

THE-PEP Relay-Race in Mannheim, 21/09/2017

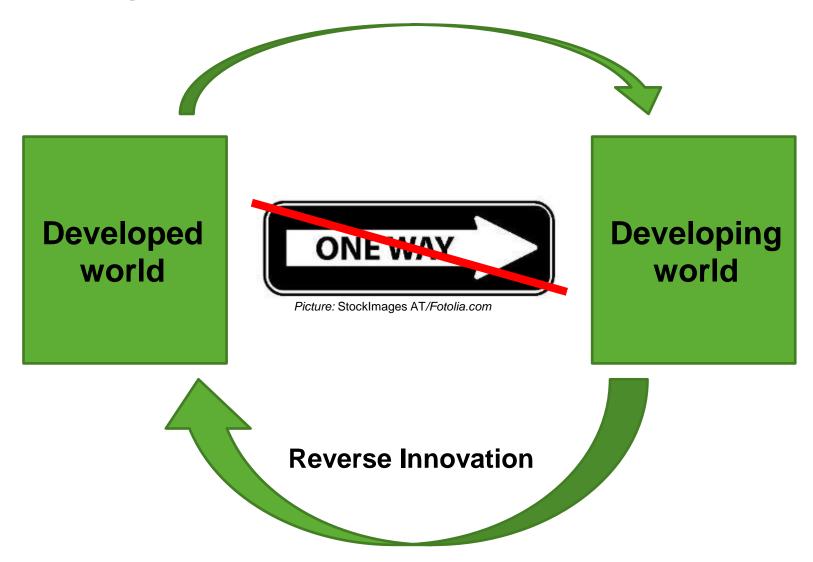
#### Reverse Innovation: Rethinking urban transport through global learning

Dr. Harry Lehmann Head of Division I "Environmental Planning and Sustainability Strategies"

#### **Agenda**

- 1 REVERSE INNOVATION
- **2 TOMORROW'S CITIES**
- 3 RETHINKING URBAN TRANSPORT THROUGH GLOBAL LEARNING
- 4 TAKE HOME MESSAGES

# The idea behind reversing innovation processes



# **Example for Reverse innovation: Bus Rapid transit (BRT)**



1974: invented in Curitiba/Brazil 2017: over 200 cities operate BRT systems

### **UBA's vision of "Tomorrow's Cities"**with focus on environmentally friendly mobility



Source: https://www.umweltbundesamt.de/publikationen/tomorrows-cities.

# Measures for "Tomorrow's Cities": Environmentally friendly mobile, low noise, green, compact and functional-mixed



Implementing compactness and mixed use in cities



Providing urban greenery and open spaces



Reducing noise



Fostering participation and collaboration in planing and on



Expanding active long-term target for big cities: on networ Central long-term target for big cities: on the long-term target f



