

A SEMINAR ON PUBLIC TRANSPORT

A Review of Public Transport Scenario of Karachi























ASHAR H. LODI

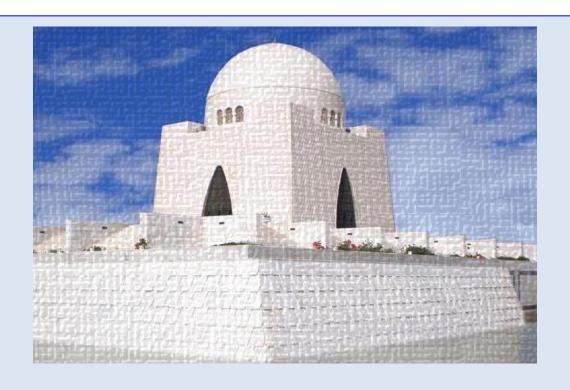
Director Exponent Engineers (Pvt.) Limited

November, 2014









TRANSPORT INDICATORS



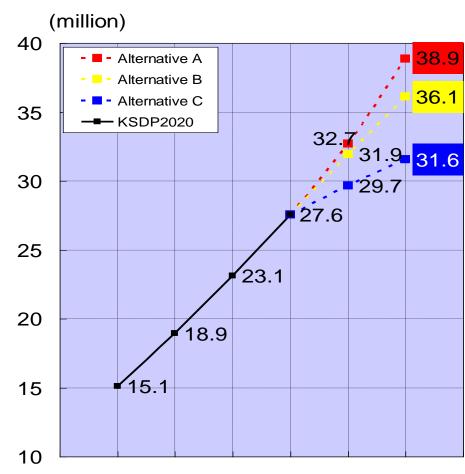




POPULATION & GROWTH

ANNUAL AVERAGE GROWTH RATE (AAGR)

	Alternative A	Alternative B	Alternative C			
Year	2020 KSDP Altern		alf rate of Iternative B			
2005	5.0%					
2010	4.5%					
2015	4.0%					
2020	3.5%					
2025	3.5%	3.0%		1.5%		
2030	3.5%	2.5%		1.25%		



