BICYCLE URBANISM BACK 知道 羅FUTURE CITY

FLDRIAN LDRENZ, SMARTER THAN CAR

TU WIEN RINGVORLESUNG: RADFAHREN IN DER STADT 🔤 28. APRIL 2014 🕬





Cycling hispter image, wien 1890...

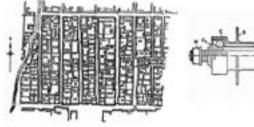


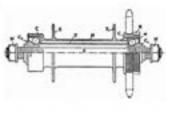
Bicycle Urbanism

Individual mobility to access urban functions while fostering urban quality and social equity.

Analyzing, planning and maintaining urban environments with a focus on pedal-powered vehicles.

Urbanization and appropriation of cities with pedalpowered vehicles.



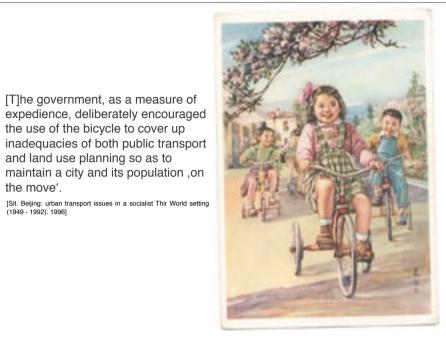


BACK

SMARTER THAN CAR (STC)

比车车

1958 ••• BEIJING ••• 2014



Bicycle propaganda http://woofjakarta.blogspot.com/2011/10/postcard-china-propaganda-girls-bicycle.html



the use of the bicycle to cover up

and land use planning so as to

the move'.

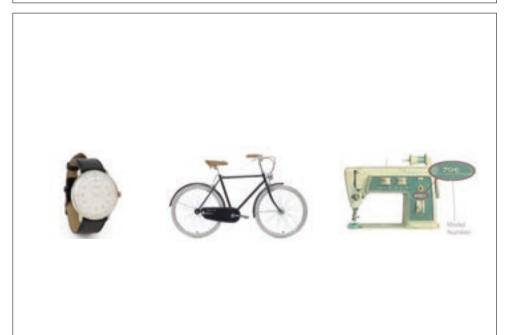
Safeguard the Orderliness of the Revolution: Transportation Is Getting a New Look | Anon | 1970s http://www.flickr.com/photos/7286111@N07/4807960994/sizes/l/in/set-72157624181966128/



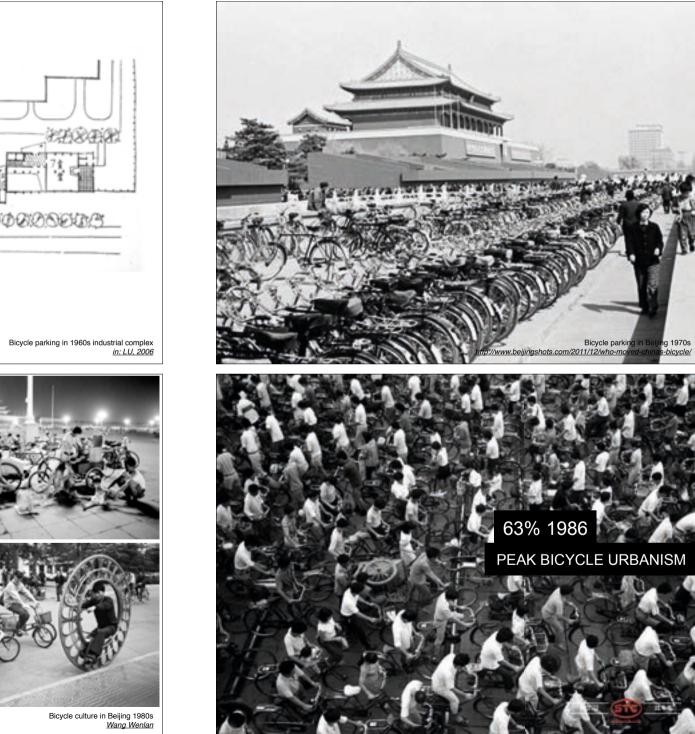
In 1949, the city had only 215 km of surfaced roads. The widest road ran from Dongdan to Xidan (Changan Avenue) for a lenght of 3,8 km, and its widest part did not exceed 11m.

