



9-12 JUNE  
STOCKHOLM 2019  
GLOBAL PUBLIC  
TRANSPORT SUMMIT



# Open Data since 2010 - Swedish Success Factors and Lessons Learnt

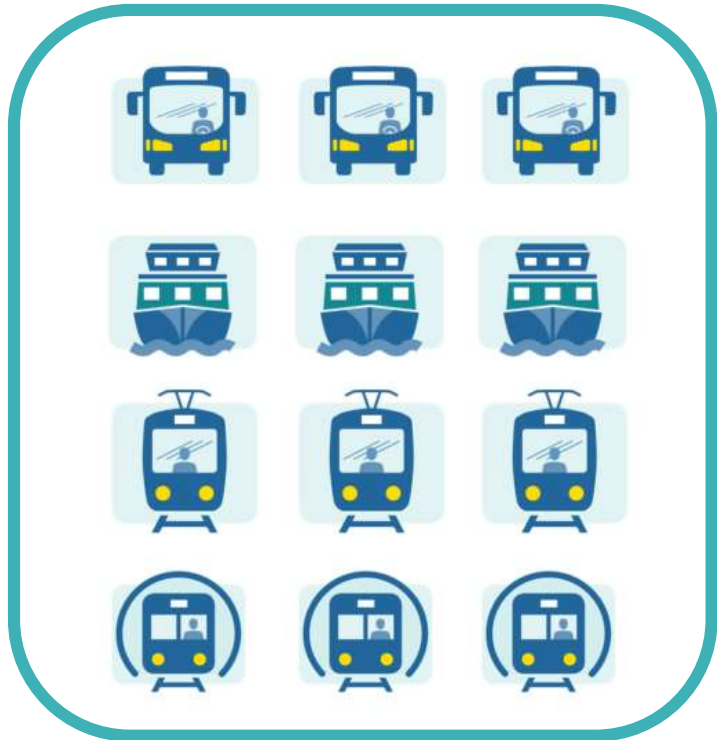
Ulf Bjersing,

CSO

Hogia Public Transport Systems AB



# REGIONAL FOCUS FIRST



Very large proportion of the travelling takes place **within** a region

