

















Wuppertal Institute for Climate, Environment and Energy









The thematic session B. Green Urban Mobility 主题研讨会B.绿色城市交通 Topic B.4 - Implementing Sustainable Urban Mobility 议题B.4—可持续城市交通的应用



与解决方案相关的案例研究:

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Content

目录



- Transferability of innovative solutions
- 创新解决方案的可转移性
 - The SOLUTIONS project
 - "解决方案"项目
 - Innovative solutions from Europe, Asia and Latin America
 - 来自欧洲、亚洲、拉美的解决方案
 - Examples from the CIVITAS initiative
 - 来在"更清洁和更高效的城市交通"(CIVITAS)计划的范例
- Case studies relevant for SOLUTIONS
- 与"解决方案"相关的案例研究
 - Public transport: BRT success spreading around the world
 - 公共交通系统: 快速公交系统在世界各地成功铺开
 - Mobility management & transport infrastructure: Intermodal mobility
 - 交通管理与交通基础设施: 多式联运
 - Network and mobility management: Congestion charging in Asia and Europe
 - 交通网络与交通管理:亚洲和欧洲的交通拥堵费
 - Integrated planning: Sustainable Urban Mobility Plans
 - 整合的规划:可持续城市交通规划

Transferability of innovative solutions

创新解决方案的可转移性



The SOLUTIONS project

- "解决方案"项目
- •Support the uptake of innovative sustainable urban mobility solutions in Europe and other regions in the world, in particular in Asia, Latin America and the Mediterranean
- ■积极推动创新和可持续城市交通解决方案在欧洲及世界其他地区的推广,尤其是在亚洲、拉美及地中海地区的推广
- Key actions:
- ■主要行动:
 - further exploitation of existing knowledge
 - 进一步开发利用现有知识
 - focusing primarily on policy and
 - 主要关注政策,并
 - assessment of implementation processes
 - 对实施进程进行评估
- •Detailed steps towards the uptake of innovative sustainable urban mobility solutions and technologies in Europe and beyond
- ▶创新和可持续城市交通解决方案在欧洲及世界其他地区的推广制定详细步骤



Transferability of innovative solutions

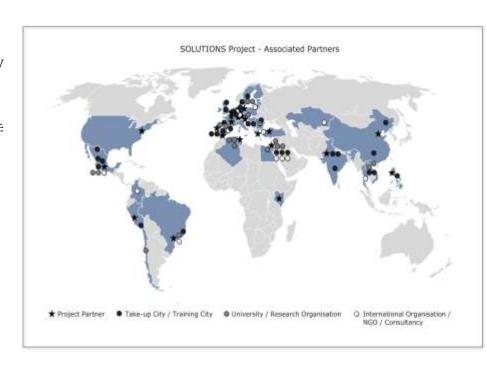


创新解决方案的可转移性

Innovative solutions from Europe, Asia and Latin America

来自欧洲、亚洲、拉美国家的创新解决方案

- *Assess the transferability of sustainable urban mobility solutions from Europe, China, Singapore and Latin America
- ●评估欧洲、中国、新加坡及拉美国家和地区的可持续城市交通解决方案的可转移性
- Examples of innovative solutions:
- 创新解决方案案例:
- -Europe: Public transport, city logistics and Integrated planning/SUMPs
- -欧洲:公共交通、城市物流及整体规划/可持续城市交通规划(SUMPs)
- Asia: electromobility, public transport and Intelligent Transport Systems
- -亚洲: 电动交通工具、公共交通及智能交通系统
- -Latin America: Bus Rapid Transit and modal integration
- -拉美国家: 快速公交及模式集成



Transferability of innovative solutions

创新解决方案的可转移性



Examples from the CIVITAS Initiative

- "更清洁和更高效的城市交通" (CIVITAS) 计划范例
- •Since 2002: 63 cities demonstrated +700 innovative measure
- 2002年以来: 共有63个城市开展了700多项示范创新措施
- •focus on clean vehicles with good long term evaluation results
- ■重点放在具有长期正面评价结果的清洁能源汽车
- •global interest in the CIVITAS approach
- "更清洁和更高效的城市交通"计划符合世界 各地的利益

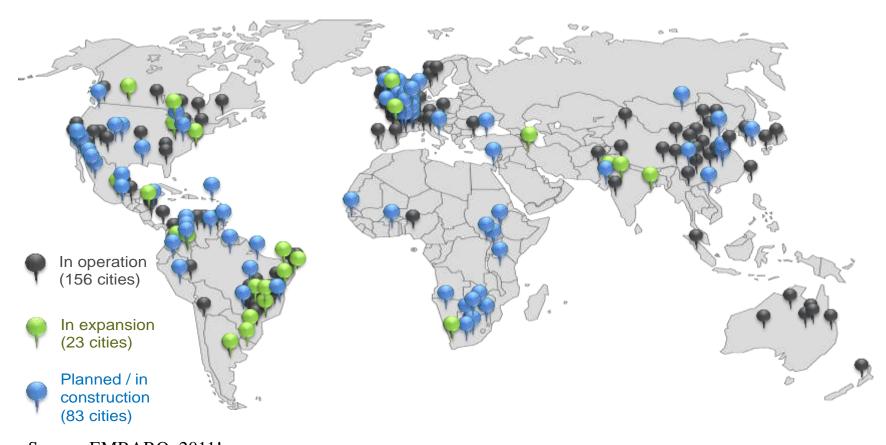




Public transport: BRT success spreading around the world



公共交通系统: 快速公交系统在世界各地成功铺开



Source: EMBARQ, 2011!

