

DEKRA DIGITAL

Danube Region Transport Days - Micromobility - 15.12.2020









Our Mission Build digital services, lead digital transformation and drive open innovation for DEKRA to increase safety in everyday life.



Micro Mobility at DEKRA

Six Challenges within the e-Scooter Ecosystem

Speeding



No sustainable Hardware



Public Transit Integration



Individual Governance



Unsafe Riding Behavior



Lacking Infrastructure



When putting these challenges into statistics we see: No regulation causes accidents!

In France (2019-2020):

- 35% accidents are reported collisions with pedestrians
- 18% accidents reported collision with motor vehicles
- 10 reported deaths

In the United States (since introduction)

- More than 40,000 injured people
- Over 40 reported deaths

Why do accidents happen?

68% due to non-compliance with regulation



22% due to faulty infrastructure

Strong postpandemic recovery expected for Micro Mobility



Cities across globe are transforming road infrastructure to accommodate micro mobility vehicles

Shifting consumer behavior more towards shared mobility

The Solution

The DEKRA Micro Mobility

Safety Standard

4 reasons why it works for cities and mobility providers



The 360° approach to make Micro Mobility safe and sustainable (1/2)

Technical Design

Covers various technical national regulations concerning the vehicle

Production, Delivery and Assembly

Focus on core manufacturing process, assembly and delivery of the vehicle

Authorities, Insurance and Infrastructure

Guide city authorities to properly integrate the e-scooter sharing into existing public transit

IT/Data Security and Privacy

Guidance for setting data standards and security measures



The 360° approach to make Micro Mobility safe and sustainable (2/2)

Training and User Behavior

Train users how to use the vehicle and educate them about road traffic rules

Deployment

Safe deployment of scooters during operating hours

Maintenance and Warehouse

Periodically testing e-scooters to maintain its operating life and storing them safely during non-operating hours

Recycling

Recycling of parts and finding different usage of batteries



Our 11 Suggestions to Public Authorities & e-Scooter Providers – developed with the German Traffic Safety Council



11 Vorschläge an Politik, Verwaltung und Anbieter für die Erhöhung der Verkehrssicherheit im Umgang mit E-Scootern

Juni 2020

Der Deutsche Verkehrssicherheitsrat und DEKRA



- 1. Mandatory turn signals
- 2. Minimum User age of 15 and a test certificate
- 3. Increase visibility through reflecting tapes
- 4. Unique contact for authorities and police
- 5. Fines for driving on footpath
- 6. Align road use with bicycle traffic
- 7. Designated parking zones
- 8. Anchor change of perspective in driver training
- 9. Regular and orderly deploying and collection of e-scooters
- 10. Automated speed limits
- 11. Rental rates according to distance instead of

time

DEKRA DIGITAL Badge for Micro Mobility



Our Involvement within the Ecosystem of Mobility





Transport Innovation for Sustainable Development

> 27 - 29 May 2020 Leipzig, Germany



European Cities



European Transport Safety Council

PROJECT PROPOSAL

MICRO-MOBILITY & VULNERABLE ROAD USERS IN URBAN AREAS





Benefit from our Expertise and Services around Micro Mobility



What's next?

In Development: Battery Testing



Maintain good health of your fleet batteries!

What can be tested?

Device can basically test all batteries between 6V and 48V where you can get galvanic (direct) access to the poles, e.g.

- eBikes
- eScooters
- Powertools

Questions?

Contact us!

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