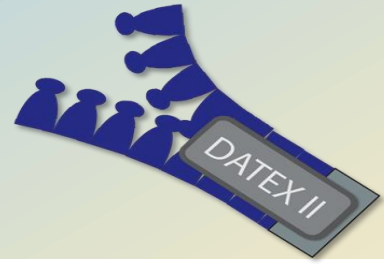


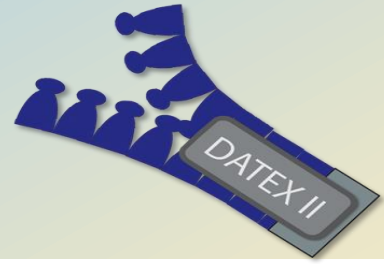
WHAT CAN DATEX II DO FOR YOU?

DATEX II 4 dummies by Bard de Vries



- Developments in the information chain
- What is DATEX II?
- DATEX II 4 dummies
- Why DATEX II is a sound basis
- Now what to do?

Developments in the chain



From traffic service provider to data and information provider

- ▣ ITS Directive + Delegated Act
- ▣ Open data

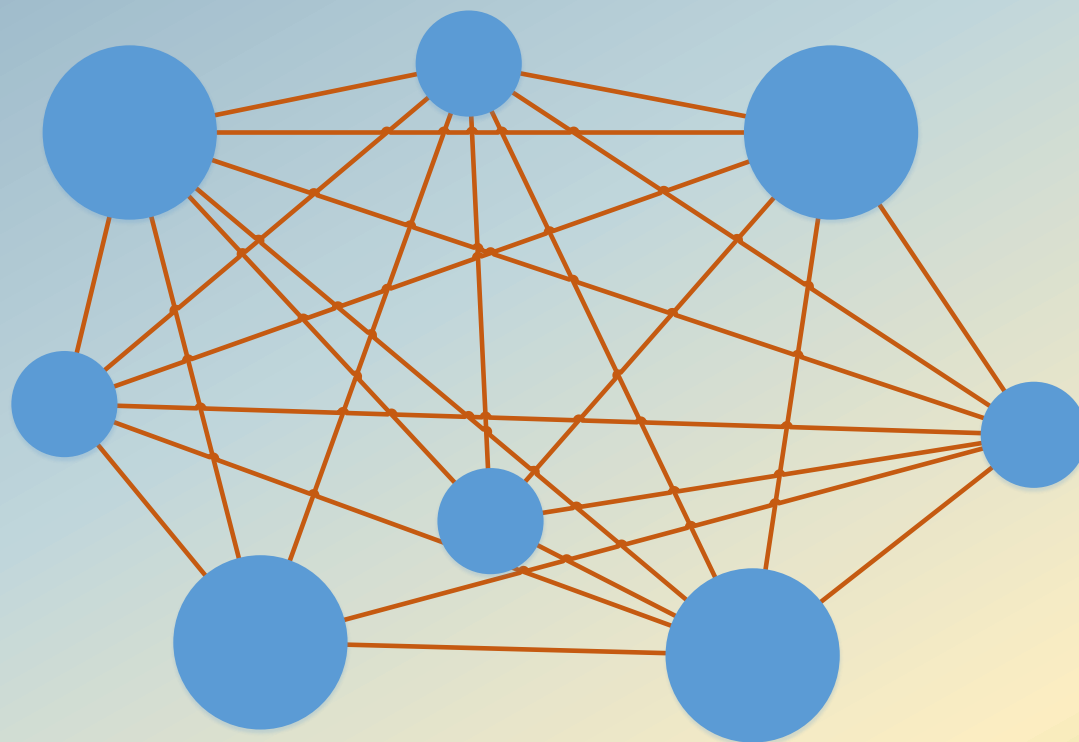
From single modality information services to multi modal information services

From single roadnetwork operator information to heterogeneous roadnetwork information services

Urge to cooperate across borders shifts from motorway operator borders to roadnetworkoperator borders

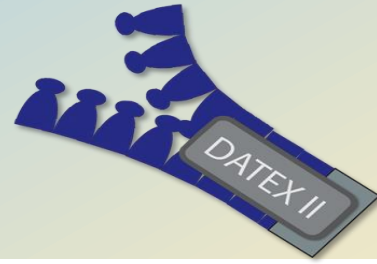
The will to cooperate requires standardisation of interfaces on the border

