DATEX II ITP profile implementation experience

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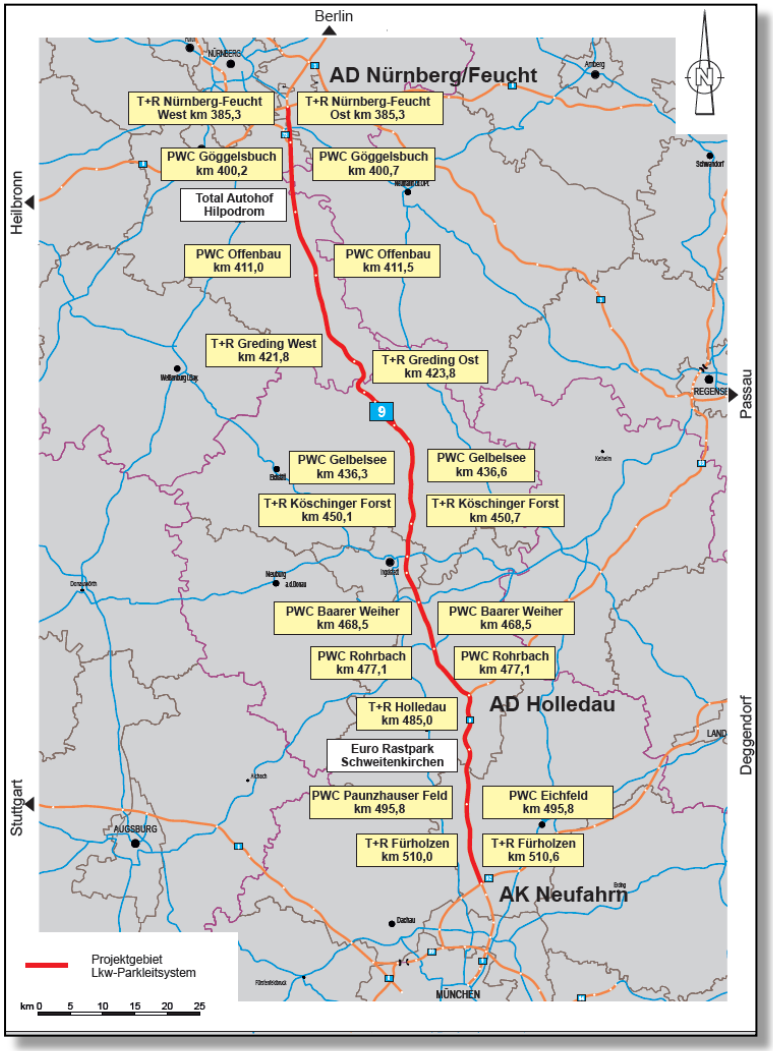
Reason for DATEX II ITP profile implementation
ITP Munich/Nuremberg – project overview

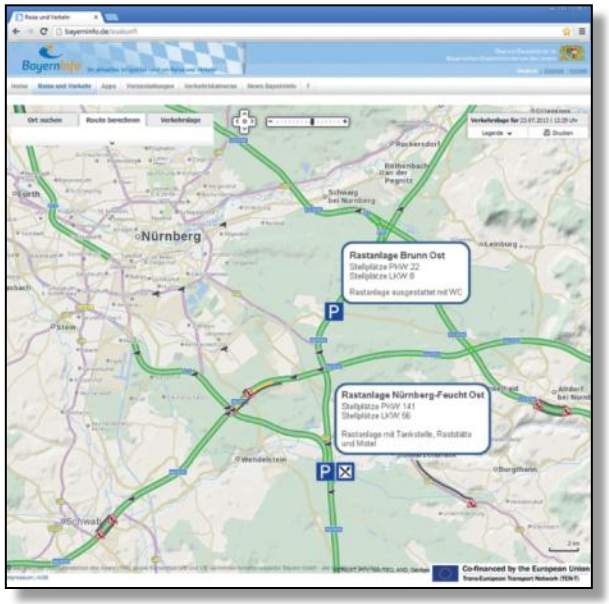
- Equipment:
  - 21 rest areas with automatic detection system as basis for calculating real-time truck parking spaces availability
  - 2 private „Autohöfe“ included via SMS-server

