

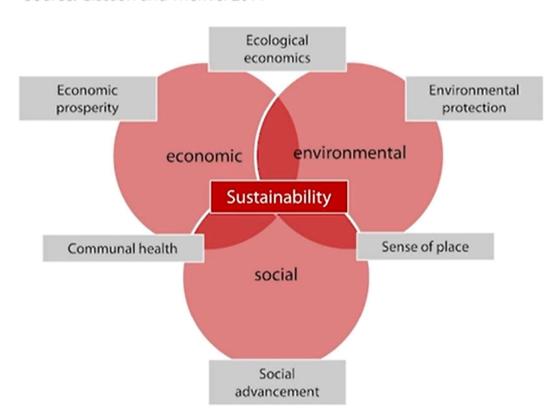




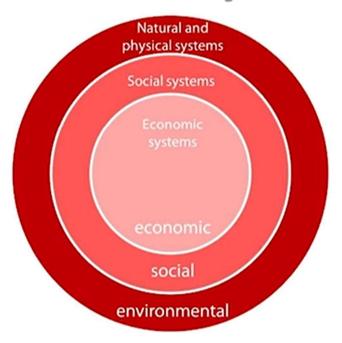
Thirties: South/ Southwest Asia

THE SUSTAINABILITY DIAGRAM

the environmental, social and economic dimensions Source: Glasson and Therivel 2011



the hierarchical diagram



"We have to protect the environment because if we don't, all the other problems, all the other causes that exist, are pointless. Everything else is pointless." Extinction Rebellion Protester, Nov 2018

SDG BY SUSTAINABILITY DIMENSION



Source: Stockholm Resilience Centre 2016









Urban Mobility

Imran Ali Sultan





Gender + Social





Challenges







TRANSPORT-RELATED AIR POLLUTION

- accounts for about half of the total estimated annual cost of outdoor air pollution of US\$1.7 trillion in OECD countries in 2010 (OECD 2014)
- For 311 cities, 86% exceed WHO air quality guidelines equating to 730,000 premature deaths (Kuylenstierna et al 2014)
- Air pollution is single largest environmental health risk in Europe responsible for around 400,000 premature deaths per year (EEA 2020)



News V Ukraine war

Features

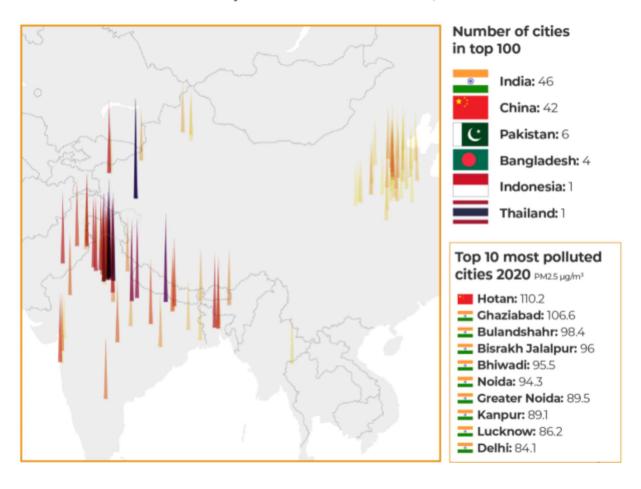
Economy

Opinion

Vid

World's most polluted cities

94 of the world's 100 most polluted cities are in India, China and Pakistan.



