

E-Bike Sharing Hungary Kft.
Since 2005

Plan

Installation

Operation



ELECTRIC BICYCLE-SHARING SYSTEM concept



- Alternative solutions to complement public transportation
- Self-service
- Short-term
- One-way trips
- eBike rental in public places
- For several target groups
- With net-work characteristics (300-500m)



eBSH electric bicycle sharing system advanteges

- Environmental Impact Reduction
- Additional mobility option
- Smart pedelec power-assist electric bike
- Time and cost saving
- Social benefits
- For all target groups
- Health benefits
- Employment opportunities
- 24/7 availability
- Advertising opportunities
- Increase attractiveness for tourist





How to rent an e-bike?

1. Registration/Payment



- Scan QR code
- Download Masterbike Application (IOS & Android)
- Sign up in 2 minutes
- Create your account

2. Grab an e-bike



- Scan QR code on the ebike and ready to go
- RFID card soulution for members

3. Usage



- Riding the ebike
- Pick up anywhere
- Drop off anywhere



E-Bike Sharing Hungary Kft.



Projects



Urban e-Mobility



Corporate "Go to work" e-Mobility



Campus Program



Tourism Project

Urban Mobility

- Smart cities concept
- Intermodality
- Integration:
 - suburbs
 - villages
 - sights
 - attractions
 - banks





City transportation "SMART City" concept- city card

Electric Bike Sharing perfectly fits into the "Smart City" concept, as a solution of multi-modal transport management. eBike sharing works with the usage of RFID card. This card can be function as a City Card also. With the usage of only one card you can enjoy many services!





Overview of the world's bike sharing





- Miami
- 2000 bike
- 160 station





Paris 20.000 bike 1300 station



E-Bike Sharing Reference work: Cross Bike







Production



~ (A)

Development

- Alternative energy (solar energy)
- GPS tracking
- •Flexibility > Docking station
 - High flexibility: easy to install, remove, individual units
- Intermodality > Smart solutions
 - Software engineering > closer to other public transport services
- **Integration** > Interoperability
- Durability: Energy management
 - Batteries, smarter/smaller electromotors, shaft-drive, replace the gears/derailleur
- Control: Dispach room, tracking







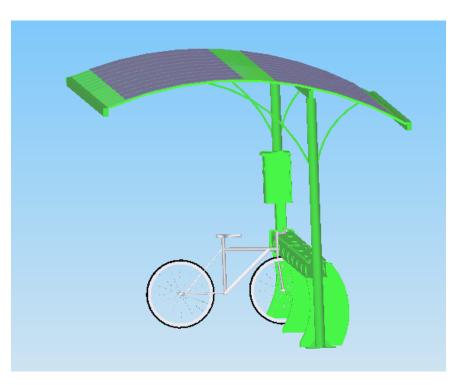
Alternative energy (solar energy)

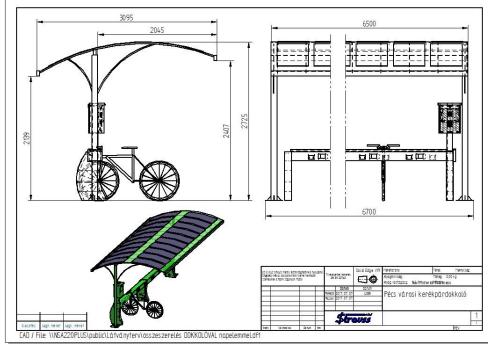


- renewable and free energy
- more beautiful and livable city
- environment-friendly solutions
 - 100% green city program
- the electric bike's batteries can be charged by solar energy



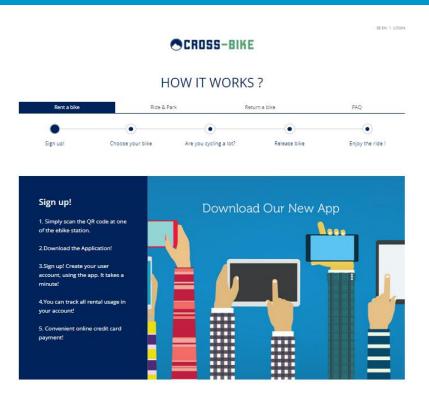
Electric bike sharing with solar panel shelter







Touch screen terminal



Fast and easy way to rent a e-bike

- Touch screen
- Turistical map reading
- Online registration and payment
- Payment by smart phone





Advantage of the Touch screen terminal

To our prospective partners

Map visualization and reading:

- turistical destination can be idicated (natural, historical)
- Partner Points indication with description (services) Pl.: hotels, restaurants
- Alternative roads (built and designated routes) existing bicycle routes



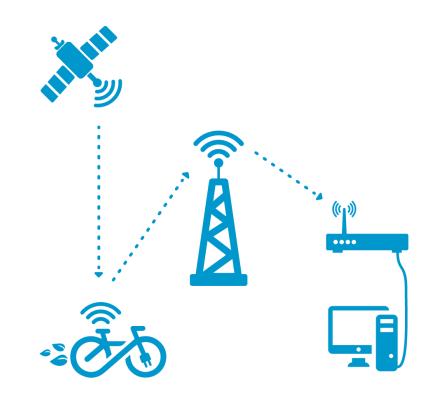
Surface of Information

- Advertising
- Reviews
- showing actual nearby events



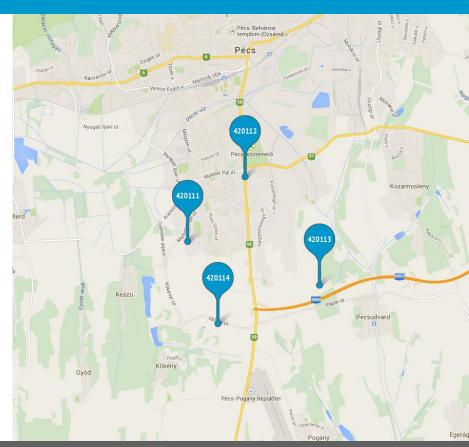
GPS tracking

- Sends the e-bike's position periodically
- Heartbeat function in every 30 seconds
 - safety service, detects the device's problems and malfunctions
- Current location could be requested via Text message as well
- Notification of the battery's disconnection
- Very sensitive antenna (-164 dBW)
- Continuous uninterrupted operation from the e-bike's battery
 - It runs on the same voltage as the e-bike