8 systems 28 interfaces

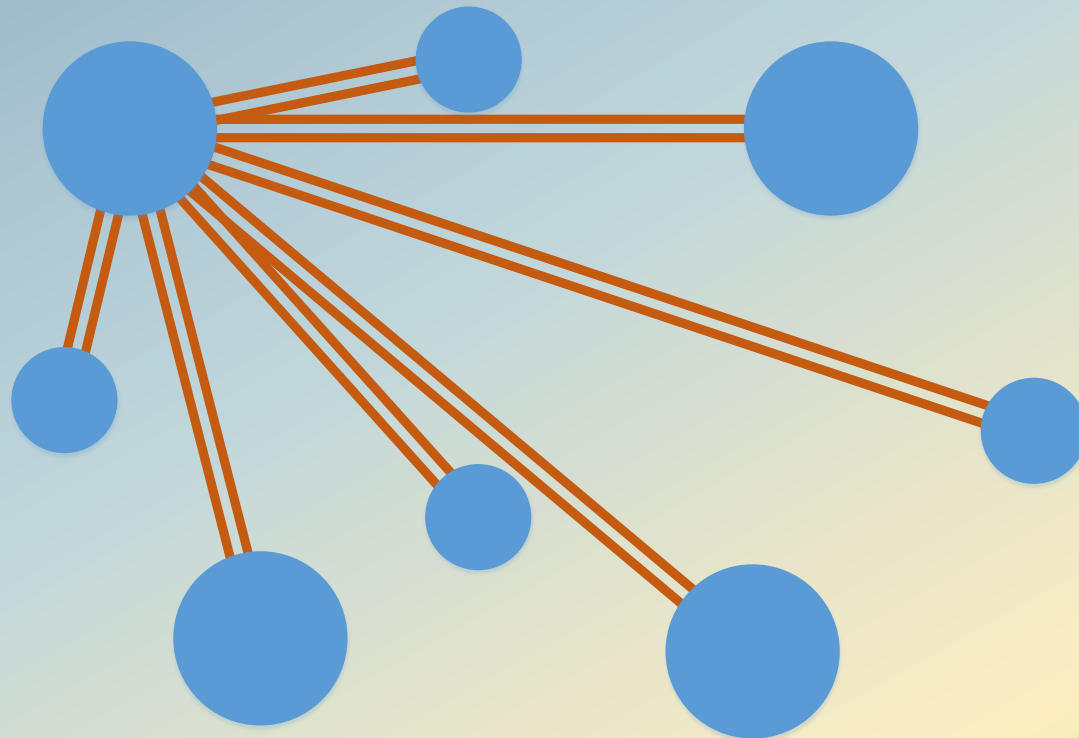


- Each actor has to maintain receiving asynchronous different interfaces in terms of:
 - ▣ Information model
 - ▣ Location referencing standards

It could be worse



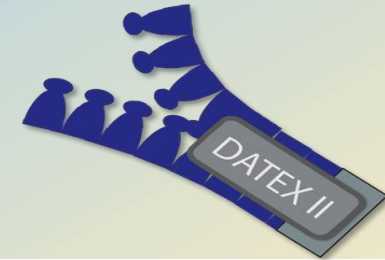
1 operator 7 outgoing and 7 incoming all different



Resulting in

- 56 different interface implementations
- Risk of
 - ▣ Misinterpretation
 - ▣ Loss of information
 - ▣ Very complex system environments
 - High maintenance costs
 - High risk of failure

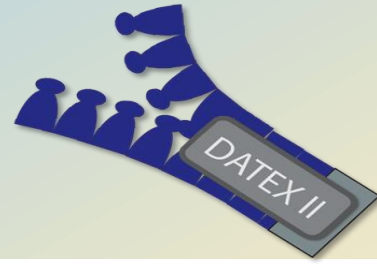
And this will happen!





What is DATEX II in functional terms

- ❑ The reflection of the will to cooperate
- ❑ A well functioning platform that transforms this into deployable standards
- ❑ Coming from NRA motorway operators
- ❑ Open for all stakeholders



- ❑ E- language for traffic and travel information to exchange language and presentation method independent
- ❑ Focus on exchange between TCC – TCC/TIC and TIC-SP
- ❑ Like a spoken language: grammar and phrasebook
- ❑ Maintained by stakeholder community
- ❑ Stable parts are standardised
- ❑ Local additions are facilitated

What does DATEX II do?

- It is like communication via a letter:



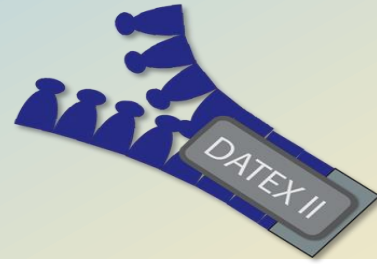


What is DATEX II in this perspective?

- DATEX II = language and paper
- Postal system: uses standard IT
 - ▣ One envelope type is developed (XML)
 - ▣ One transport type is defined in two flavours
 - Pull (webservices and simple http)
 - Push
- Content is independent from postal system
- If required other delivery methods can be de



The content part of DATEX II



- DATEX II covers:
 - Roadworks
 - Traffic Management actions (manual and automated)
 - Congestion information
 - Parking information
 - Weather data (rain, snow, wind, dust etc.)
 - Detector data per second or per vehicle
 - Traveltimes
 - VMS settings
 - Involved cars in accidents and characteristics of injured
- It is a language: simply providing phrasebook and grammar is not sufficient

What do you have to do?

