

Why?

WIEN 2025

Urban Development Plan Vienna 2025 → Change & Change Management

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"the <mark>liveable</mark> city"
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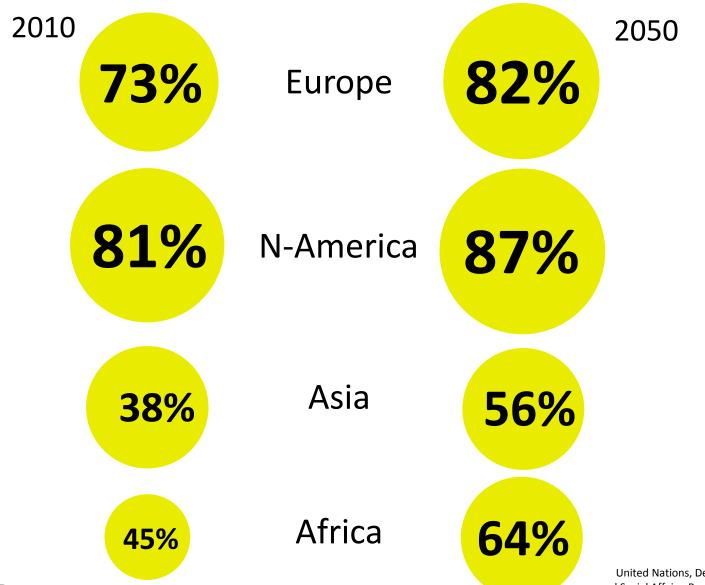
"the robust city"

"the <mark>learning</mark> city"

"the prosperous city"

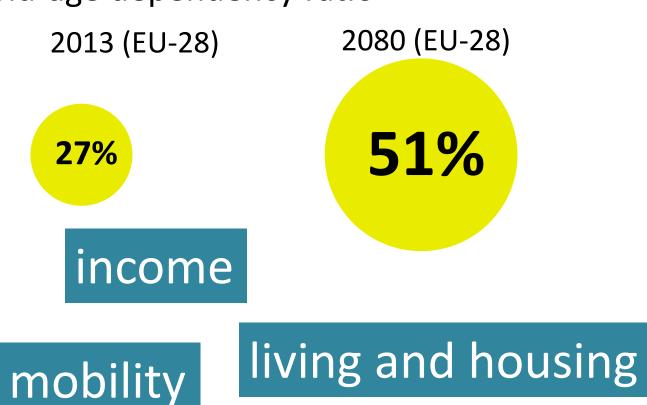
Resilience & getting fit for the future

Urban Population

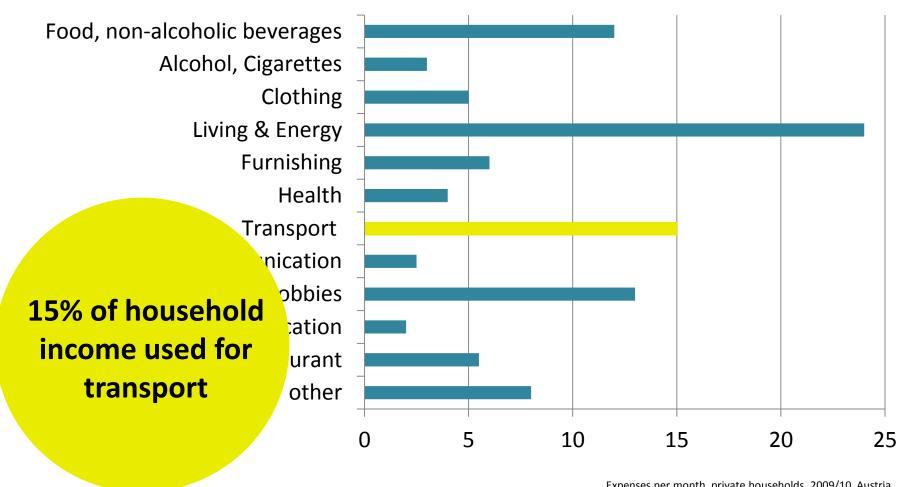


Demographic Ageing





Income and poverty



Expenses per month, private households, 2009/10, Austria Statistik Austria (2014)

