The challenges for vehicle connectivity for politics and users
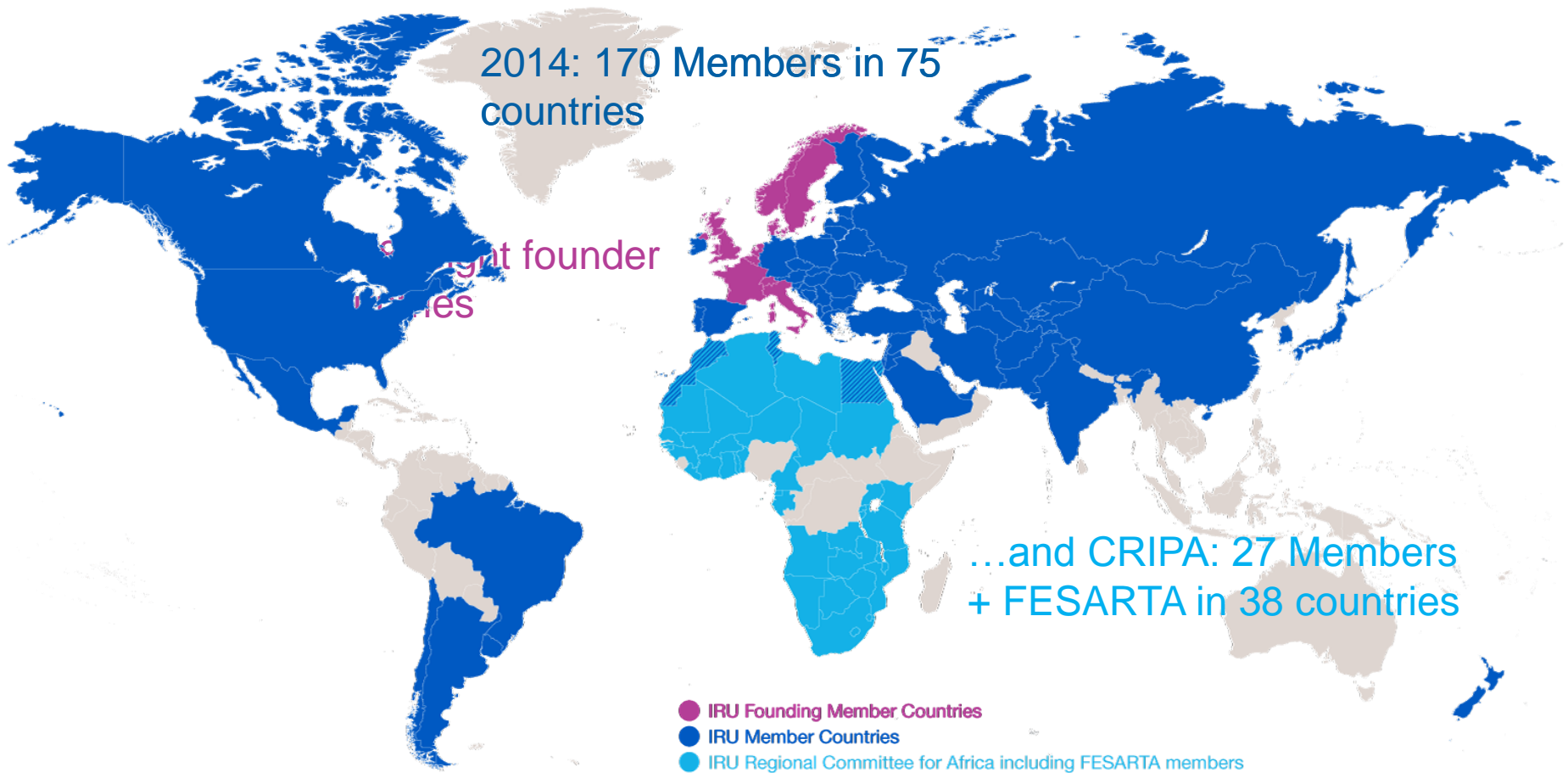
CLEPA 2014
