



Transmodel

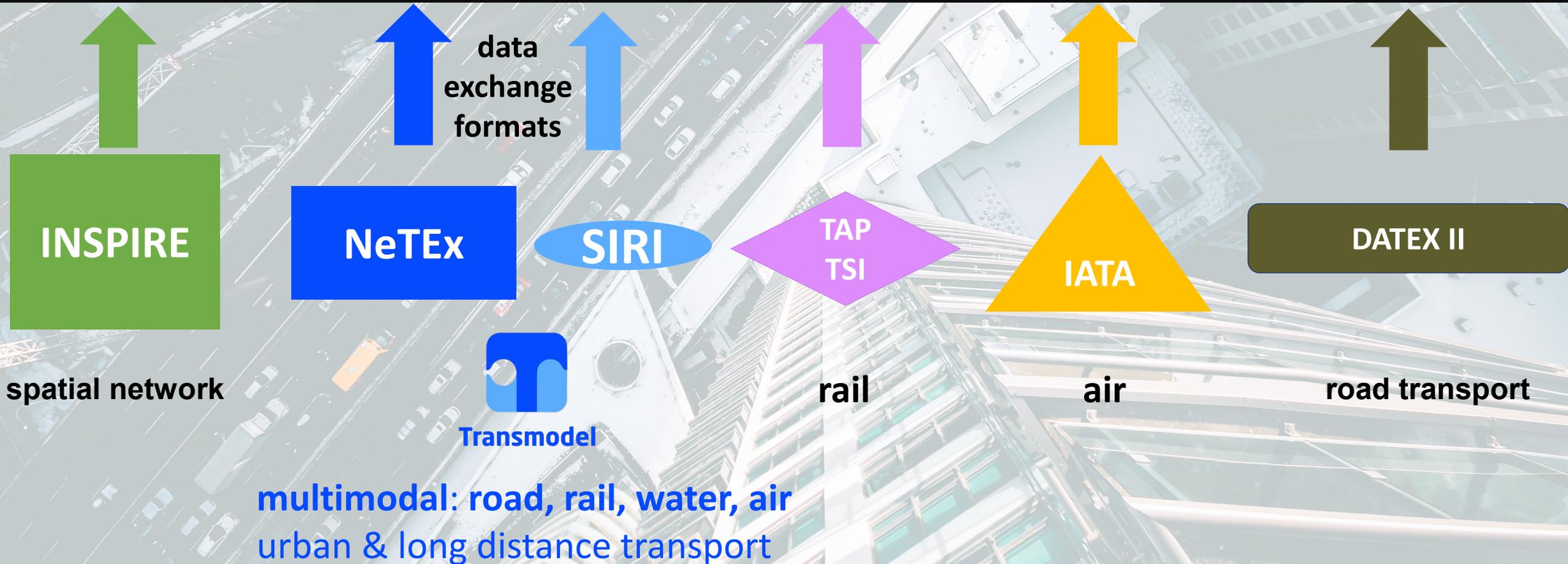
THE REFERENCE
LANGUAGE FOR
THE PUBLIC
TRANSPORT
DOMAIN