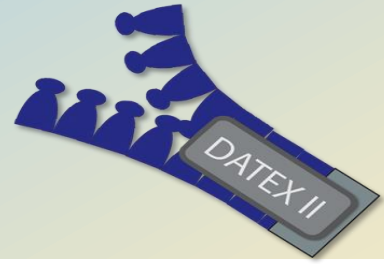
Step by step approach



Start with defining your information service in functional terms:

- ▣ With who are you going to exchange
- ▣ Agree on the language
- ▣ What is the Roadnetwork
- ▣ What Information on that Roadnetwork
- ▣ Do you really have the information?

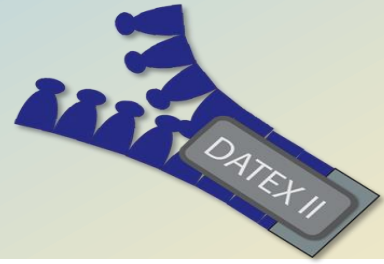
The next steps



- Determine the operational level of the service
 - ▣ Operations supported
 - ▣ Timeliness requirements
 - ▣ Strong coupled or loose

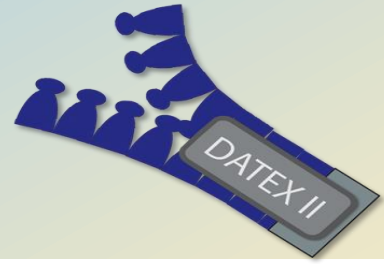
- Determine the locationreferencing method used
 - ▣ TMC, Agora-C, linear, Open-LR, TPEG

DATEX II is a sound basis



- ❑ CEN Standardised
- ❑ Clear framework for the traffic information language
- ❑ Maintained by stakeholders themselves with clear procedures
- ❑ Clear and (never)complete information model
- ❑ Open method to adapt new requirements
- ❑ Clear split between content and technology
- ❑ Uses standard IT solutions for non traffic specific requirements

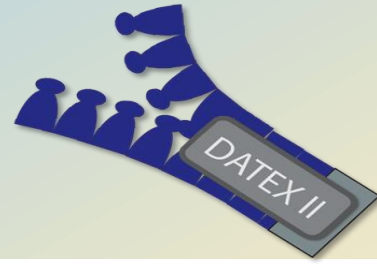
And then.....



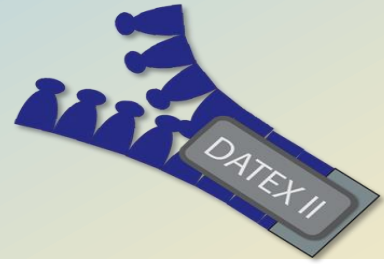
Go to www.datex2.eu

- ❑ Register
- ❑ Look for a fitting profile
- ❑ Or create one yourself after downloading all stuff. But... This is not a rooky exercise.
- ❑ Create extensions if needed
- ❑ Use the DATEX II website and available fora to ask the specialists

DATEX II and other standards



- Tight relation with ISO working group especially on exchange between traffic centres
 - ▣ The possibility to ISO standardise the content part is perceived to be rather limited
- Relation to TPEG
 - ▣ TPEG is standard for a specific set of end-user services. It can be fed by some parts of DATEX II (but surely not all)
 - ▣ Close liaison is established to ensure interoperability for safety related information
- Relation to ETSI
 - ▣ Development of cooperative standards esp. V2x. For x=I tight cooperation is required to ensure interoperability



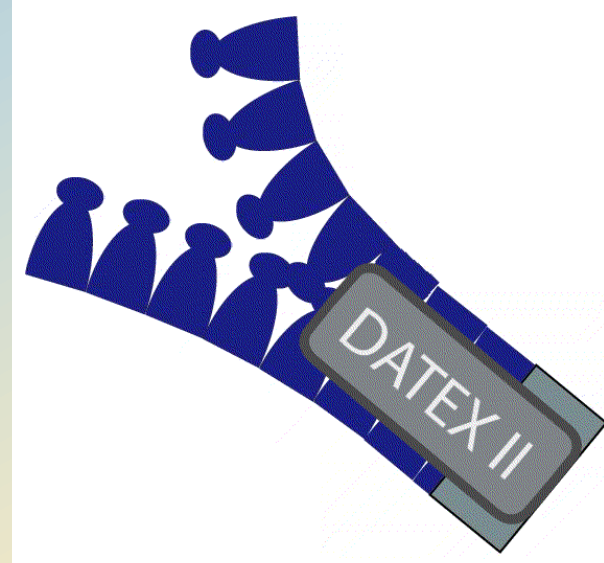
- Working on a sustainable home with longterm funding commitment
- Start working on DATEX II version 3 (CEN prescribed)
- Finalising the New Exchange
 - ▣ Support for information publication
 - ▣ Support for cooperating ITS services
- Strong usersupport for EU ITS directive actions in terms of guidelines and profiles
- Close liaison with other modalities to enable together multimodal traveller information services



Certified DATEX II rooky

Assigned to:

Participants DATEX II 4 dummies session



DATEX II Userforum 2014

European ITS Platform

Prague, 19 May 2014
