DISRUPTIVE INFRASTRUCTURE FOR A DISRUPTIVE INDUSTRY

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JUNE2020

Micromobility is booming.
Bike and Scooter Tech Startups Reshaping Urban Mobility.

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In 2030 – **30Million new vehicles.**
Looking for charging and parking solutions in Urban Areas   *McKinsey

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Growing Pains

DISORDER IN PUBLIC AREAS

PEDESTRIAN SAFETY ISSUES

HIGH OPERATION COSTS

VANDALISM & THEFT

FLEET COMPLEXITY

separate micromobility users from vehicles and pedestrians. PBLs should be designed to accommodate electric and non-electric modes (minimum 2m wide for one-way, 2.5m wide for two-way lanes).

Only low speed devices permitted.

② **Cycle Highways**

Supplement urban protected lanes with infrastructure designed for longer distance micromobility trips, such as those between neighboring urban centers.

All micromobility devices permitted.

④ **Primary Streets (Vehicle speed limit up to 50km/h)**

lane, where micromobility users will ride in an unprotected lane or in mixed traffic.

to use the protected lane or should ride in the road.

Supportive Policies and Structures

Designated Parking: Accomodate all types of micromobility and keep devices out of pedestrian rights of way.

Enforced: Motorcycles and other high-speed devices not permitted in protected lanes.

What about the cities?
Micromobility platforms need disruptive solutions

3 important aspects

PATENT PENDING - PCT/TR2019/050890

A DOCKING AND RECHARGING SYSTEM FOR BATTERY POWERED PERSONAL MOBILITY VEHICLES
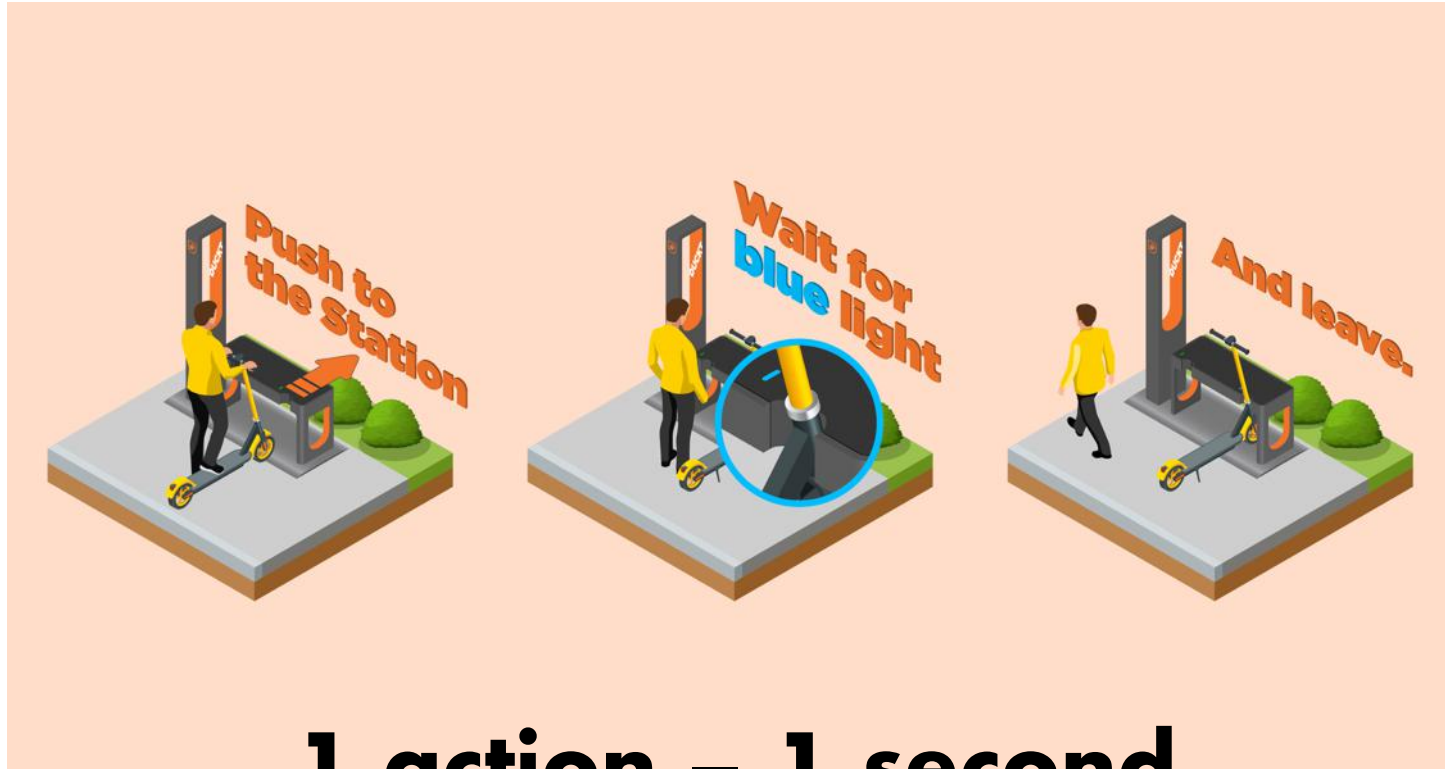
- Functionality of a universal adaptor
- Connectivity features of a charging station
- Scooter ID tracking per adaptor

