From Vision to reality

development of a battery and public battery rechargers

LEV conference, Taipei 2008





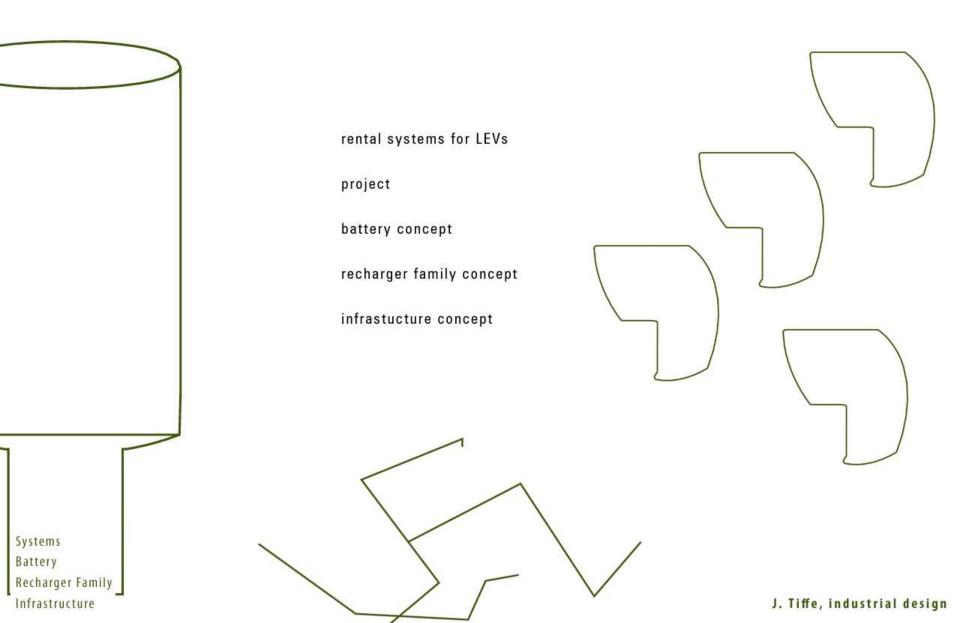
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- Product and Conceptional Design
- Modeling
- Model Making
- Product development
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Johanna Tiffe page industrial design

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trials on rental systems

prototypes

working with one battery typ

one for the pedelec "Racoon"

one with solar panels

high dependence on one bike

never introduced in the market



Introduction Battery Recharger Family Infrastructure



1. system:

implemented in an appartment in Tokyo

for residents only

identification throughout card

one pedelec type, simple

2. system:

implemented at railway stations

same style





dogging stations in four places in town

identification throughout card

targetgroup: tourists and citizens

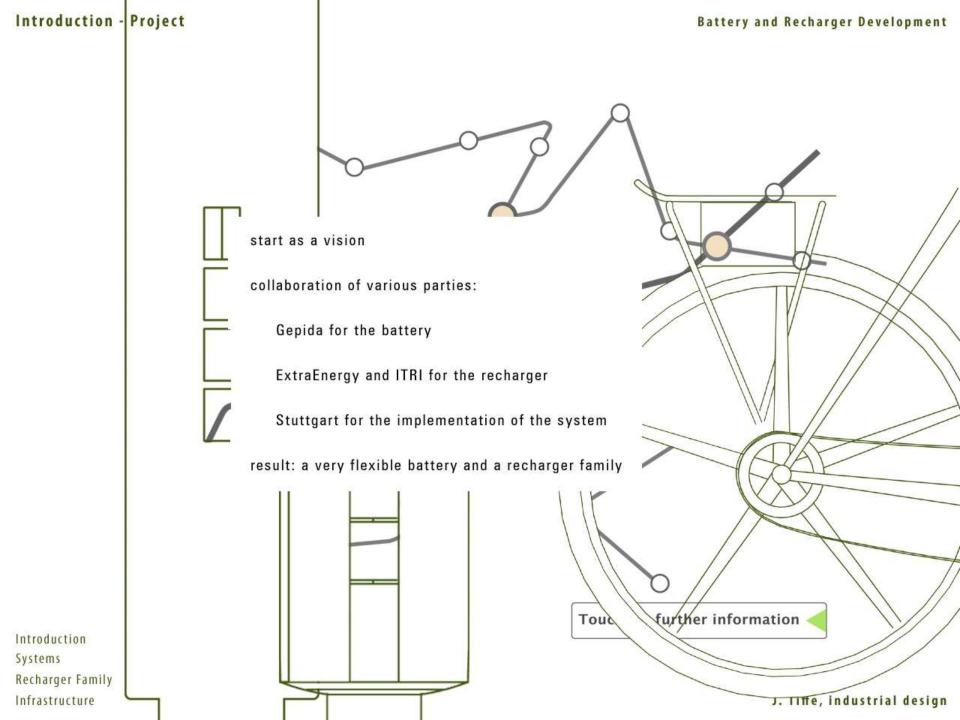
number of available bikes anounneed via internet