Kasia Bourée

Project Team INSPIRE support to MMTIS/ CEN TC278 WG3 SG4 Leader

Transmodel and the MMTIS Regulation

NATIONAL ACCESS POINT



PUBLIC
TRANSPORT
OPERATORS

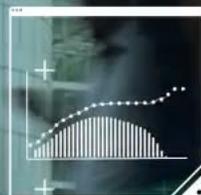
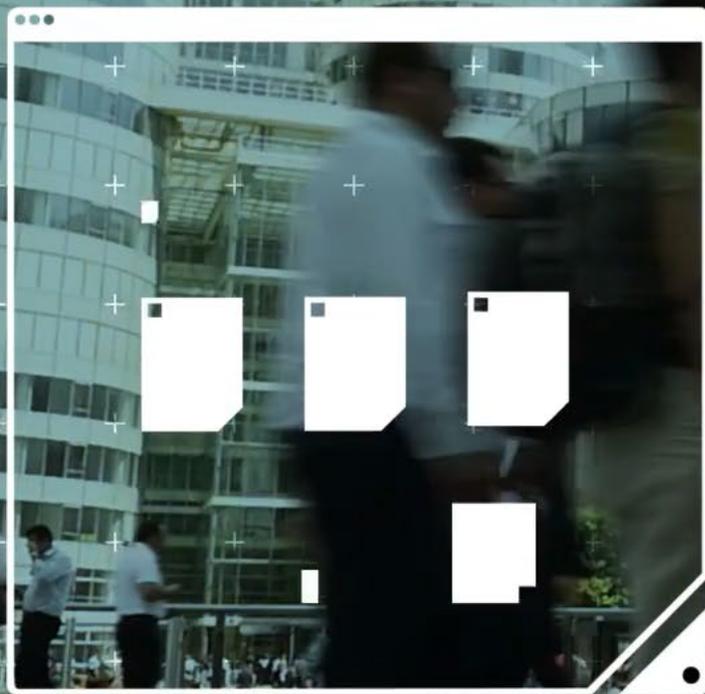


AGENCIES

INFORMATION
SERVICE
PROVIDERS

COMMON LANGUAGE

EASIER INTROPERABILITY



WIDE
RANGE
OF
SYSTEMS



EN

12896

sitp

2000

2005

2010

2015

2020

2006

EUROPEAN STANDARD



8 PARTS



COMMON CONCEPTS

uniform approach

GROUPING
VALIDITY
VERSIONING





NETWORK DESCRIPTION





TIMING INFORMATION





**OPERATIONAL
CONTROL**

MONITORING

P T

UBLIC T

RANSPORT

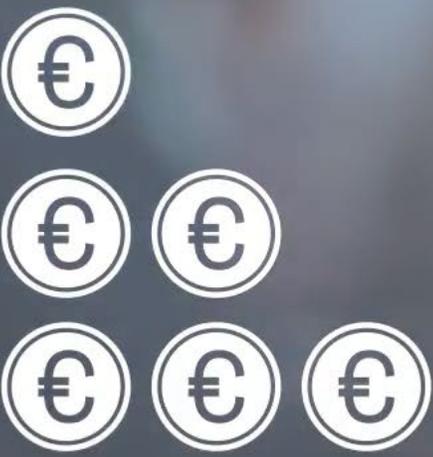
SERVICES



FARE MANAGEMENT



products



prices

PROPERTIES
CONTROL
AND
VALIDATION

FARE MANAGEMENT



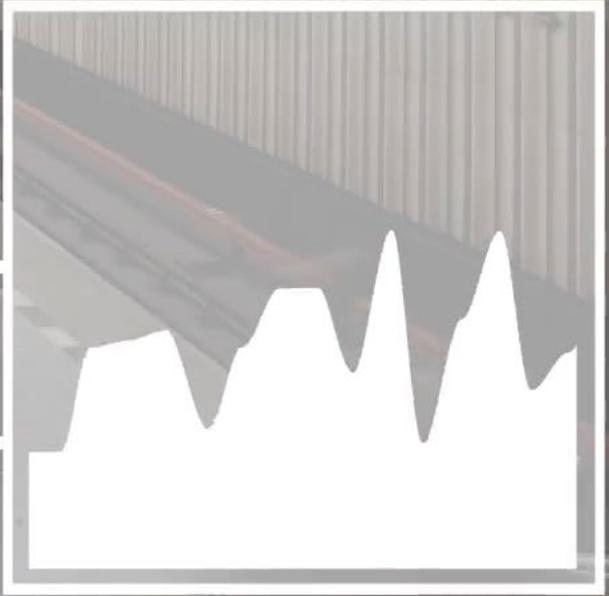
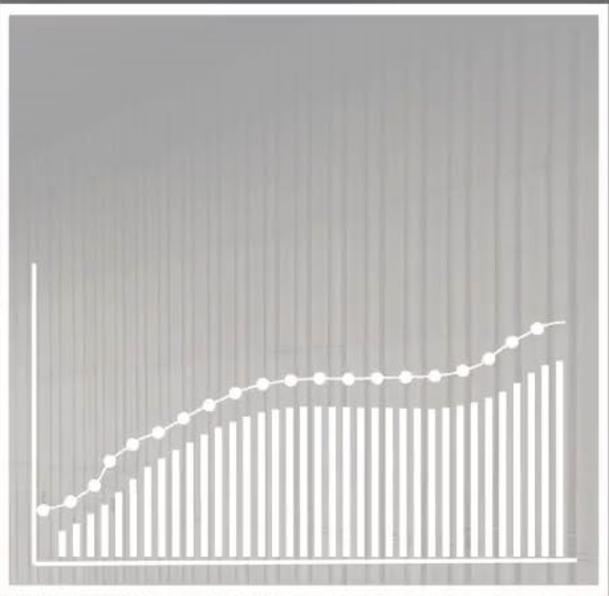
PASSENGER INFORMATION