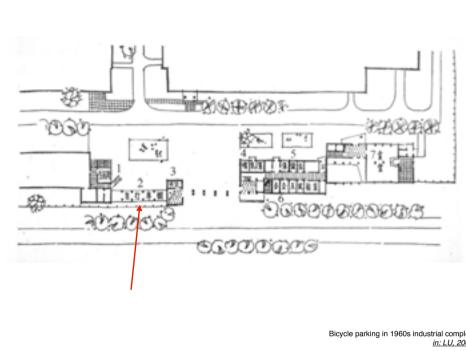
[Sit. Beijing: urban transport issues in a socialist Third World setting (1949-1992). 1996]

Tienamen square before expansion | Anon | ca.1950 http://blog.uchinatravel.com/?p=79



The Three Bic Items 1960s | Anon | 1960s



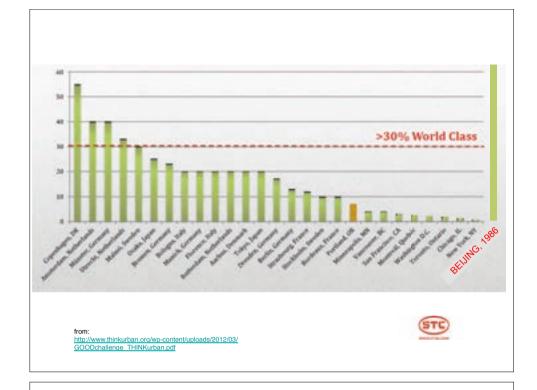


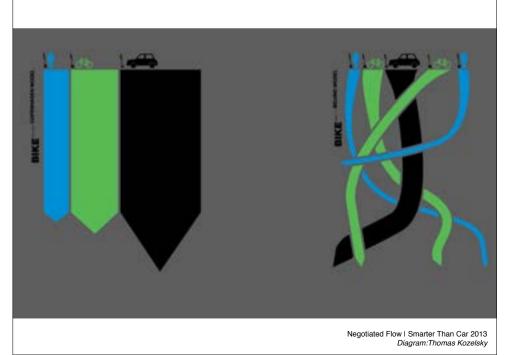




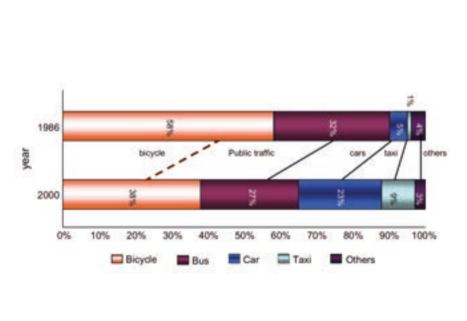
Cycling population of Beijing versus contemporary cities I Smarter Than Car 2013 Compiled from various sources









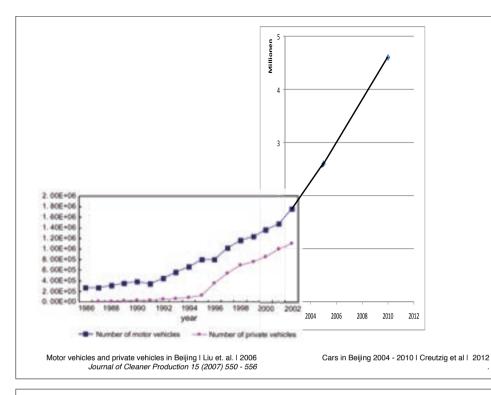


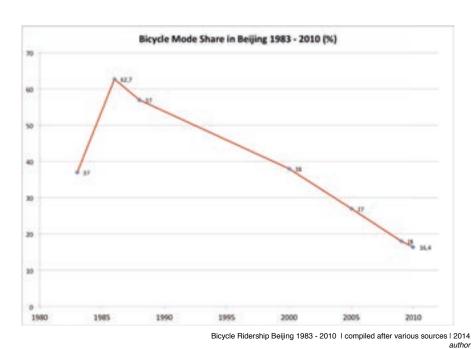
Private traffic mode of Beijing between 1986 and 2000 l Liu et. al. l 2006 Journal of Cleaner Production 15 (2007) 550 - 556





Cars I Matthew Miederhauser I 2011 http://www.mdnphoto.com/blog/gilded-visions-of-modern-china/









BEIJING, 2010-2014





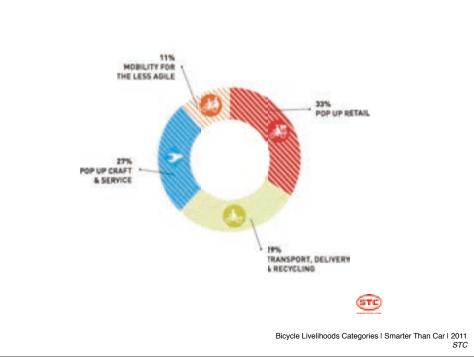


We define **,pedal-based livelihood**' as the realm where bicycles (or tricycles) are used to organize and sustain a person's everyday life by providing identity, economic opportunity and functional utility.