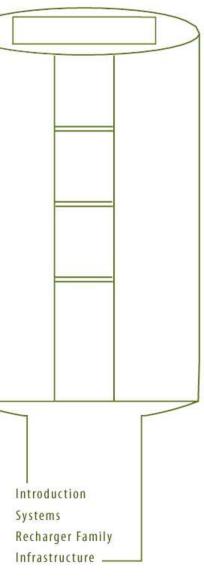
bikes: economical bikes from China

2.project: e-scooter rental



Introduction
Battery
Recharger Family
Infrastructure

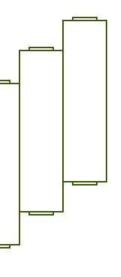




GERIDA from Hungary developes a flexible battery worldwide the first bike producer taking the challenge **GERIDA** is highly interested in EnergyBus

open for partners for further development





battery runs on 3Ah / 36V
integration of various cell types
special PCB-development for this battery

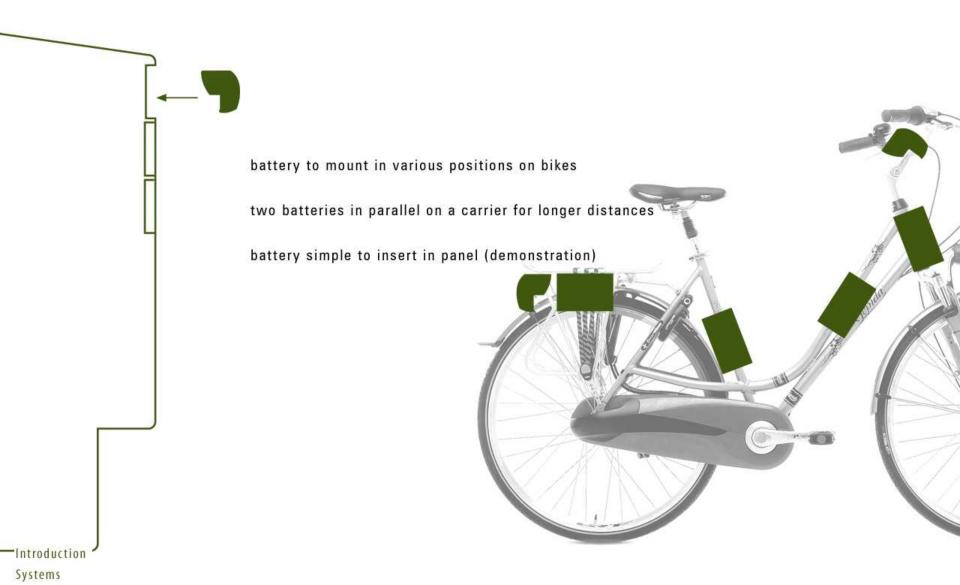
comfortable handling concept

patented

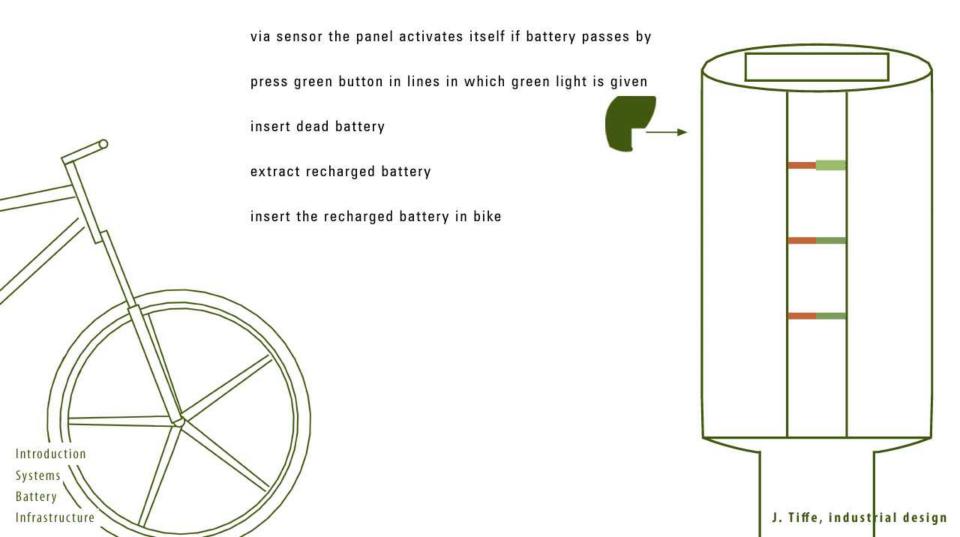


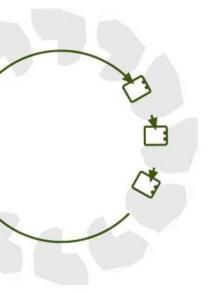