Rank 🌲	City	2021	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	2020	2019	2018	2017
1	Bhiwadi, India	106.2	145.8	129.8	120.2	125.7	86.5	95.9	55.6	55.4	37.1	91.1	188.6	136.6	95.5	83.4	125.4	
2	Ghaziabad, India	[102]	199.9	172.2	97.8	86.3	52.9	47.2	35.3	37.6	30.8	89.7	218.3	163	106.6	110.2	135.2	144.6
3	Hotan, China	[101.5]			158	91.1	167.4	57.4	70.9	93.2	79.3	126.1	111.5	62.6	110.2	110.1	116	91.9
4	Delhi, India	96.4	183.7	142.2	80.5	72.9	47.4	47.1	35.6	36.9	30.2	73.7	224.1	186.4	84.1	98.6	113.5	108.2
5	Jaunpur, India	95.3	182.2	143.5	91	70	51.1	40.7	33.5	34.2	36.8	75.7	196	195.7				
6	C Faisalabad, Pakistan	94.2	207.1	118	71.2	44.6	51.2	44.7	50.4	50	51.9		234.5	241.7	73.2	104.6	[130.4]	
7	Noida, India	91.4	185.3	143.4	80.5	68.2	48	43.8	33.9	35	26.5	76.9	204.4	154.8	94.3	97.7	123.6	134
8	C Bahawalpur, Pakistan	91	173.9	145.1	77.3	51.4	45.2	54.4	42.2	43.7	38.2	67.2	197	221.2	78.7			
9	C Peshawar, Pakistan	89.6	103.9	137.2	59.6	48	49.2	68.5	54.3	55.8	60.8	77.5	182.3	176.9		63.9		
10	Bagpat, India	89.1	146.1	106.3	88.3	87.1	65.7	53.9	32.8	31.5	24.3	84.7	213.6	128.1		88.6		
11	Hisar, India	89	114.6	111.5	90.7	67.4	62	62.2	44	40.7	36.8	74.7	205.5	157.4	81.1	81		
12	Faridabad, India	88.9	128	109.3	88.8	76.3	58.4	57.2	40.8	38.7	30.2	82.2	202.7	163.5	83.3	85	129.1	123
13	Greater Noida, India	87.5	185.9	111.4	69	60.2	48	53.1	49.4	50.1	36	78.4	191.3	160.4	89.5	91.3		
14	* Rohtak, India	86.9	147.3	109.4	80.5	64	47.6	46.6	48.8	43.5	40.8	76.9	217.5	139.9	74.4	59.7	81.6	96.7
15	C Lahore, Pakistan	86.5	140.6	135.1	55.8	38.7	33.8	27.9	25	36.5	45.6	85.1	205.4	212.1	79.2	89.5	114.9	133.2

The top 15 most polluted cities, ranked according to their PM2.5 ranking. PM2.5 refers to atmospheric particulate matter (PM) that have a diameter of less than 2.5 micrometers, which is about 3% the diameter of a human hair (Source: <u>IQAir: World's Most Polluted Cities 2021 (PM2.5))</u>.

Increasing pollution is another factor affecting liveability in the region, especially in South Asia. In the latest survey, this is reflected in the ranking of Nepal's capital, Kathmandu, which fell two positions, to 129th place, owing to deteriorating air quality. Dhaka (139th) in Bangladesh—which has been the lowest ranked city in Asia for over a decade—also saw a further decline in its liveability rating owing to increasing air pollution, originating primarily from the brick kilns that line the outskirts of the city.

Apart from Dhaka, Karachi (137th) in Pakistan and Port Moresby (136th) in Papua New Guinea are the other two Asian cities that appear in the bottom tenscoring cities in the ranking. Stability remains the key factor in defining the lowest-scoring locations in the region.

Euro-2 fuel banned in Lahore to combat worsening air pollution

Vehicles causing environmental pollution will be

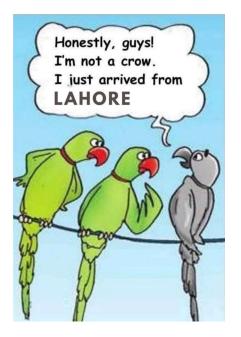
seized, warns Punjab finance minister

Our Correspondent November 16, 2021



PHOTO: AFP

LAHORE: To rein in alarmingly high level of environmental pollution in Lahore, the