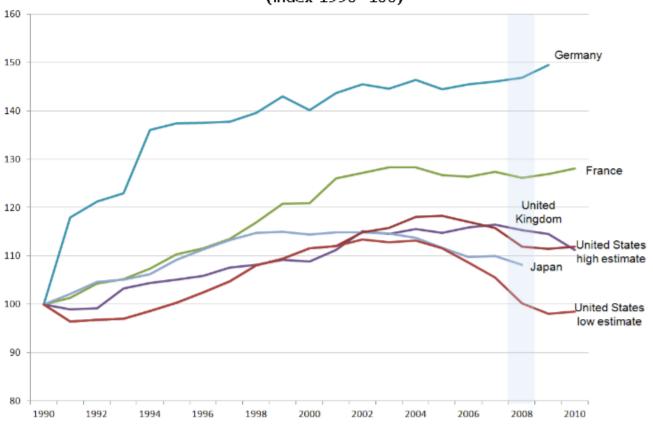
Growth and limits to growth

- low GDP growth rates
- definition of growth is changing ("beyond GDP")
- decoupling GDP from fossil resources



Transport performance

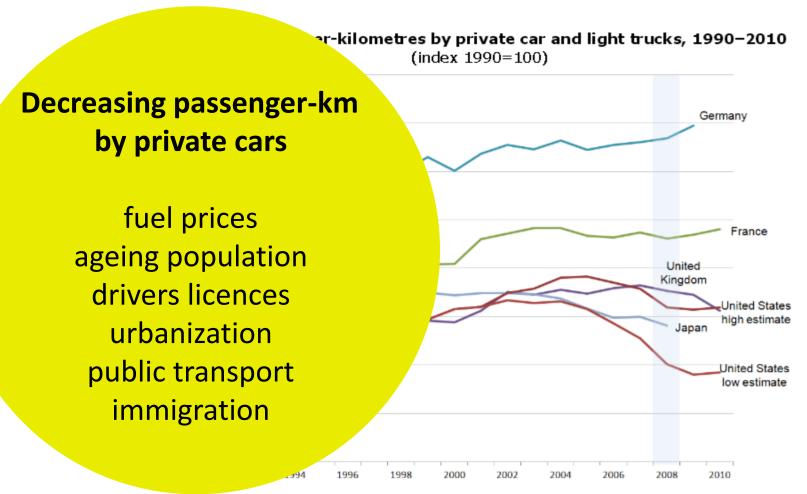
Figure 1. Passenger-kilometres by private car and light trucks, 1990-2010 (index 1990=100)



Source: ITF statistics; the high estimate for the USA assumes car occupancy rates remain at the level measured in 2001, and the low one that they decline as of 2001 to the level observed in the most recent household travel survey.

International Transport Forum (2012)

Transport performance



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International Transport Forum (2012)

Central Questions

- How can active mobility support the cities' adaption strategies in the light of this future development?
- Are there perspectives and possible solutions?
- Are there resilient urban structures?
- Is bicycle urbanism related to urban resilience?

Definition of Resilience

[...] Resilience [...] is a measure of the persistence of systems and of their ability to absorb change and disturbance [...]." (Holling, 1973) use this ability for change and further development



psychology



ecology



economy

change of growth perception growth vs. fossile resources



Urban Development Climate change / Climate mitigation Critical infrastructures Mobility? Urban Fabric? Social relations?

Definition of Resilience

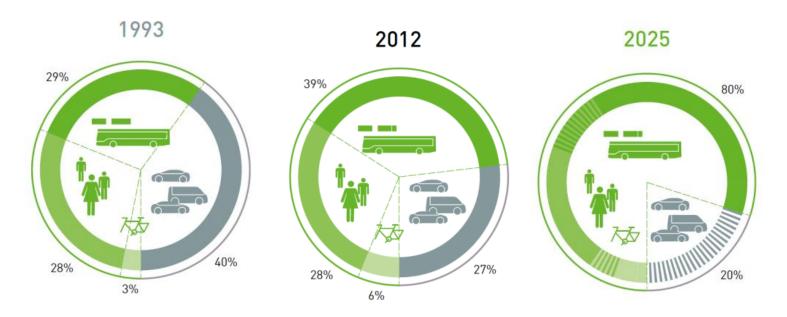
robust
diverse
adaptive imaginative
redundant
self-sufficient
flexible

