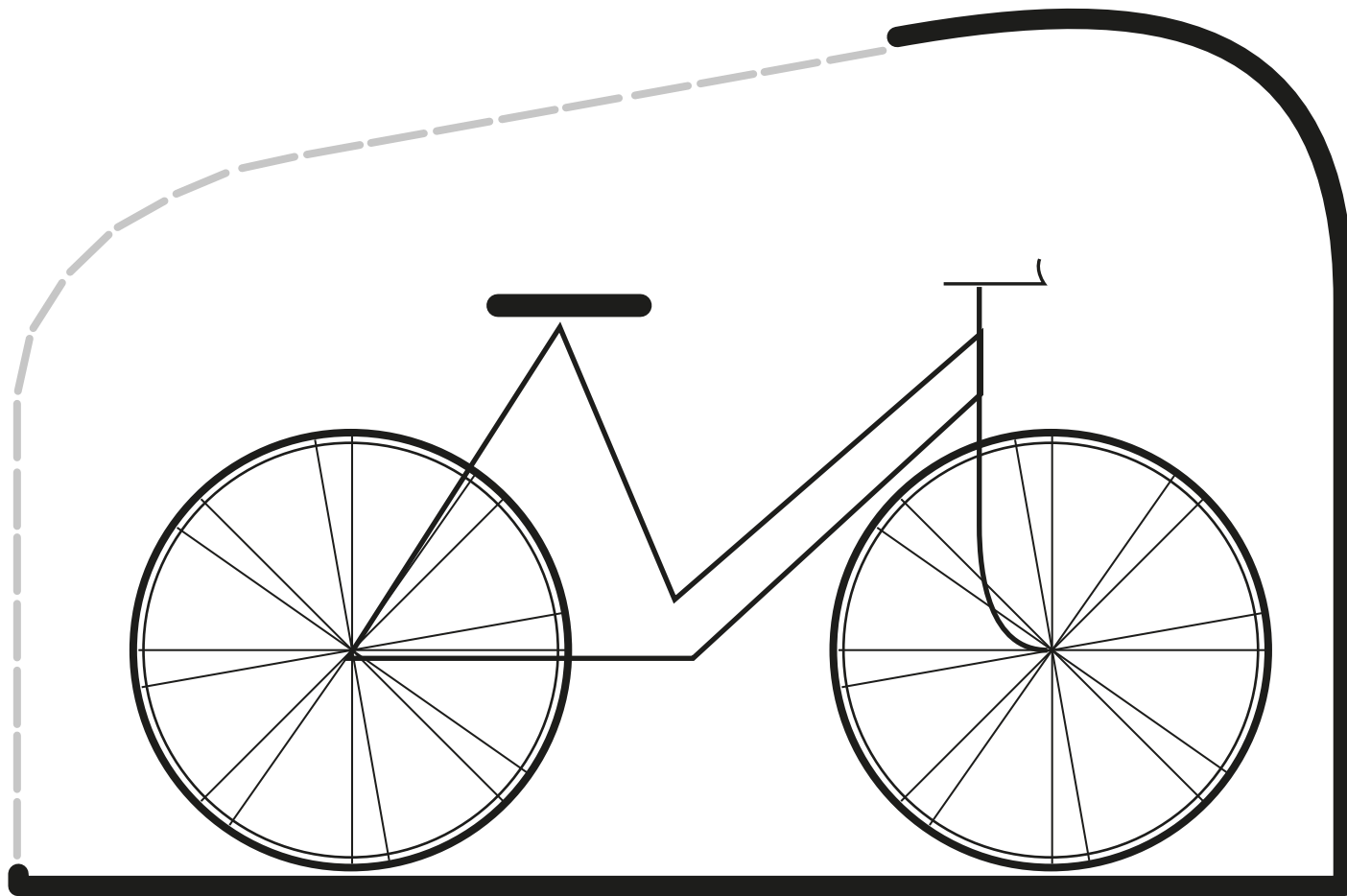
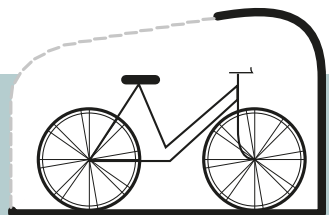


Bike Park



KATJA HENTTONEN — ELISA HARTIKKA



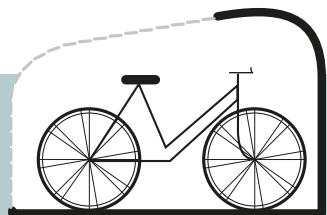
Idea

BikePark is a service for sharing park lot for bike lockers. Holder of a park lot rents a lot to service provider (public transportation company), who places a bike locker module on it, and rents it forward for users. User pays rent via digital service and uses lockers with public transportation travel card.