Exploiting digitisation for the benefit of the environment



**Encouraging integrated** mobility services and e-mobility



Making commercial traffic within the city environmentally friendly



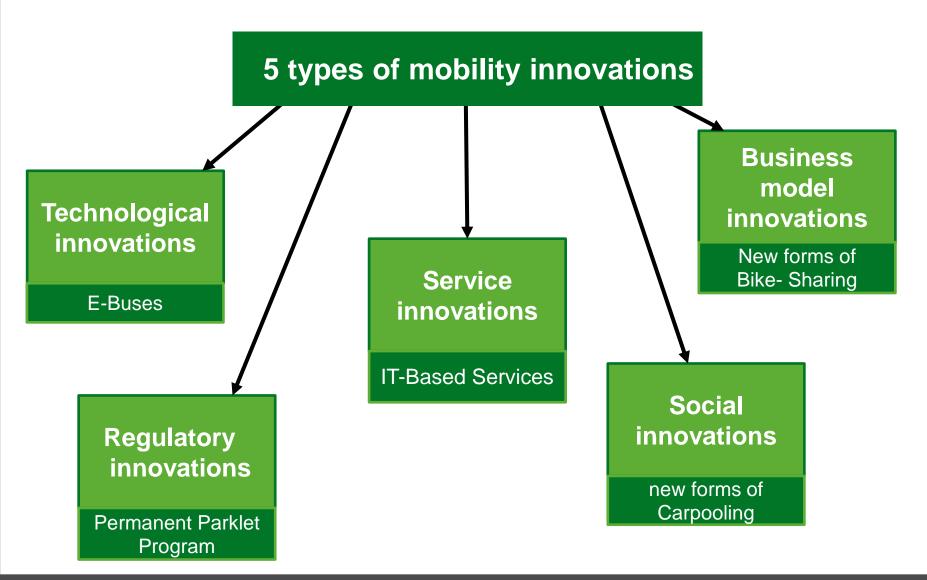
Managing motorised traffic

# **UBA/GIZ-Publication "Reverse Innovation – Rethinking Urban Transport through Global Learning"**

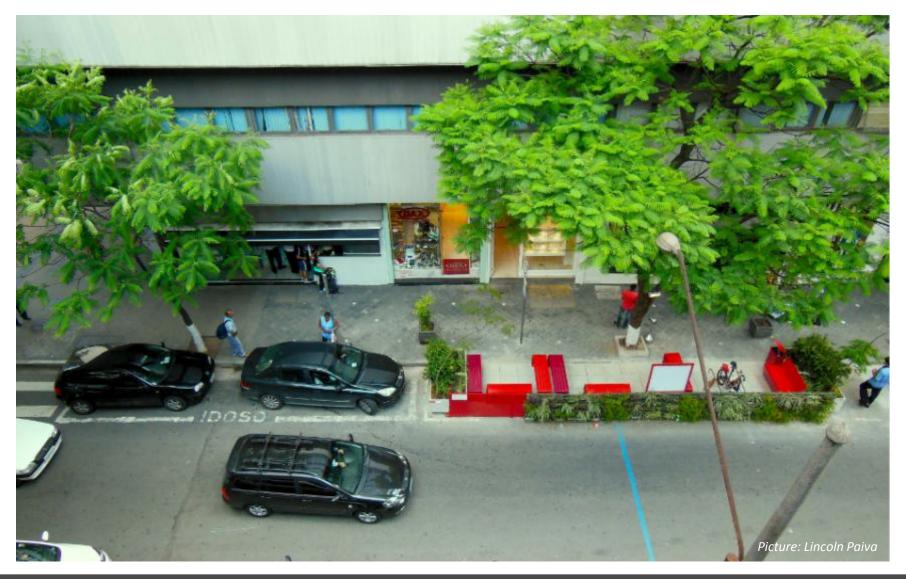




## Types of reverse mobility innovations



# **Example of reverse innovation: Permanent parklets in Brazil**



#### Take home messages

1 CITIES ARE HUBS FOR INNOVATION

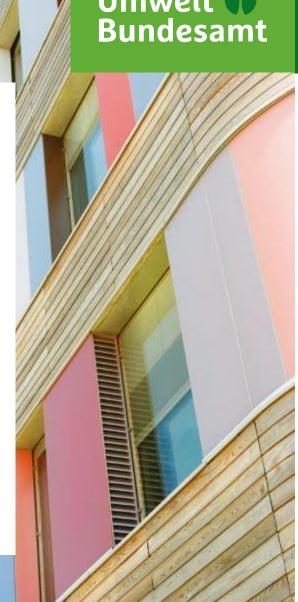
- 2 NEED TO COOPERATE INTERNATIONALLY
- 3 ROLE OF THE PEP
- 4 REVERSE INNOVATION HAS A GREAT POTENTIAL FOR GERMANY/EUROPE



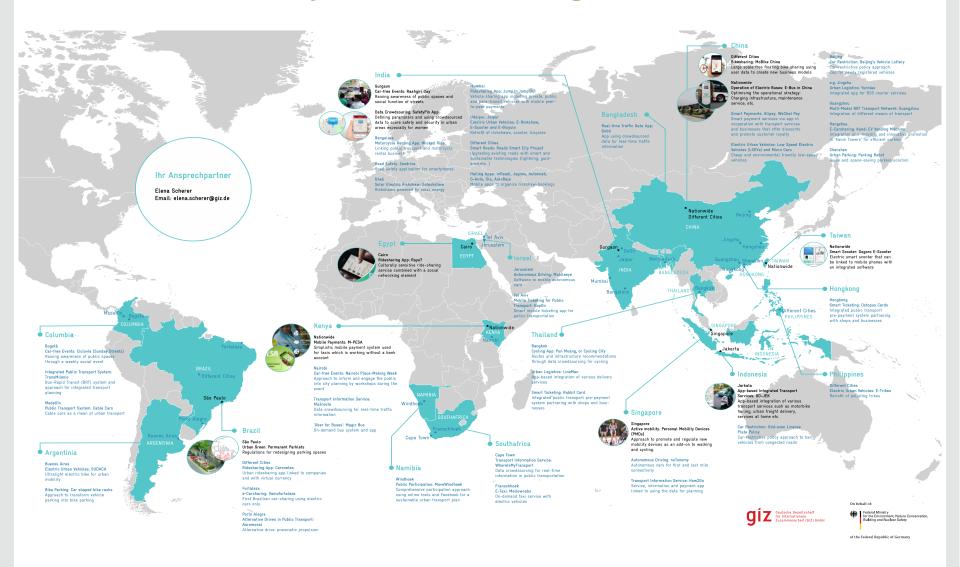
#### Thank you!

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# GIZ analyzed 50 promising innovations in the field of sustainable mobility from around the globe



### 10 examples of the UBA-GIZ brochure "Reverse Innovation – Rethinking Urban Transport through Global Learning"

- Electric buses: Operation and implementation in China
- Integrated Transport Services: Go-Jek Indonesia
- Urban Green: Permanent Parklets Brazil
- Urban Carpooling App: Raye7 Egypt
- Bike-sharing: MoBike in China
- Data Crowdsourcing: SafetiPin App
- Electric urban vehicle: Gogoro Smartscooter
- Car-free campaigns: Raahgiri Day India
- Mobile Payments for Transport Services: MPESA Kenya
- Active Mobility: Promotion of Personal Mobility Devices in Singapore