Definition of Resilience

	definition	example
robust	to overcome shocks , disturbance and	accidents, traumatic experience $ ightarrow$ to get back to a physical
	longlastig stress; to be reststant against	and psychological initial condition
	negative external influences	
Self-sufficient, autarkic	to be independent of external influences	electricty from 100% wind and solar energy
redundant	to have safety resources; to be equipped	hospitals with emergcharacteristic
	well	ency power supply
imaginative	to have knowledge and creativity	brownfield → culture and recreation park
diverse	to have alternatives; to be equipped	roads for car-traffic as well as infrastructure for public
	variously	transport, cycling, walking
adaptive	to learn the lesson from crisis and from	flood → warning systems, dykes, Hochwasserabwehrpläne,
	disturbances; to anticipate external and	prohibition on buildings
	internal incentives	
flexible	to be able to tread different paths ; to adapt	lose a job → to go into business for oneself
	to different frameworks	

Own compilation on the basis of the definitions of resilience (Jakubowski, 2013; Kegler, 2014; Zolli/Healy, 2012; Sieverts, 2013; Stiftung Neue Verantwortung, 2013; Initiative für Raum und Resilienz, 2013)

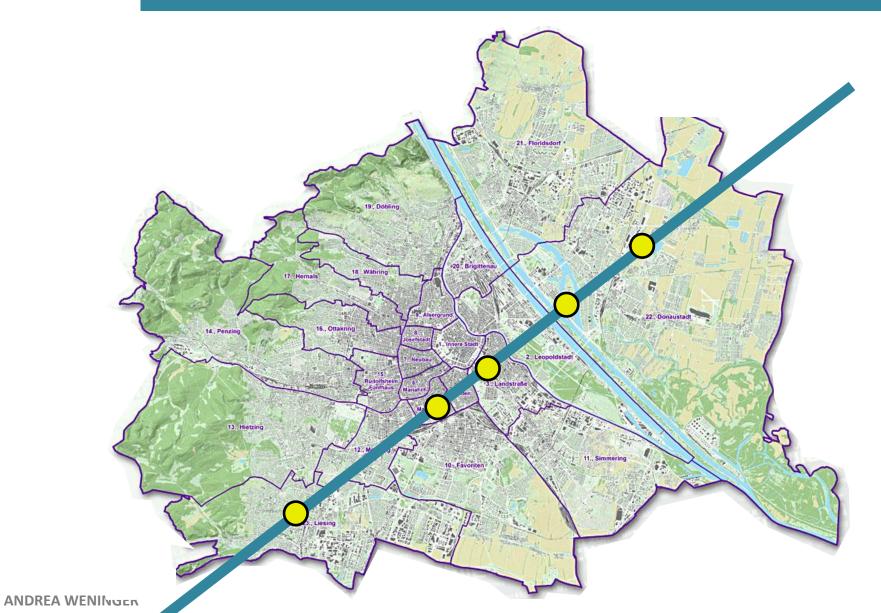
Mode Share Vienna

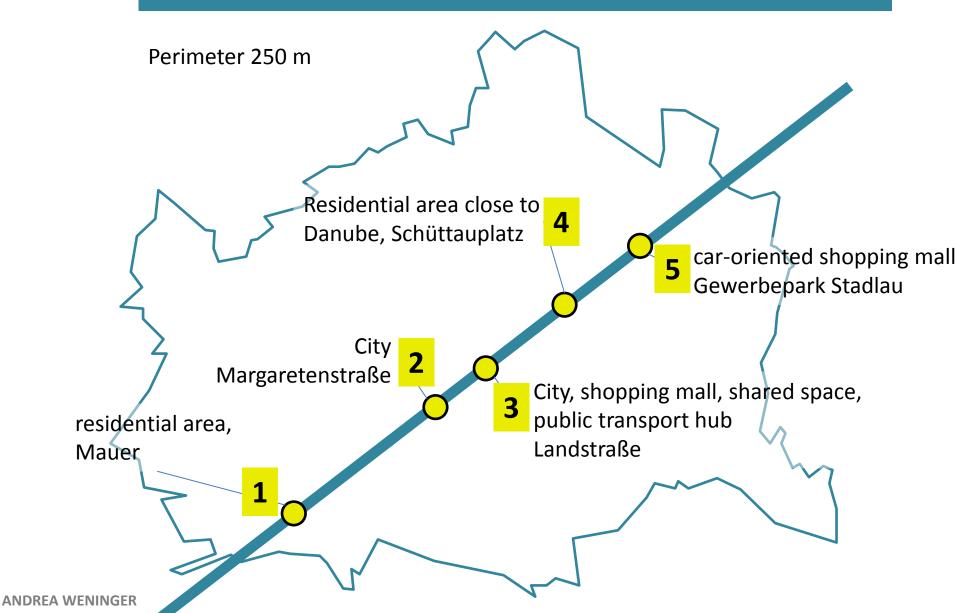


- reduction of car passenger km in the (dense) city
- one new major road and motorway extension
- new subway lines and extension of public transport
- + 260.000 inhabitants (!) until 2035

Methods

- Field research
 - traffic volumes
 - space allocation
 - urban fabric
- Criteria and indicators (resilience, urban development & transport)













