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RÉPUBLIQUE FRANÇAISE



Ministère
de l'Écologie,
du Développement
durable
et de l'Énergie

Les Rencontres de la MOBILITÉ INTELLIGENTE

PARIS • BEFFROI DE MONTROUGE • 26-27 JANV. 2016

Niklas Funbrandt Kapsch TrafficCom Connected Next

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MOBILICITÉS



Speaker

Niklas Funbrandt

Niklas Funbrandt is product manager for On Board Units at Kapsch TrafficCom. He has 15 years of experience working in the field of electronic tolling. Through innovation, product development and business strategy he has worked to achieve the leading position in the market.

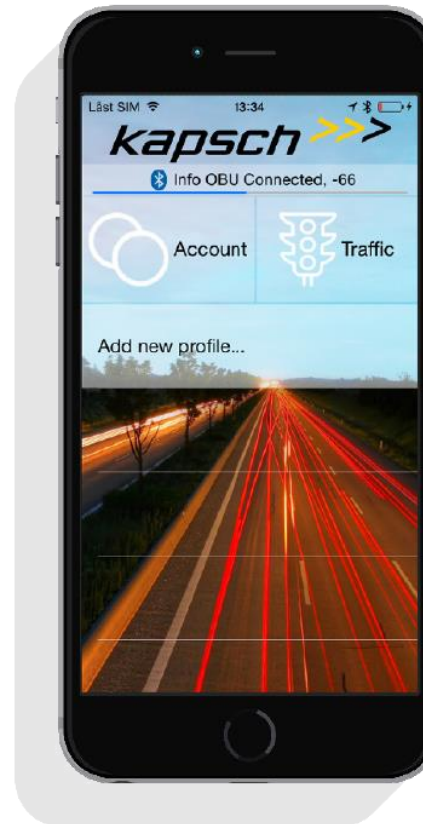


Kapsch gives you Connected Next



Connected Next

- Connected to external device with Bluetooth Smart (4.0)
- Standardised DSRC interface
- Same performance as TRP-4010



Transponder Design

Features

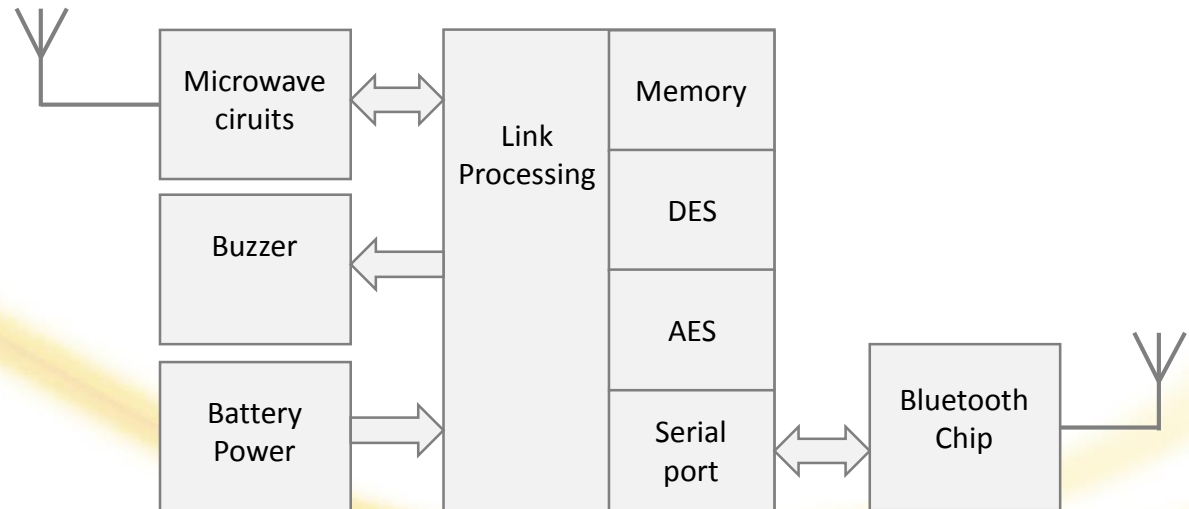
- Compact design
- Unique branding possibilities
- Quickly installed in vehicle
- Environmental friendly