# CLOSE INTERACTION WITHIN REGION REQUIRED



Public  
Transport  
Authority



PT Operator

PT Operator

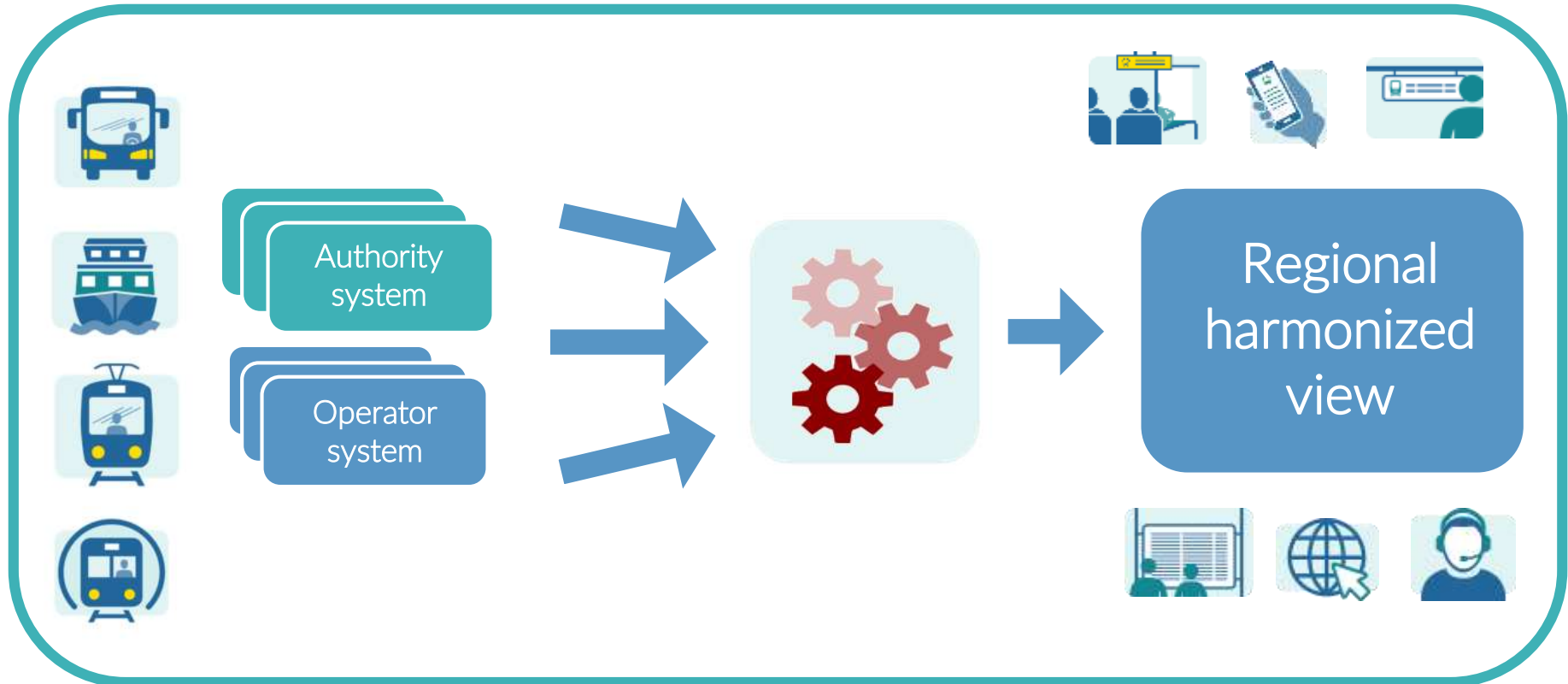
PT Operator



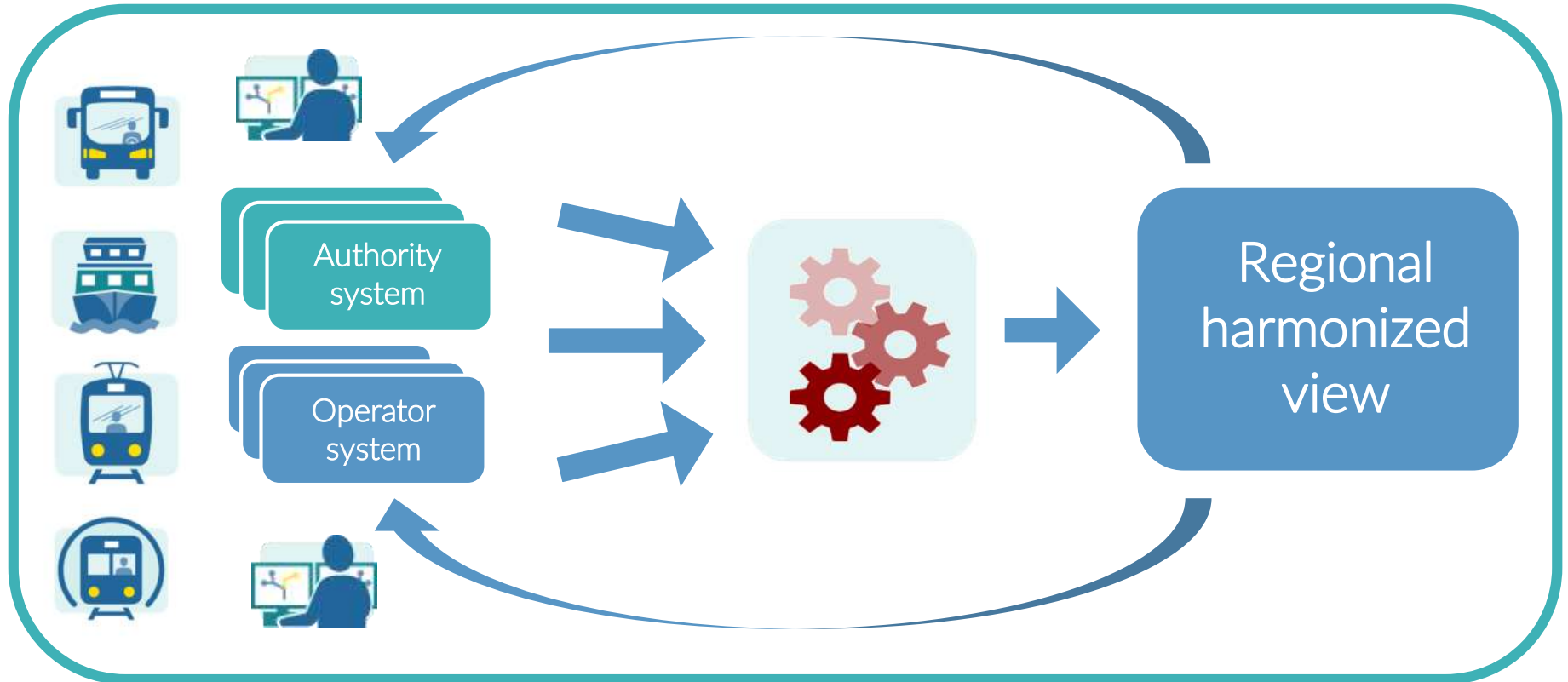
- Large proportion tendered operation  
= PT Operators working for PT Authority
- Different needs in different regions