2 more patents will be placed in 2020

POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

Define & Own infrastructure Standards for the industry.

1. Define Micromobility Charging Standard

2. Always the simplest way

1 action – 1 second

3. Execution & Business approach

Products into a Service = IaaS

* Infrastructure as a Service

1

DELIVER URBAN MICROMOBILITY INFRASTRUCTURE FOR THE CITIES

Free hardware deployment
pay per use model

Data & Service Provider
Green Solution Partner

2

DEFINE 'PLUG' STANDART FOR MICROMOBILITY VEHICLES

DUCKT integrated as a spec.

Preferred Scooter
Integration Ready

3

DISRUPT URBAN MOBILITY SHARING MODEL

Buy a scooter
Pair with DUCKT

Either Use B2C
or Start Sharing

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PUBLIC & PRIVATE SPACE

SHARING OPERATORS

Solving last mile problem for the city.
New revenue streams for the authorities.

Regulation compliant.
Track all scooters over DUCKT mds.

Green solution.
Helping cities to reduce their carbon emission

Lower operation costs.
40% profit of the operation & charging costs.

Real MaaS with green mobility
Possibility to integrate other green modes of transport to last mile

* Cellphone of Micromobility

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Software Upscale

API Integrations	Operators Municipalities Police Mobility token (BC) Advertising Public open source	

WEB + APP
Alert
Schedule
Task management
Reporting — **Maintenance UI**

Traffic Data — Micromobility traffic
Road traffic
Public transit

Sharing service
MAP
Payment — **User APP**

IoT — Stations
Air Quality
Vehicles: Bike, Moped, Scooter, Car, etc...

MDS requirement
Speed limits
Geofence
Reporting — **Management Panel**

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CORE ENGINE

MACHINE LEARNING & AI
Optimization - Predictions

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Key recognitions

TechCrunch Disrupt Berlin - **TC Top pick in mobility 2019**

StartupEstonia competition - **Chapter winner**

Tallinn municipality - **Smart city competition winner**

StartupGRIND, google for startups - **%1 accelerate startup**

7 startups to watch in 2020 - **Medium article**

SOL mobility challenge, Lisbon - **Winner, Lisbon 2020 pilot project.**

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Route-to-Market

92 business days   **384** customer contact   **54%** reached us   **38** sales pipeline   **4** pilots ready   **30+** LOIs

TIER

VOLKSWAGEN GROUP

Strasbourg
& COMMUNAUTÉ URBAINE

lisboa
CÂMARA MUNICIPAL

BIRD

Segway-Ninebot

JCDecaux

RENAULT

Barcelona

lime

Oslo

SAE INTERNATIONAL™

PARIS

Team

Çağrı SELÇUKLU - Co-Founder - CEO
MA. Transportation Design

15 years mobility project experience with scholarship. Mass produced transportation products. User centered project expert.

Gökşen ATALAY - Co-Founder - CTO
MSc. Bioengineering, BA. Material Engineering

16 years automotive purchasing and engineering experience. Founder of connected car startup and Supplychain and IoT expert.

Evren YAZICI - Co-Founder - PD
MSc. Product Design

Graduated with Honors. 3 years mobility products design experience, with 9 recognitions.

