Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

Measurement
Reporting
Verification
in the Transport Sector

Daniel Bongardt, GIZ China

Transport Day, Warsaw, COP19, November 17, 2013

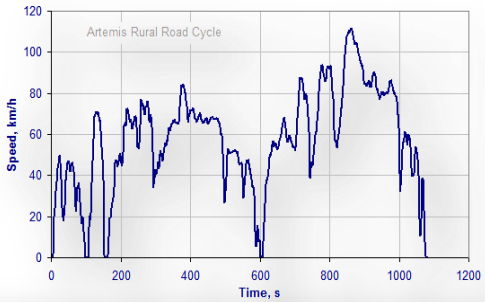
On the ground – experiences from Beijing

Sino-German Project on *Transport Demand Management: Emission Quantification in Urban Transport* (2011-2014), funded by BMU-IKI

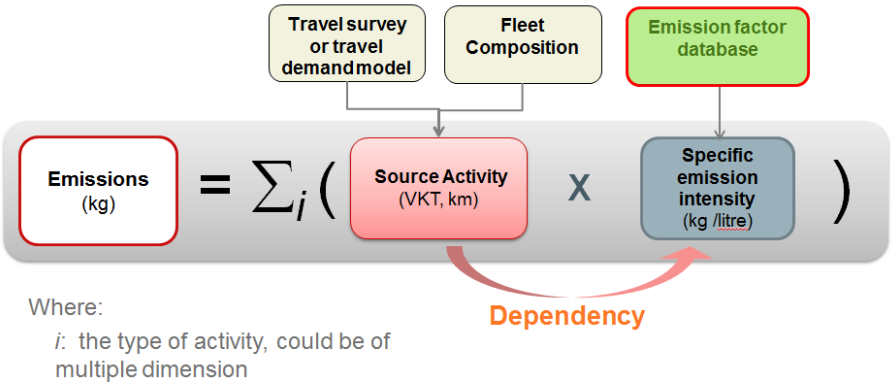
Joint project with the Beijing Transport Research Centre

Emission Quantification Methodologies and Tools

新国家标准 New National Standard					
拥堵级别 Congestion Level	畅通 Unimpeded (0-2)	基本畅通 Basically unimpeded [2-4)	轻度拥堵 Mild congestion [4-6)	中度拥堵 Moderate congestion [6-8)	严重拥堵 Severe congestion [8-10)
快速路 Freeway	>55	40-55	30-40	20-30	≤20



Fundamental formula for calculation of traffic related emissions



Where:

i: the type of activity, could be of multiple dimension

(Picture: Daniel Bongardt)