Internal design

Block diagram

- Using same core
- Additional chip
- Separate antenna
- Serial port



Security Functions

Levels of security

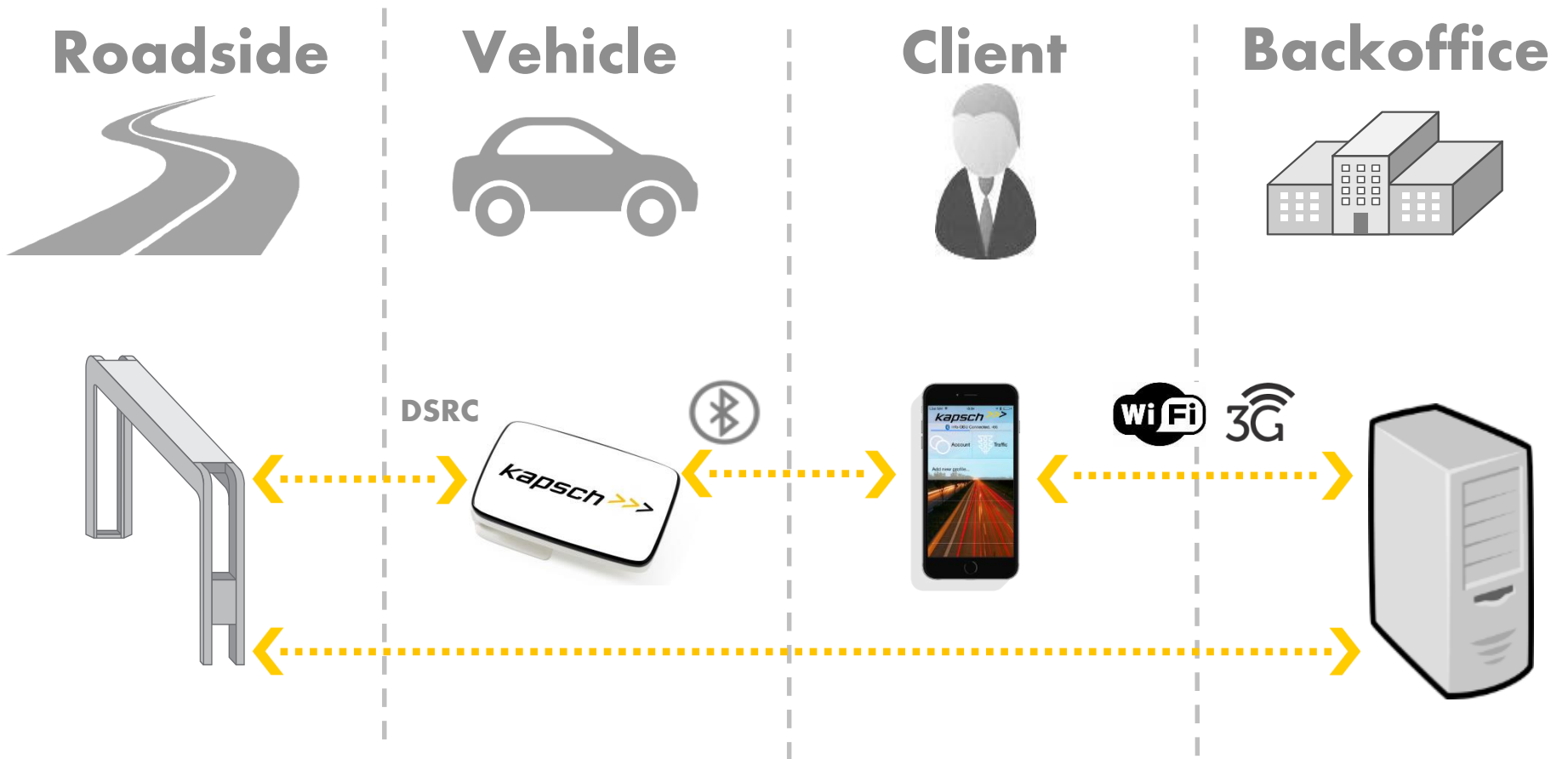
1. Open data for none sensitive attributes
2. Security code unique for each transponder
3. Highest security access credential with 128 bit AES encryption.

Data Storage Security

- Each data attribute is configured within the transponder for access R/W or NO.
- Memory content kept in the secure DSRC chip.
- Memory content erased when battery is disconnected.



