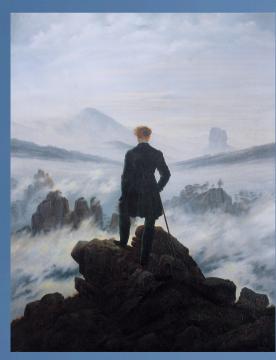
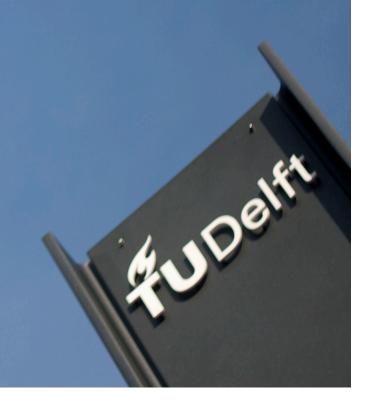
The Merger of Energy, Mobility and Data.

The growing need for cooperative governance for future infrastructures









Wijnand Veeneman

- Associate professor Governance of Infrastructures
 - Delft University of Technology
 - Research: governance of infrastructures, in particular public transport
 - Education: managing complex projects, in particular energy and transport
- Scientific director
 - Next generation Infrastructures
 - Cooperation between 6 Dutch network managers
 - · ProRail DB Netz
 - · Rijkswaterstaat Wasserstraßen, Schifffahrt, Straßenbau of BmVI
 - · Vitens Hessenwasser for most of the Netherlands
 - · Alliander e-netz for most of the Netherlands
 - · Port of Rotterdam Hafen Hamburg
 - · Airport Schiphol Frankfurt Flughafen





Agenda

Wieder Panne auf der Strecke München-Berlin

"Bahn-Fiasko" und "ICE-Desaster": Kunden verlieren die Geduld

Aktualisiert: 12.12.17 - 11:41

Peinliche Pannen für die Deutsche Bahn: Auf der Tempo-Trasse zwischen München und Berlin läuft es ganz und gar nicht rund.

München - Die Pannenserie auf der neuen Hochgeschwindigkeitsstrecke München-Berlin setzt sich auch am Dienstag fort. Der ICE701, der am Morgen von der Bundes- in die Landeshauptstadt fahren sollte, wurde ersatzlos gestrichen. Eigentlich hätte er um 7.38 Uhr am Berliner Hauptbahnhof starten sollen. Grund für den Ausfall war eine technische Störung am Zug, wie eine Sprecherin der Deutschen Bahn der dpa erklärte.

Eine Kundin ärgerte sich auf Twitter, dass sie erst kurz vor der Abfahrt am Gleis davon erfuhr:





Data, energy and mobility narrative















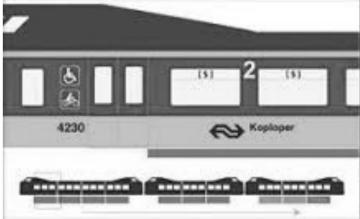




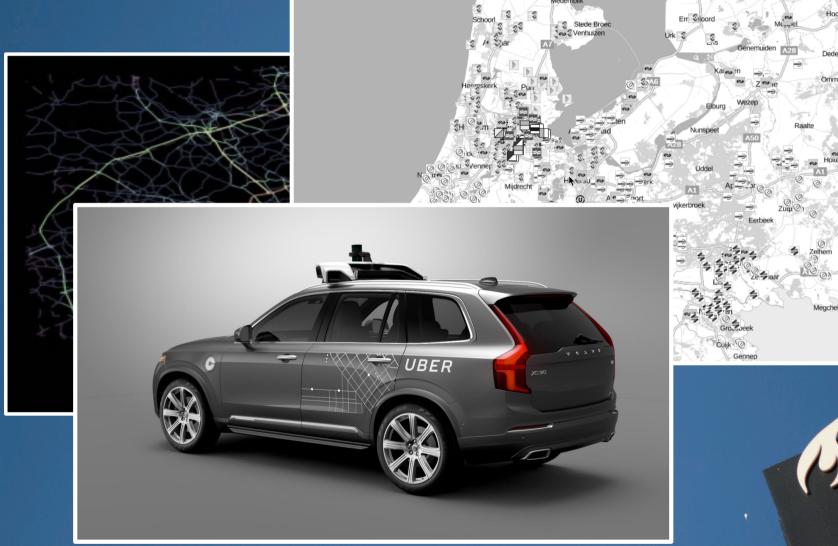
To electric, flexible and real-time

TUDelft





Mobility and data





Mobility and energy



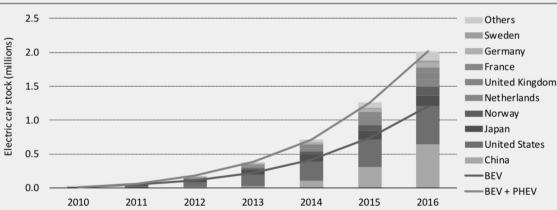
Bestuursakkoord Zero Emissie Regionaal Openbaar Vervoer Per Bus



METROPOOLREGIO ROTTERDAM DEN HAAG







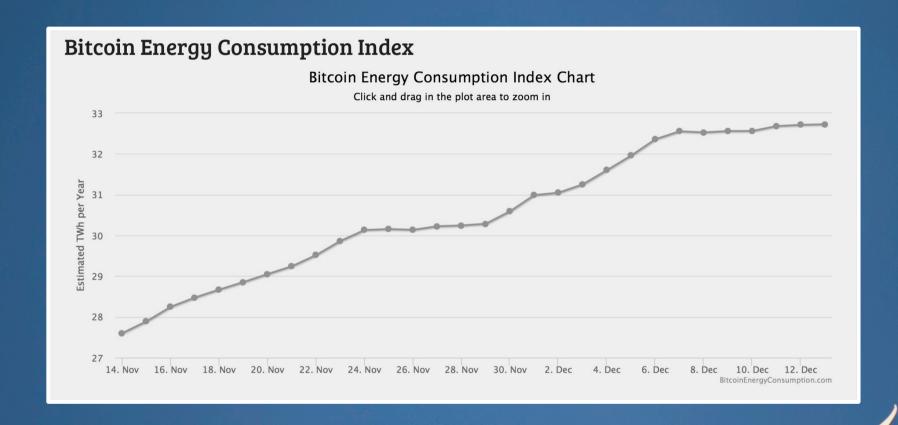
Notes: The electric car stock shown here is primarily estimated on the basis of cumulative sales since 2005. When available, stock numbers from official national statistics have been used, provided good consistency with sales evolutions.

Sources: IEA analysis based on EVI country submissions, complemented by EAFO (2017a), IHS Polk (2016), MarkLines (2017), ACEA (2017a, 2017b) and EEA (2017).





Data and energy







Data, mobility and energy: the promiss









Problem 1 Separation institutionalized

- Institutions
 - Regulation
 - Ministries
 - Agendas
- Academy
 - Disciplinary
 - Funding
 - Incentives
- Technologies
- Markets
- Sectors



Regulation (EC) No 45/2001 of the European Parliament and of the Council of 18 December 2000 on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data

OI L 8. 12.1.2001, p. 1-22 (ES. DA. DE. EL. EN. FR. IT. NL. PT. FI. SV) This document has been published in a special edition(s) (CS, ET, LV, LT, HU, MT, PL, SK, SL, BG, RO, HR)

Direct text access: 🔼 🏧 CELEX number: 32001R0045

In force Form: Regulation Latest consolidated version: 02001R0045-20010201

Author: European Parliament, Council of the European Union Date of document: 18/12/2000

Transport Themes

Media Corner



For manuscript submission an

To view full text via ScienceDir online. Abstracts may be browsed



Iournals

Access the latest sample issues of Elsevier's energy journals.

Home > Physical Sciences > Computer Science

opment

Computer Science

High Quality Journals

Welcome to the Computer Science area of Elsevier.