Arzu TEKİR
City & Policy
Smart City & Policy Expert
Ex-WRI Director

Dr. Altan Yıldırım
Supply Chain, R&D
R&D, Innovation
Ex-Tier1 R&D Director

Dr. Angelika Berger-Sodian
Non-Executive Director
Ex-NIO Managing Director

Ahu Serter
Angel Investor
FarkHolding
ChairWoman

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The potential

Idea to Live project – **In less than 10 months.**

All software & hardware developed in-house – **Under 200K € .**
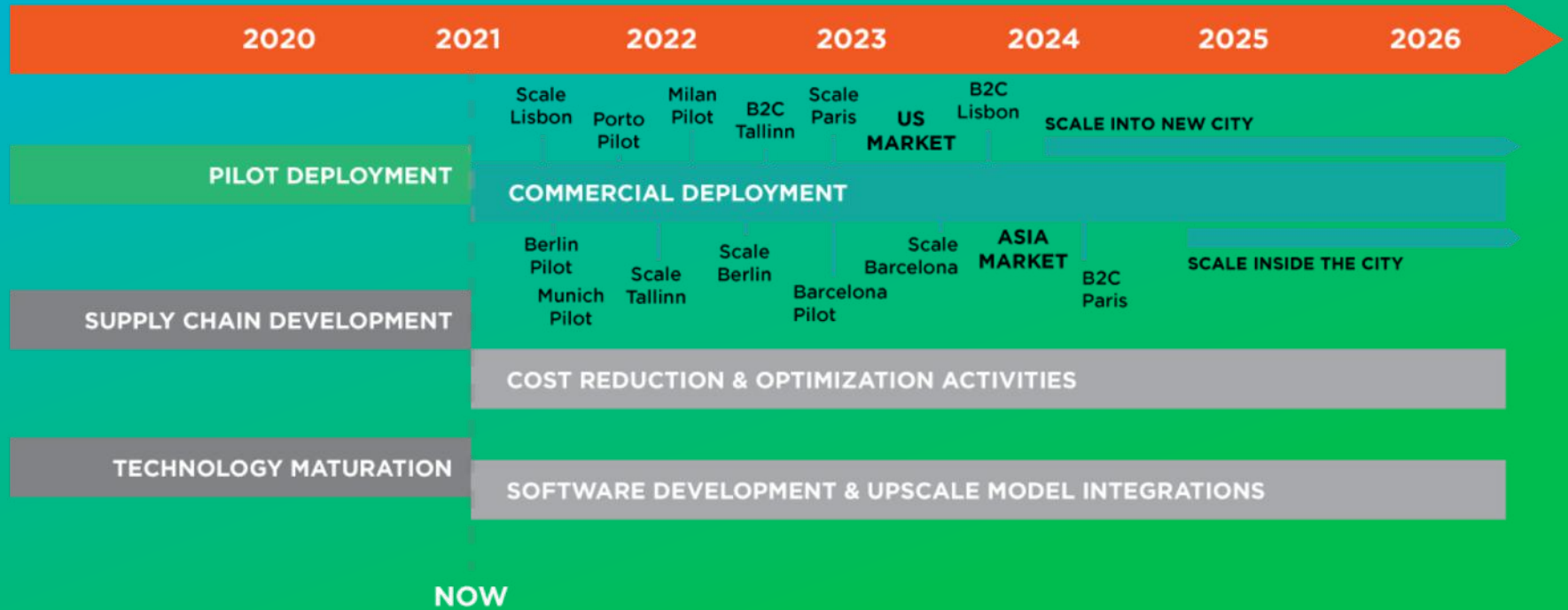
International Patent – **Infrastructure Standard for Micromobility.**

Post Covid-19 – **Growing demand for personal mobility.**

DUCKT Team – **Best background, time and market ready.**

Opportunity – **30 LOIs Ready, ROI in 6-7 months.**

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Time-to-Market

| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |

PILOT DEPLOYMENT

Scale Lisbon · Porto Pilot · Milan Pilot · B2C Tallinn · Scale Paris · US MARKET · B2C Lisbon · SCALE INTO NEW CITY

COMMERCIAL DEPLOYMENT

SUPPLY CHAIN DEVELOPMENT

Berlin Pilot · Munich Pilot · Scale Tallinn · Scale Berlin · Barcelona Pilot · Scale Barcelona · ASIA MARKET · B2C Paris · SCALE INSIDE THE CITY

COST REDUCTION & OPTIMIZATION ACTIVITIES

TECHNOLOGY MATURATION

SOFTWARE DEVELOPMENT & UPSCALE MODEL INTEGRATIONS

NOW

DUCKT™

One more thing...

We do the same for all bikes

DUCKT

DOCK.
LOCK.
CHARGE.

DUCKT™

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