Typical service



Use cases

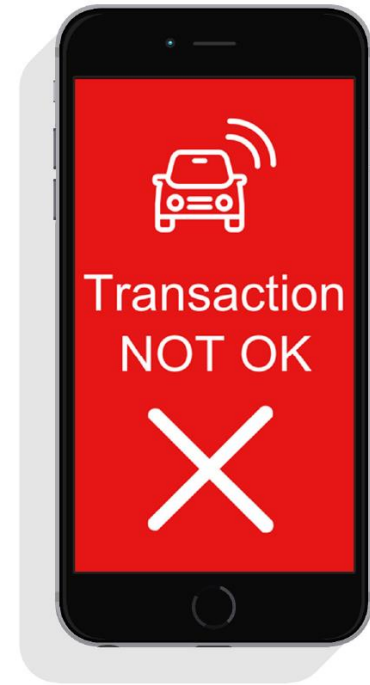
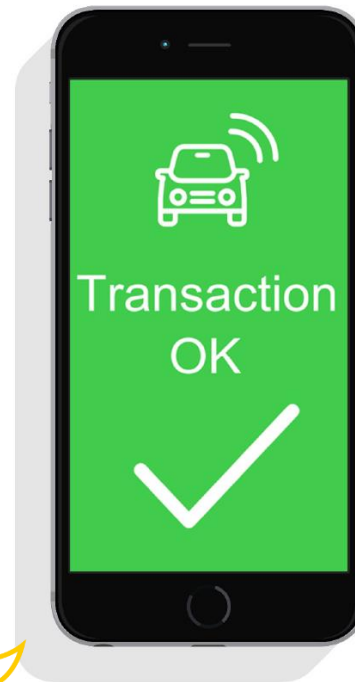
Case 1

- Screen message is shown on the smartphone at transactions.
- Suitable for visual feedback to drivers with impaired hearing.

Case 2

- Voice Message
Speech or sound feedback with the smartphone at DSRC events.

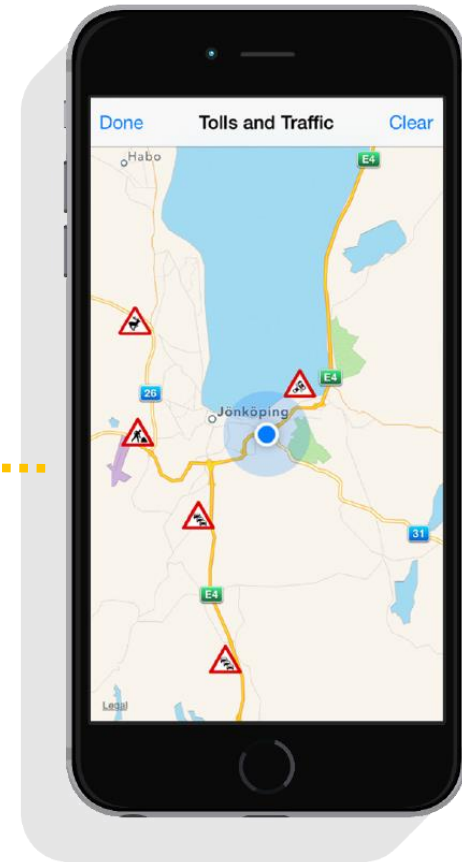
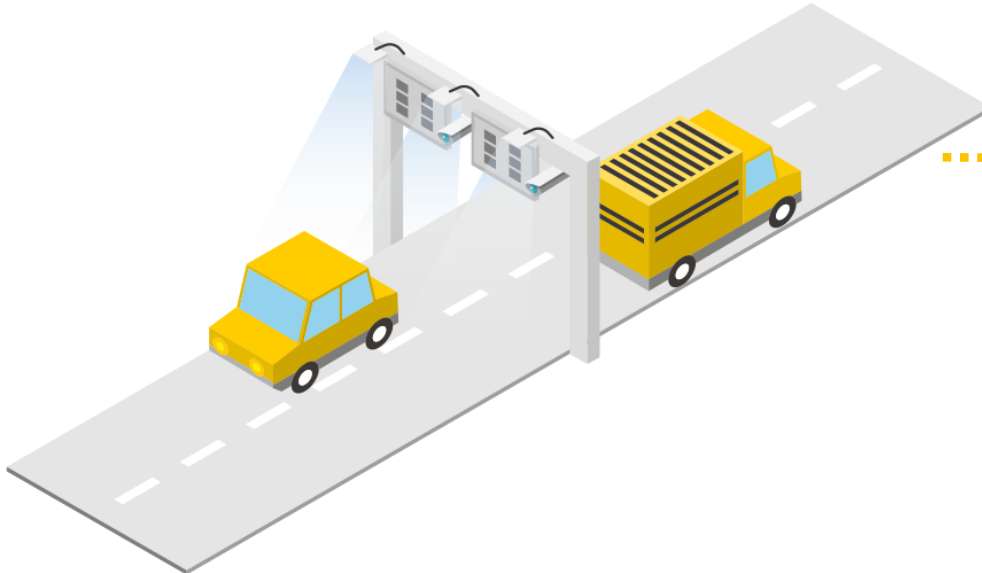
Transaction
OK