SIEMENS











Problem 2: Linking silo's increases complexity

Complexity parts and interactions and control				
Physical process	Hydrogen	Physical	Local	Single value
Interaction within a dedication system	Fuel cell			
Interaction with a physical environment	In vehicle			
Interaction with operational environment	On road			
Interaction with social environment	In society	Social	Global	Multiple value





Problem 3: The silo's are deep



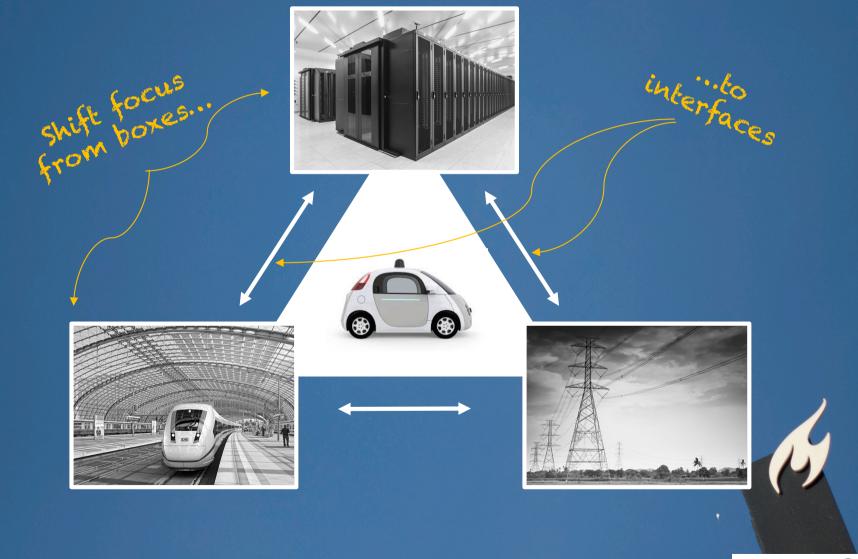








Way forward to a promising niche 1

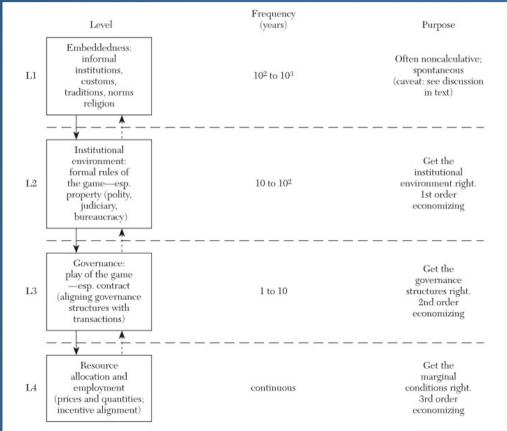


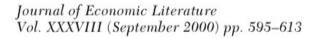




Governance?

The rules that are establised desisions together make









Data, mobility and energy: the promiss 2

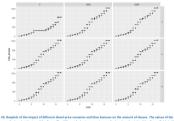






New analytical tools on interfaces









Scale





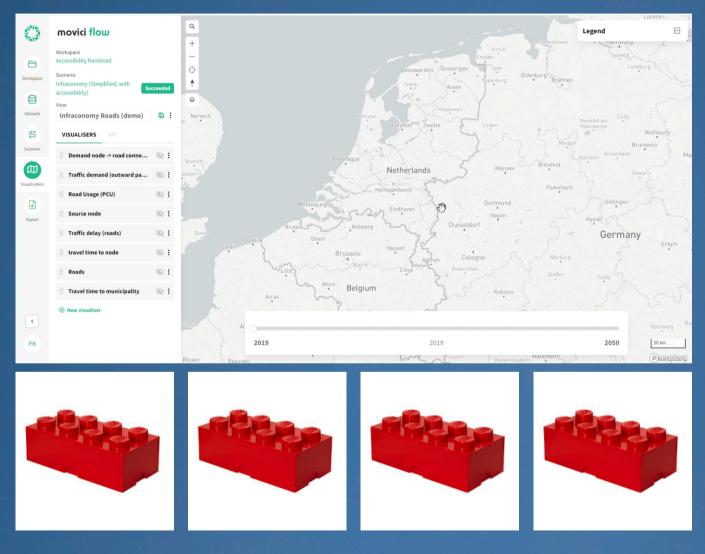








Movici: Modelling platform







Vielen dank



And thanks for a