[Lorenz & Bufton. Beijing's pedal-based livelihoods as a muse for bicycle urbanism. 2012]









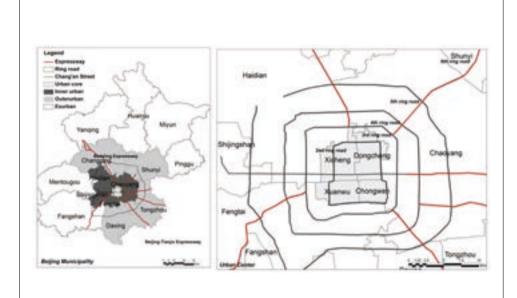




Tianamen Gate: 1977 versus 2013 I Wang Wen Lan (1977) Florian Lorenz (2013) author himself

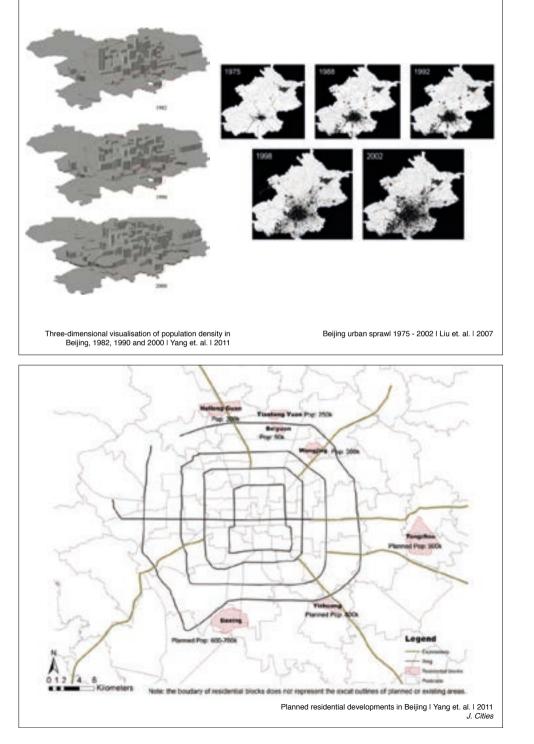






Beijing Urban Structure | Yang et. al. | 2011





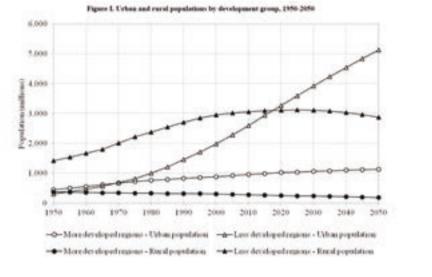






BACK M REAR MOBILITY CHALLENGE

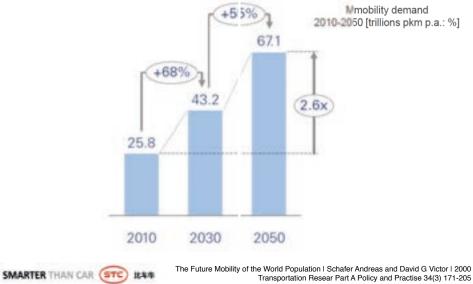
URBAN GROWTH 🕬



World Urbanization Prospects - The 2011 Revision I United Nations Department for Economic and Social Affairs I 2012 http://esa.un.org/unup/pdf/FINAL-FINAL_REPORT%20WUP2011_Annextables_01Aug2012_Final.pdf