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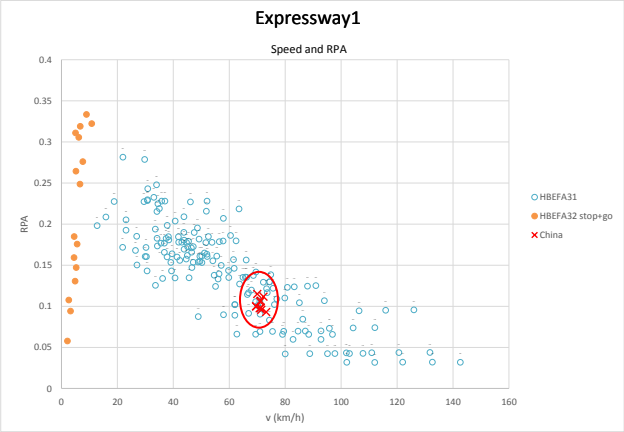
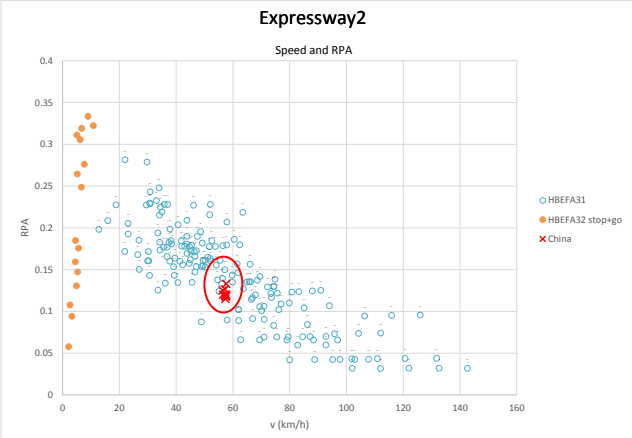
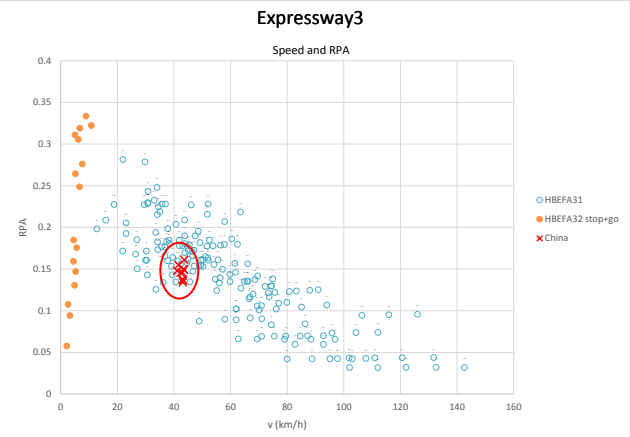
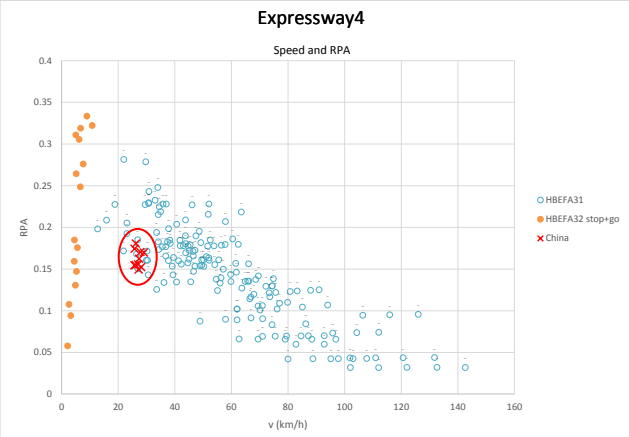
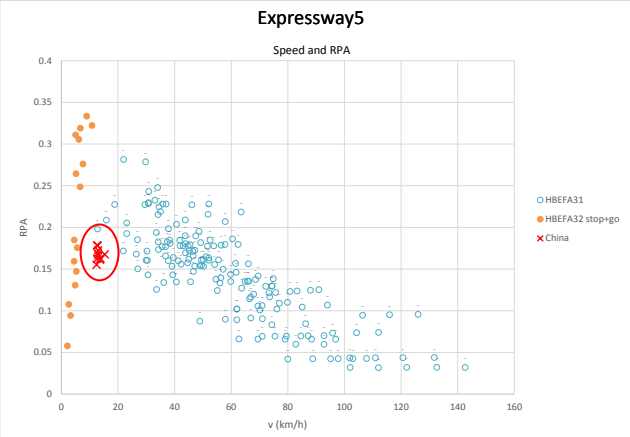
Adopting Emission Factors to the Beijing context









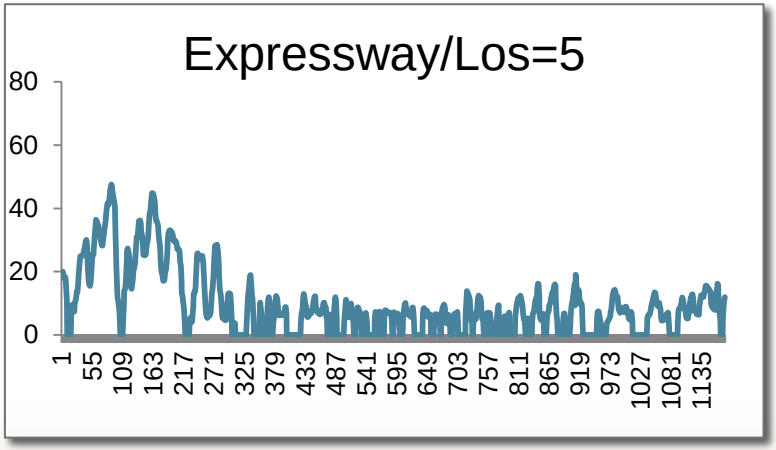


Comparison of “expressway travel patterns” in Beijing with HBEFA: Heavy *Stop and Go Traffic* is not captured yet.