2000 2005 2010 2015 2020 2025 2030 2035

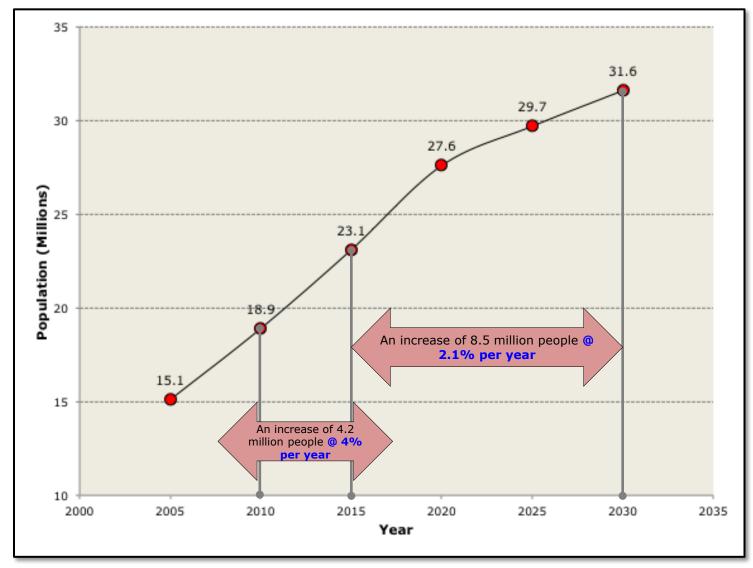
Source: JICA KTIP 2030







POPULATION & GROWTH



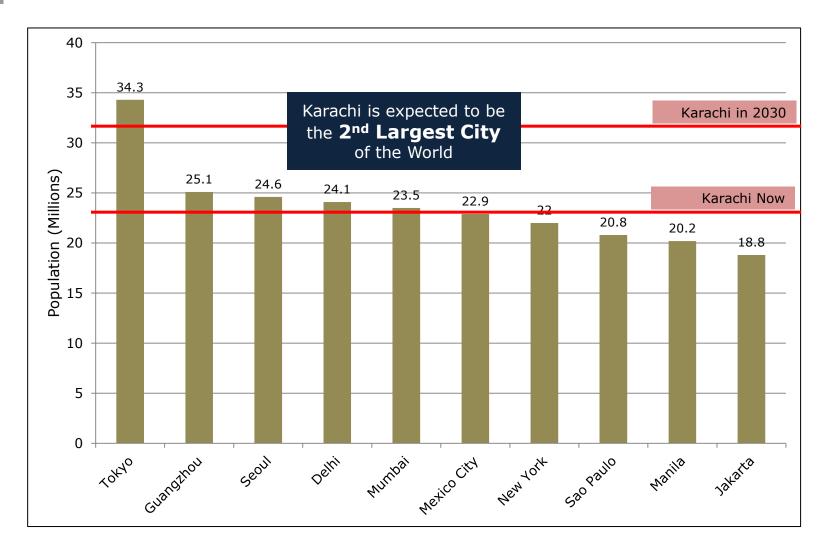
Source: JICA KTIP 2030





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POPULATION & GROWTH



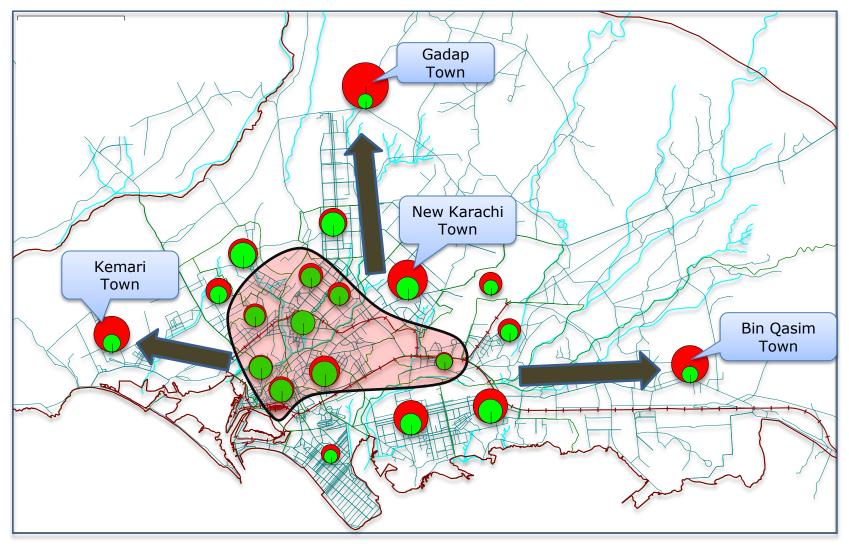
Source: JICA KTIP 2030





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POPULATION & GROWTH



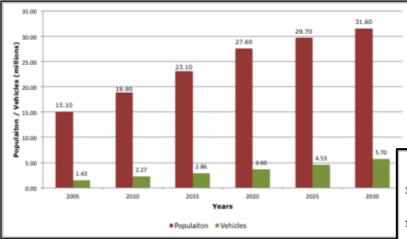
Source: JICA KTIP 2030





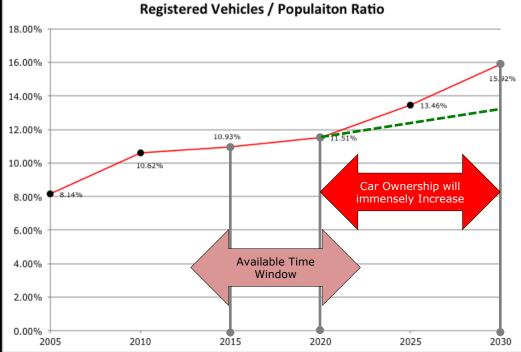


VEHICLE REGISTRATION & GROWTH



Note: No. of Vehicles projected based on a annual growth rate of 4.5% after 2014

	Percentage increase by Vehicle Mode								
Period	Motor Cycles	,							
2000 - 2005	5.8	6.1	3.3	2.8	5.2				
2005 - 2010	12.0	5.3	5.0	1.5	8.0				
Overall	9.7	6.2	4.5	2.3	7.2				