Parking lot holder can be city, real estate company, small shop, etc. Holder of a lot could have visibility as biking promoter, and also bike lockers for own use or own customers cheaper as other users.

Company could provide also lockers for it's employees or customers. Public transportation company could provide lockers for travel card owners. Also presentcards are available.



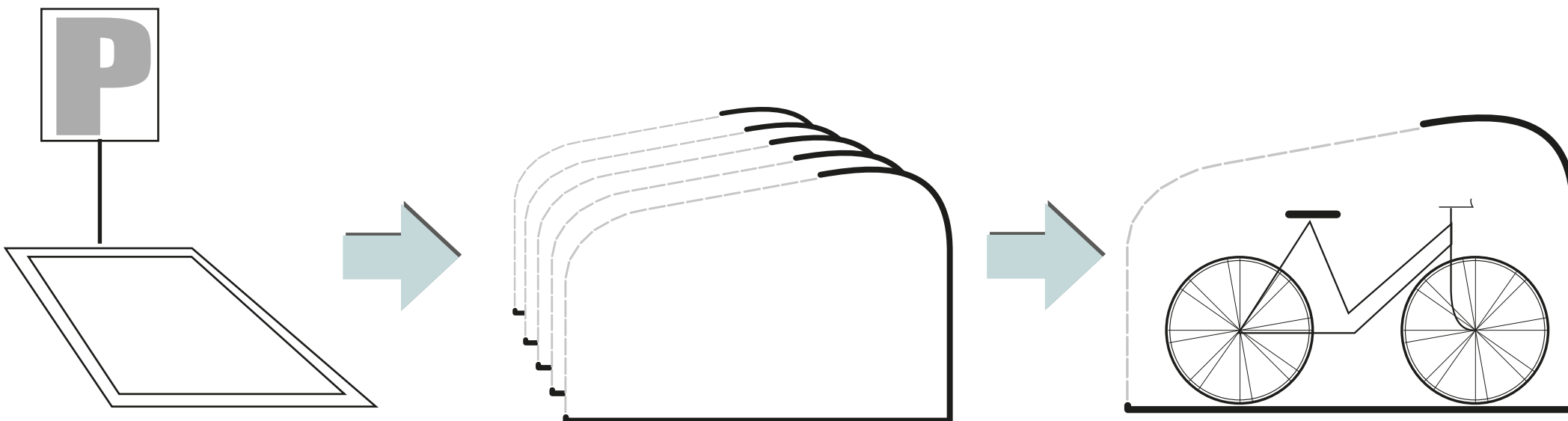


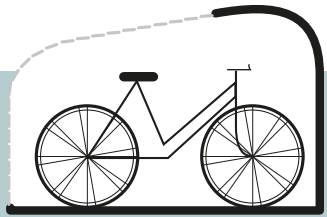
Usage

Parking lot holder has an empty lot. (S)he wants to share it for bike lockers.

Service provider rents the lot for lockers from the holder and places there a locker module.

User needs safe place to store a bike. (S)he rents a locker from a module.

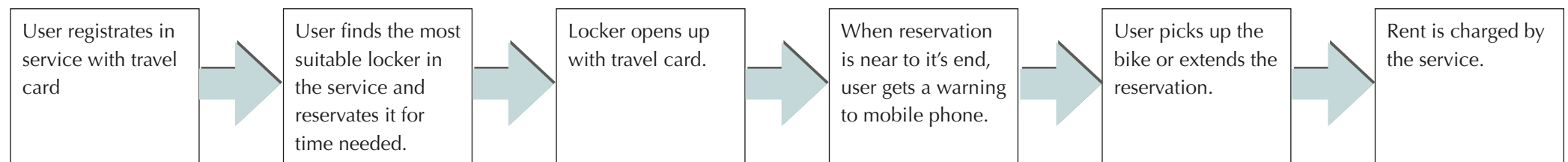


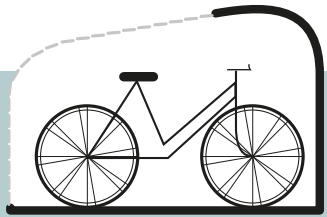


End user

Biker needs a safe storage for his/her bike. (S)he books a locker from the service. The app shows free lockers in neighbourhoods and their reservations on desired time. Locker works on travel card and requires a registration. Payments go through the service.