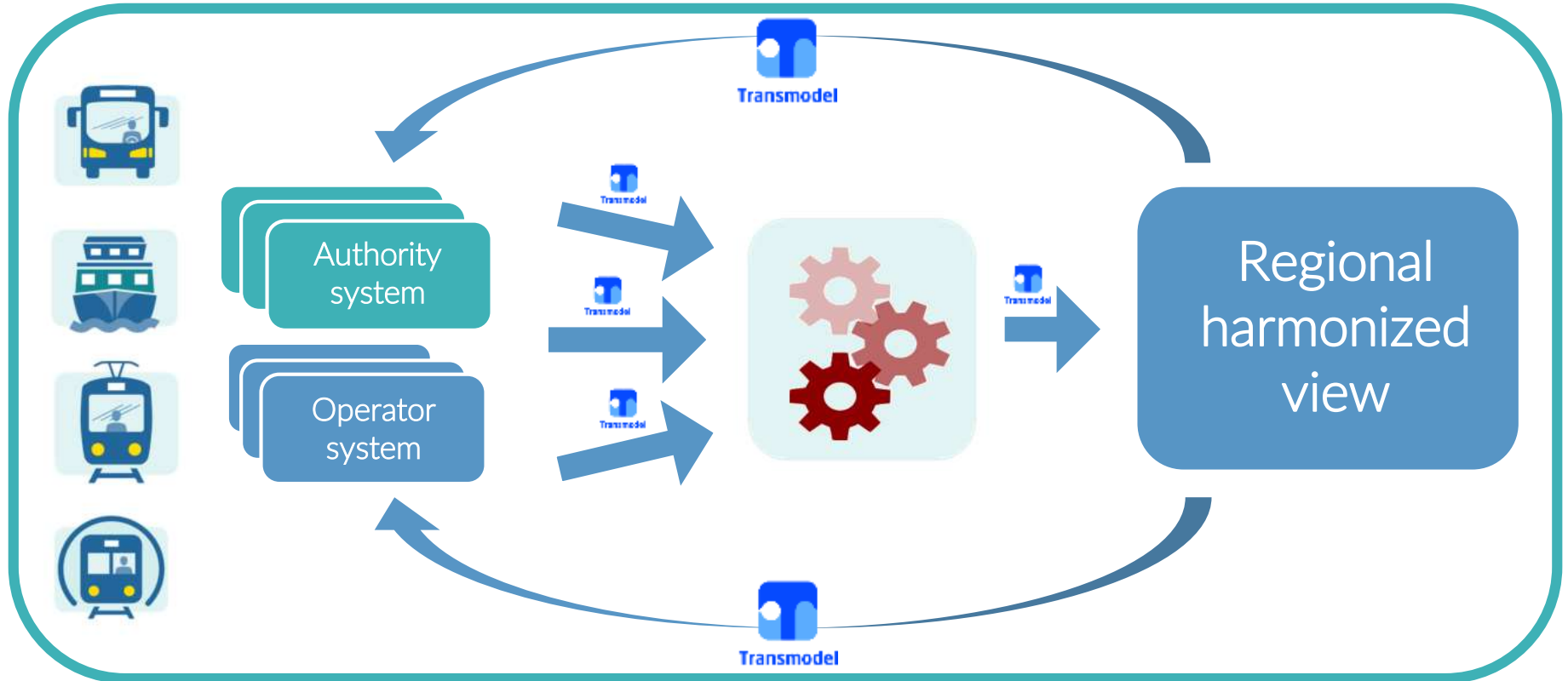
# REGION ACTING AS ONE SYSTEM



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# USING TRANSMODEL BASED DATA EXCHANGE PROTOCOLS