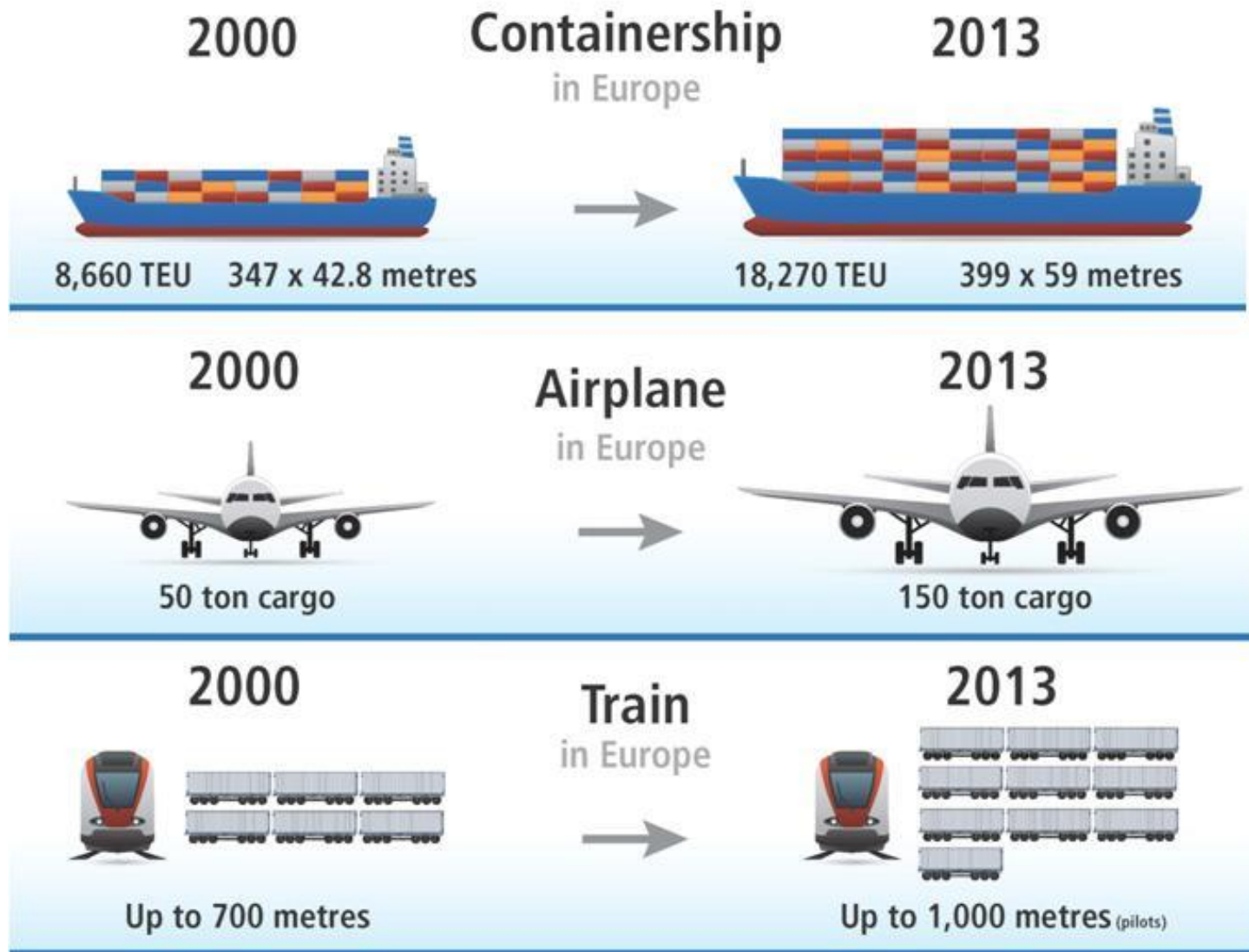
Michael Nielsen
General Delegate, IRU Permanent Delegation to the EU

