

Regional Planning

Transport & Connectivity

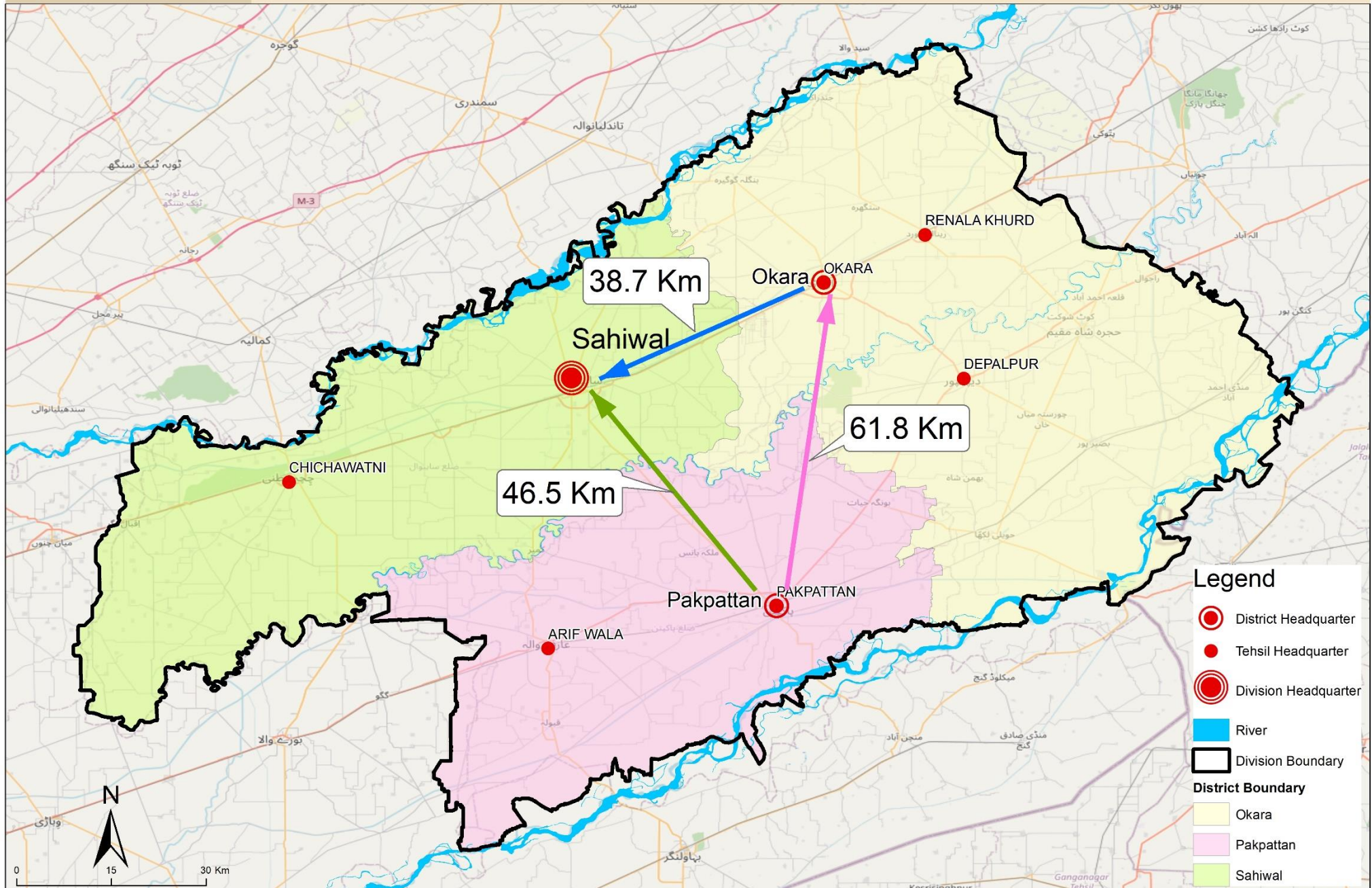
Sahiwal Division

Thursday, February 22, 2024

Content

- Location & Regional Placement
- Sahiwal at a Glance – Transport Statistics
- Share of Sahiwal Road Sector in the ADP Funding by Year
- High Vs Low Speed Links
- Public Transport Accessibility
- Rail Accessibility
- Key Impediments
- Sectoral Objective
- Proposed Interventions
- Integrated Regional Transport Network