Govt Announces Its Decision on School Closure If Smog **Situation Worsens**

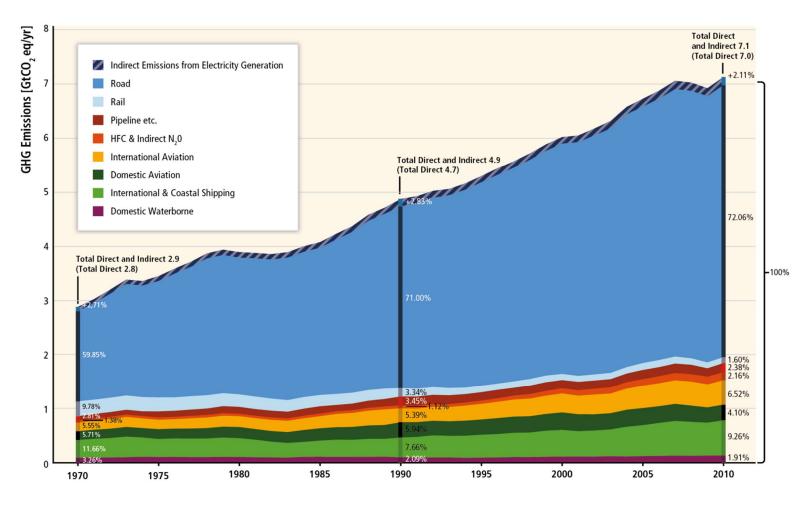


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Rizvi Syed

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GLOBAL TRANSPORT EMISSION GROWTH Source: Sims et al 2014



ROAD TRAFFIC CRASHES

Source: WHO 2018

 $1.35\,$ million deaths per year (2016) from road traffic crashes equals

3,700 people dying every day

- Road traffic injury is now the leading cause of death for children and young adults aged 5–29 years
- Between 2013 and 2016, no reductions in the number of road traffic deaths were observed in any low-income country
- some reductions were observed in 48 middle- and highincome

1970s Dutch Protests Stop de Kindermoord ("stop the child murder")



Top ten positions

City	Location	Rank	Index	Stability	Healthcare	Culture & Environment	Education	Infrastructure
Vienna	Austria	1	99.1	100.0	100.0	96.3	100.0	100.0
Copenhagen	Denmark	2	98.0	100.0	95.8	95.4	100.0	100.0
Zurich	Switzerland	3	96.3	95.0	100.0	96.3	91.7	96.4
Calgary	Canada	3	96.3	95.0	100.0	90.0	100.0	100.0
Vancouver	Canada	5	96.1	90.0	100.0	100.0	100.0	92.9
Geneva	Switzerland	6	95.9	95.0	100.0	94.9	91.7	96.4
Frankfurt	Germany	7	95.7	90.0	100.0	96.3	91.7	100.0
Toronto	Canada	8	95.4	95.0	100.0	95.4	100.0	89.3
Amsterdam	Netherlands	9	95.3	90.0	100.0	97.2	91.7	96.4
Osaka	Japan	10	95.1	100.0	100.0	83.1	100.0	96.4
Melbourne	Australia	10	95.1	95.0	83.3	98.6	100.0	100.0

Source: EIU.

Bottom ten positions

City	Location	Rank	Index	Stability	Healthcare	Culture & Environment	Education	Infrastructure
Tehran	Iran	163	44.0	55.0	45.8	32.9	50.0	39.3
Douala	Cameroon	164	43.3	60.0	25.0	45.6	33.3	42.9
Harare	Zimbabwe	165	40.9	40.0	20.8	51.9	66.7	35.7
Dhaka	Bangladesh	166	39.2	55.0	29.2	40.5	41.7	26.8
Port Moresby	PNG	167	38.8	30.0	37.5	38.0	50.0	46.4
Karachi	Pakistan	168	37.5	20.0	33.3	35.2	66.7	51.8
Algiers	Algeria	169	37.0	35.0	29.2	45.4	50.0	30.4
Tripoli	Libya	170	34.2	30.0	29.2	33.8	41.7	41.1
Lagos	Nigeria	171	32.2	20.0	20.8	44.9	25.0	46.4
Damascus	Syria	172	30.7	20.0	29.2	40.5	33.3	32.1

Source: EIU.