IRU
International
Road Transport Union

Evolution of IRU Membership

2014: 170 Members in 75 countries

eight founder countries

…and CRIPA: 27 Members + FESARTA in 38 countries

- IRU Founding Member Countries
- IRU Member Countries
- IRU Regional Committee for Africa including FESARTA members

More simple efficiency innovation in transport than deployment of ITS also supported!

Containership in Europe

2000	2013
8,660 TEU 347 x 42.8 metres	18,270 TEU 399 x 59 metres

Airplane in Europe

2000	2013
50 ton cargo	150 ton cargo

Train in Europe

2000	2013
Up to 700 metres	Up to 1,000 metres (pilots)

But not generally for road transport...

2000 — Truck in Europe — 2013
18.75 metres → Still 18.75 metres!

Should have followed this normal development path

Lots of immediate innovations to benefit from

Right choice of tyres

Tyre pressure monitoring

Alignment of axles

Improved engine technology

Dynamic route planning & Navigation

Fleet management

Adaptive cruise control

Measure & control driving style
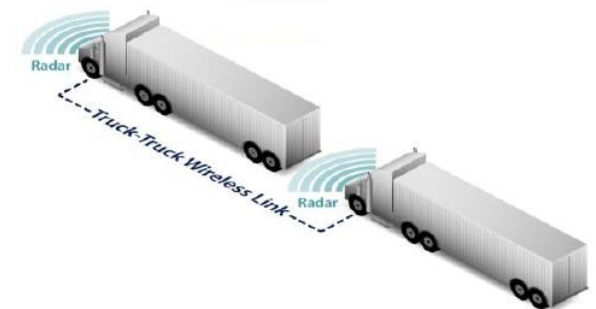
Increase loading capacity

Improved Aerodynamics

Fleet operators and ITS

Strongly in favour of road transport innovative solutions, as long as they:

- provides *safety, environmental and economic* benefits

- responds to *real needs of the market*

- is *standardised, harmonised and interoperable*

- must be used, if possible, on a *voluntary basis*;
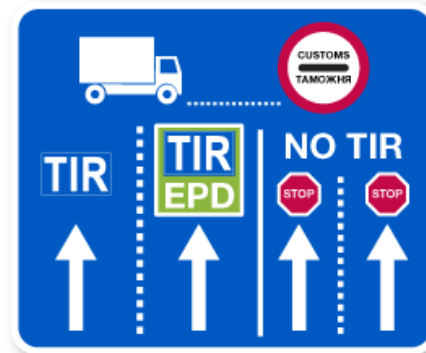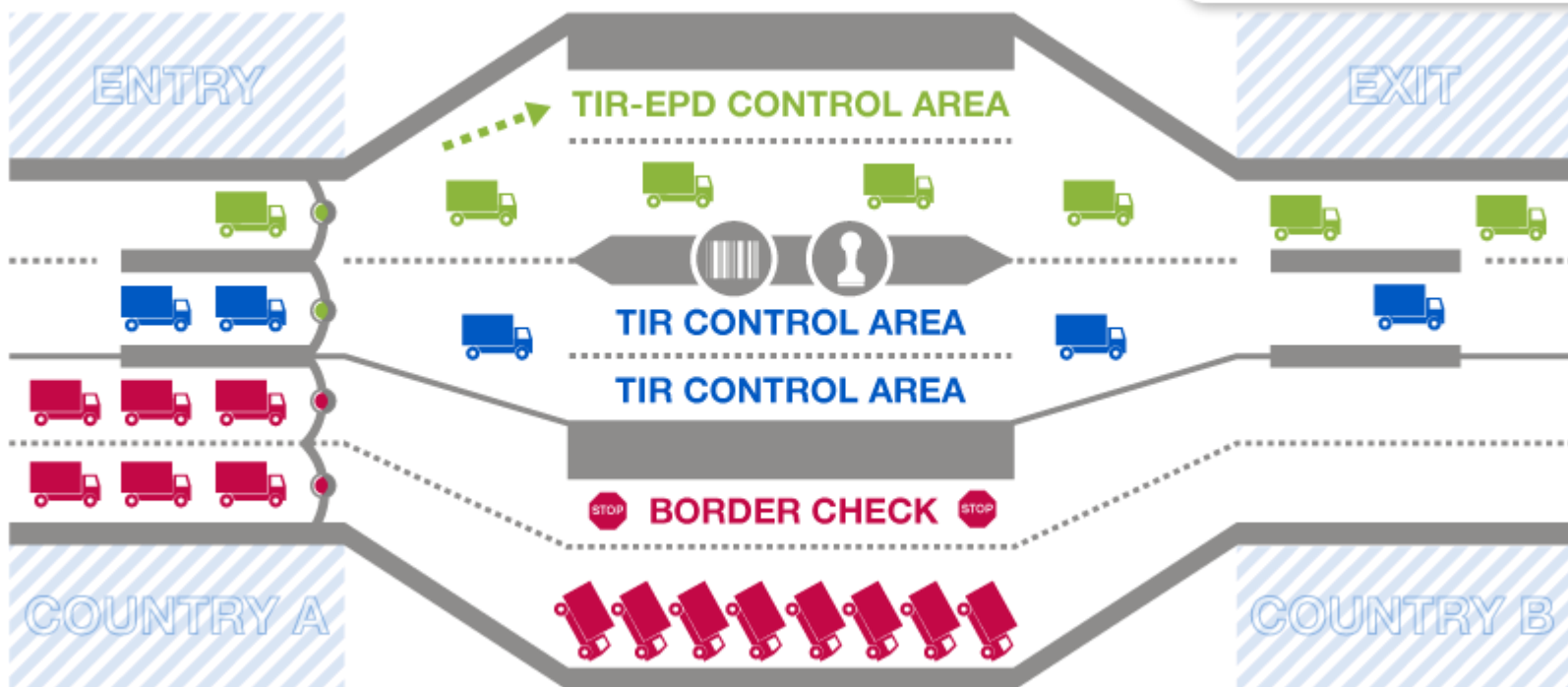
What we recommend