Use cases

Case 3

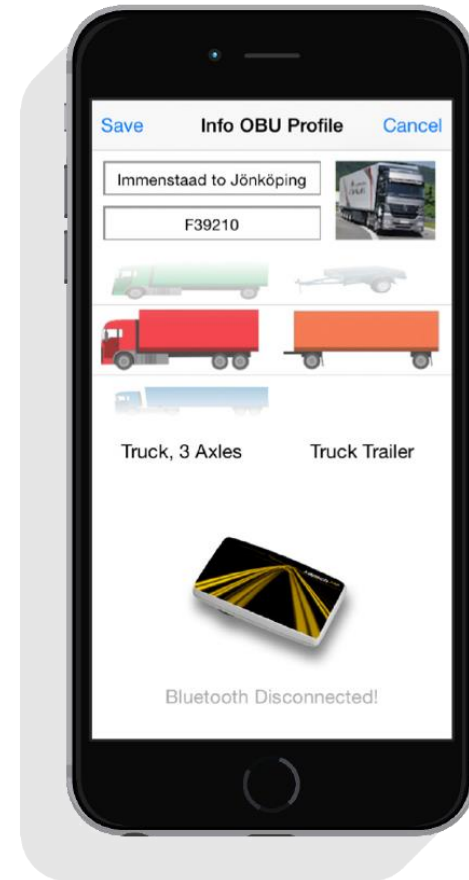
- Traffic information
Visual and audible feedback for roadwork, slow traffic, accidents etc.



Use cases

Case 4

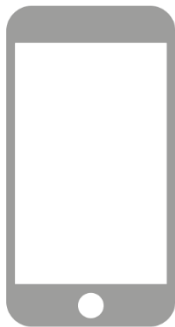
- Update transponder
Update vehicle data e.g.
 - Vehicle class.
 - License plate number



Use cases

Case 5

- Personalisation
Facilitate a retail distribution. Device can be updated by the customer with unique data after purchase.