Intra-Divisional Linkages



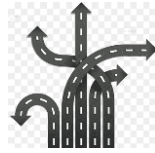
Legend

- District Headquarter
- Tehsil Headquarter
- Division Headquarter
- River
- Division Boundary
- District Boundary**
- Okara
- Pakpattan
- Sahiwal

Sahiwal Division at a Glance – Transport Statistics



National
Highways: N-5



Roads



Railway
Station



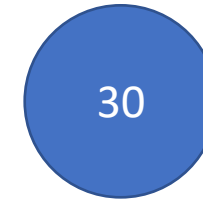
Dry Ports



International
Airport



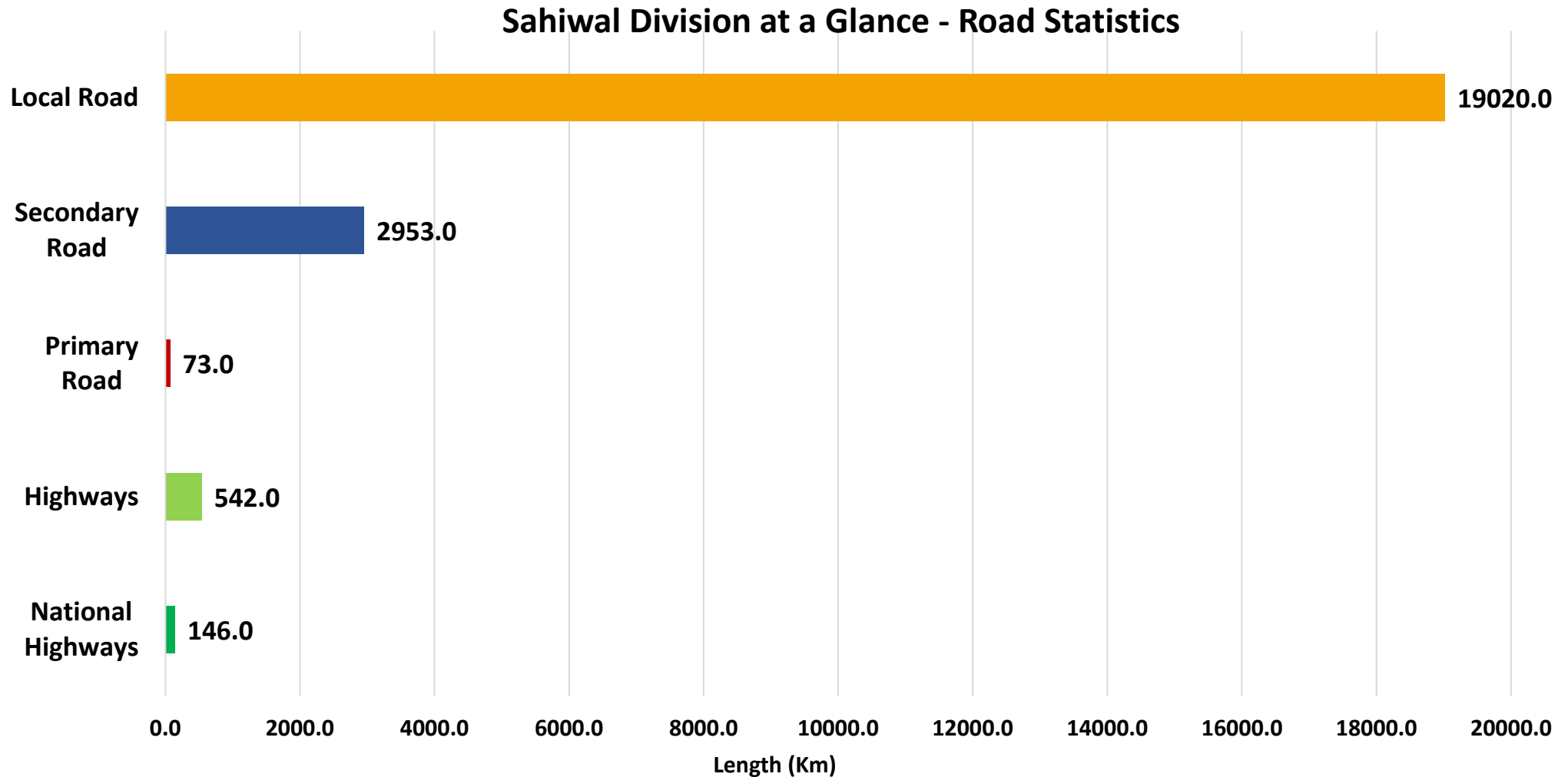
Goods Forwarding
Agencies



Bus Terminals (C
Class)