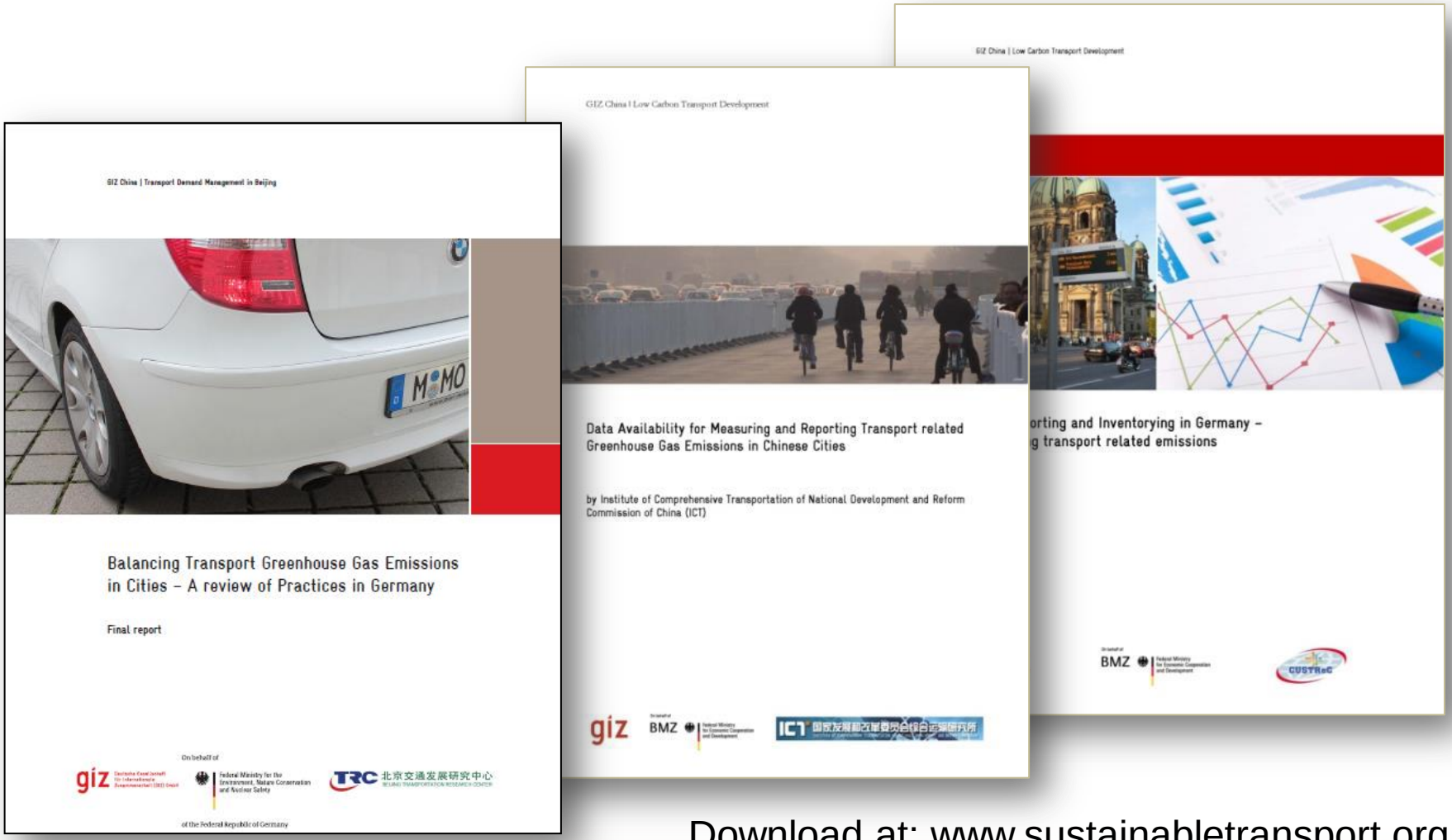
Running Version of Emission Modeling Package

China Handbook for Emissions Factors Model (CHEF-Model)

- A software package will be developed/adopted by integrating all components of an emission model with a user friendly interface
- The objective is to estimate road traffic emissions with high temporal and spatial resolution
- delivered officially to local partners by end of this year