DRIVER MANAGEMENT

COVERS

processes
and
records



MANAGEMENT INFORMATION & STATISTICS

measure
evaluate
PT services



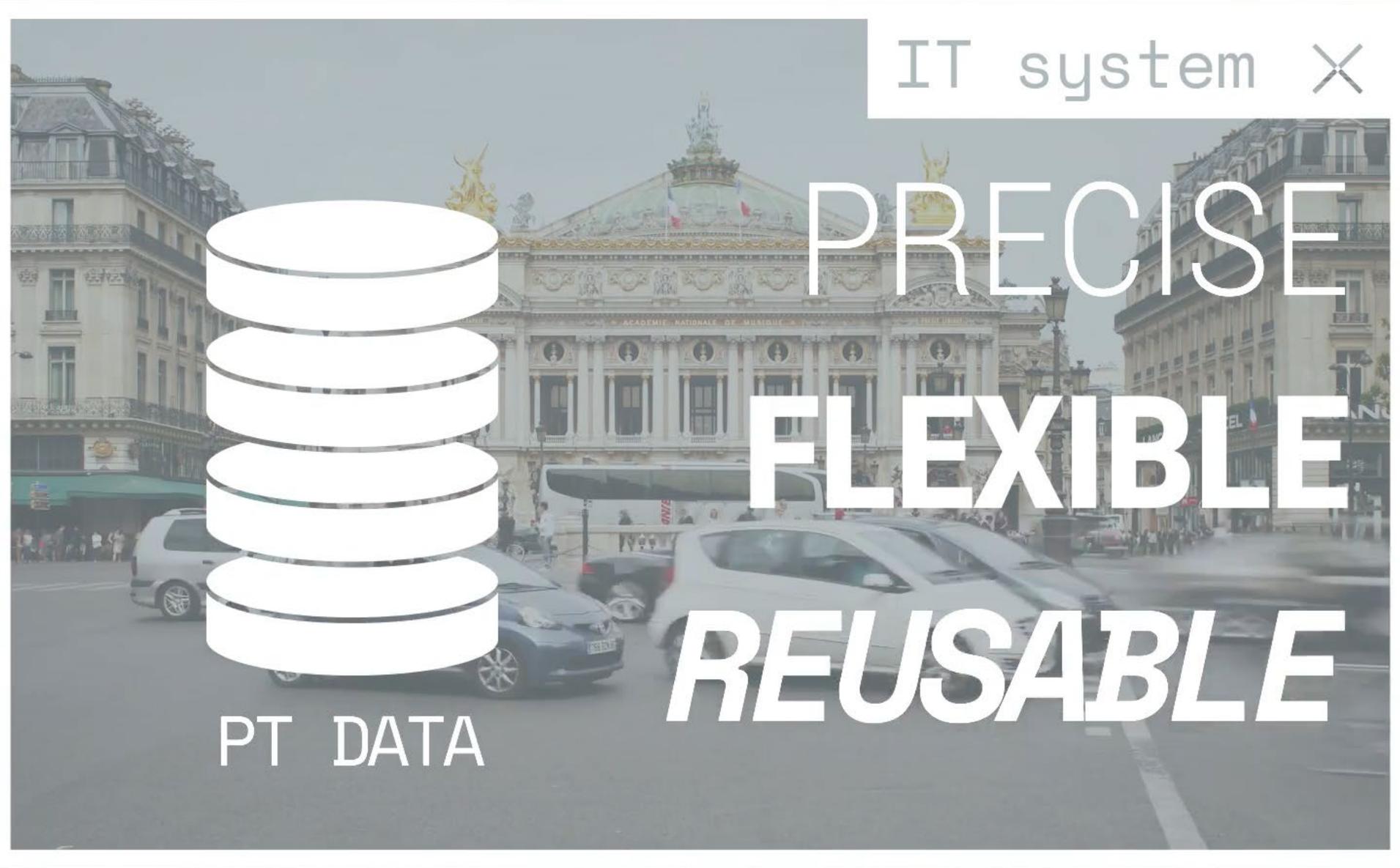


IT system ✕



PT DATA

PRECISE
FLEXIBLE
REUSABLE



compare
reconcile

EXISTING

INFORMATION
ARCHITECTURES

DATA EXCHANGE
INTERFACES

DATABASES



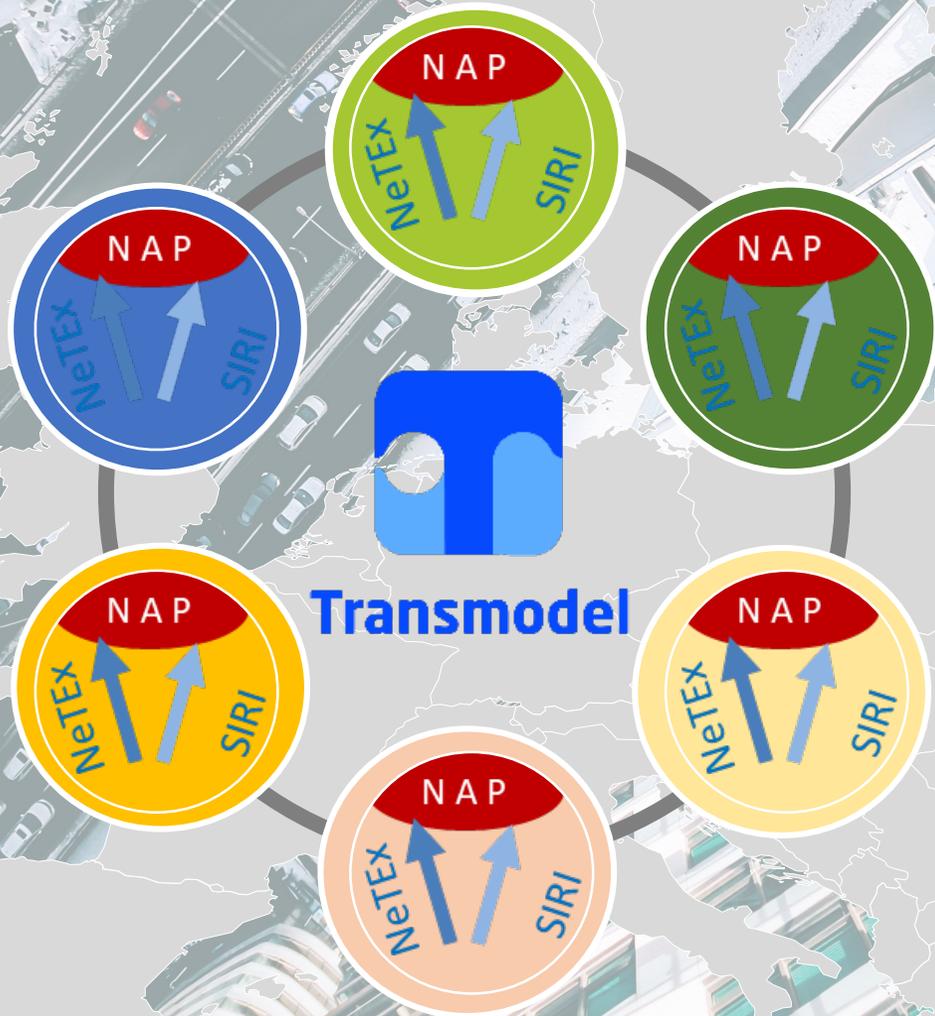
specify
NEW

specify
NEW

INFORMATION
ARCHITECTURES

DATA EXCHANGE