SMARTER THAN CAR STC 1844

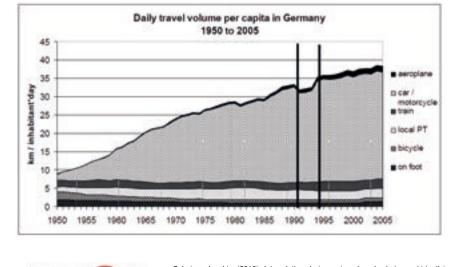
TRAVEL DEMAND



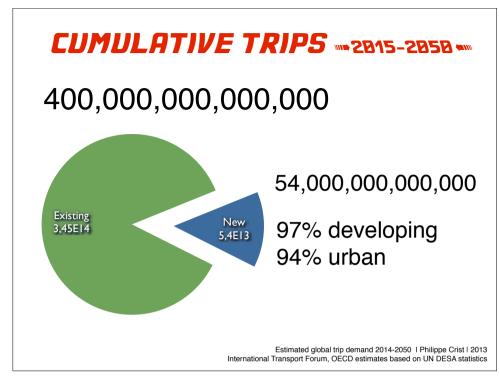
TRAVEL DEMAND

SMARTER THAN CAR (STC)

建基带



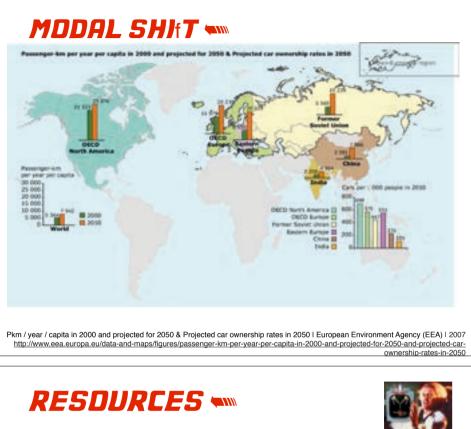
Scheiner, Joachim (2010): Interrelations between travel mode choice and trip distance: trends in Germany 1976 to 2002. Journal of Transport Geography 18(1), pp. 75-84.

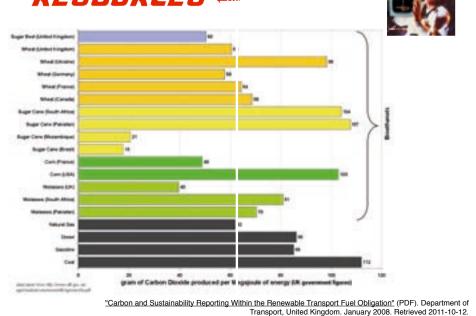




Lack of access to safe walking, cycling, and public transport infrastructure remains an important element affecting the success of modal shift strategies, in particular in developing countries (Sonkin et al., 2006; Tiwari and Jain, 2012b).

> IPCC 5th Assessment Report "Climate Change 2014: Mitigation of Climate Change" Chapter 8: Transport | IPCC | 2014







So far, the standard response to addressing urban mobility issues typically has been to increase infrastructure, mostly for cars, such as building more roads, highways, flyovers, or tunnels.

Unfortunately, these developments engender a vicious circle: more infrastructure stimulates urban sprawl because access to peripheral urban areas is eased, increasing the use of cars which, in turn, calls for further infrastructure development, and so on.





Solving transport headaches in the cities of 2050 | 2013/06/18 http://www.bbc.com/future/story/20130617-moving-around-in-the-megacity

PARADIGM SHIFT





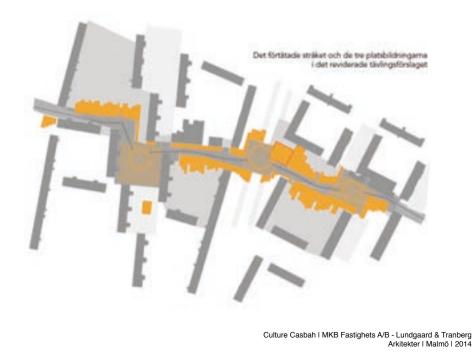
Streets need to be adapted, with walkways, crossings, and cycling lanes.

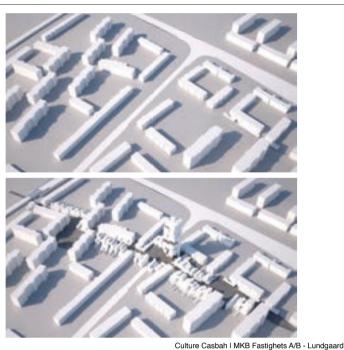
http://http://unhabitat.org/urban-themes-2/mobility//?p=79