Category 5: Infrastructure (weight: 20% of total)

Indicator	Source
Quality of road network	EIU rating
Quality of public transport	EIU rating
Quality of international links	EIU rating
Availability of good-quality housing	EIU rating
Quality of energy provision	EIU rating
Quality of water provision	EIU rating
Quality of telecommunications	EIU rating



Cities had been built by men for the men







Visit

از دیروز به اینسو عکسی از BBC News ... یک پدر افغان همراه با

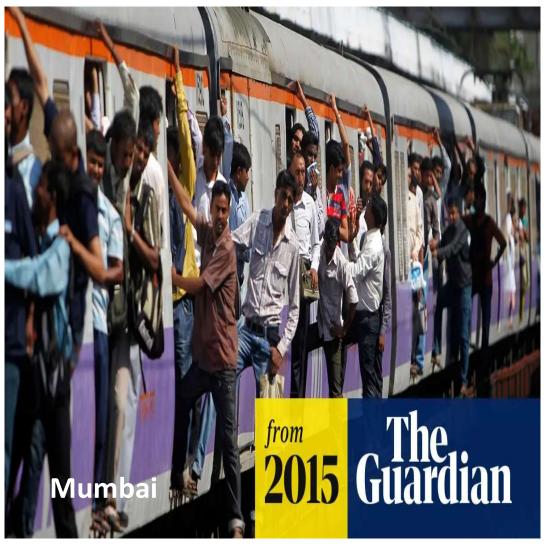
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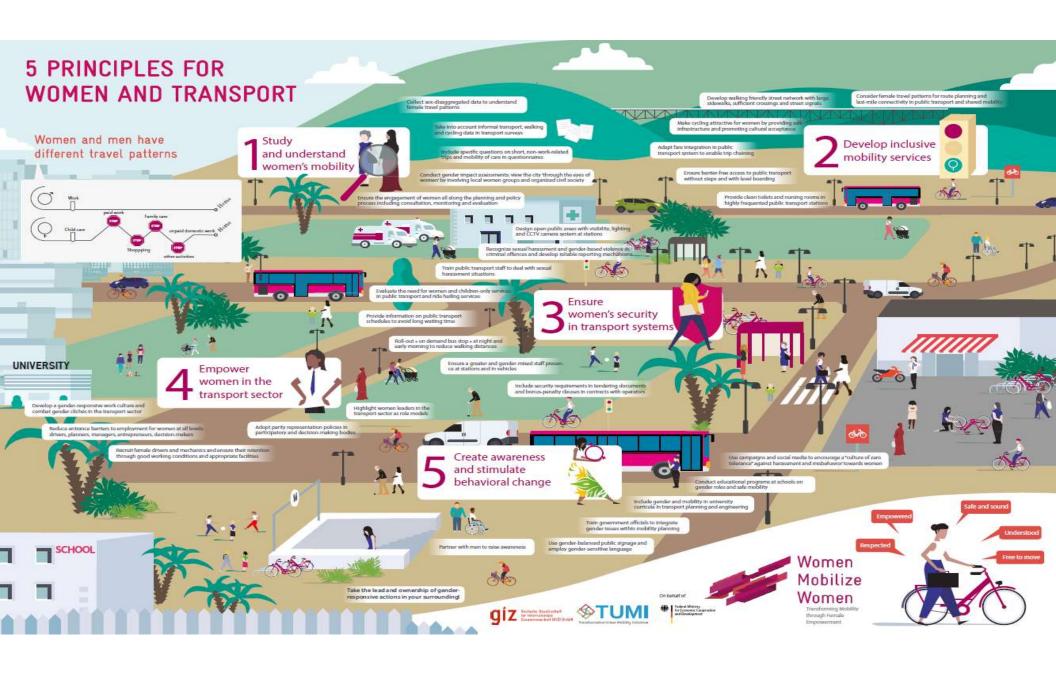