Publications



Download at: www.sustainabletransport.org

Workshop
Roadmaps for MRV of Transport NAMAs

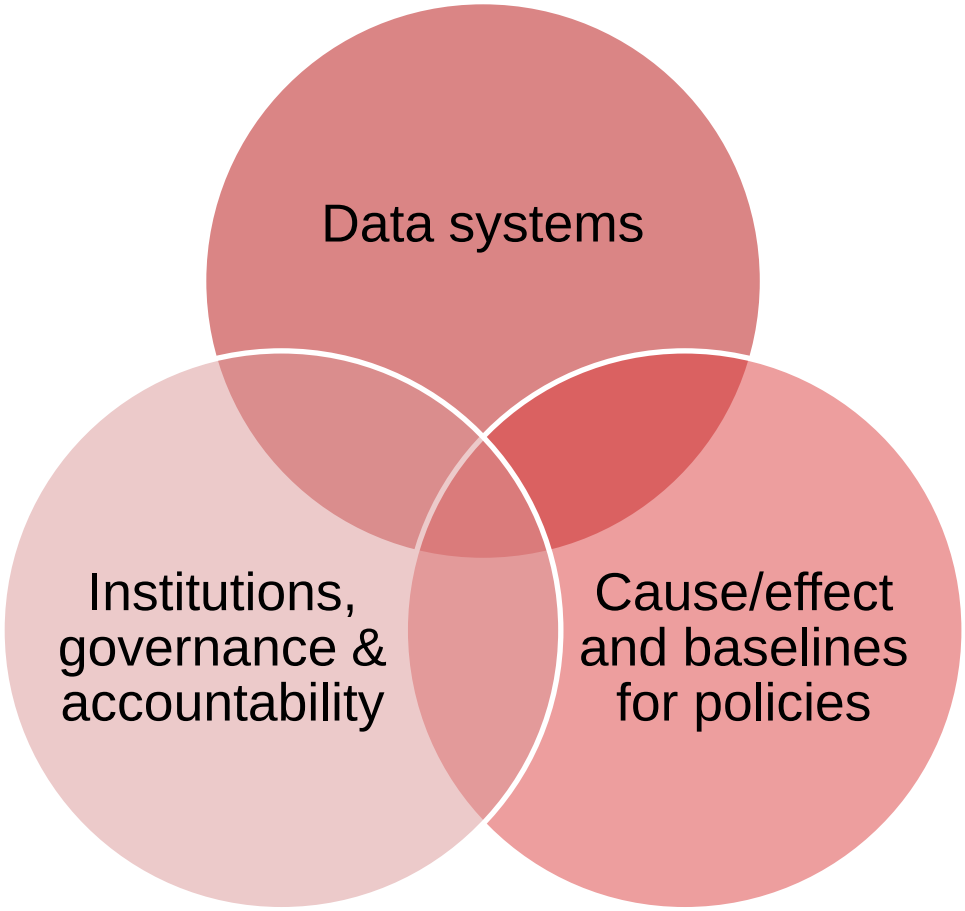
- November 15, 2013 – COP 19, Warsaw
- Participants: key experts, all here, spot out!
- Kick-off for a series of events to facilitate exchange

Interactive Workshop Methodology

Analyzing effects of policies and measures

- Mitigation impact (ASIF)
  - Avoid/shift measures: Impact travel behaviour
  - Improve/fuel measures: Impact technologies applied
- Indirect effects
- Rebound effects
- Boundaries

Challenges for establishing MRV systems



Ideas and Next Steps

- Further **facilitating an expert group** in order to shape the concept for MRV of NAMAs and provide practical guidance
- Organize expert support for piloting the idea of "**MRV Blueprints**" for transport policies and measures
- **Country workshops** on "Roadmap for Transport MRV" including identifying data gaps and institutional issues
- **Publish** intermediate results and inform community

Thank you!

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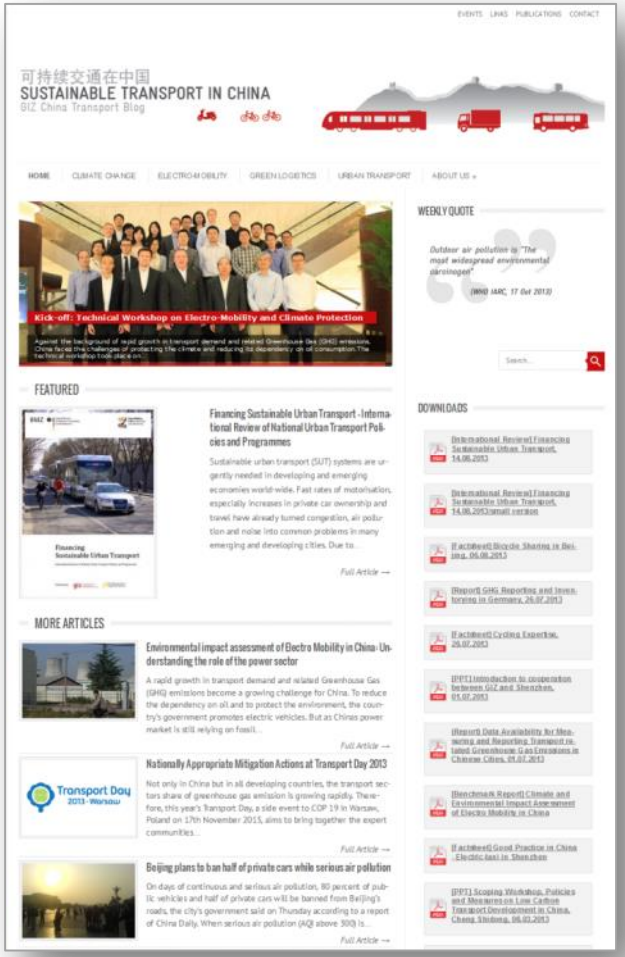

Blog: www.sustainabletransport.org

The TRANSfer Project

Towards Climate-Friendly Transport Technologies and Measures

- Funded through the International Climate Initiative on behalf of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Saftey
- Duration: 2011 – 2016
- Partner countries: South Africa, Indonesia, Colombia, China, 5th country tbd, probably Asia or LA
- **Aims:**
  - support its partner countries to develop new NAMAs in the transport sector
  - to acquire necessary financial means for NAMA implementation
  - to implement transport NAMAs
  - Support learning process