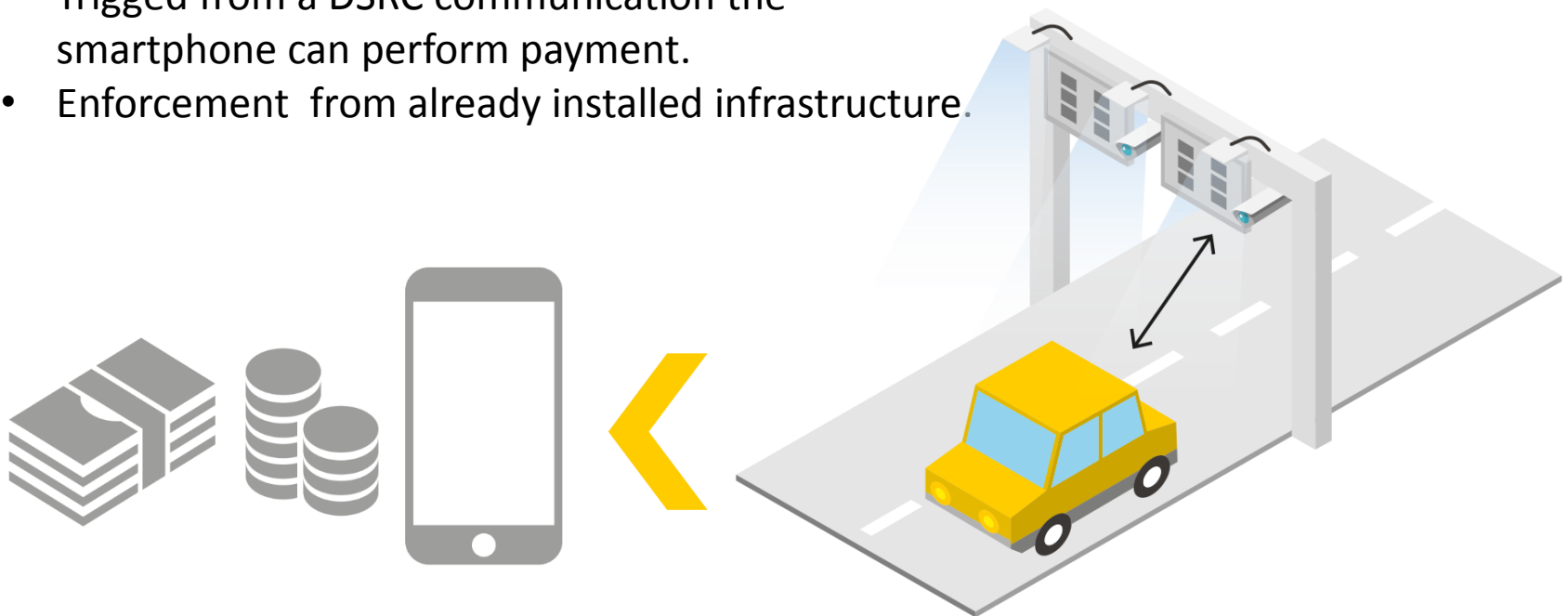


Use cases

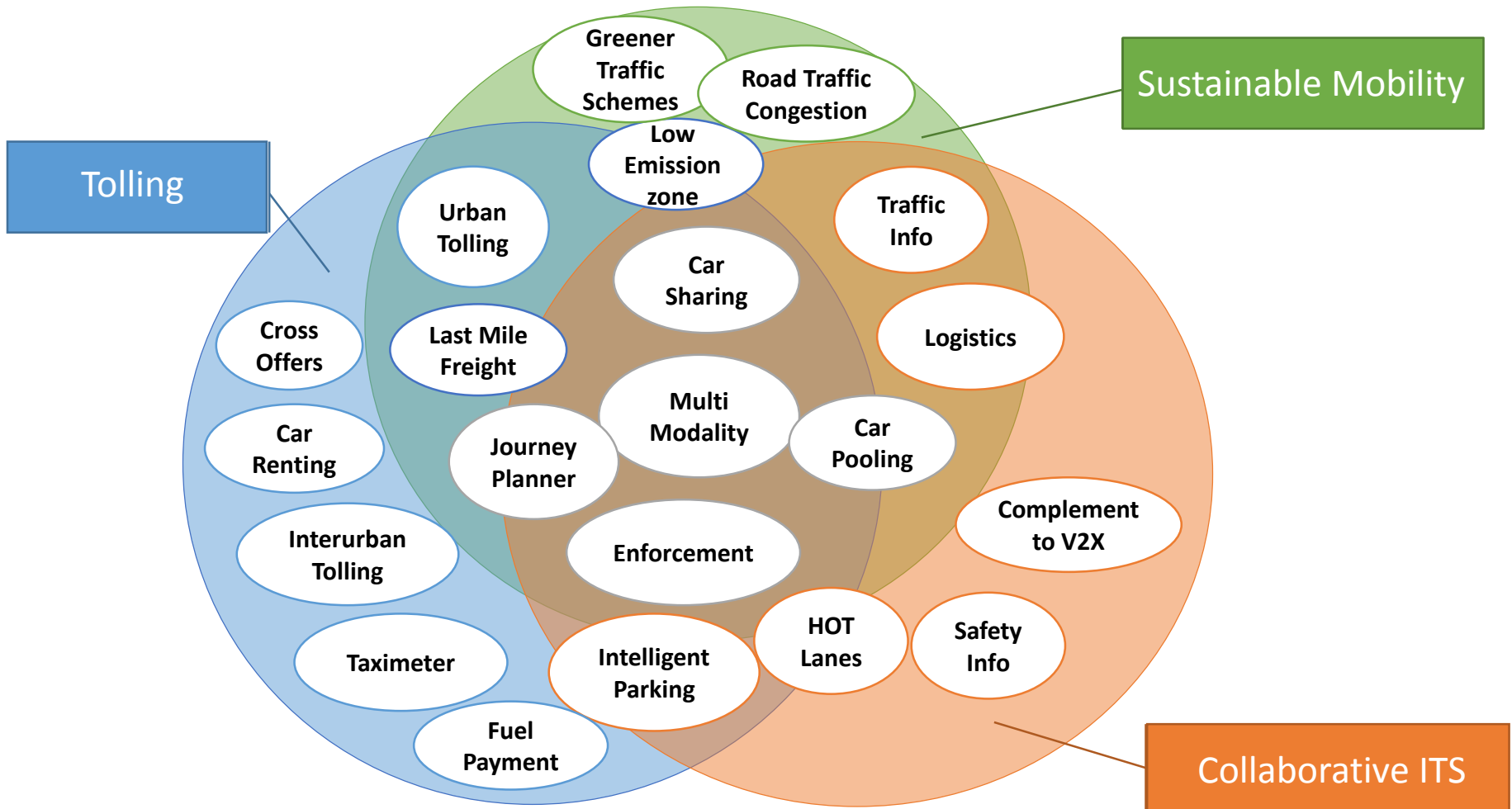
Case 6

Payment with smartphone

- Triggered from a DSRC communication the smartphone can perform payment.
