

HIGH TOOL

This Project is co-funded by the European Union
under the 7th Framework Programme



HIGH-TOOL session at ETC

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The HIGH-TOOL project – key
objectives and overall approach



Agenda

- 1) Basic information on HIGH-TOOL
- 2) Key objectives
- 3) Overall approach

Basic Information

Project Co-ordinates

- Title
 - » Strategic **High**-Level **T**ransp**o**rt **M**odel
- Runtime
 - » April **2013** – August **2016**
- Co-Funding
 - » European Union, under the 7th Framework Programme
- Homepage
 - » **www.high-tool.eu**

Basic Information

The Project Team



Key objectives

Content-wise

- Development of an instrument for the strategic assessment of economic, environmental and social impacts of EU transport policies
- Target: support DG MOVE with the assessment of EU transport policies

Key objectives

Further Tool Characteristics

- Open source tool and free of royalty
- User-friendly
- Short computation time
- Simple maintenance
- Without (detailed) network assignment

Key objectives

Further tool characteristics

Model feature	User requirement
Type	Strategic high-level model derived from existing tools, models, equations and elasticities; where necessary enriched by new models
Scope & Zoning	EU28, Norway and Switzerland: NUTS-2 level; neighbouring countries: NUTS-0 level; other countries worldwide: country bundles.
Timeline	5-years (1-year) steps from 2010 to 2050
Modes	Passenger: air, rail, road (passenger car and powered 2-wheelers), long-distance coach, urban public transport, slow modes Freight: air, rail, road, maritime, inland waterways, maritime transport
Demand segments	Trip purposes: business, private, vacation, commuting. Commodities: NST2
Distance Bands	0–300 km, 300–1000 km, 1000+ km
Model Sensitivity	Dependent variables are sensitive to a variety of independent variables to model transport policy measures
Validation	EU Reference Scenario 2013, EU Statistical Pocketbook, ETISplus
Baseline	EU Reference Scenario 2013

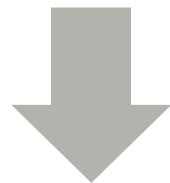
Overall approach

Successive Tool Development

- Prototype version (April 2014)



- Pre-final version (October 2015)



- Final version (June 2016)

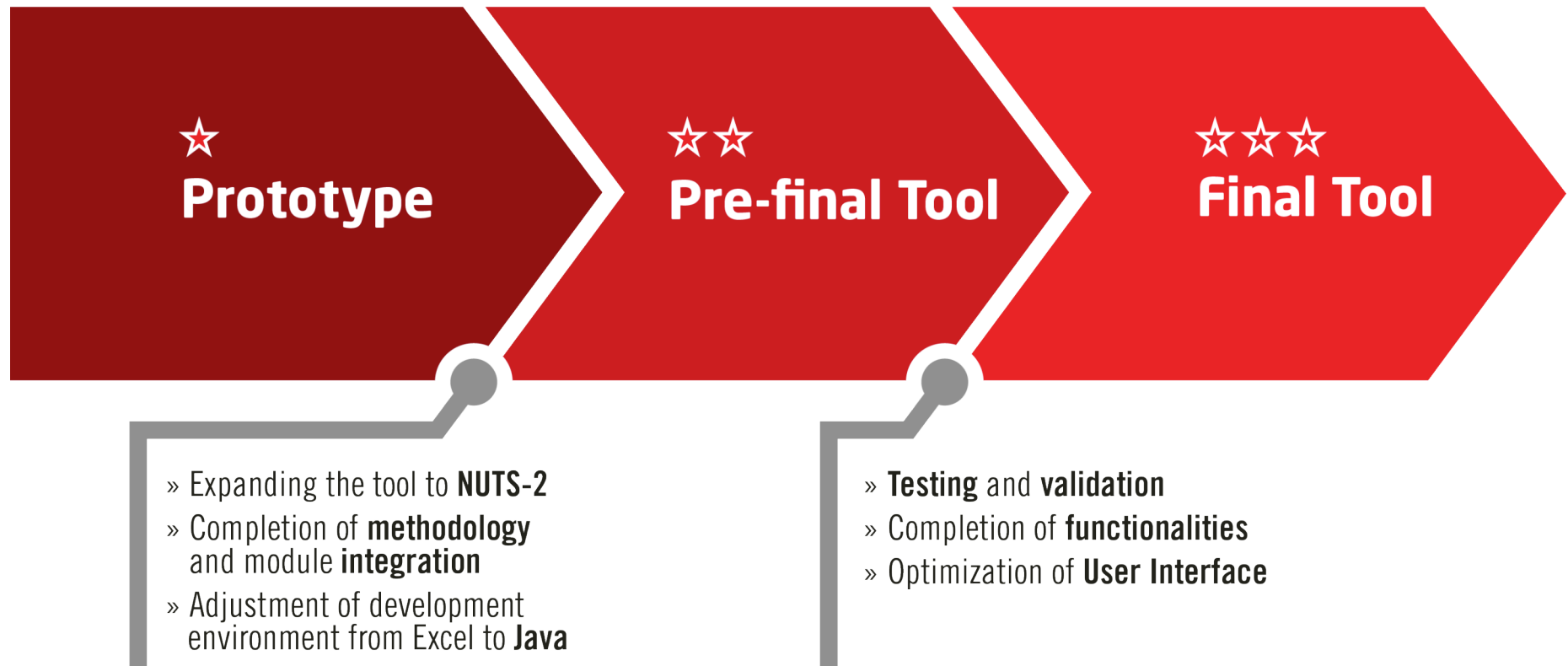
Overall approach

The Prototype

- **Basis for user involvement** and instrument to learn about user experience
 - » User Interface and guidance through the system
 - » Approach to select policies
 - » Usefulness of Assessment Report
 - » Usefulness of presentation of results
- **Basis for development of pre-final and final tool**
 - » Obtain experience in modular approach of tool development
 - » Learn about capabilities of Excel

Overall approach

From the Prototype to the Final Tool



Overall approach

Database: Close Linkage to ETISplus

- ETISplus: European Transport policy Information System
- Interoperability with ETISplus data; consistent approach for structuring the data
- Adjusting HIGH-TOOL data and ETISplus data to work with the Database Management System PostgreSQL
- Widening the scope of ETISplus data

Overall approach

Continuous User Involvement

- **Three User Workshops**

- » Identification of user requirements
- » Discussing the prototype model version
- » Discussing the pre-final model version

- **HIGH-TOOL Training Course**

- » On the basis of the final model version

HIGH

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Thank you for your attention