Asian Transport Outlook: Accessing Urban Transport Data

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Decarbonising Transport in Azerbaijan Regional Dialogue Event

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Asian Transport Outlook: Introduction

Launched by ADB in 2020



To support the planning and delivery of ADB Transport related assistance



To support Transport Policy Making in Asia



To track Global Agreements on SDG, Paris Agreement Regional Aichi 2030 Declaration **Open** data source

Regularly **updated**

51 economies and 460 cities **400+** Indicators over **2000-2020**

Policy and **financing**

Multiple Sources

	ATO Products \downarrow Coverage \rightarrow	National	Urban
1	Sharable National Database (SND)	√	
2	Sharable Urban Database (SUD)		\checkmark
3	ATO Cost Database	√	✓
4	Country Profiles	√	
5	Policy workbook	√	
6	Annotated repository of policy documents	\checkmark	
7	Analytical Reports and presentations	\checkmark	✓
8	User based web interface (Website)	√	\checkmark



Urban Database

Secondary - 460 UCs

101 indicators

(Jan 2023)

About 375 unique data sources

- ~ 80% of indicators have multiyear data
- ~ 70% of indicators have more than 1 source







Structure + Land use



Infrastructure

















and Services







Primary – 41 UCs

180 indicators (Jan 2023)

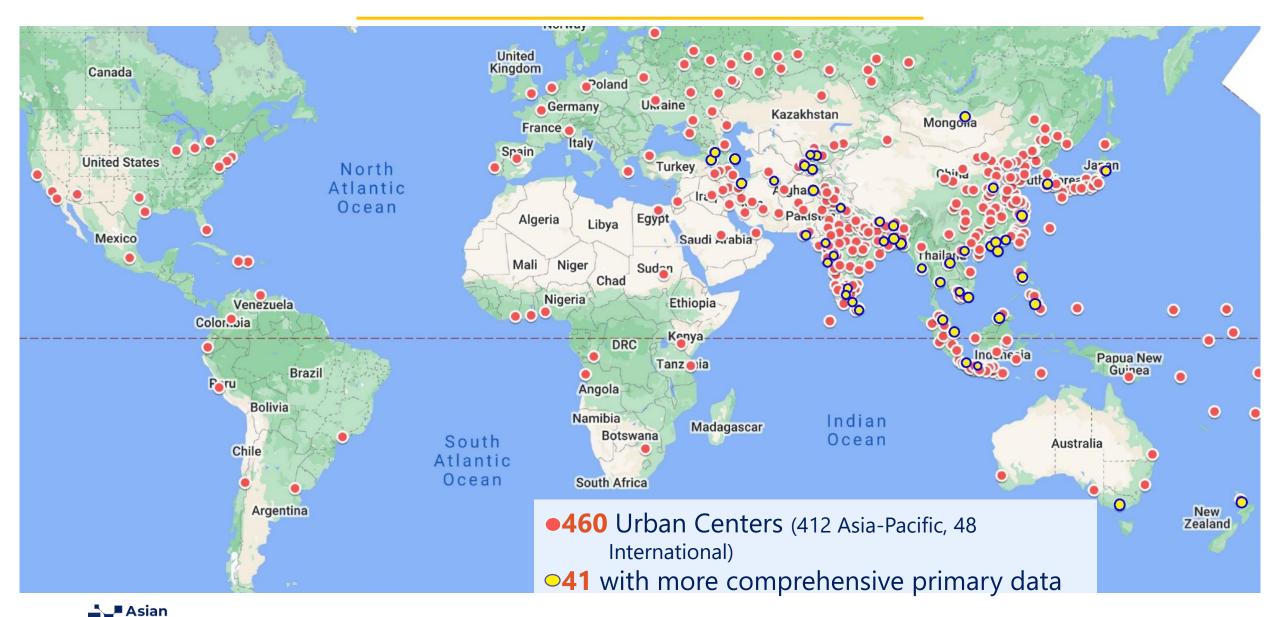




Urban Transport related policy documents

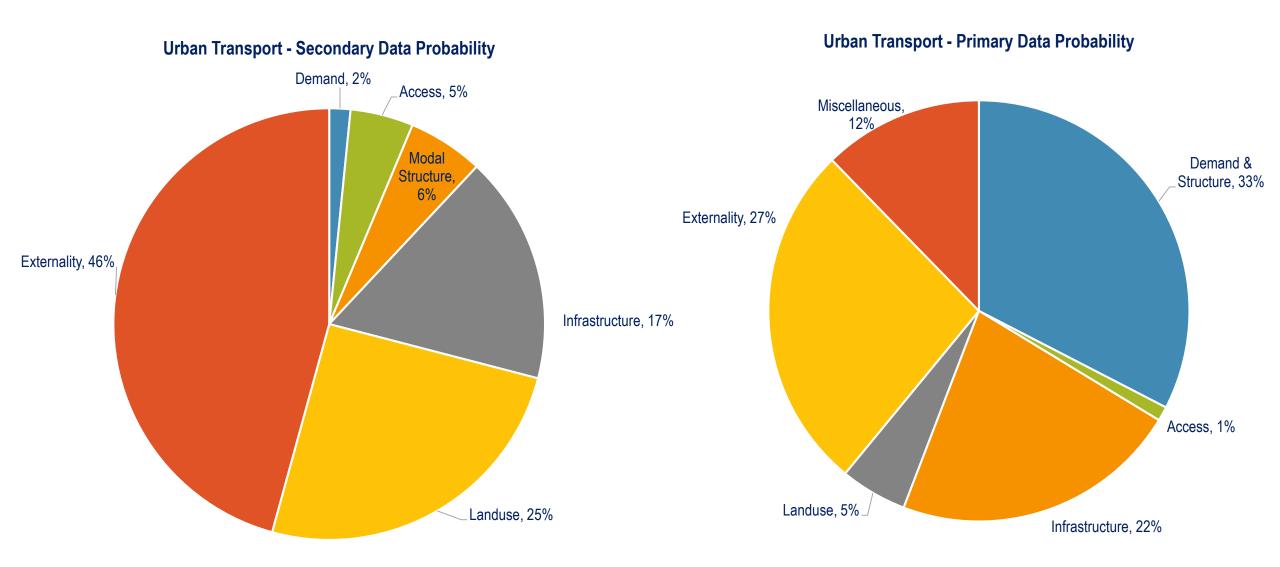


Urban Database: Coverage



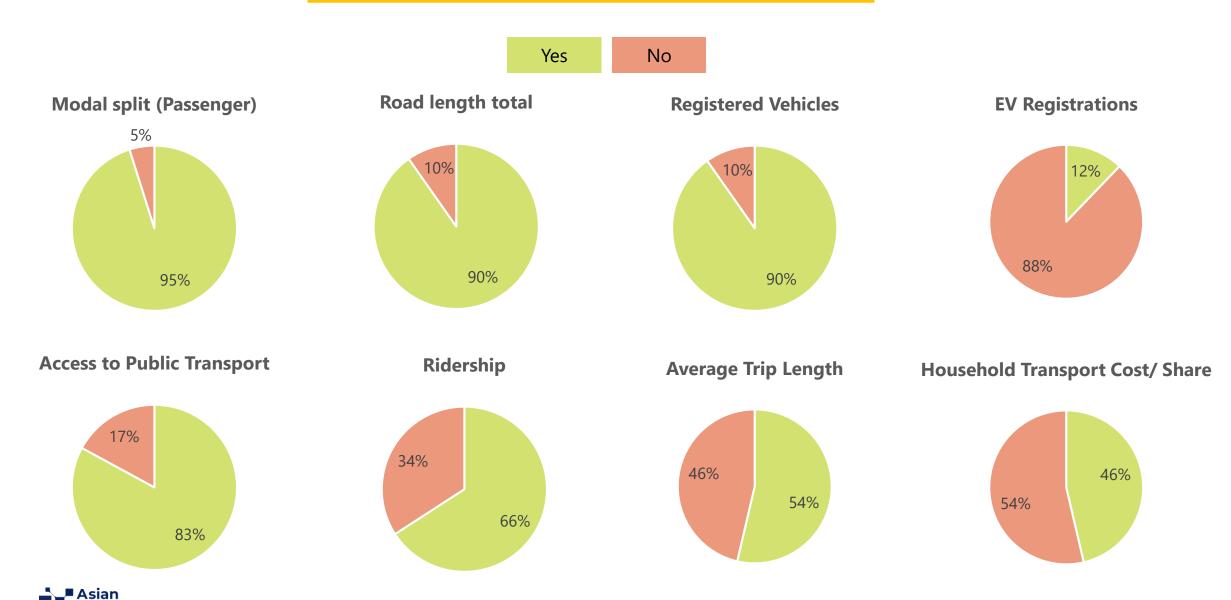
■ Outlook

Urban Transport Data Availability

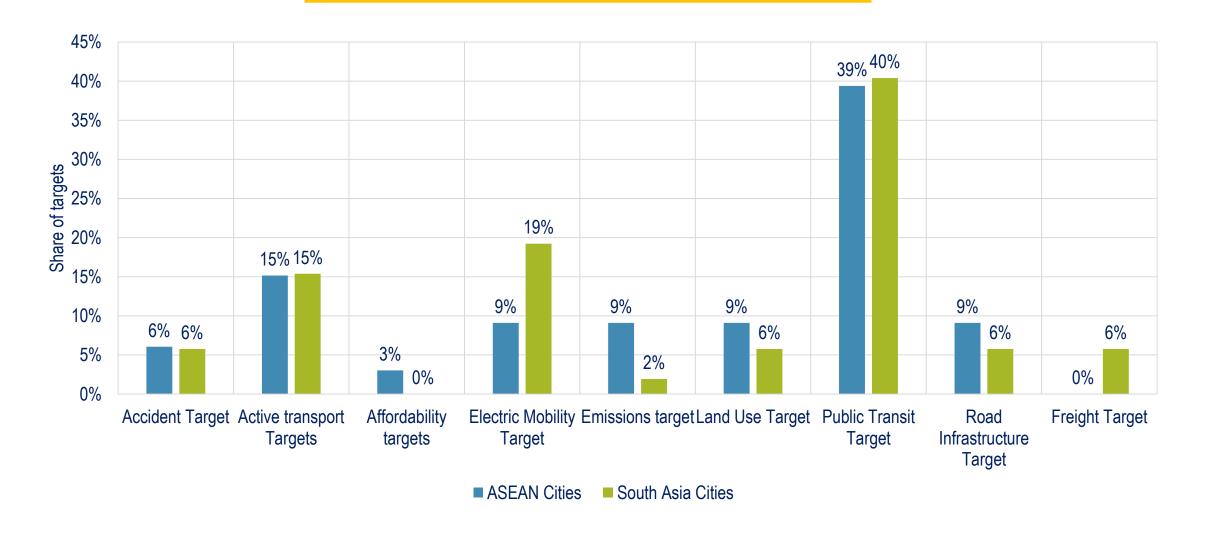




Primary Data: Coverage of the UCs sample



Urban Transport Targets (41 Cities)





Targets recorded for **26/41** UCs Total of **338** targets Avg. **13** targets recorded per UC

