

Non-motorized Transport

LCMPs in Indian cities, Udaipur Manfred Breithaupt, GIZ





giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH Challenges in developing cities



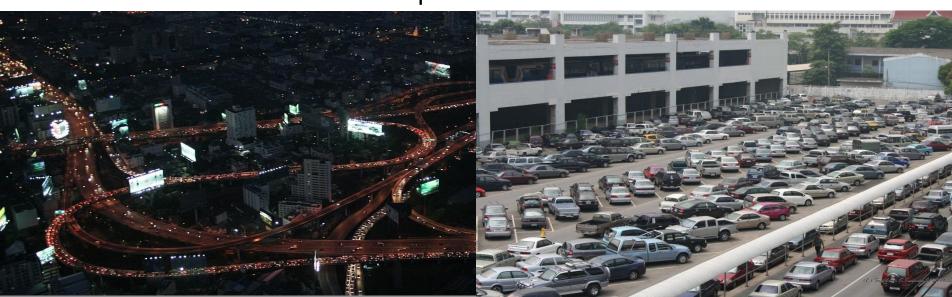
In most cities, **mobility** is dominated by **personal motorized transport.**Many people choose **cars** to move around...



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10-25% of urban areas are taken by road transportation infrastructure -A lot of space for cars but...



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...where is the space for people?

the **silent** pedestrian, the **invisible** cyclist must be **seen**... and **heard**







Provision of Cycling Infrastructure

- (1) Coherence:
 - Connect all important origins and destinations
 - Integration with public transport
- (2) Directness:
 - Direct routes and avoidance of detours

- (3) **Safety**:
 - Segregated bicycle lanes
- (4) **Comfort**:
 - Smooth pavement
- (5) Attractiveness:
 - Avoid deserted and isolated routes





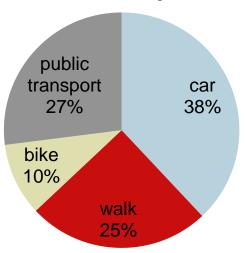




International Experiences



Modal-split¹



Examples: Berlin – Cycling

- Dense cycling network: segregated and non-segregated bicycle lanes, cycling on bus lanes, cycling streets, cycling share contin. on rise (now at 13%)
- 12 radial routes from the city centre to the outskirts and 8 connecting tangential routes
- Public bikes and Bike taxis

¹Modal share of bike in Germany:

12 % on average, Münster highest with 37 %





International Experiences

ences

Examples: Copenhagen – Car-free Development

Until 1962 all streets in the city centre were used by cars;
 all squares were used as car parks

In November 1962 Copenhagen's main street, Strøget has been

pedestrianized

- Today:
 - 96 000 m² car free space (33% streets, 67% squares)
 - Today 37% of all trips by bicycle
 - Vibrant city centre that attracts visitors throughout the year



Strøget, Copenhagen



SPACE

► S = Safety





SPACE: Safety (3)





"I bet I can cross the road alive"



SPACE



P = Priority



From Michael King study developed with SUTP January 2004



SPACE: Priority (2)





Question:
Where is the footpath?
and
Whose is the footpath?



SPACE: Priority (2)





Senior citizens are often deterred from walking



SPACE

A = Accessible







SPACE

C = Comfort





SPACE: Comfort (2)



Pedestrian overpasses uncomfortable and people seldom use them.



SPACE: Comfort (3)







SPACE

E = Enjoyable



Do you think a person would enjoy walking on this "footpath"



SPACE: Enjoyable (2)





Gig Deutsche Gesellschaft für Internationale (2) SPACE: Enjoyable (2)





It is a footpath not a stair case



What if they have what they want?





Strasbourg (F)



Cycling is for everyone



For the rich (data 1995)

Country	Percentage of the trips in bicycle	Order in EU (+ Switzerland)	Income per capita	Order in EU (+ Switzerland)
Netherlands	27	1	EUR 25.000	7
Denmark	18	2	EUR 32.000	3
Switzerland	15	3	EUR 38.000	2
Spain	1	14	EUR 15.000	14
Greece	<1	15	EUR 12.000	15
Portugal	<1	16	EUR 11.000	16

 Only in some developing countries the idea exists that the bicycle is for the poor



Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH Cycling for everyone



For men and women:

Netherlands: 55% of trips by women

49% of trips Germany:

United States: 25% of trips

Australia: 21% of trips

For all ages:

Netherlands 65+ 24% of trips by bicycle



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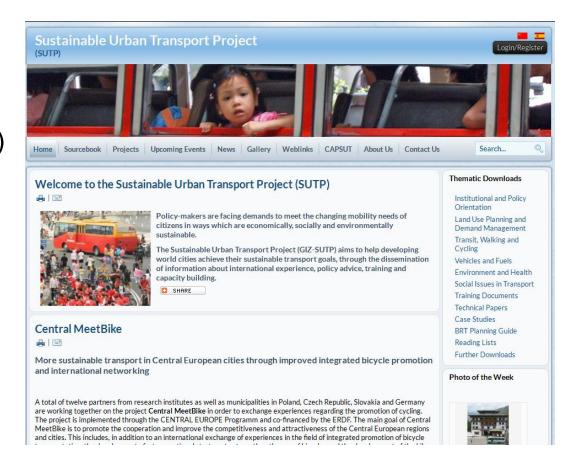




SUTP Website (Engl.,CN, Span.)

- Active since 2002
- GIZ SUTP Publications
- Multimedia (gallery, videos)
- 35,000 visitors (per month)
- Almost 50,000 registered users
- Approx. 35,000 downloads (per month)

www.sutp.org







Recent publications



Measuring Public Transport Performance Lessons for Developing Cities

Sustainable Urban Transport Technical Document # 9



Rising Automobile Dependency

How to break the trend?

Sustainable Urban Transport Technical Document # 8

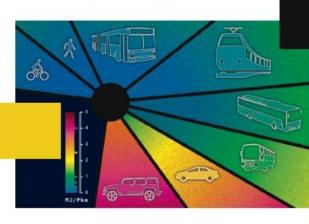


Urban Transport and Energy Efficiency

Module 5h

Sustainable Transport:

A Sourcebook for Policy-makers in Developing Cities



Published by: giz books



BMZ

On behalf of Federal Ministry for Economic Cooperatio and Development





Training courses and Training manuals

- Bus Rapid Transit
- Public Awareness and Behavioural Change
- Non-motorised Transport
- Transport Demand Management
- Bus Regulation and Planning
- Financing Urban Transport
- Transport and Climate