- Short- and long term storage, price depends on rental time (for ex. quarter-, hour-, day-, monthly price)
- If bike is not picked up, locker stays locked until another user makes an reservation of the locker. Then new user is allowed to take bike out from the locker.
- User can add another user on reservation, so another person can pick up the bike with his/her travel card.



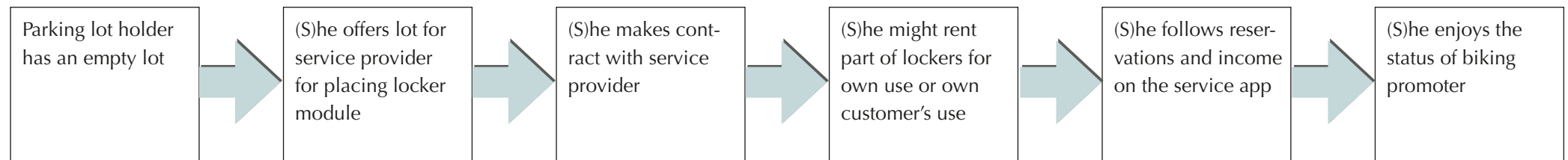


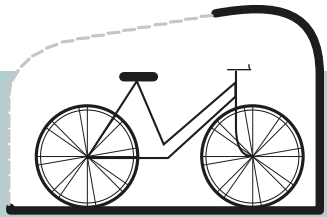
Parking lot holder

Holder has an empty parking lot. Holder can be a real estate company or for example small shop owner, who wants to rent a parking lot from the city* and share it for bike lockers. Therefore shop gets visibility as biking promoter and can use lockers for own needs or provide them for customers.

- Can reserve lockers for own use in half price from own lot's module
- Can provide free lockers for own customers
- Can provide free lockers for employees
- Gets visibility as biking promoter
- Gets income from otherwise unused parking lot

* Helsingin Sanomat newspaper 17.5.2016, Lari Malmberg: There is a possibility to rent a parking lot from City of Helsinki for own use.



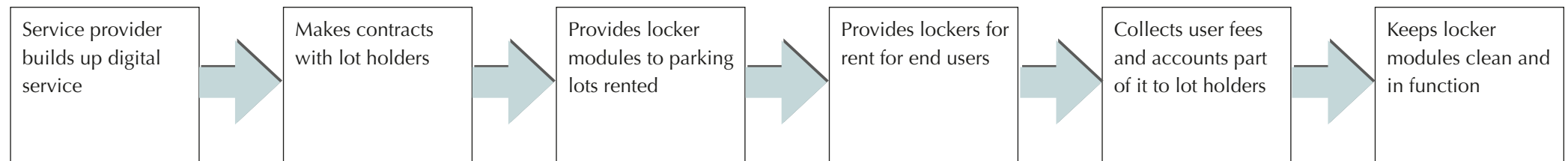


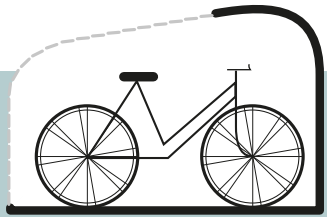
Service provider

Service provider, which can be public transportation company, city or other party, will rule over the system. It

- Makes contract with parking lot holders
- Develops and rules digital service
- Charges fees from users
- Accounts part of fees to lot holders
- Provides locker modules and maintains them

- Service provider is in charge of locker modules for all their life cycle.
- Service provider takes risk of utilization, so lot holder is not charged for sharing his/her lot.
- Service provider has a right to accept or reject offered parking lot for ex. lack of demand.
- Lot holder's own long-term reservation is calculated when estimating demand.





Digital service

Park share service holds web-service and mobile app.