Any coordinated action on ITS applications should:

- focus on *deployment of proven solutions*

- include a *solid business case*

- include incentives in the business plan

- incorporate the necessary *training*

- ensure *freedom of choice*

- link to *transport documents*

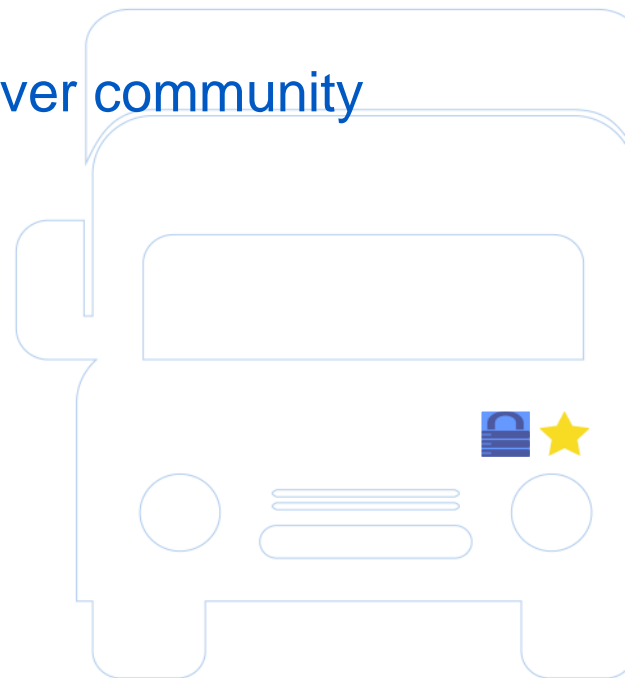- ensure *confidentiality of commercial data*
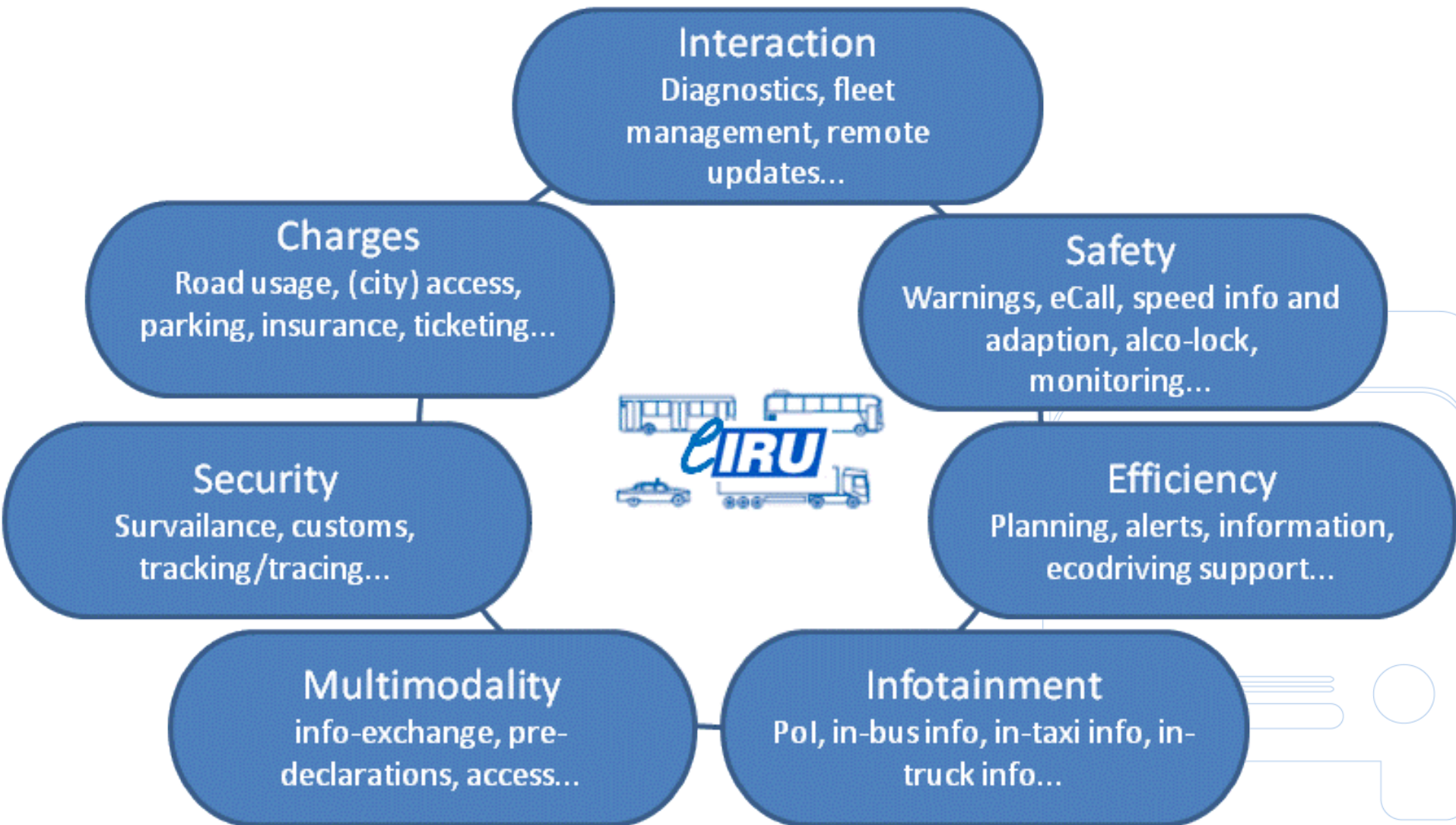
Extending possibilities of existing systems

Reduce border waiting times, facilitate trade, increase risk management efficiency, improve customs controls, secure trade and transport!

Use new technology — TRANSPark

Provides information on secure CV parking

- Locate 4,000+ parking areas in 40+ countries
- Search by country, within a 200km radius or along planned routes
- Check security and comfort levels available in parking areas
- Add parking information and submit feedback
- Check in at parking areas to benefit from the driver community
- And many more useful services!

The future is "Connected"

Interaction
Diagnostics, fleet management, remote updates...

Charges
Road usage, (city) access, parking, insurance, ticketing...

Safety
Warnings, eCall, speed info and adaption, alco-lock, monitoring...

Security
Survailance, customs, tracking/tracing...

Efficiency
Planning, alerts, information, ecodriving support...

Multimodality
info-exchange, pre-declarations, access...

Infotainment
PoI, in-bus info, in-taxi info, in-truck info...

Main barriers hindering wider uptake

Cost of on-board units, communication and technologies

- Equipment and communication suppliers cannot expect that fleet operators will pay excessive costs

- Low penetration of equipped infrastructure for V2I

- Integration into existing fleet management systems

Access to services

- Lack of interoperability

- Willingness to invest depends on wide spread service availability

Summary

The future brings new opportunities using ITS – but we also need to better use the existing ones!

Innovations hold a promise of being widely acceptable by fleet operators

Where needed, involve fleet operators from the early stages of any innovative development and deployment