Introduction Systems Recharger Family Infrastructure



Recharger Family Infrastructure





ring of compartments with plugs

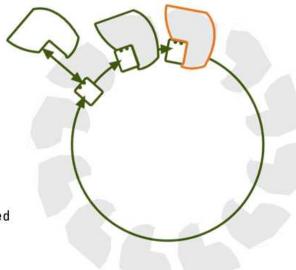
every plug with EnergyBus

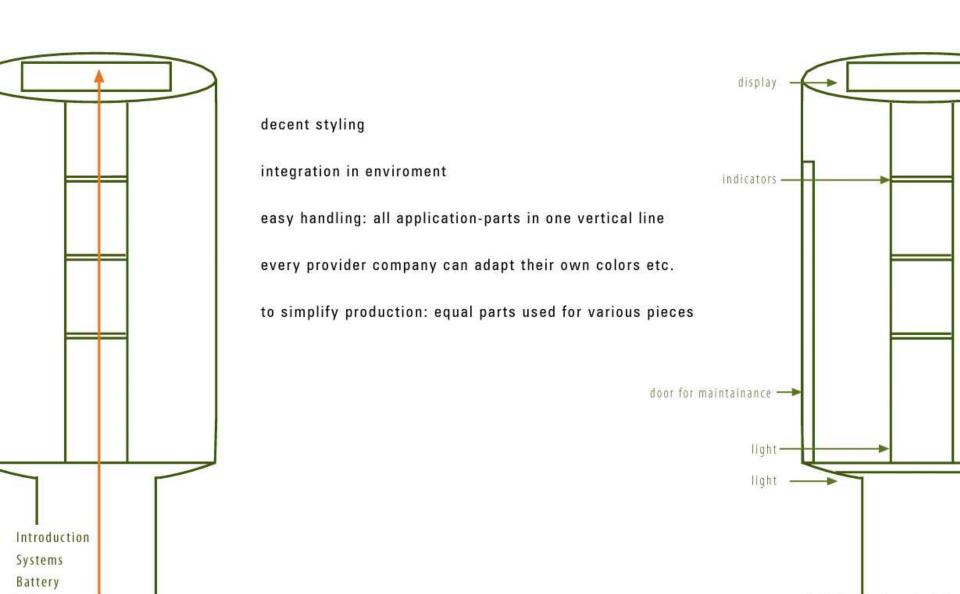
each ring is an independant turntable

broken batteries remain in line with healthy ones

in case of too many broken batteries, service informed

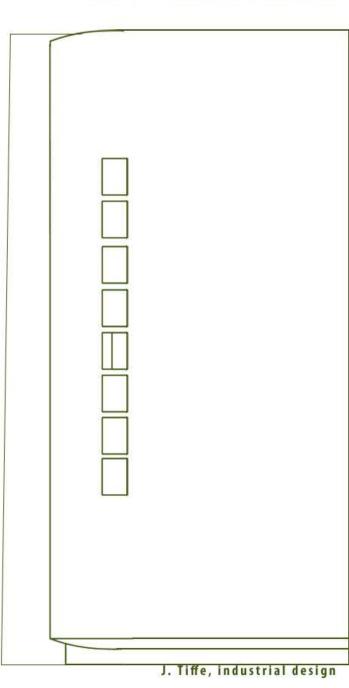
advantage: mechanically simple







sixteen rings 11 batteries per ring open in front 2700 for important places in town storage of sixteen scooter batteries optional four plugs to recharge scooters directly optional solar panel info point





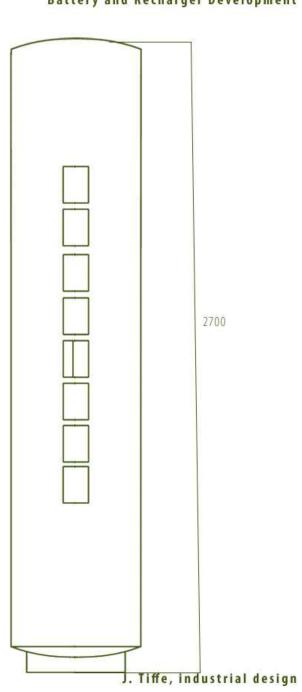