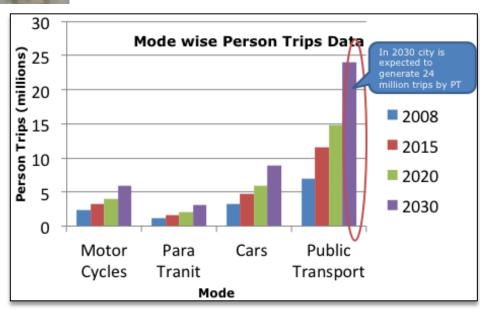
Source: Karachi Mass Transit Program – Investment Opportunities By: February 2012 - KMTC, KMC







TRIPS IN KARACHI



- ✓ People who don't own a vehicle makes 1.59 trips per day
- ✓ Whereas people who own a vehicle makes 2.42 trips per day. Hence, increase in car ownership results in more trips.
- ✓ Increase of 33% 'car ownership' will result in 30% increase in motorized trips beyond 2020

ESTIMATED MOTORIZED TRIPS & TRIPS RATES

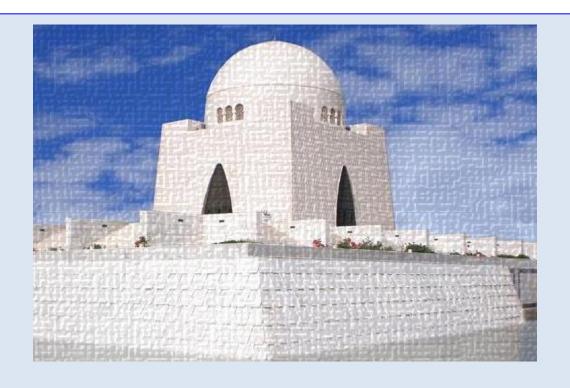
Item	No Owning	Car / MC Owning	Total
Population Aged over 4 years (1,000)	10,709.20	2,118.40	12,827.6
No. of Trips (1,000)	17,031.50	5,129.60	22,161.1
Trip Rate	1.59	2,42	_

Source: JICA KTIP 2030









TRAVEL INVENTORY

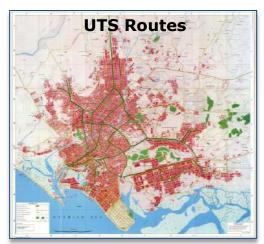




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PUBLIC TRANSPORT IN KARACHI 2008 VS 2014







Mini Bus Routes



No. of Operative Routes by Category UTS Mini Bus | Coach Bus KPTS **Total** 75 35 29 149 4 6 24 50 22 101 33.3% 75.0% 31.4% 24.1% 33.3% 32.2%

Source: Confirmatory Green Routes

Study, 2008 KMTC, KMC

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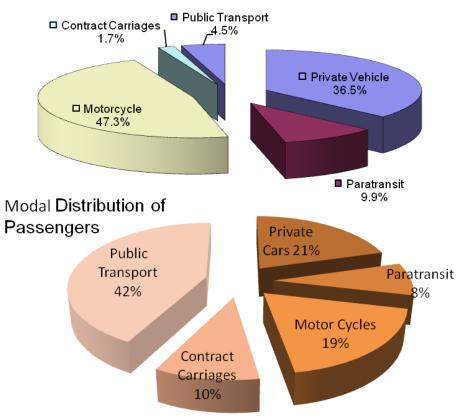
2014

Reduction (%)