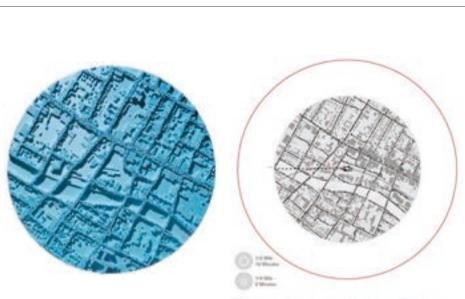






Culture Casbah I MKB Fastighets A/B - Lundgaard & Tranberg Arkitekter I Malmö I 2014





Transit Station - Walking Radius

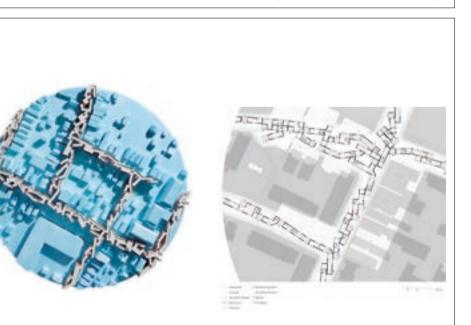
The Oranges - Thought on a Walking City I Michael Meredith and Hilary Sample, MOS I MOMA Foreclosed Exhibition I 2011 http://www.moma.org/interactives/exhibitions/2012/foreclosed/oranges



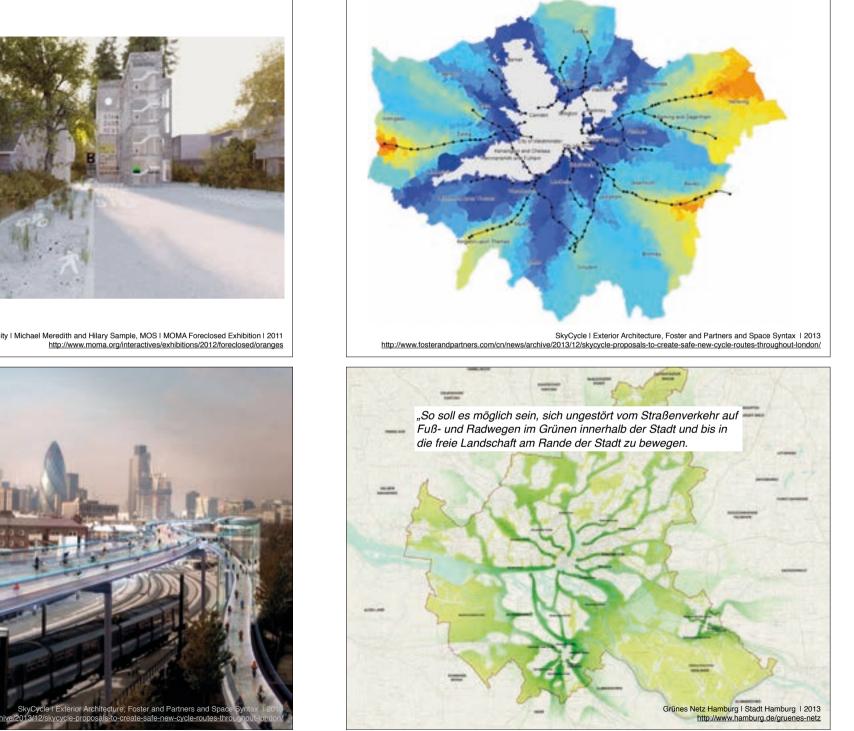
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Netz Hamburg, Volksparkachse und Eimsbüttelachse I Stadt Hamburg I 2013 http://www.hamburg.de/gruenes-netz

BACK



Bicycle Urbanism to Addressing the Urban Mobility Challenge

- * Grow by Urban Infill
- * Raise Proximity and Connectivity
- * Diversify Form and Functions
- * Create Livability and Urban Life
- * Green Urban Branding
- * Build New Infrastructure
- * Aid to Climate Change Adaptation
- * Foster Urban Equity
- * Address Economic Issues

Transforming the cityscape with Bicycle Urbanism

- * Hands-on urbanism on a micro scale
- * Fine-grain economies
- * Flexibility and fluidity
- * Clustering means to add-up
- * Pedal-based livelihoods = social infrastructure

Cities are to be (again) optimized for cycles! = Bicycle Urbanism



Icons by: Enzy, Fabio Meroni, Benni, Sam Vermette, Reuben and public domain via http://www.thenounproject.com

 THINK TANKS

 BIKESHARE RESEARCH

 WORLD BIKE FORUM 2015

SMARTER 比车牛

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