Public buses in Lahore are not women friendly: report

BY MONITORING REPORT, (LAST UPDATED DECEMBER 20, 2017)





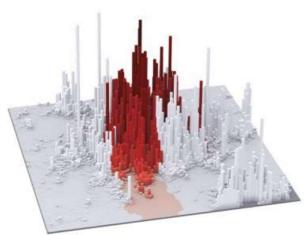


European Cities American Cities

Developing World Cities

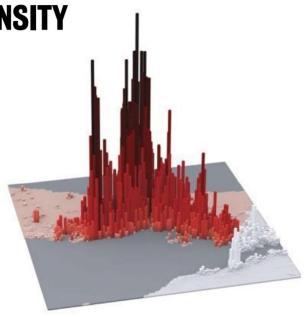
URBAN FORM – URBAN DENSITY

Source: Rode, Kandt et al 2016



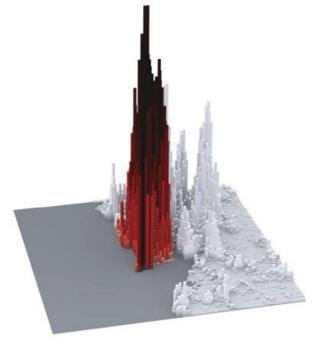
SAO PAULO 10,376Avg. density central area of 10 km radius [pers./sqkm]

29,700 Max. Density [pers./sqkm]



ISTANBUL 20,128Avg. density central area of 10 km radius [pers./sqkm]

77,300 Max. Density [pers./sqkm]



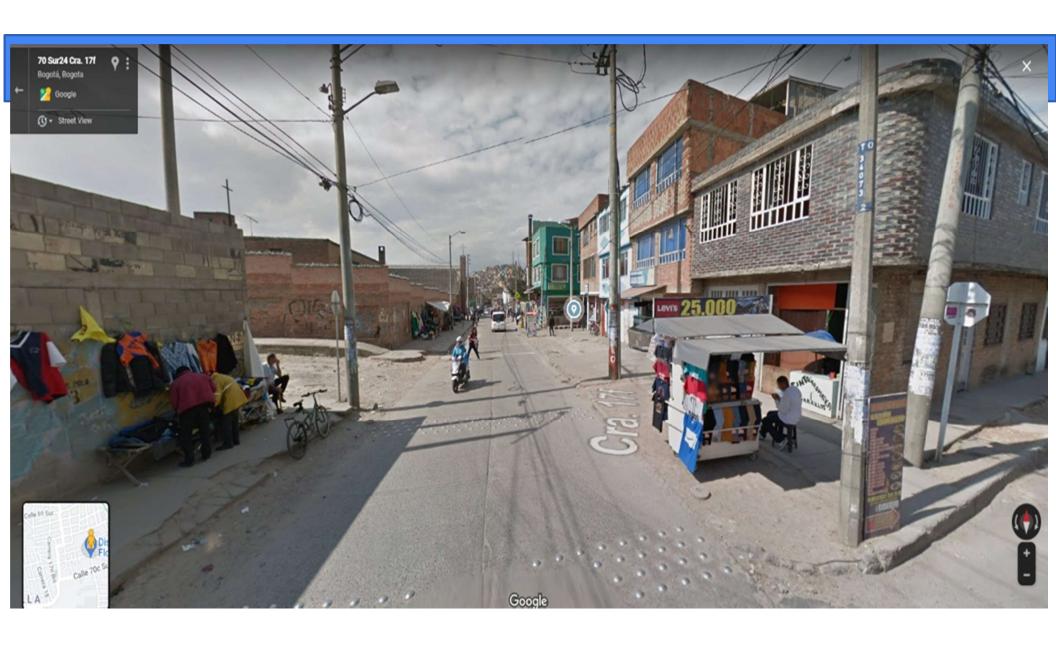
MUMBAI 25,316 Avg. density central area of 10 km radius [pers./sqkm]