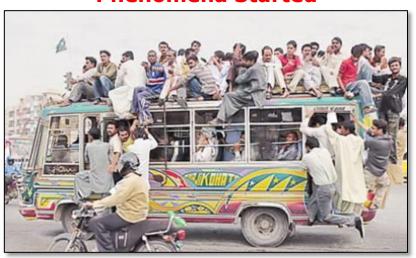
VOLUME VS OCCUPANCY SHARE

Modal Distribution of Vehicles



- 4.5% composition of Public Transport Vehicles carry 42% of Total Persons Traveling in the City.
- Private Cars which is 36.5% of Total Vehicular Traffic carries only 21% of Persons. Showing Lesser Average Vehicle Occupancy.

Beyond 2011 the Qin Qui Phenomena Started



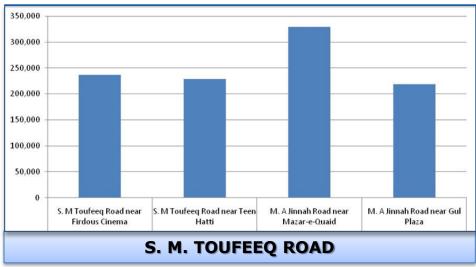
Source: JICA KTIP 2030

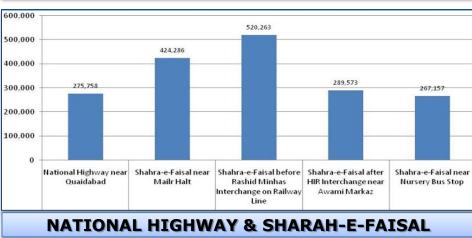






PUBLIC TRANSPORT RIDERSHIP & TRAVELLING TRENDS









Source: Confirmatory Green Routes

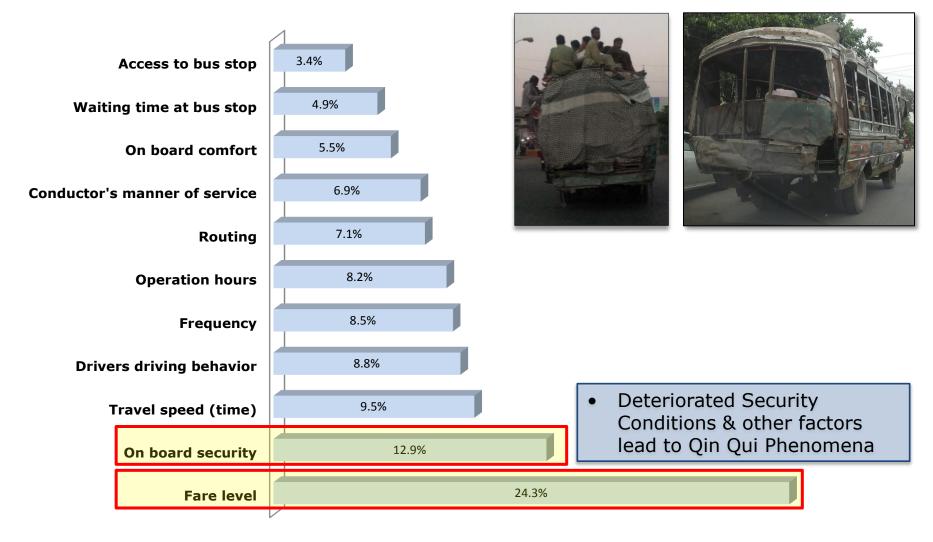
Study, 2008 KMTC, KMC







PUBLIC TRANSPORT USER CONCERNS - YEAR 2008



Source: Confirmatory Green Routes

Study, 2008 KMTC, KMC

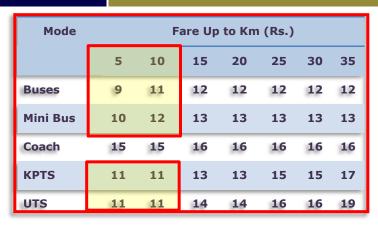




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THE QIN QUI PHENOMENA

AVERAGE PERCENTAGE OF PERSONS TRAVELLING IN DISTANCE SLAB								
Up to 5 km	Up to 10 km Up to 15 km		Up to 20 km	Above 20 km				
21.2	45.4	22.4	7.0	4.0				
Cun	nulative ⁻	ravelling	in Fare Cla	ass				
21.2%								
	66.6%							
	66.6%	89.0%						
	66.6%	89.0%	96.0%					