Mobility management & transport infrastructure: Intermodal mobility



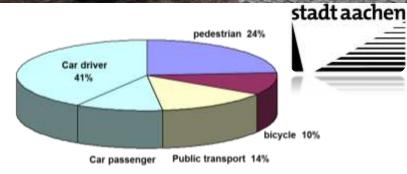
交通管理及交通基础设施: 多式联运

Examples from Aachen, Germany 案例: 德国亚琛

- Intermodal mobility offers for citizens
- •多式联运为民众提供
- -public transport
- -公共交通
- -car and bike sharing
- -汽车及自行车共享
- -cooperation with estates
- -与房地产公司合作
- -electric vehicle fleets
- -电动汽车车队
- "'Digital natives' and mobility 2.0 solutions
- "数字原住民"及交通解决 方案 2.0







Network and mobility management: Congestion charging in Asia and Europe

交通网络与交通管理:亚洲和欧洲的交通拥堵费

- Singapore: City entry charge boosted public transport and led to a 45% reduction in traffic; average travel speeds increased from about 20 km/h to over 30 km/h; road site accidents decreased by 25%
- 新加坡: 进城收费制度大幅促进了公共交通的发展, 并使交通流量下降45%; 车辆平均时速从20公里/小时 提高到30公里/小时以上; 道路交通事故减少了25%。
- The success of the system inspired the congestion charge systems in London and Stockholm and provided the basis for several feasibility studies for similar schemes for cities around the world
- 受上述案例的启发,伦敦、斯德哥尔摩也相继推出交通拥堵费,并为面临相似难题的世界其他城市提供了众多可行性研究范例。
- Beijing (feasibility study): Charge could reduce the number of cars entering the 2nd Ring Road by about 10% during peak time hours
- 北京(可行性研究):征收交通拥堵费,可使在高峰 时段涌入二环以内道路的汽车总量减少10%。



Picture: gTKP

30 – 31 May 2013 (Foshan) SOLUTIONS

City logistics: freight consolidation centres

城市物流: 货运整合中心



Examples from the Efficiency Cluster Logistics Ruhr 案例: 鲁尔区高效集群物流

- •Optimized logistics is intended to reduce energy consumption by 20 percent.
- 物流优化的目标是降低20%的能耗。
- •Reduce energy consumption by 30 per cent.
- ■降低30%的能耗。
- Savings of up to 60 per cent of CO2
- ■降低至少60%的二氧化碳排放量。
- Cooperation between shippers and shippers and carriers,
- •托运人之间、托运人与承运人相互合作,
- •Consolidation of trips, increase of load factors, avoidance of unnecessary trips, vehicle fleet management, coordinated last-mile distribution
- ■整合行程、提高载荷率、少跑冤枉路、车队管理、协调"最后一英里"配送。



Clean vehicles: New Plate Quota in China, Registration taxes and feebates in Europe

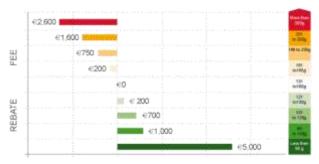


清洁能源汽车:中国推行新的购车指标政策,欧洲推出登记税及综合税

- China (local solutions): Bejing (without quota system) had 2.48 million registered private automobiles in 2008 and Shanghai (with quota) had 0.72 million locally registered private automobiles
- 中国(地方性解决方案): 2008年(尚未实行购车指标政策)落户北京的私家车共计248万辆;落户上海(实施购车指标政策)的私家车共计72万辆。
- 2010 price for vehicle registration is about €5500 (45,000yuan).
- 2010年,车辆落户费约为5,500欧元(约合4.5万元人 民币)。
- Europe (national solutions): A 10% increase in car registration taxes would reduce car ownership in European cities by about 1.4%.
- 欧洲(各国有自己的解决方案):车辆注册登记费提高10%,就能使欧洲私家车拥有量下降约1.4%。
- A feebate scheme reduced the total transport sector CO2 emissions in the Netherlands by 2-3%.
- 推行的综合税制让荷兰交通运输行业的二氧化碳排放 量降低了2-3%。



Picture: NY Times



Graph: PSA

Integrated planning: Sustainable Urban Mobility Plans

SEVENTH FRAMEWORK
PROGRAMME

整合的规划:可持续城市交通规划

- The Sustainable Urban Mobility Planning (SUMP) concept is strongly promoted by the EU and follows an integrated approach. It focuses on planning for the people's needs of urban mobility and quality of life rather than putting a one-dimensional focus on motorized private transport.
- 欧盟采用整合的交通规划,推行"可持续城市交通规划"(SUMP)概念,以公众对城市交通和生活质量的追求为出发点对交通做出整合的规划,而非仅仅关注私人机动交通工具。
- The SUMP concept is becoming also popular outside Europe, for example in Brazil, where the development of SUMPs is becoming mandatory for large and medium-sized cities
- 在**欧洲**以外的地区,"可持续城市 交通规划"(SUMP)这一概念也 越来越普及,例如巴西对大中城市正强制实施 "可持续城市交通规划"。



GUIDELINES

DEVELOPING AND IMPLEMENTING A SUSTAINABLE URBAN MOBILITY PLAN



www.mobilityplans.eu



Thank you for your attention! 谢谢!



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