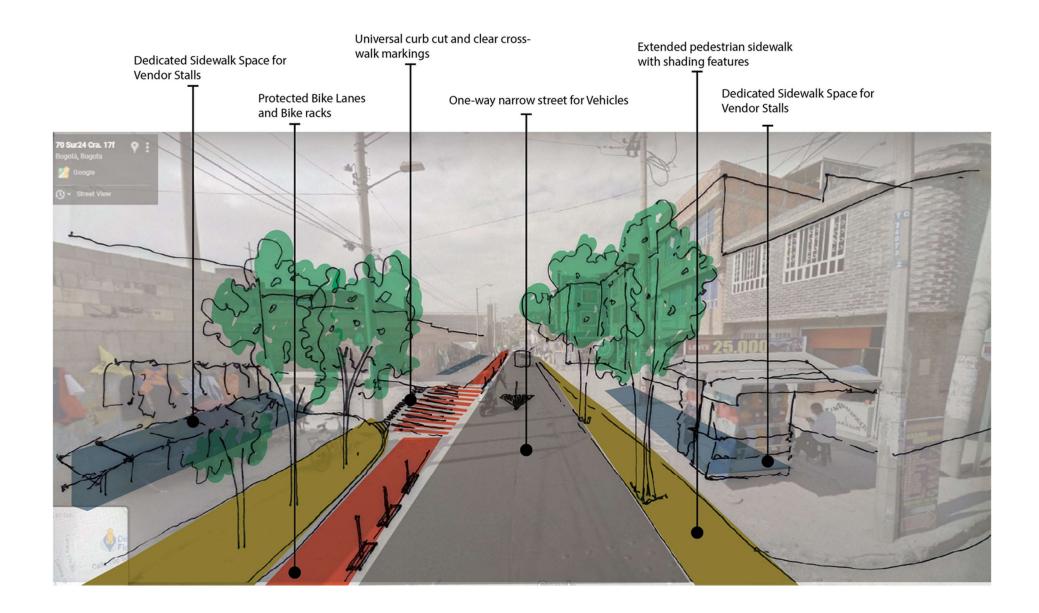
121,300

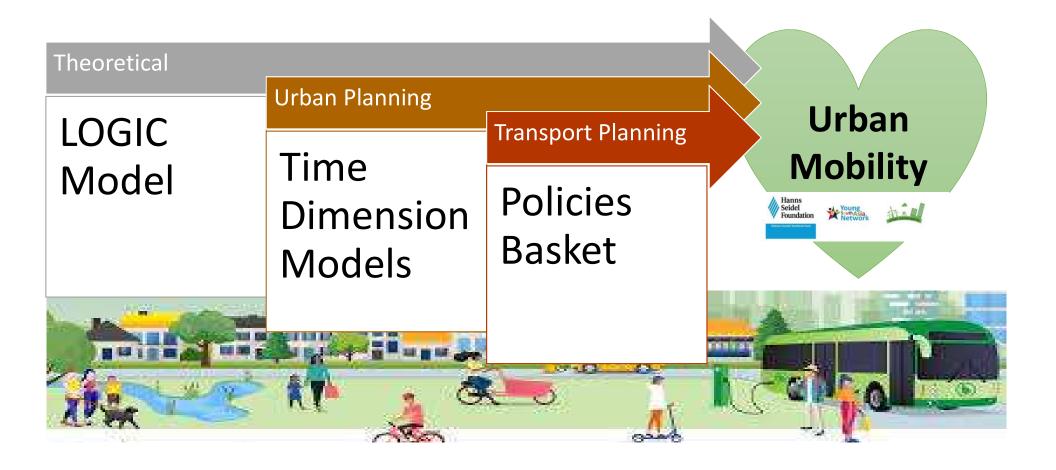
Max. Density [pers./sqkm]