- Project goals:
  - Optimal usage of existing parking capacity
  - Avoidance of park search traffic
  - Directed approach to rest areas still having parking spaces available



ITP Munich/Nuremberg – publication media

- Publication of ITP information
  - Internet
  - Mobile devices
  - Information stands
  - Radio broadcasting
  - On-board units
- Interface for data subscribers
  - DATEX II with connection to member state single point of access MDM



ITP Munich/Nuremberg – DATEX II (1)

- **Letter of approval for pilot project received in January 2013:**
  - DATEX II has to be implemented for ITP-data transmission to the German single point of access **MDM**
  - But in January 2013 no DATEX II ITP profile did exist

    (but was already under development)

  - Because of this we could only demand a DATEX II implementation in a vague way in our public tender documents (and fortunately we did not receive specific DATEX II questions from tenderers)

ITP Munich/Nuremberg – DATEX II (2)

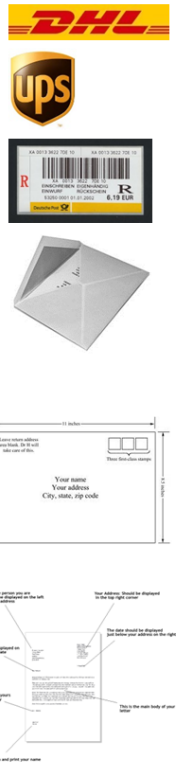
- To find an independent consultancy company which is able to support you in specific DATEX II tender documents (content, expected costs etc.) …
  - …is not an easy task! DATEX II is not the most widely used standard in the world (up to now)
  - We also organised a one-day workshop to better understand DATEX II

ITP Munich/Nuremberg – DATEX II (3)

- DATEX II is like a swiss army knife - you can do everything with DATEX! Wow!
  - It defines the communication protocols to be used
  - It defines the language to be used
  - It defines the georeferencing systems to be used
  - It defines the content to be used – and the data model is really huge!

ITP Munich/Nuremberg – DATEX II (4) - analogy

DATEX II	Postal Delivery
Transport Protocol (e.g. SOAP, HTTP..)	Post service provider and transport type (e.g. UPS, DHL and e.g. registered letter with reply advice or standard letter)
Data Encoding (XML)	envelope (the packing of the data)
Data Schema (XSD)	basic rules for the envelope and its content (e.g. size of the envelope, location of sender and addressee etc.)
Data Model	vocabulary + grammar, i.e. the letter



ITP Munich/Nuremberg – DATEX II (5) - overcrowding

- Truck parking areas are often overcrowded
- DATEX II ITP profile must keep this in mind!
  - Distinguish between
    - Number of marked parking spaces and
    - Number of parking spaces incl. (tolerable) overcrowding figures

Name of rest area in pilot project	Number of marked truck parking spaces (End 2012)	Number of trucks counted in 2012 (actual occupancy figures)
T+R Nürnberg Feucht	136	174
PWC Göggelsbuch	52	82
PWC Offenbau	32	51
T+R Greding	71	97
PWC Gelbelsee	59	52
T+R Köschinger Forst	54	141
PWC Baarer Weiher	24	36
PWC Rohrbach	55	66
T+R Holledau	18	58
PWC Paunzhauser Feld	11	21
T+R Fürholzen	26	103
Sum	538	881

ITP Munich/Nuremberg – DATEX II (5) - profile implementation

- ITP profile is huge! Would be great if we could define **one common profile in UM**:
  - Slim common „vocabulary“and easy to understand „grammar“ (data model)
  - Keep data maintenance in mind!
  - Profile should make direct reference to Commission Delegated Regulation Nr.885/2013

  „provision of information services for safe and secure parking places for trucks and commercial vehicles“

The end

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