Source: Fare Level 2008

- The Qin Qui very intelligently started off offering service to small distance travellers.
- It captured short commuting public transport trips by offering Rs. 10/- per trip to 65% of the commuters.
- The existing public transport was left with only 35% of the remaining passenger demand.
- Later on other Qin Qui variants (9 & 12 seat) vehicles came and Qin Qui fare & travel distances also increased.







FARE COMPARISON

Mode	Fare Up to Km (Rs.)							
	5	10	15	20	25	30	35	
Buses	9	11	12	12	12	12	12	
Mini Bus	10	12	13	13	13	13	13	
Coach	15	15	16	16	16	16	16	
KPTS	11	11	13	13	15	15	17	
UTS	11	11	14	14	16	16	19	
		Source: Fare Level 2008						

Mode -		F	are u	to K	m (Rs.	.)			
Mode -	5	10	15	20	25	30	35		
Bus	13	15	16	16	16	16	16		
Minibus	14	17	16	16	16	16	16		
Coach	19	19	20	20	20	20	20		
KPTS	15	15	17	17	19	19	21		
UTS	15	15	18	18	20	20	23		
Sou	Source: Transport & Mass Transit Department, Nov. 2012								









Mode -		ı	Fa	re uj	o to K	(m (Rs.)	
Mode –	5	10		15	20	25	30	35
Qin Qui	10	15		25	40	-	-	-

Source: Field Observation









QIN QUI & ITS VARIANTS

- Why are most of Qin Qui & its variants Unregistered?
- Is Qin Qui a Para Transit OR Public Transit?
- MVO 1965 does not have provision to register such vehicles? So Qin Qui is an Unidentified Object in the traffic stream?
- In case of a road accident the Qin Qui remains unidentified?





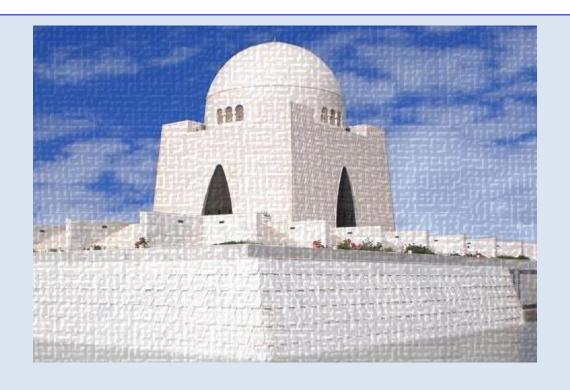












POSSIBLE RECTIFICATIONS







WAY TO SOLUTION

- Strengthening MVO 1965 & MVA 1969 for recent transport regime.
- Need to establish formal public transport system. Encouraging high occupancy vehicles to carry passenger.
- Development of Mass Transit System.
- Re-examining and redefining role of PTA & RTA.
- Bringing Qin Qui & variants under MVO 1965.
- Examining Qin Qui to function as a feeder for residential areas.
- Examining Qin Qui design for passenger safety.
- Public Transport to be declared Industry.
- The driver licensing regime to revamped on technical grounds.
- Formal Private sector companies to be encouraged for Public Transport Operations.
- Media & Public Awareness Campaigns for public transport orientation of masses.

















THANK YOU

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ISLAMIC REPUBLIC OF PAKISTAN | CITY OF KARACHI

A REVIEW OF PUBLIC TRANSPORT SCENARIO OF KARACHI



