



## Enhancement of Hard- and Software of the Traffic Control Centre

### Best modernisation project: E21X

Hessen Mobil has been setting future-oriented standards for many years in the development, testing and targeted use of intelligent transport systems in order to increase the safety, efficiency, economy and environmental compatibility of transport continuously. Today, Hessen's motorways are intelligently connected routes equipped with the latest information and communication technology. The Hessen Traffic Control Centre (TCC) forms the central heart of this traffic infrastructure and thus offers optimal conditions for turning visions for the traffic of the future into reality.

In order to meet the increasing requirements on a modern, digital and intelligent traffic centre, Hessen Mobil has launched the project E21X, which is based on an innovative future concept for the modular enhancement of the TCC.

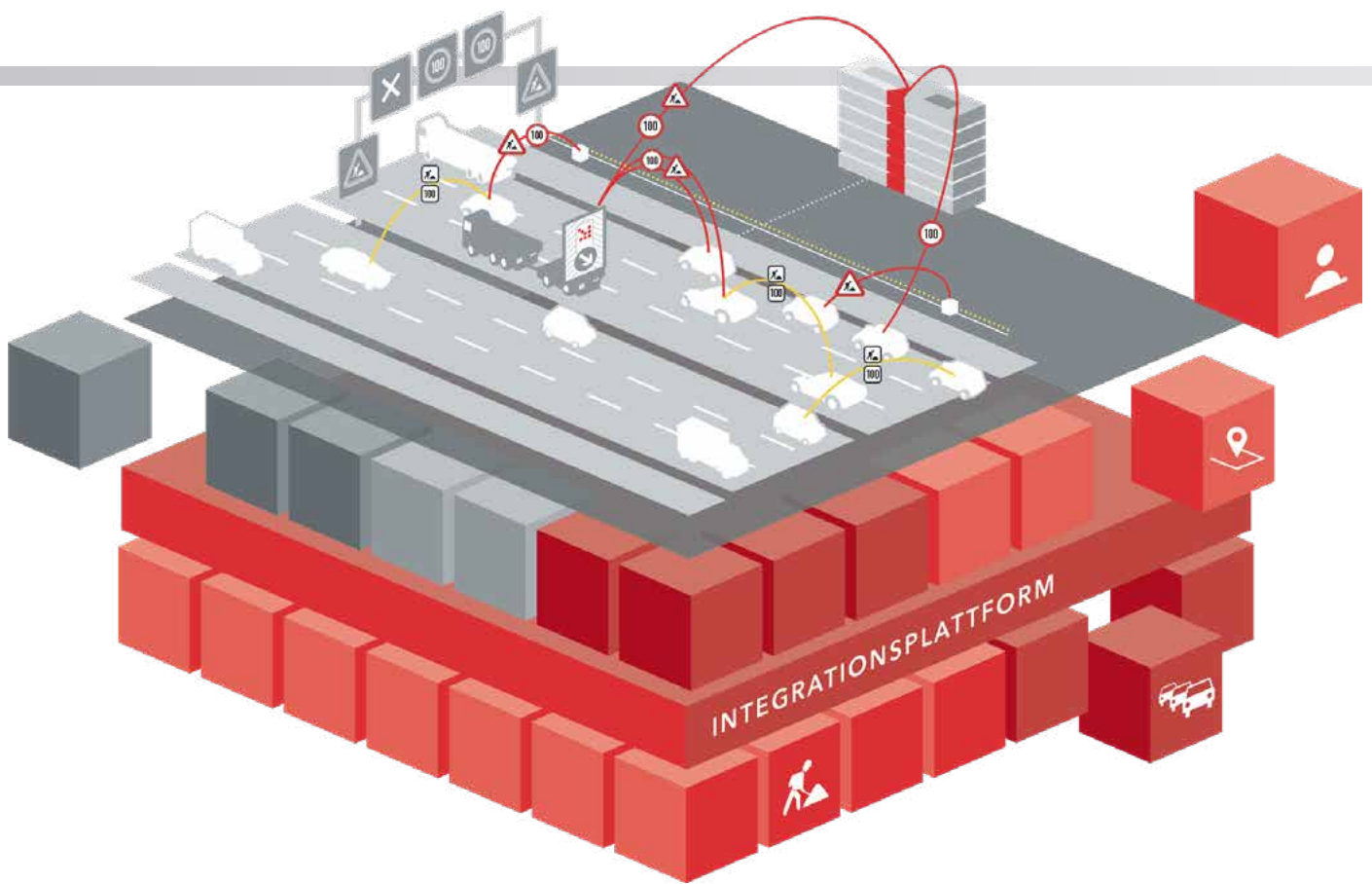
### Service-oriented into the future

With the service-oriented architecture approach (SOA) of E21X, Hessen Mobil sets the foundation for a future-oriented system and creates the requirements for a system based cooperation with external traffic service providers, other public actors and finally for cooperative, connected and automated mobility.

The integration platform forms the heart of the system architecture. Central services can be connected directly to the integration platform so that they can be accessed by all other services and applications. It controls and connects all services, defines structures and responsibilities. It provides clarity and effectiveness and significantly improves the quality of all information.

### The vision of a connected intelligent mobility

NORA (Network Operation and Road Application), one of the latest URSA MAJOR 2 measures, is a comprehensive system for automatic network control as part of the overall E21X project. Based on the existing system for



controlling variable message signs (VMS) in Hessen, an innovative tool is being developed that enables the automatic control of all existing display systems (dWiSta, substitutive VMS and other mixed systems) and represent one application of the E21X overall system.

Besides NORA, further applications and services will be integrated into the integration platform:

#### Examples of Services:

- Central user administration
- Operations monitoring
- Data distributor
- Central geoservice

#### Examples of Applications:

- Automated driving / Cooperative systems
- Roadworks / slot management
- Management of traffic control strategies
- Dynamically integrated traffic analysis (DIVA)

The hard- and software enhancement of the TCC Hessen offers the basis for a great flexibility of the complete system - today and in the future - and thus represents a unique selling point of the TCC.

## For further information please contact

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