Example - Bishkek

KGZ-1	Bishkek																											
<<< Table of					 																			<u> </u>				
Indicator	Indicator ATOCode ▼	Indica_	Unit	2000				2005			2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Comments (if any)	Document	Source	Web Link
Population	SEC-UDB-001	А	count								8,22,100) 8,32,500	0 8,46,500	8,59,800	8,74,400										any,	Social Trends Kyrgyz Republic 2007-2011, p.20	National Statistical Committee of the Kyrgyz Republic	http://wwv
Population	SEC-UDB-001	А	count							8,13,300	8,22,100) 8,32,500	0 8,46,500	8,59,800												Social Trends Kyrgyz Republic 2006-2010, p.20	National Statistical Committee of the Kyrgyz Republic	http://www
Modal split (Passenger) - by trips - Public Transport	TAS-UDB-002	А	%											67												The Study on Improvement of Urban Transportation in Bishkek City of the Kyrgyz Republic, p.7-25	JICA	https://op
Modal split (Passenger) - by trips - Walk	TAS-UDB-004	А	%													28									No bicycle	The Study on Improvement of Urban Transportation in Bishkek City of the Kyrgyz Republic, p.5	JICA	https://op
Vehicle registration (Car)	TAS-UDB-049	С	count														3,10,000	2,84,200	3,40,600	3,40,400	3,31,500					Social Trends Kyrgyz Republic 2015-2019, Table 12.3	National Statistical Committee of the Kyrgyz Republic	http://ww
Vehicle registration (Car)	TAS-UDB-049	С	count												2,36,300	2,72,900	3,10,000	2,84,200								Social Trends Kyrgyz Republic 2011-2015, p.134	National Statistical Committee of the Kyrgyz Republic	http://ww
Road traffic crash (Total)	RSA-UDB-003	С	count														2,575	2,592	1,352	2,269	2,313					Social Trends Kyrgyz Republic 2015-2019, Table 12.4	National Statistical Committee of the Kyrgyz Republic	http://ww
Road traffic crash (Total)	RSA-UDB-003	С	count											1,319	1,785	2,898	2,575	2,592								Social Trends Kyrgyz Republic 2011-2015, p.135	National Statistical Committee of the Kyrgyz Republic	http://ww
Road traffic crash (Total)	RSA-UDB-003	С	count							1,046	1,039	989	992	1,319												Social Trends Kyrgyz Republic 2007-2011, p.131	National Statistical Committee of the Kyrgyz Republic	http://ww
Road traffic crash (Total)	RSA-UDB-003	С	count						922	2 1,046	1,039	989	992													Social Trends Kyrgyz Republic 2006-2010, p.135	National Statistical Committee of the Kyrgyz Republic	http://ww
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The sheet has entire dataset for the UC – Primary, Secondary sources, multi-year



Example – Almaty Targets

KAZ-1	Almaty	
	<<< Table of Contents	

Category	Indicator	Details/ Comments	Table, Page	Document	Original Source	Web Link	Doc. Published Year	Target Horizon Year	Typology (for others)
	Road Safety Targets	Reduction of overall car accident fatalities = 192	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	Road Safety Targets	Reduction in pedestrian fatalities (annually) = 40	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	Air Pollution Targets								
		Reduction in GHG emissions = -31% from the base year of 2012	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	Climate Change Targets	Conversion public and private taxis to CNG = 390 taxi cars (30% of fleet)	P12	Kazakhstan: Support to Energy Efficiency Transformation in Cities		https://openkr	2017	2021-28	
		Purchase additional CNG, clean diesel buses = 1300 Purchase Trolley Bus or electric bus = 500	P49	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	E-mobility Targets								
	Mode Share Targets	Share of MRT (Metro, BRT, LRT) = 20%	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
		Share of sustainable transport modes (public transport, walking and cycling) = 55%	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	Activity related Targets								
Targets	Access related Targets	Share of residents living in a radius of 500 meters from a MRT (Metro, BRT, LRT) stop = 60%	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
rargets	Transport economy Targets								
		140 km of cycling lanes	P49	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
	Active transport Targets	500 Bike parks across the city	P49	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
		Cycling rental scheme: 100 stations, 1,500 bicycles	P49	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	
		Number of MRT (Metro, BRT, LRT) corridors = 10	P23	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	PT
		Metro and LRT Routes = 3-4 Frequency = 3-6 mins	T 1-A, P26	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	PT
		BRT Routes = 3-5 Frequency = 2-5 mins	T 1-A, P26	City of Almaty Sustainable Transport Strategy		https://alatrans	2013	2023	PT
		Articulated and Solo Bus Routes = 30-40	T 1-A, P26	City of Almaty Sustainable		https://alatrans	2013	2023	PT



