, movement reports, servicing, bicycle inspections, rental amounts, payments with credit cards and cash)
- ✔ Provides support for customer relationship management (**CRM**) and content management (**CMS**)
- ✔ **System control via backend 24/7**; monitoring the movement of wheels and the operation of stations and the condition of batteries on wheels, etc.
- ✔ **24/7 call center** available via phone, e-mail and app support, with access to the functions of the back-end system for quick help to users
- ✔ **Compliance with all necessary legislation!**



System integration

Worldwide references



System integration via already developed input and output API connection – RFID/NFC cards

- Public Transport
- Smart city services
- Hotel and destination cards
- Workplace contactless cards

Support for employers in promoting a healthy mode of transport to work and after work

Numerous references from more than 200 cities from 30 countries around the world (EU, USA, NZ, India):

- Cologne - integration with KVB (public transport)
- Stuttgart - integration with a smart public transport card
- Budapest - integration with BKK (public transport)
- More than 20 cities in Croatia and Bosnia and Herzegovina

Mobility hub – space for integrated public and shared mobility

- different and connected transport modes
- facilities and information features to attract and benefit the traveller
- areas providing services to connect people through sustainable travel

Components:

- **Public transportation:** bus, rail, on-demand ride sharing
- **Shared Mobility:** bike share, cargo bike share, car share, scooter share
- **Mobility related:** digital pillar, journey planning service, registration and ticketing, customer services, electric car charging, bike parking and charging, last-mile delivery
- **Non-Mobility:** Package delivery, cafe shops, waiting area, Wi-Fi, phone charging




nextbike 

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grad





Best Practice Example #2

#eScootersharing



The World's first docked eScooter sharing platform



150x

LOWER
CHARGING
COSTS

3x

LESS
MANPOWER
REQUIRED

0

SCOOTERS
LITTERING
SIDEWALKS





50 TONS
LESS ANNUAL CO2 EMISSIONS



Performance

100+

STATIONS

600+

DOCKS

500+

SCOOTERS

100,000+
USERS



Meet the USERS



Dash - Docked Scooter Micromobility

Electric scooters at docking stations

Always charged, available and keeping the streets clean 24/7



Mobile App

Simple registration, credit card payment, rental and return of the scooters at the docks or dedicated geofenced virtual stations

Customer Support

Available 24/7 via App, email or phone



Local Service Staff

Always on standby to help and repair



Working Together



Investment to support the city

- ✓ Electric scooters
- ✓ Charging stations
- ✓ Implementation
- ✓ Operations
- ✓ Customer service
- ✓ Data sharing
- ✓ Promotion of sustainable mobility



The City needs to provide


- ✓ A little space for the stations to get more space for everyone

1 car parking = 3 escooter stations!





 www.nextbike.me www.dash.city

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#citymobility #dashcity #nextbike