eight rings

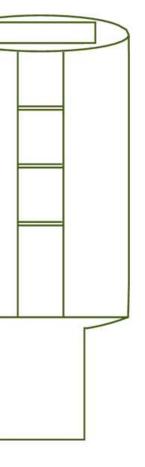
11 batteries per ring

to open from back and front

for significant places in town

as advertisement column





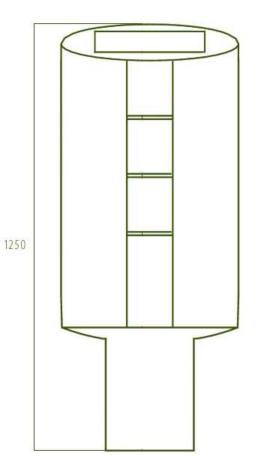
three rings

9 batteries per ring

to open in front

for various situations





Introduction Systems Battery Infrastructure



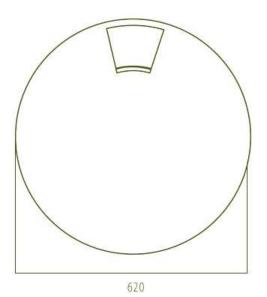
one ring

8 batteries in ring

to open in front

for shops





Introduction

Systems

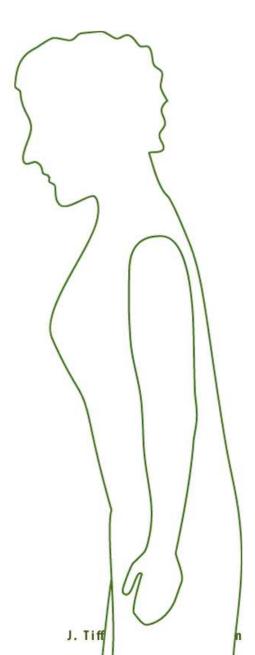
Battery

Infrastructure

Thank you for all the support I had for this project!

Thank you for your attention!

Do you have any questions?



Introduction

Battery

Recharger Family