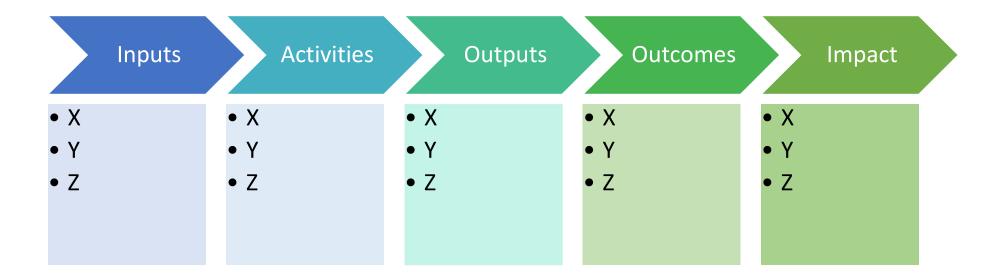
 $Resource: https://www.researchgate.net/figure/Map-of-Bogota-distribution-of-bicycle-lanes-by-SES-SES-categories-range-from-1-most_fig3_328029994$







LOGIC model





Time Dimension Models











⊗
»
OECD

Metropolitan level

Light speed rail and mass transits

Connecting multiple cities

90 min city



30 min city

City level

Rapid bus, ride sharing, bicycles

Accessibility

15 min city

Carlos Moreno

Neighborhood level

Walkability and bicycles

home about blog contact

:15 CITY





The 15-Minute City Putting people at the center of urban transformation

Street level

Quick adaptation and change





Sweden's Street Moves project aims to introduce adaptable curb elements like this scooter-parking and seating unit to every street in the nation by 2030. Photo courtesy ArkDes

CityLab Design

Make Way for the 'One-Minute City'

While the "15-minute city" model promotes neighborhood-level urban planning, Sweden is pursuing a hyper-local twist: a scheme to redesign every street in the nation.

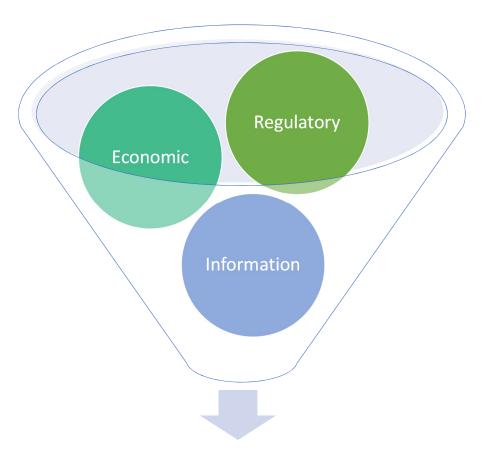
By <u>Feargus O'Sullivan</u> January 5, 2021, 7:24 PM GMT+5











Policies Basket







License plate-based restrictions

Regulatory



Freight management



Speed limits



Fuel economy and emission standards



Enforcement regimes

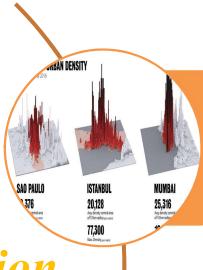




Tax breaks for automobiles

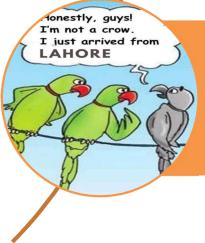
New vehicle registration





Statistical services

Information



Awareness campaigns

Regulatory

- Parking standards
- Smart regulatory of mobility-as-a-service
- License plate-based restrictions
- Freight management
- Speed limits
- Fuel economy and emission standards
- Enforcement regimes
- Highway codes and road standards

Economic

- Infrastructure budget reallocation
- Road pricing
- Land value capture
- Fuel subsidies
- Operational budget reallocation
- Tax breaks for automobiles
- New vehicle registration
- Automobile import tarrifs

Information

- Statistical services
- Awareness campaigns



Source: Rode, Heeckt and da Cruz 2019

Thank you







Together we can ...