Example – Bengaluru Transport Policy

IND-13	Bengaluru						
<<	< Table of Contents						
Category	Indicator	Details/ Comments	Document	Original Source	Web Link	Doc. Published Year	Plan period
	Active mobility policy/ plan	Secondary report	Pedalling nonmotorised transport in Bengaluru	YLAC	https://theylad	2020	
	Air quality/ pollution policy/ plan		Revised Action plan for Control of Air Pollution in Bengaluru City	KSPCB	https://kspcb.	2018	
	Climate change policy/ plan	Secondary report	Make Bengaluru Climate friendly	ESG	https://issuu.c	2021	
	Comprehensive Mobility Plan (CMP)		Comprehensive Mobility Plan for Bengaluru	BMRCL, DULT	https://kanna	2019	Upto 2051
	E-commerce policy/ plan – last mile delivery EV/ E-mobility policy/ plan						
	Integrated Land use and Mobility policy/ plan						
	Logistics policy/ plan City Development/ Master Plan		Revised Revised Master Plan for Bengaluru - 2031 (Draft)	BDA	https://data.oj	2017	Upto 2031
nents	Multi Modal Mobility policy/ plan		bengalara 2001 (brait)				
Policy documents	Public transport policy/ plan Road safety policy/ plan						
Polic	Strategic plan Sustainable low carbon transport policy/ plan						
	Traffic plan/ policy/ study		Comprehensive traffic and transport study (Draft Final)	BMRDA	https://bmrda	2010	
	Travel demand management policy/ plan						
	Parking plan/ policy	3.1 PULICY 1: Preparation of area level parking management plans 3.2 POLICY 2: Charges for parking 3.3 POLICY 3: Streamlining on-street parking 3.4 POLICY 4: Restriction on residential on-street parking 3.5 POLICY 5: Provisioning for off-street parking	Parking Policy 2.0	DULT	https://dult.ka	2020	



ATO Cost Database: Urban Projects



Home

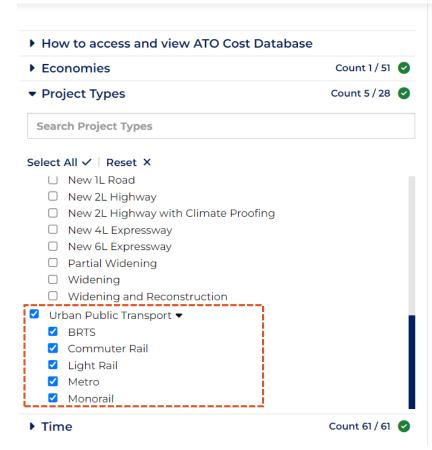
Databases ▼

Analytical Outputs ▼

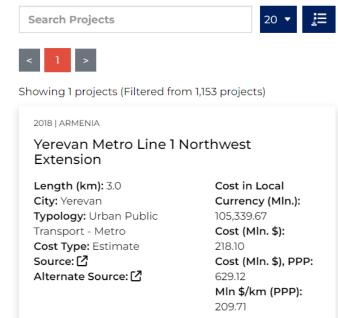
About ▼

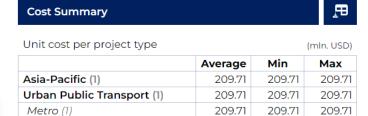
Register





ATO Cost Database





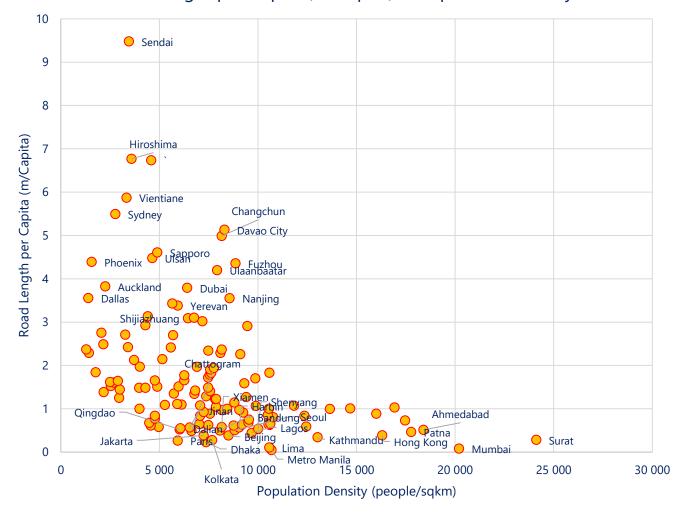


Translating data into "Insights"

Public transport access in Asian cities



Road Length per Capita (m/Capita) & Population Density





Learnings from developing ATO Databases

- 1. Avoid **Data Bias**
- 2. There is **no** perfect source
- 3. Staircase approach
- 4. Passenger > **Freight**
- 5. "**How To**" the actual methodology
- 6. Local **political will** and money
- 7. Why and what matters Couple to policy-making & investments

"Diagnose, choose, prognose, implement, evaluate, rebalance, market"



"ATO translates data into insights, policies and investments"

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