GPS tracking

- Unique GeoFence
 - polygon style, any shape
 - warning area before leaving the border
- Overview page
 - real time tracking of the e-bike's last position
- User friendly interface
 - It was designed for bike rental systems
- Logging, traceable paths
- Easy download for the data





INSTALLATION



- Careful planning (consultation with road engineers)
- Installation is in public places
- Electrical power
- Internet connection (wired connection is recommended)
- Mobil stations



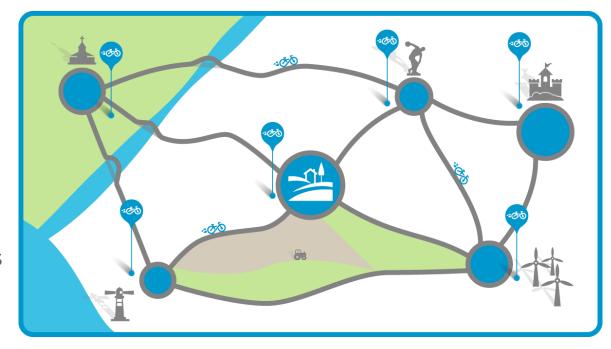
Docking Station

- Easy to install
- Flexible
- Maintenance free
- Vandal-proof
- Well designed
- Rock solid



Tourism Project

- Flexibility
- Discover
- Healthy lifestyle
- Integration:
 - EuroVelo network
 - Linking smaller areas
- Intermodality



Tourism Project

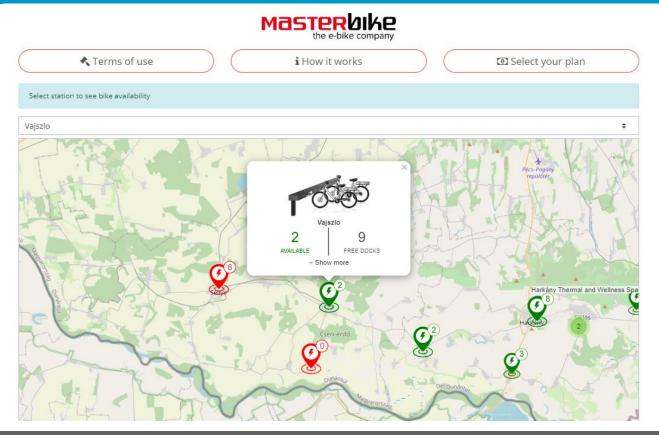


Ős-Dráva project

- 11 stations
- 110 docks, 70 ebikes
- https://www.facebook.com/masterbikeb aranya



Tourism Project - Ős- Dráva stations





Tourism Project - Stations: Sellye, Vejti





Tourism Project - Reference - Ős- Dráva



Electric custom made Bicycle

- Pedelec e-bike EN15194 EU standard
- Easy to use
- High comfort
- Durability
- Cost efficient maintenance
- Puncture- proof tires
- Telescopic front fork
- Automatic lock and charging
- Front & rear V-break
- GPS tracking (option)
- 250-300W motor
- Battery 36V / 13.5Ah
- 26"-28"





26" Electric bike









Electric Scooter Sharing System

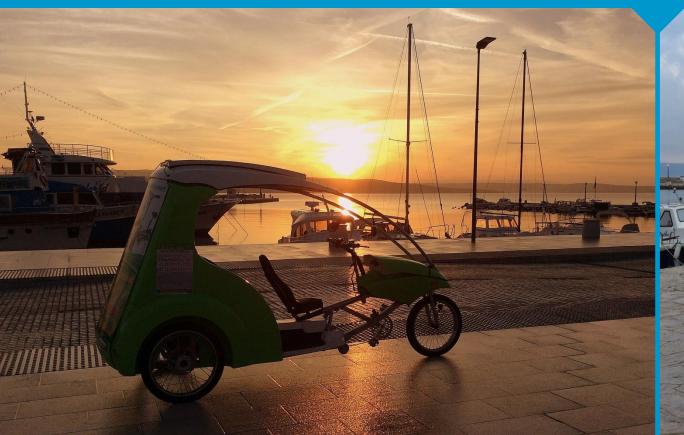
- Travel seated and standing postition as well
- DC electric motor in 36 V system
- max 40 kms / full charge
- Automatic charging at the station
- Top speed: 25 km / h
- Spring suspension



Green City eCab



Reference





Possible cooperations, connections



Business solutions

The planning process includes:

- feasibility study
- demand modeling
- business plan
- desgin & licensing of the stations

The business plan includes:

- capital and operating costs
- calculation of return
- investment, sales and marketing strategies

We help to uncover:

- every possible source of income
- rental fees
- advertising options
- public or private investors, tender offers



Thank you for your attention!



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www.masterbike.hu Reference work:



