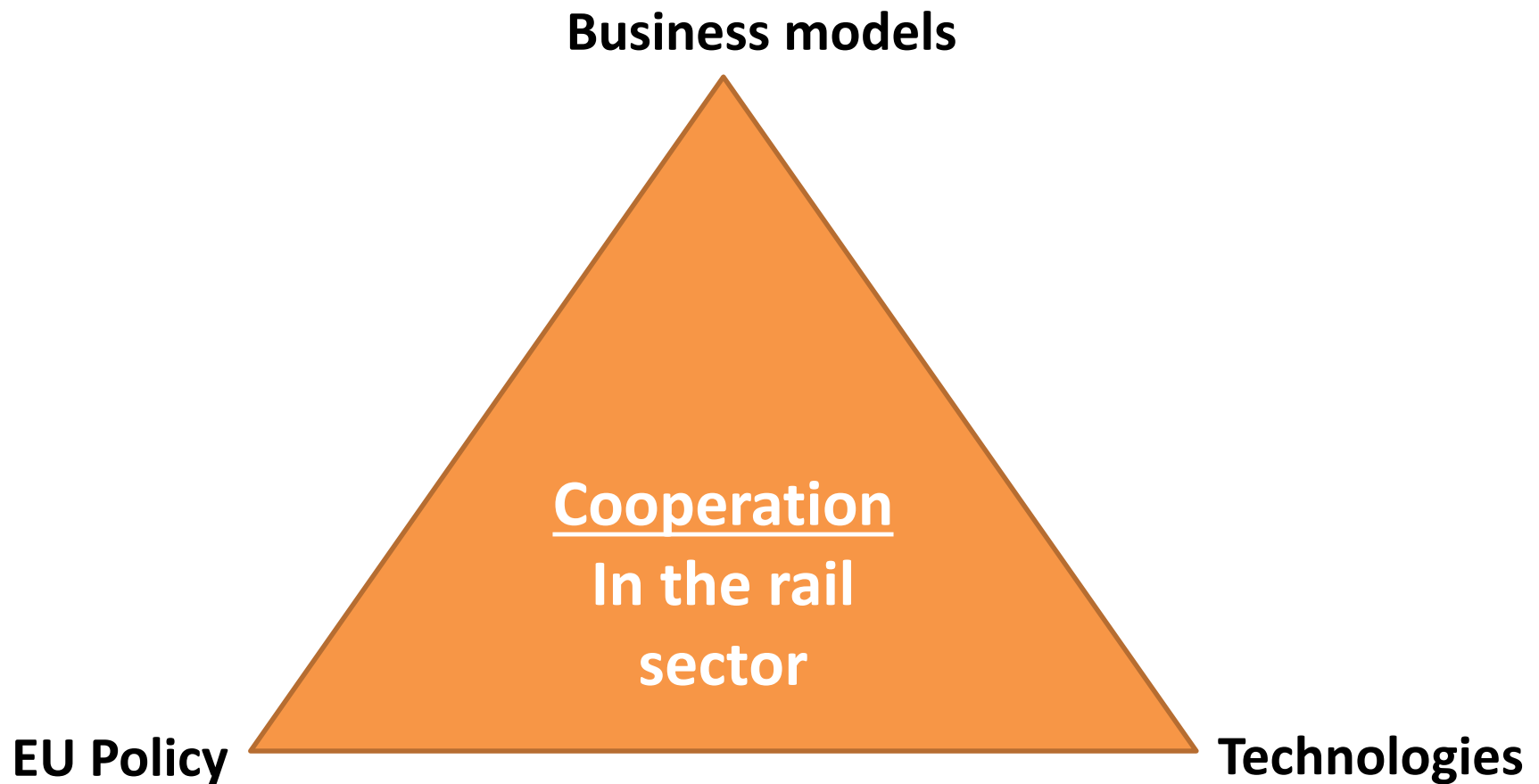
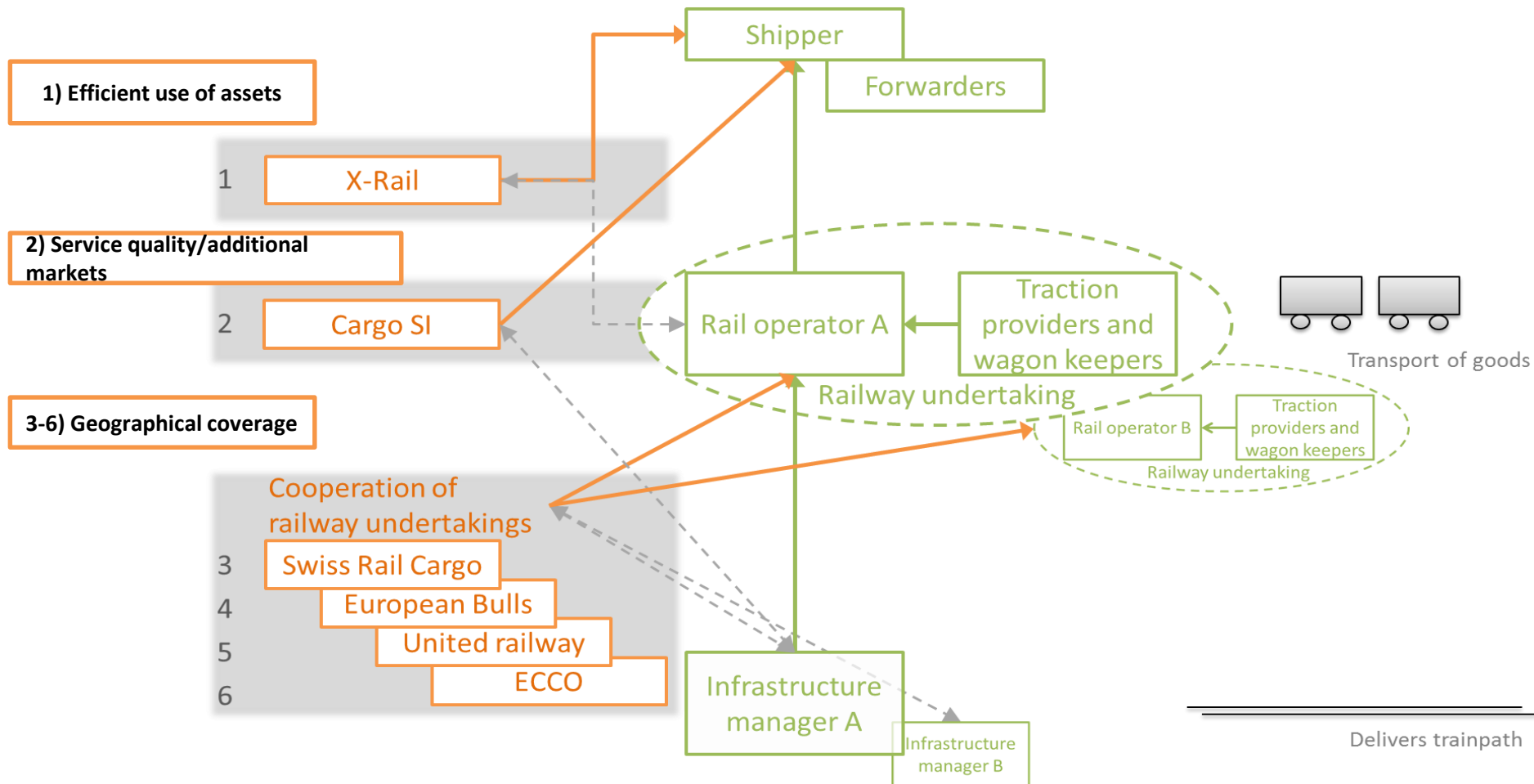


SMART RAIL

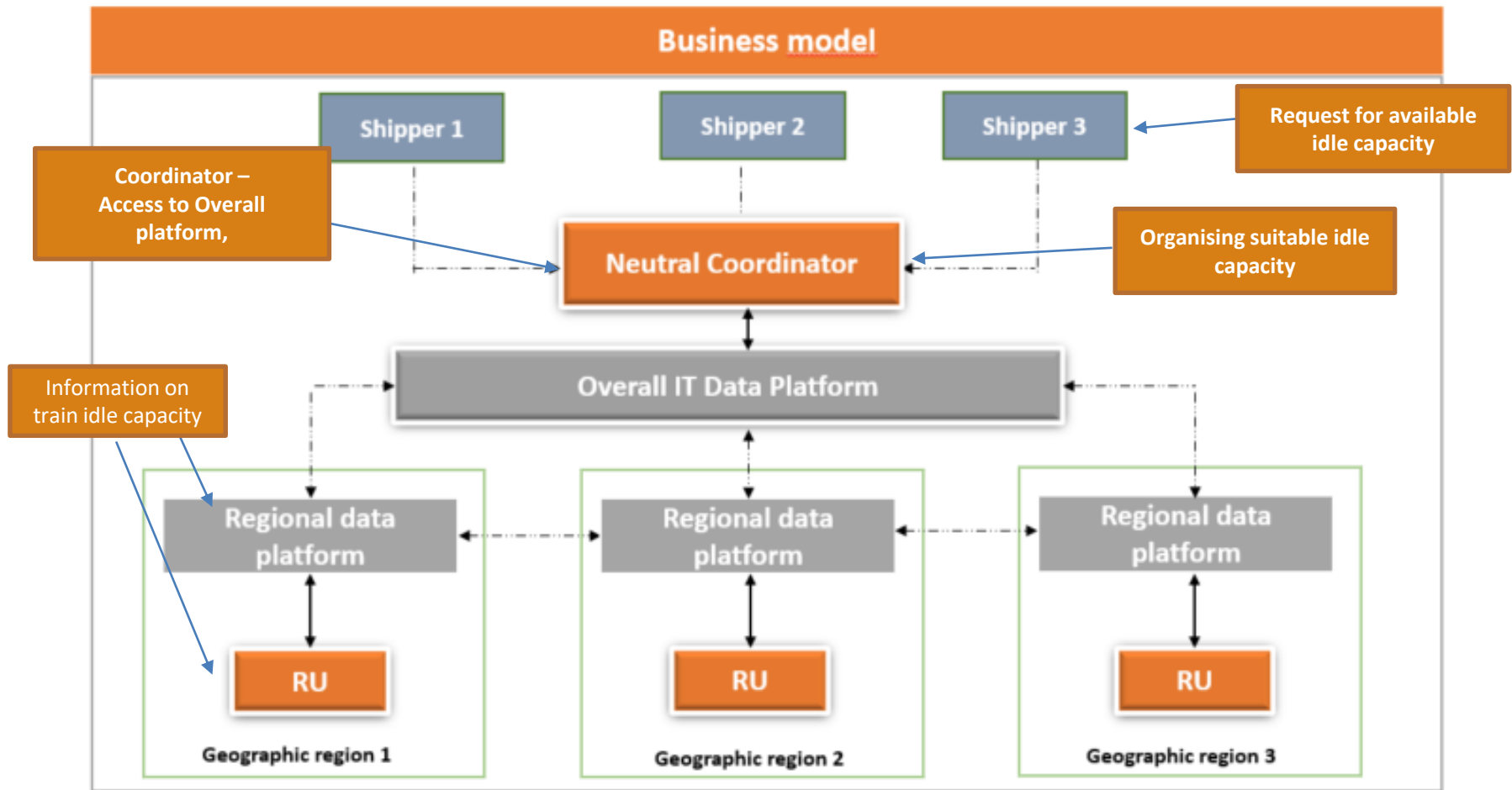
Vienna, Matic Prosen



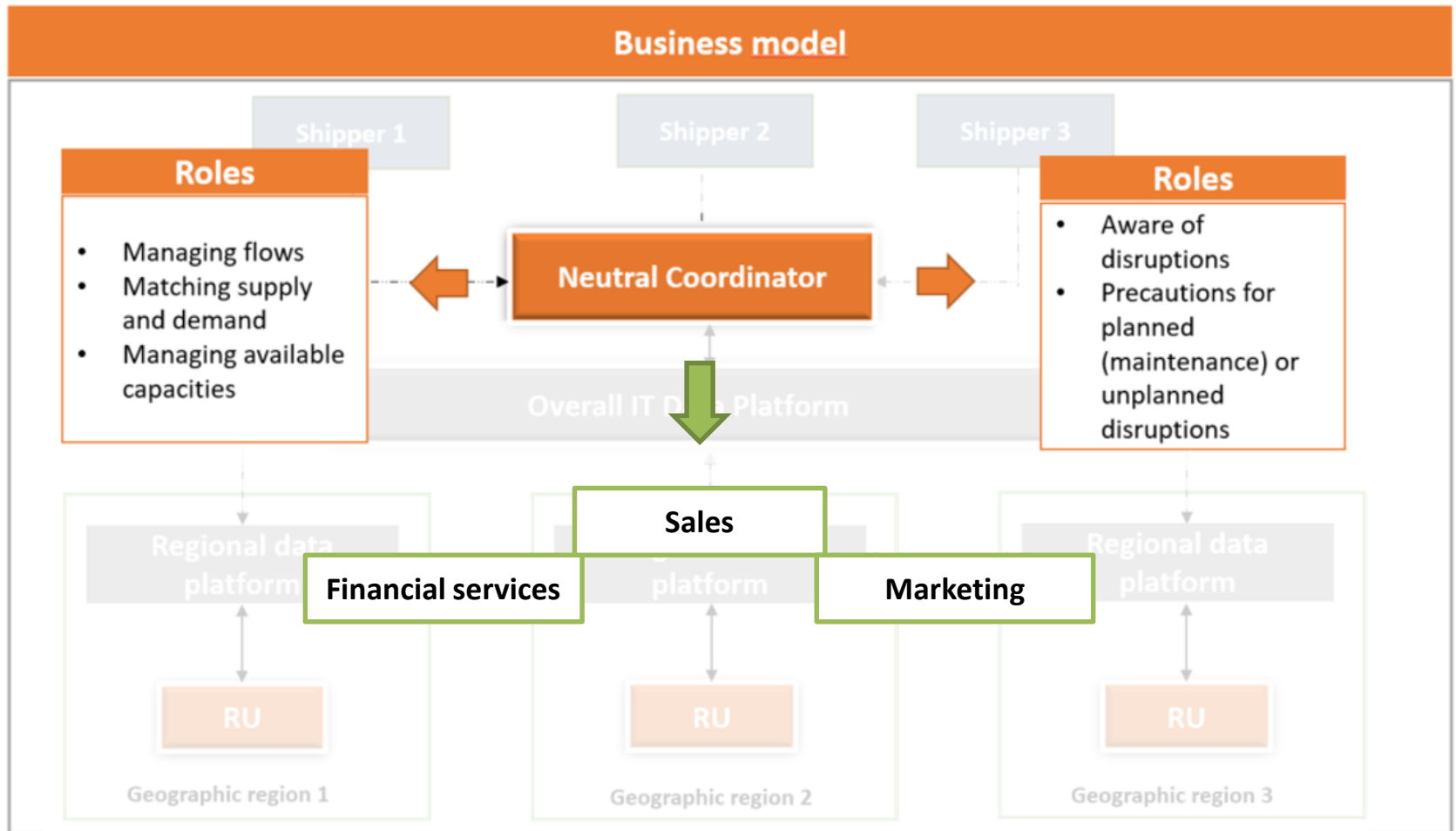
Examples of cooperation



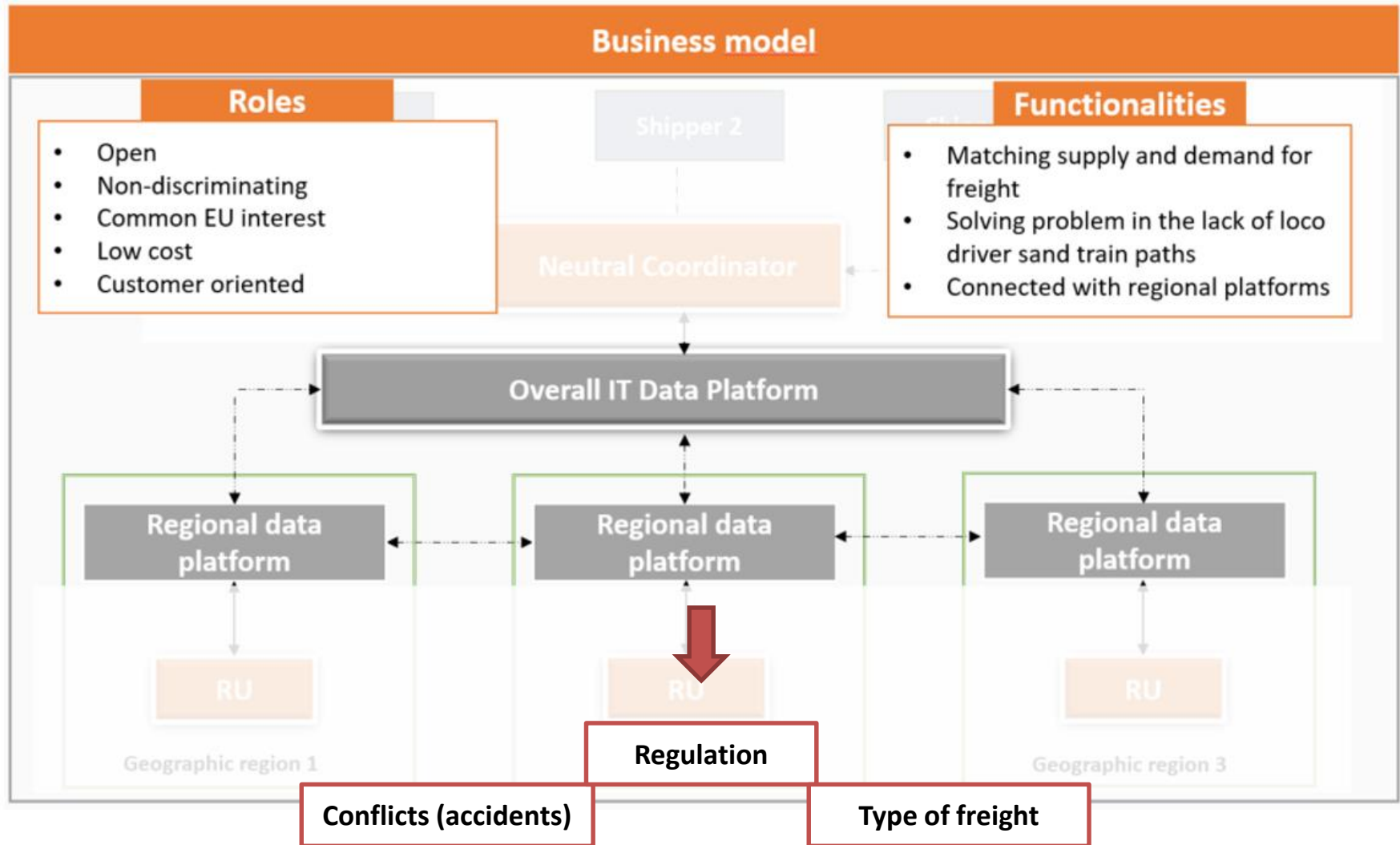
Business models



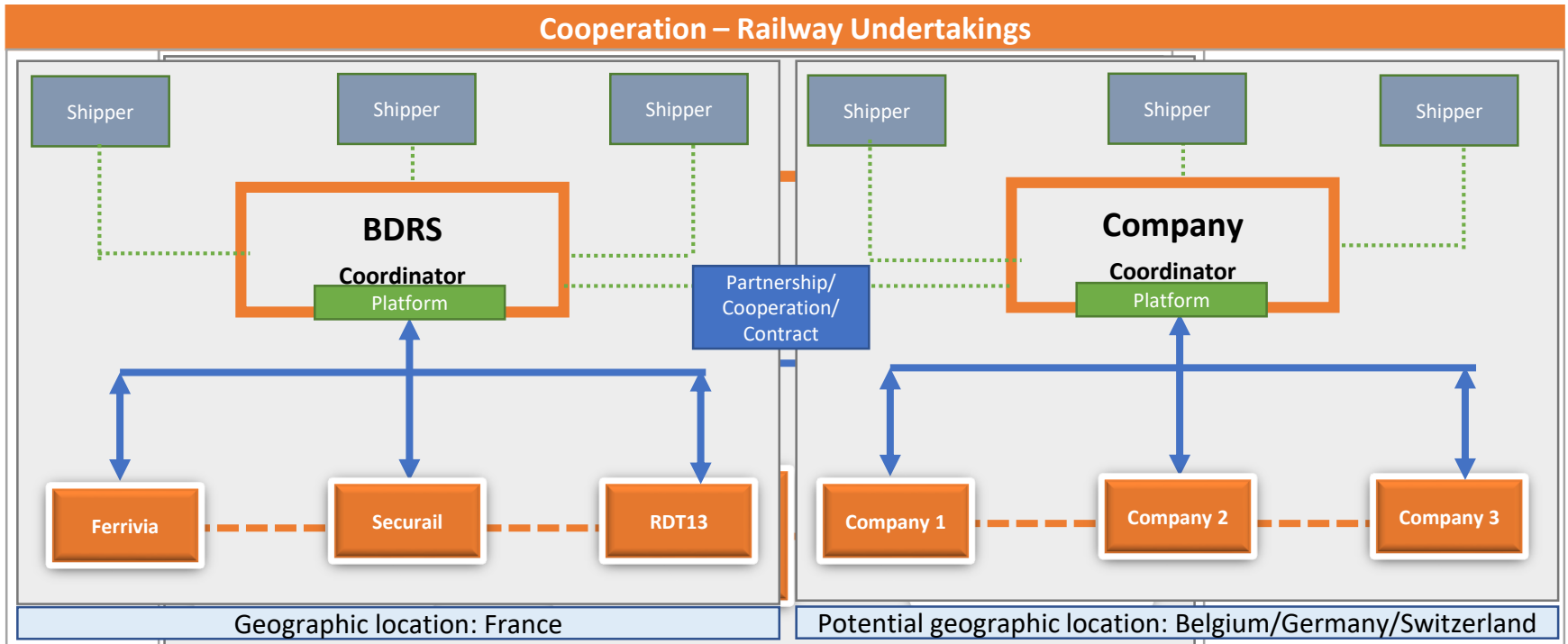
Business models



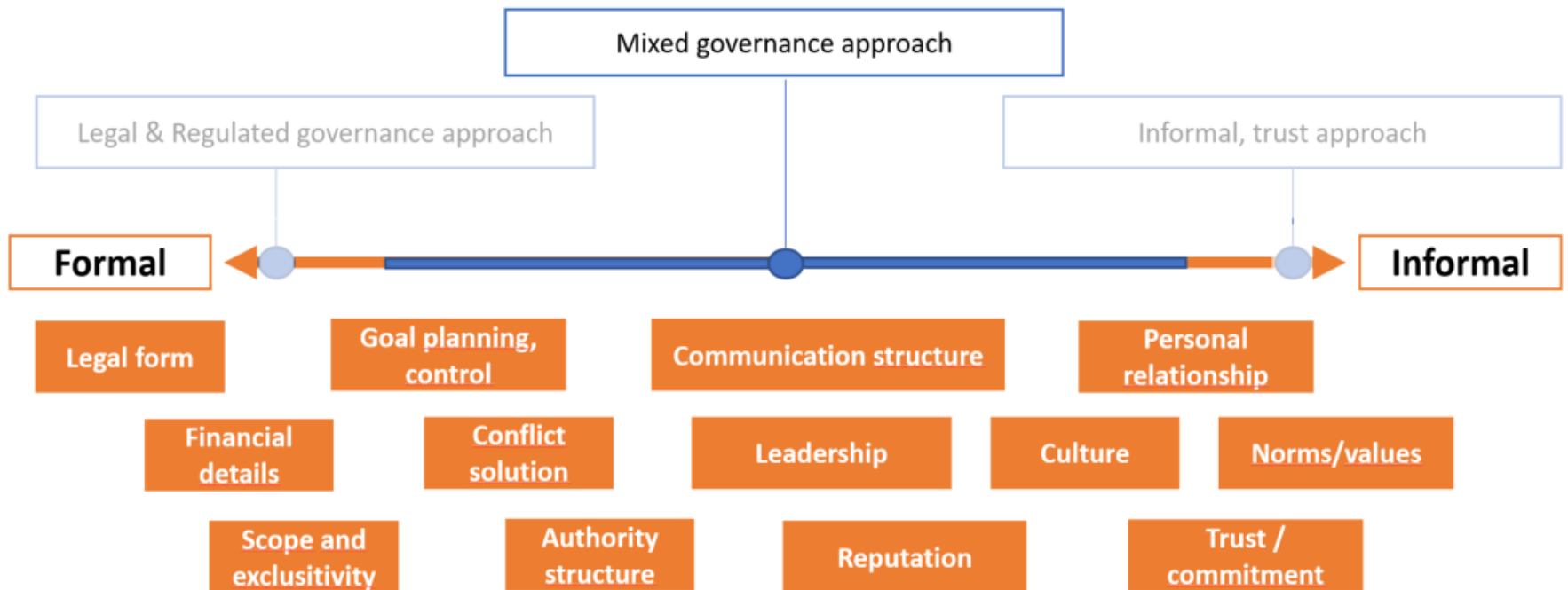
Business models



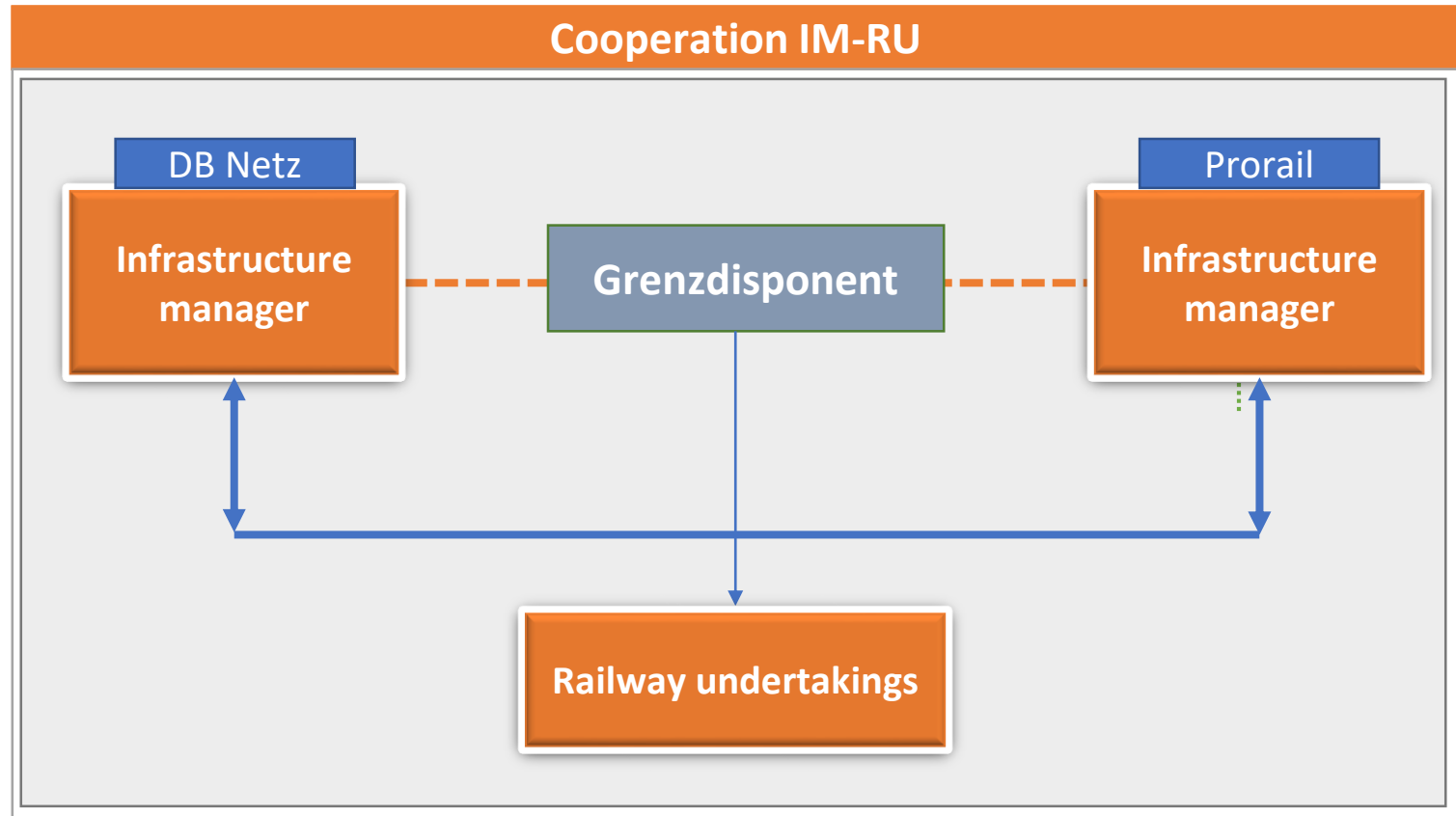
Business model in Smart-Rail



Governance model



Cooperation IM->RU



New technologies and technical devices

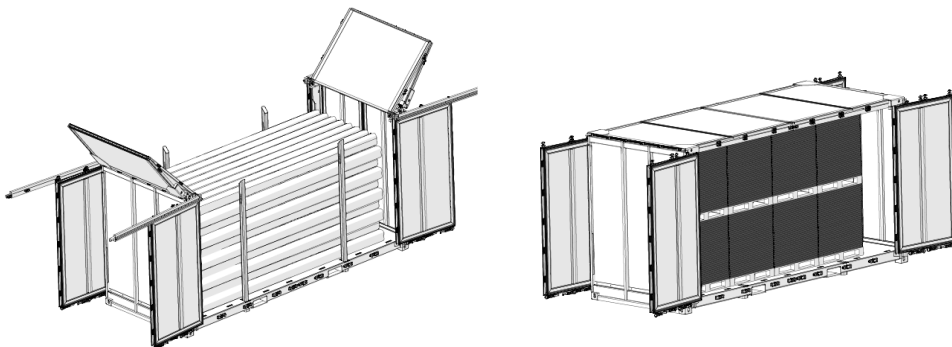
ContainerMover



Modalohr



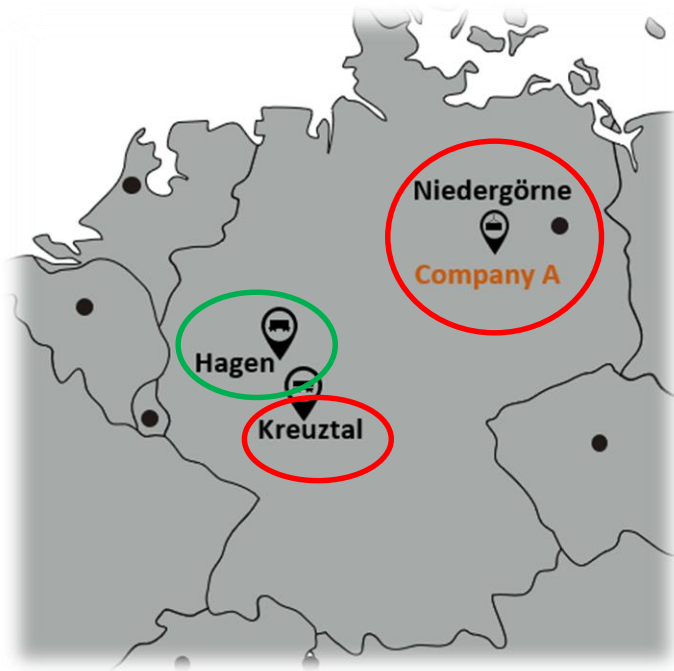
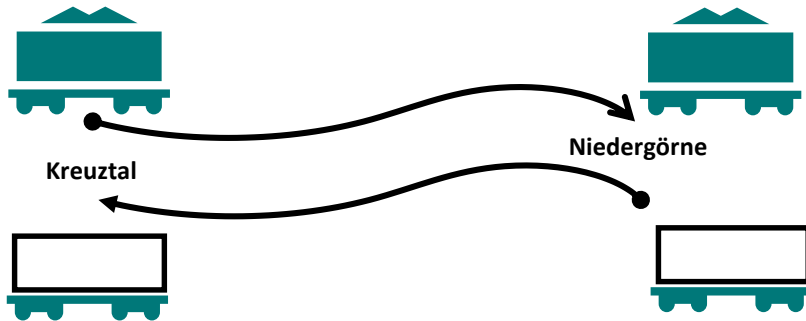
Euroflat



CargoGoTram Dresden



Euroflat solution



		
Traction	16.142€	17.642€
Wagon	2.274€	2.505€
Boxes		2.358€
Shunting	1.000€	2.000€
Cost/train	19.416€	24.506€

↓

1206t

Tonnes/trip

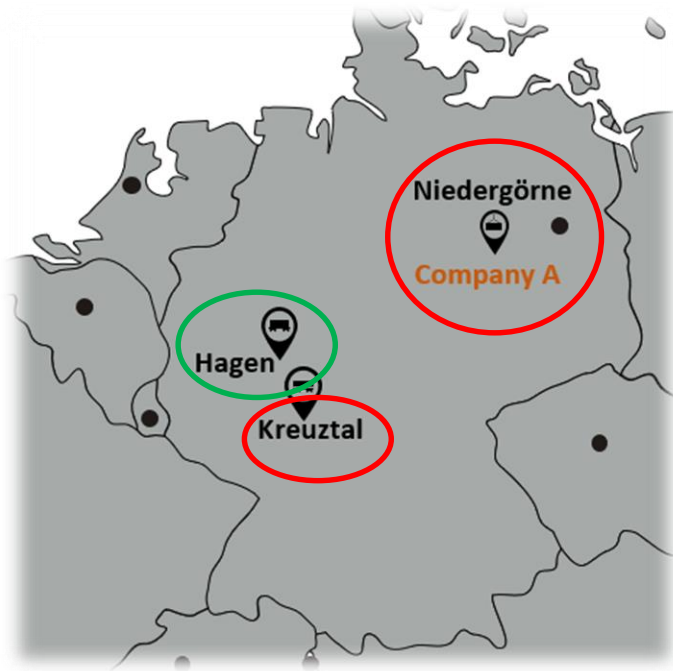
60% more
tonnes/trip
with Euroflat
solution

↓

1992t

Tonnes/trip

Euroflat solution



		
Traction	16.142€	17.642€
Wagon	2.274€	2.505€
Boxes		2.358€
Shunting	1.000€	2.000€
Cost/train	19.416€	24.506€



16.3€/tonne

€/tonne

25% lower costs/tonne with Euroflat solution



12.3€/tonne

€/tonne

European policy

- Evaluation of the EU policy and regulatory bottlenecks

Harmonisation

Liberalisation

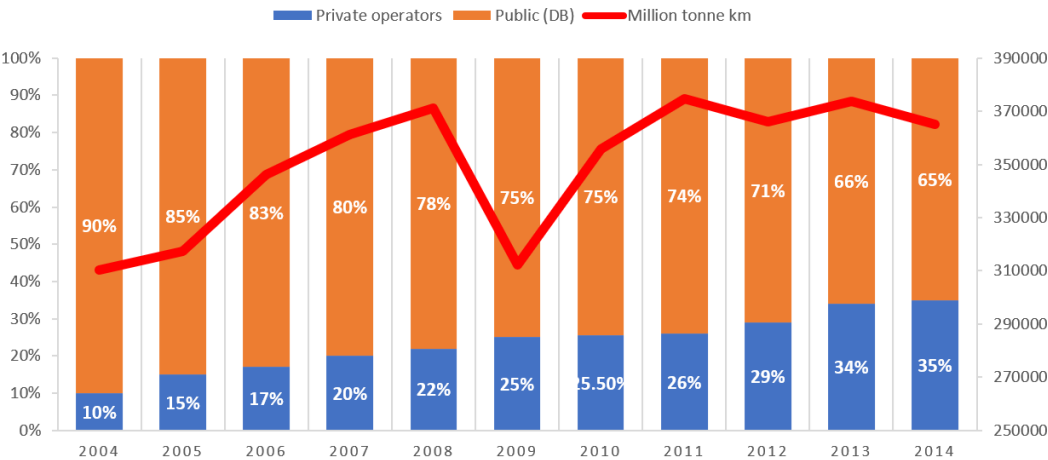
Interoperability



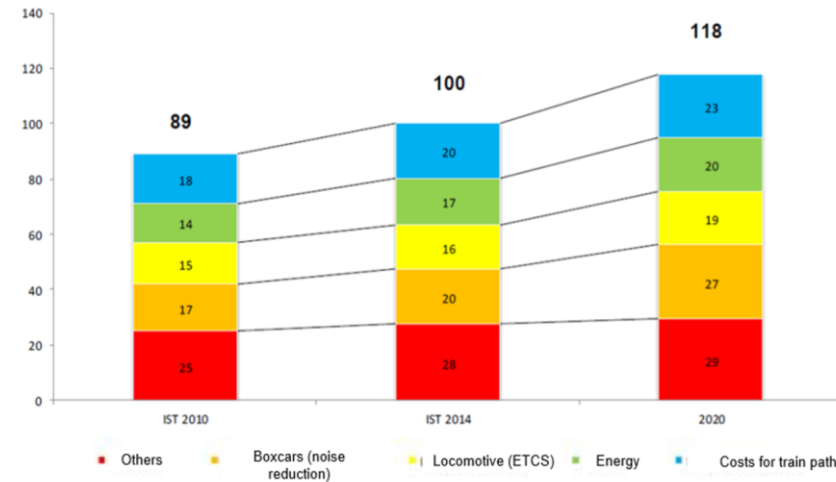
Cooperation & competitiveness of railways?

Liberalisation (share of public vs. private operators)

LIBERALISATION EFFECTS IN GERMANY



Train cost / segment



Source: Allianz pro Schiene

Rastatt

A need for:

- Neutral coordinator
- IT platform (not just for freight, also locos, drivers, train paths, coordination...)
- Improved communication

General cooperation between RU's
(new business models to overcome disruption)

SBB and DB Cargo
increased cooperation ->
freight shuttle service
Stuttgart-Zürich
SBB Cargo-IGE (public-
private cooperation)



EU Policy problems exposed

Language

Missing infrastructure

Locomotives

Loco drivers

Train slot
availability

Lack of communication IM-IM and consequently RU

Lack of communication on (inter)national
level; no real alternatives or **contingency plans**

Implementation plan

Implementation plan – Roadmap towards cooperation and modal shift