- Enforcement from already installed infrastructure.

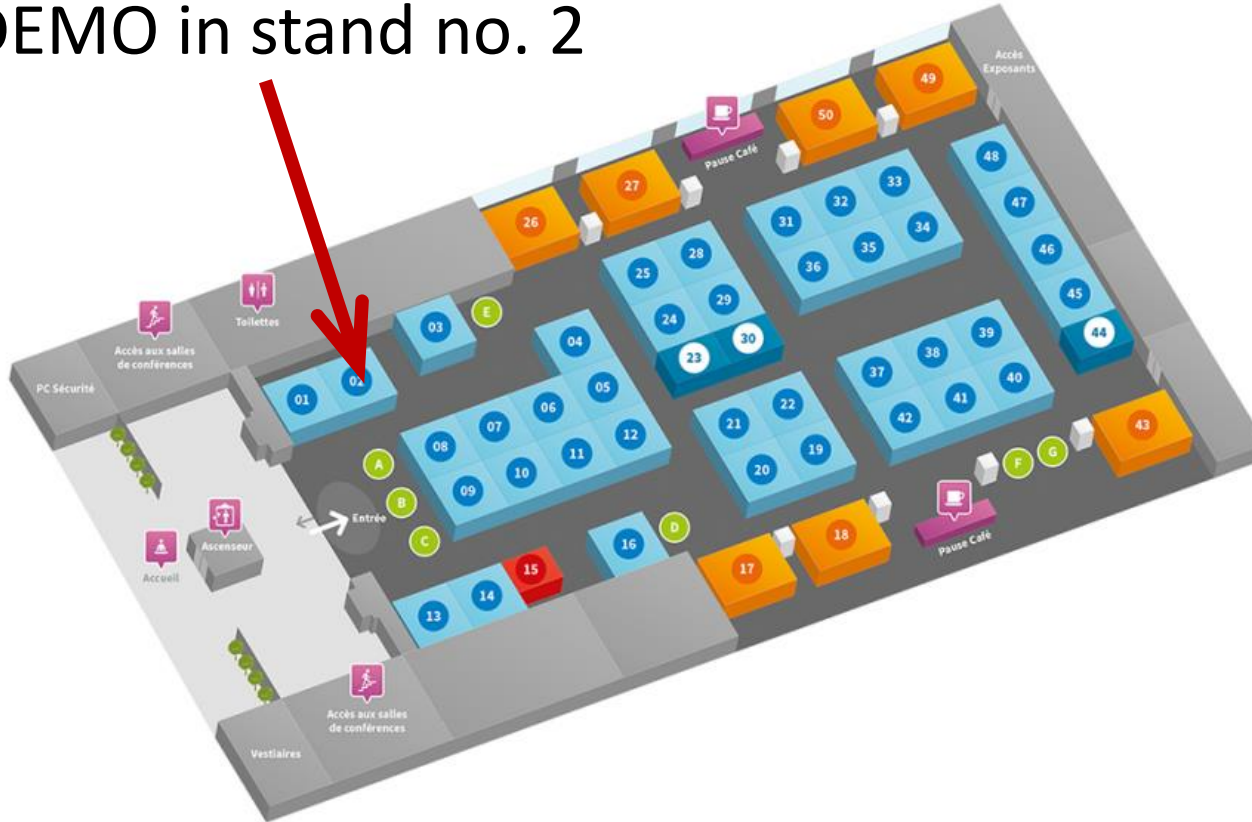


From Tolling... to Smart Mobility apps



Demo

Live DEMO in stand no. 2



Merci !