# TRANSMODEL - EUROPEAN STANDARD EN12896



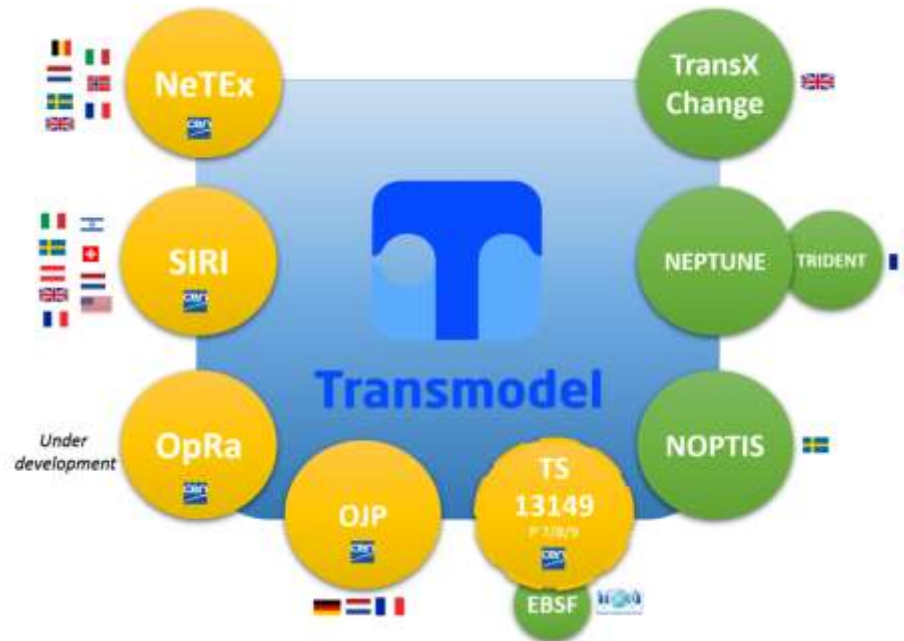
A common language for  
Public Transport Information



**Transmodel**

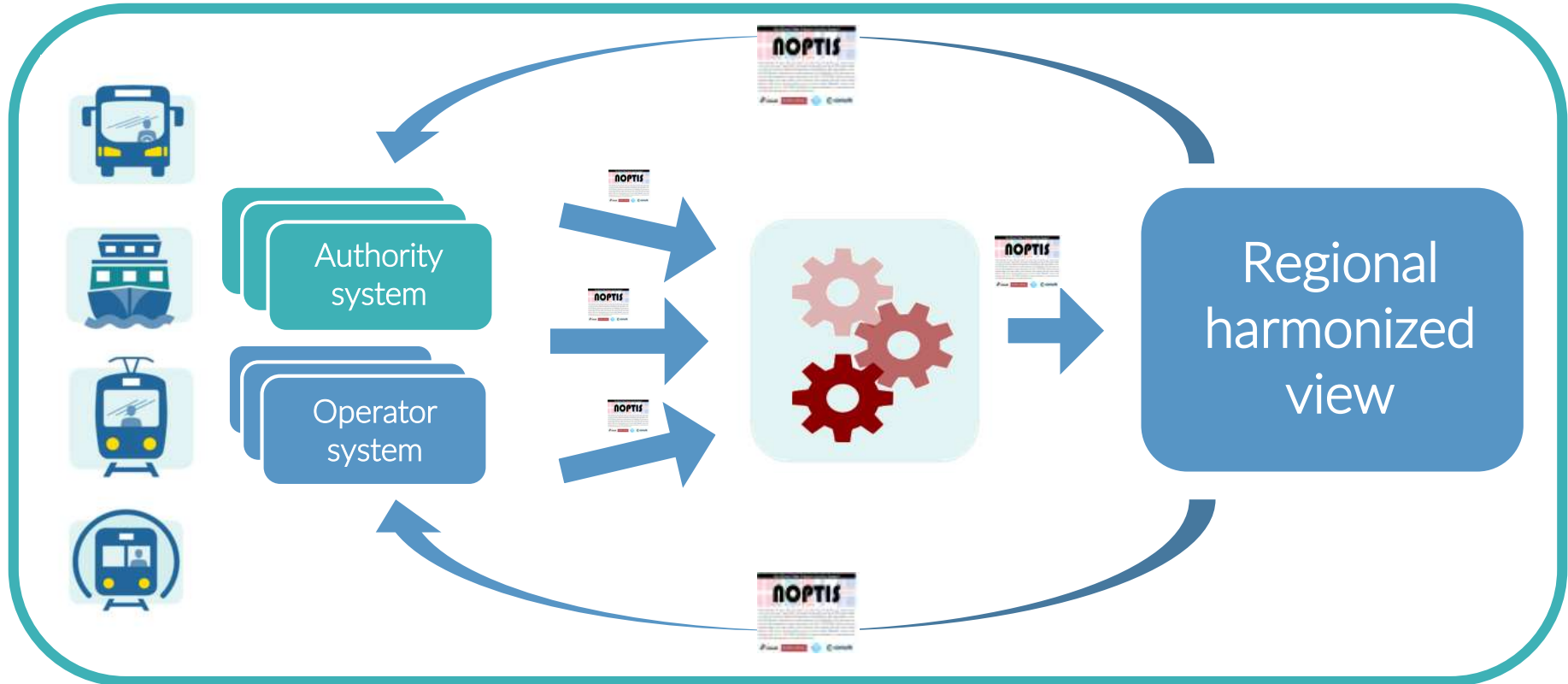
# TRANSMODEL - EUROPEAN STANDARD EN12896