INTERFACES

DATABASES



NeTEx
cen



SIRI
cen



OJP
cen



Under development
OpRa
cen

**P1-P2-P3
Network,
Timing
Information &
Vehicle
Scheduling**

**P8:
Management
Information
& Statistics**

**P7:
Driver
Management**

**P6: Passenger
Information**

Transmodel
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**P4:
Operations
Monitoring &
Control**

**P5:
Fare
Management**

**TS
13149**
P 7/8/9
cen

**TransX
Change**
UK

NEPTUNE

TRIDENT
FR

NOPTIS
SE



EBSF

ROAD INFRASTRUCTURE

INSPIRE



GDF



ROAD TRAFFIC INFORMATION



Measured
elaborated
data

DATEX II

VMS

Location
Referencing

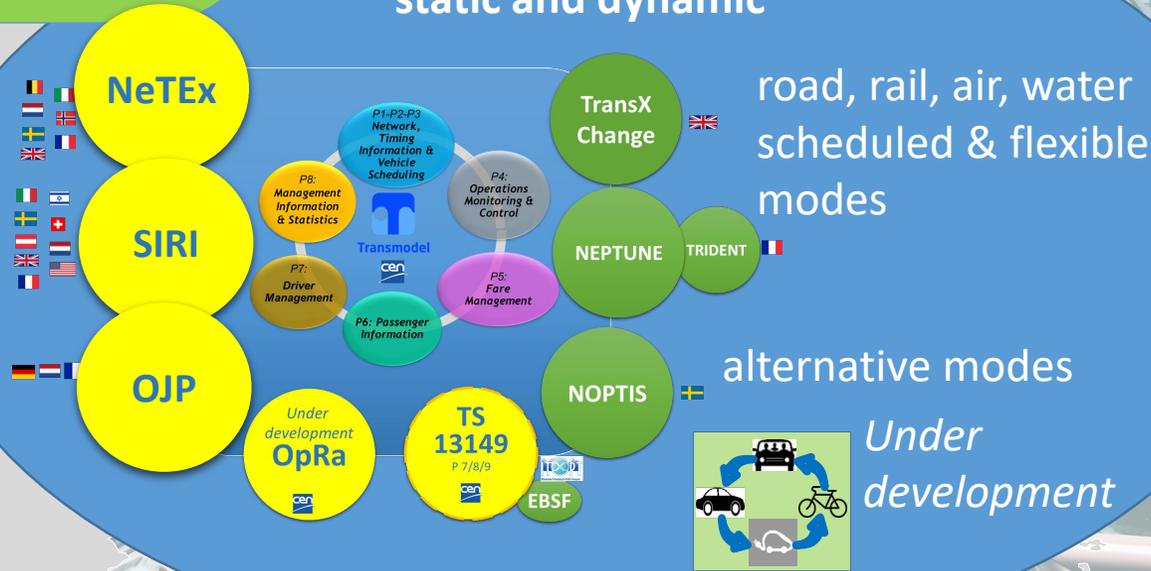
Parking

Situation

AIR TRANSPORT



PUBLIC TRANSPORT static and dynamic



RAIL TRANSPORT

long distance
TAP - TSI





Thank you for your attention

See also www.transmodel-cen.eu