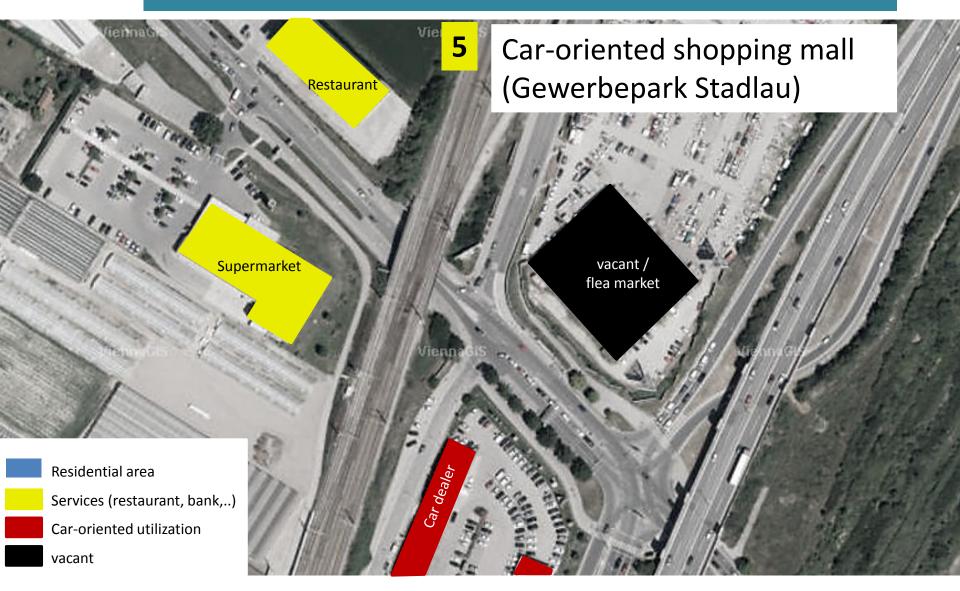


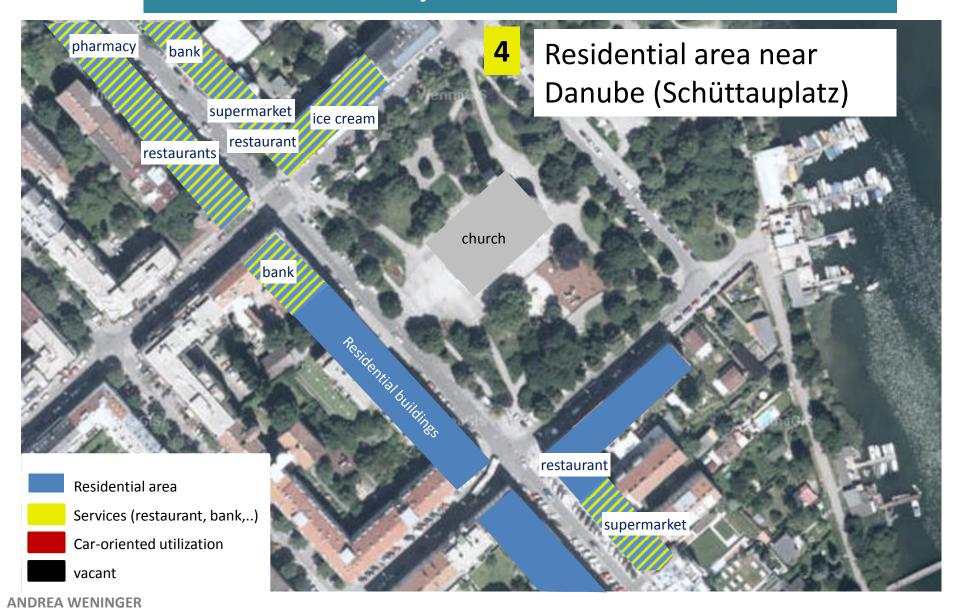












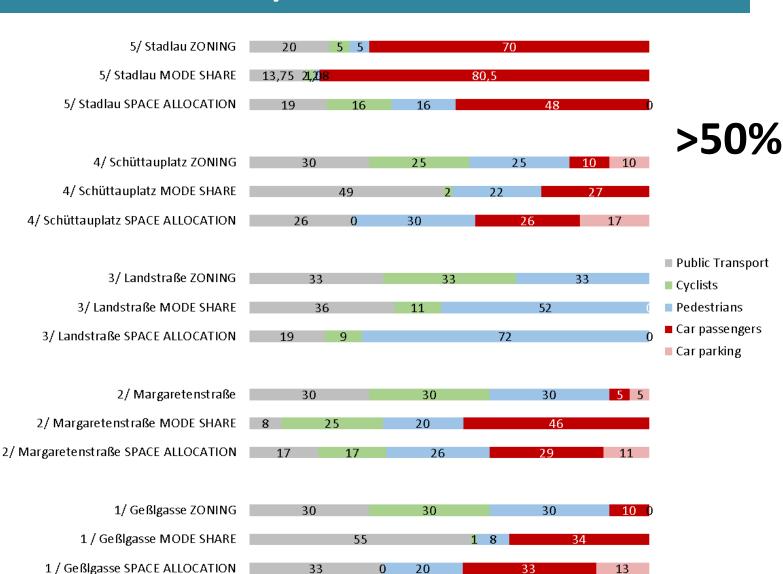












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Indicators of resilient urban development (in process)

theme	indicator	1	2	3	4	5
Road/Street	Cycling > 15%		Χ			
Mode Share	Walking > 20%					
	Public Transport > 20%					
	Total >50%					
Road/Street	Cycling >15%		X			
Space Allocation	Walking >20%					
	Public transport > 20%					
	Total >50%					
Urban Fabric	Density > 100 inhabitants /ha		Х			
	Mixed use		Х			
transport infrastr.	Redundant, diverse		Х	Х	Х	Х
Green infrastructure					Х	Х

Indicators of resilient urban development (in process)

theme	indicator	1	2	3	4	5
Bike Parking No of bike parking spaces			X	X		
Car Parking Number of car parking spaces						X
Social interaction People interaction on street			X	Х		
Social infrastructure	kindergarden, schools, pharmacy, health facilities		Χ			

What is going on at the moment?

- Building code Vienna: reduction of mandatory car parking spaces (1 car parking space per 100 m² living space);
 - -30% car paring for new living areas, minus 1/5 car parking for office/commercial areas
- Reduction of car parking spaces for new urban development areas (minus 90% permitted)
- Bike parking (1 per 30 m² living space recommended)
- Zoning category for subsidised housing

What is going on at the moment?

- New urban development areas with collective garages
- Pop up stores, temporarily used buildings & spaces
- Cargo bikes & Street food , street kitchens





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the robust city

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the prosperous city



Seestadt Aspern Slim House by PPAG Architects, der Standard.at (2015)