- Long and short time reservations has different fees
Payments through service, possibility to load money in
- Possibility to reserve in advance
- Quick reserve on-spot
- Warning for end of rental time
- Possibility to extend reservation, if other reservations are not applied
- Map, where real-time reservations now and on desired time
- Possibility to give feedback of service and lockers' conditions
- Opening and locking of lockers with travel card and PIN-code

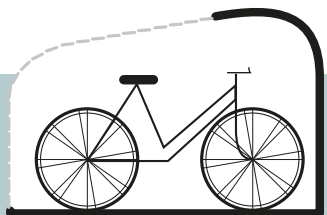
Own section in service for lot holders

- Tracking of reservations
- Tracking of income
- Control of contracts
- Feedback, for ex. service request

Service provider holds the service

- Collects data of reservations for placing new modules
- Collects feedback from users and lot holders
- Develops service





Module and lockers

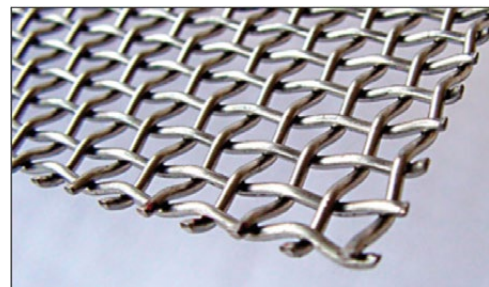
Service provider is responsible for locker modules. Size of a module is 5 x 2 m., which is a parking lot size. There is five lockers in one module and it is removable on a lorry.

Module has a steel construction and roller-shutters. Each locker is measured ~1 x 2 meters, and it opens to sidewalk. Walls have strong steel net in lower part; visibility prevents risks of misuse and provides ventilation. Net needs to be strong enough not to be cutted with small cutters. Small holes prevent taking/ putting small objects through net.

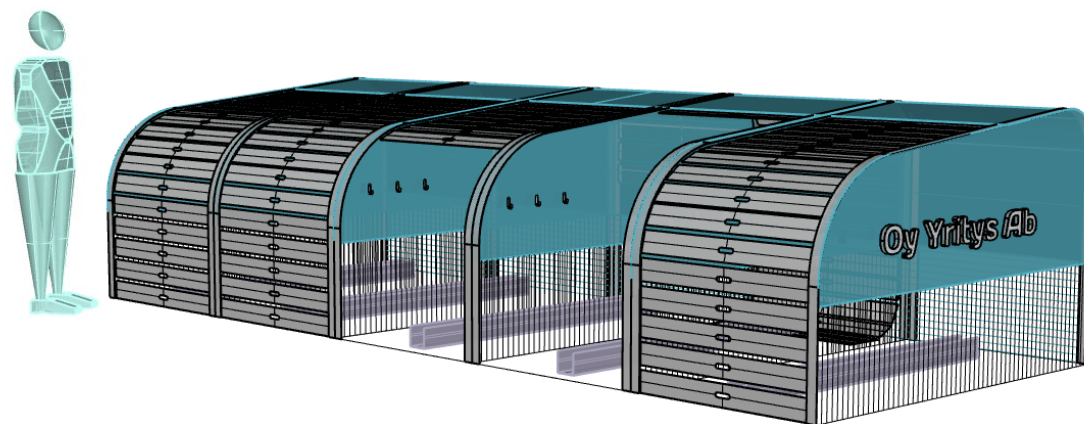
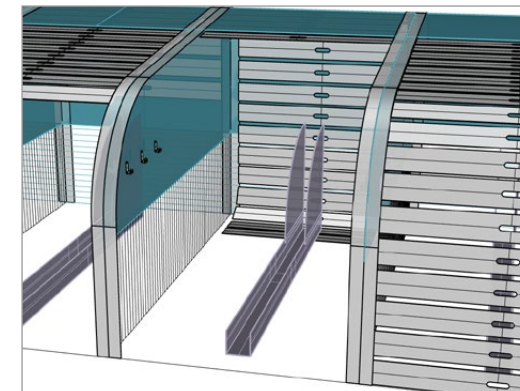
Upper part of walls are made of panel, covering locker from weather. It provides also space for lot holder's marketing message. Inside lockers there is a few hooks for a helmet and other small things to hold.

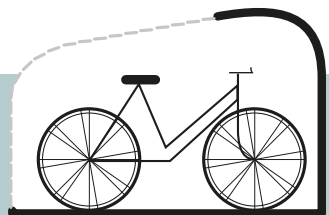
Height of the module is ~100 cm. in front end and ~120 cm. in back end. Sidewalk platform may lower front end. In bottom of locker there is a rail to help pushing bike in to the locker, and a holder to keep bike up.

Shutters open with travel card and reservations are taken in service. Touching a tag in locker's side opens up mobile app quickly to check reservations and to make one.



Wall material thick steel net (pic Spinea.fi)





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