



International Institute for
Applied Systems Analysis
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iTEM4

Welcome to the 4th Workshop of the International Transport Energy Modeling Consortium (iTEM4)

Laxenburg, Austria (IIASA)
30th October 2018



iTEM4 is supported by funding from the ClimateWorks Foundation.



IIASA, International Institute for Applied Systems Analysis

science for global insight

Brief history of iTEM

iTEM1
@ UC-Davis

iTEM2
@ Chalmers

 iTEM4
iTEM4
@ IIASA

2014

2015

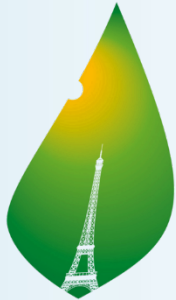
2016

2017

2018

iTEM3
@ OECD-ITF

What has changed since iTEM1 (Oct. 2014?)



COP21-CMP11
PARIS 2015
UN CLIMATE CHANGE CONFERENCE

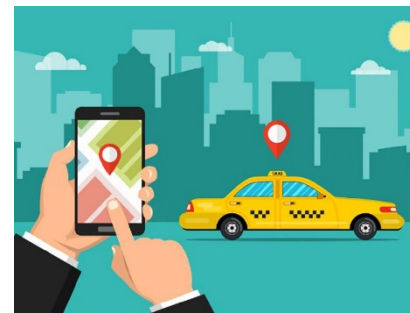
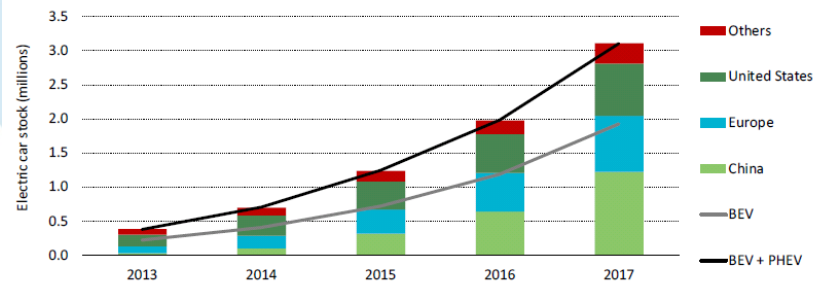


Figure ES 1 • Evolution of the global electric car stock, 2013-17



Notes: The electric car stock shown is primarily estimated on the basis of cumulative sales since 2005. Where available, stock numbers from official national statistics have been used (provided that the data can be shown to be consistent with sales evolutions).

Sources: IEA analysis based on country submissions, complemented by ACEA (2018); EAFO (2018a).

**ITEM4**

Fourth International Transport Energy Modeling Workshop – 30–31 October 2018
 International Institute for Applied Systems Analysis (IIASA)
 Schloßplatz 1, A-2361 Laxenburg, Austria

**Day 1 – Tuesday, 30 October**

Start-end	Topic	Moderator / Speaker
11:30–12:30	Registration & light lunch	
	Opening	
12:30–12:45	Welcome to IIASA	Nebojsa Nakicenovic & David McCollum
-13:10	ITEM organization activities & updates	ITEM organizing team: Sonia Yeh, Lew Fulton, David McCollum, Page Kyle, & Paul Kishimoto
-13:35	Historical transitions in transport and new concepts for demand modeling	Arnulf Grübler, IIASA
-13:50	Round-the-table self-introductions; discussion	
	Session A	Tor Kartevold, Equinor
13:50–14:08	New methods and models for projecting transport demand	
	ForFITS: Modelling approaches and latest applications	Francois Cuenot, UN ECE
-14:26	Projecting passenger activity demand in MoMo: current methods & proposed updates; Key methods & results for the Global EV Outlook 2018; IEA contributions to IMO GHG strategy	Jacob Teter, IEA
-14:44	Five windows on road transportation: results from BP's models	Robert Spicer, BP (remote)
-15:20	Discussion	
15:20–15:50	Break	
	Session B	Karen Laughlin, Heising-Simons F.
15:50–16:08	Autonomous, shared, and micro-mobility	
	Autonomous vehicles: uncertainties and energy implications	Nicholas Chase & John Maples, U.S. EIA (remote)
-16:26	Introducing results from micro-simulation models on shared mobility for cities (Helsinki, Auckland, Dublin, Lisbon, and Lyon) into the ITF global urban passenger model	Luis Martinez, ITF-OECD
-16:44	Urban micro-mobility and data for planning and policymaking	Regina Clewlow, Populus AI (remote)
-17:30	Discussion	

Workshop dinner – Kloostergasthaus Thaler

Day 2 – Wednesday, 31 October

	Session C	Robert Pietzcker, PIK
09:00–09:18	Freight & international passenger transport	
	Understanding the impacts of GHG mitigation policies on international trade and economy of States. What is the state of the art of current modelling approaches?	Ronald Halim, World Bank
-09:36	Last-mile logistics innovations: modelling their traffic, energy and environmental impacts	Alan McKinnon, KLU
-09:54	Energy, economic, and environmental prospects of all-electric aircraft	Andreas Schäfer, UCL
-10:30	Discussion	

10:30–11:00 Break

(see reverse)

Start-end	Topic	Moderator / Speaker
	Session D	Page Kyle, PNNL
11:00–11:18	New data sources & community database efforts	
	Model data management: an open-source platform	Amar Amarnath, KAPSARC
-11:36	Estimating transport expenditure using non-transport household survey data	Paul Kishimoto, IIASA
-12:00	Discussion	
12:00–13:30	Lunch	
	Session E	Anand Gopal, Hewlett Foundation
13:30–13:48	Trucking & diesel vehicles	
	Global progress on soot-free diesel vehicles	Joshua Miller, ICCT
-14:06	Catenary hybrid electric trucks: European market diffusion and impact on the energy system	Till Gnann, Fraunhofer ISI
-14:24	The potential for decarbonizing trucking in California: a scenario analysis	Lew Fulton, UC Davis (remote)
-15:00	Discussion	
15:00–15:30	Break	
	Session F	David McCollum, IIASA
15:30–15:48	ITEM4 reflections & next steps forward as a consortium	
	Transport energy modeling as an input to national and global policy	Anthony Eggert, ClimateWorks Foundation
-16:50	Discussion	
16:50–17:00	Close	ITEM organizing team

Objectives of iTEM4 Workshop

- Learn from each other...
 - *Latest advances in global passenger and freight transport modeling*
 - *How to model new innovations and potential disruptions*
 - *Novel datasets to support enhanced modeling*
 - *Relevance of model outputs to ongoing policy and business discussions*
- Strengthen analytical networks, promote intra-iTEM collaborations and data-sharing
- Identify most critical focal areas for global transport modeling going forward

Chatham House Rules

- Please share thoughts and opinions openly.
- Feel free to take notes on anything that is discussed.
- But after workshop is over, please do not attribute direct quotes to individuals.
- Do not share presentation slides beyond workshop participants without first asking permission from presenter. *(includes photos of slides)*

Wifi

- Username: meeting
- *Password: Sept2018*