A foundation for Public Transport Data Exchange Protocols

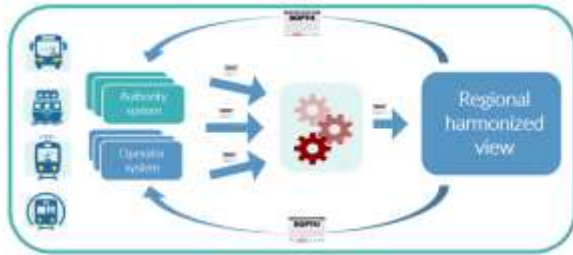




# MANY SYSTEMS – ONE REGION



# READY-MADE REALTIME



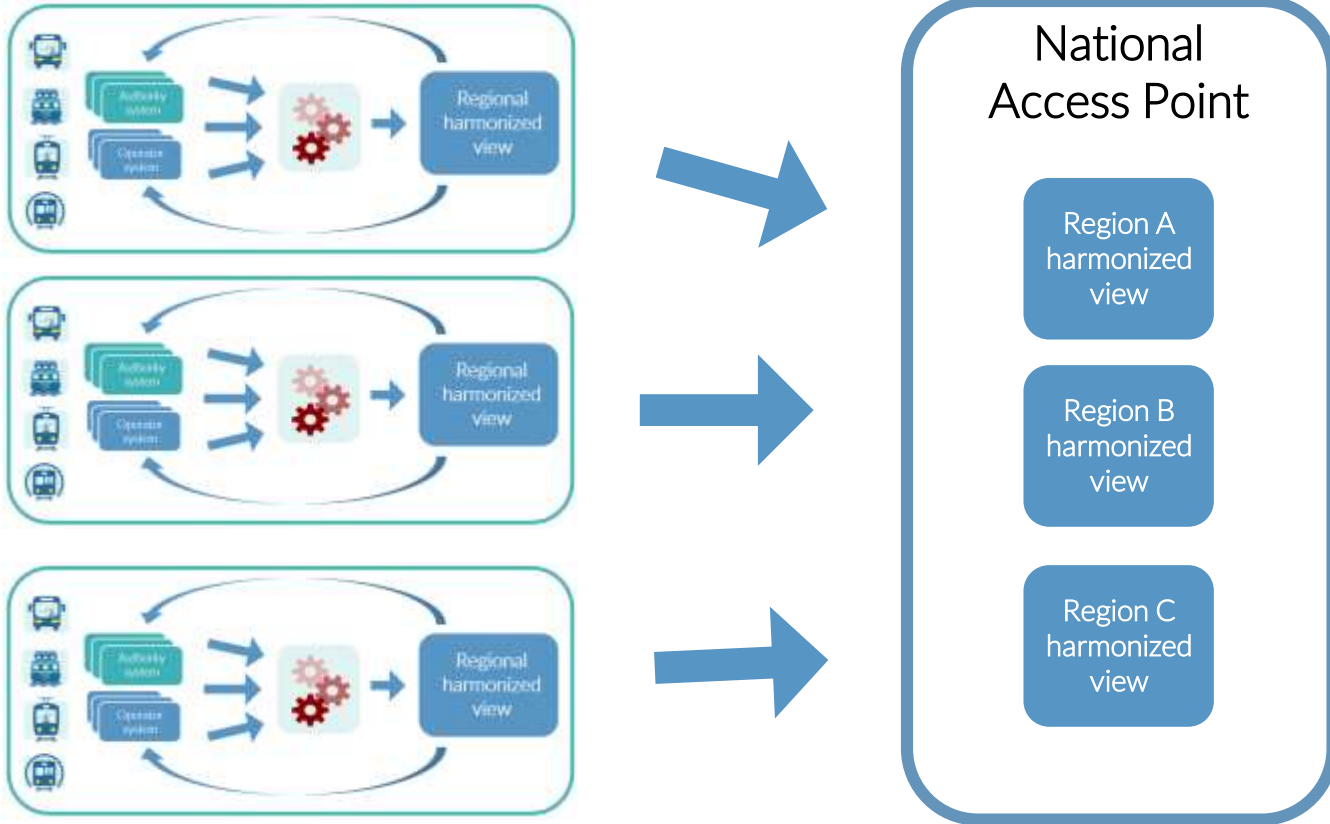
Real-time and  
planned data



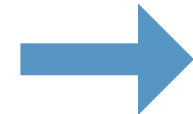
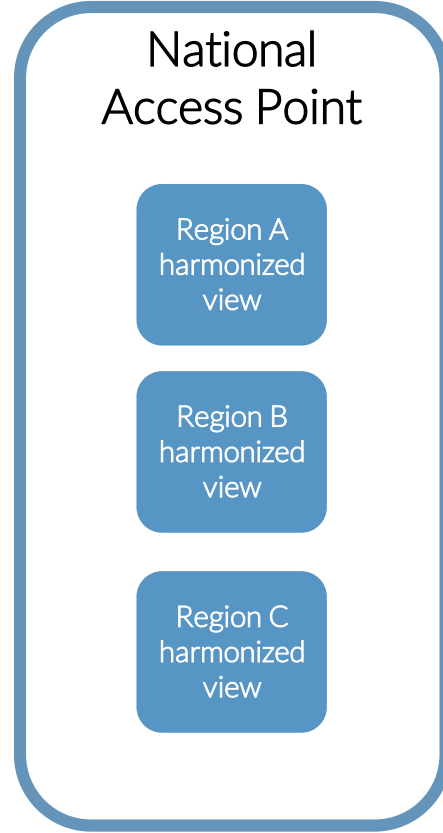
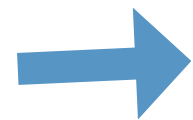
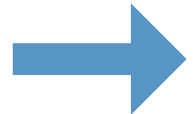
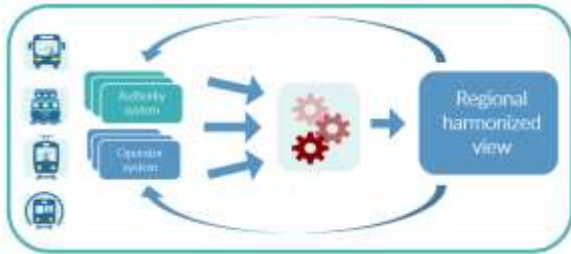
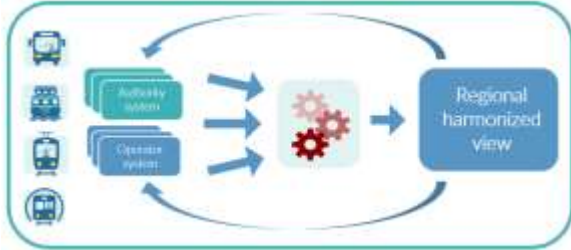
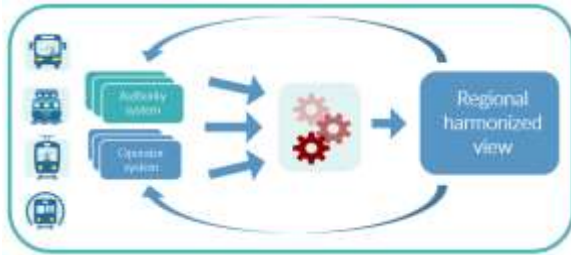
National  
Access Point

Regional  
harmonized  
view

# MANY REGIONS - ONE NATION



# MANY REGIONS - ONE NATION



Real-time and planned data

**OPEN DATA**

TRANSMODEL-based formats such as NeTex, NoPTIS and SIRI  
But also GTFS and GTFS-RT

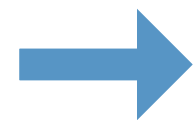
# MANY NATIONS – ONE EUROPE

## National Access Point

Region A  
harmonized  
view

Region B  
harmonized  
view

Region C  
harmonized  
view



NeTEx –  
European Profile  
for Passenger  
Information



# SUCCESS FACTORS AND LESSONS LEARNT

- Regional quality assurance and coordination
- Using appropriate standards and data formats
- Consistent and harmonized information



# THANK YOU