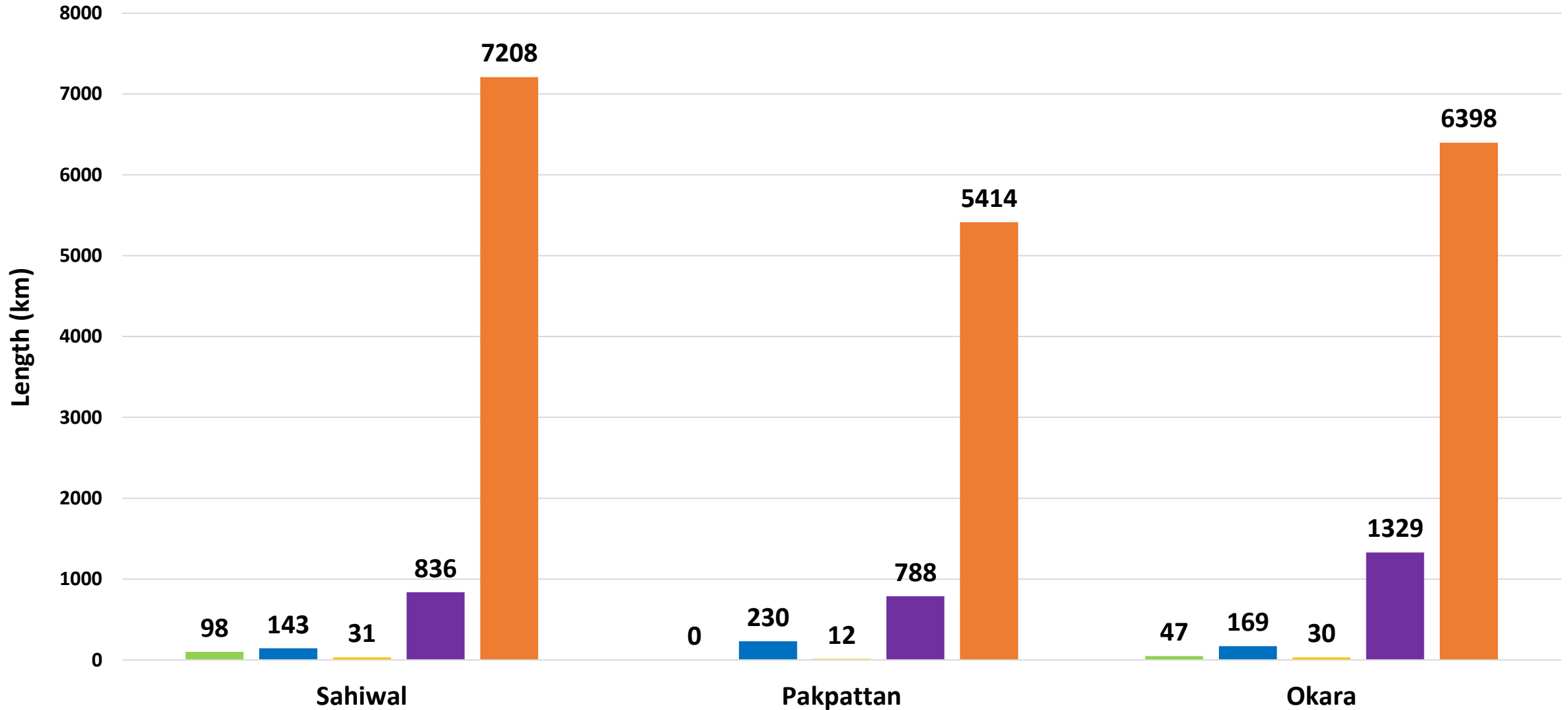
Sahiwal Division- Road Statistics



Source: NTRC 2019, UU data based on satellite imagery and google maps

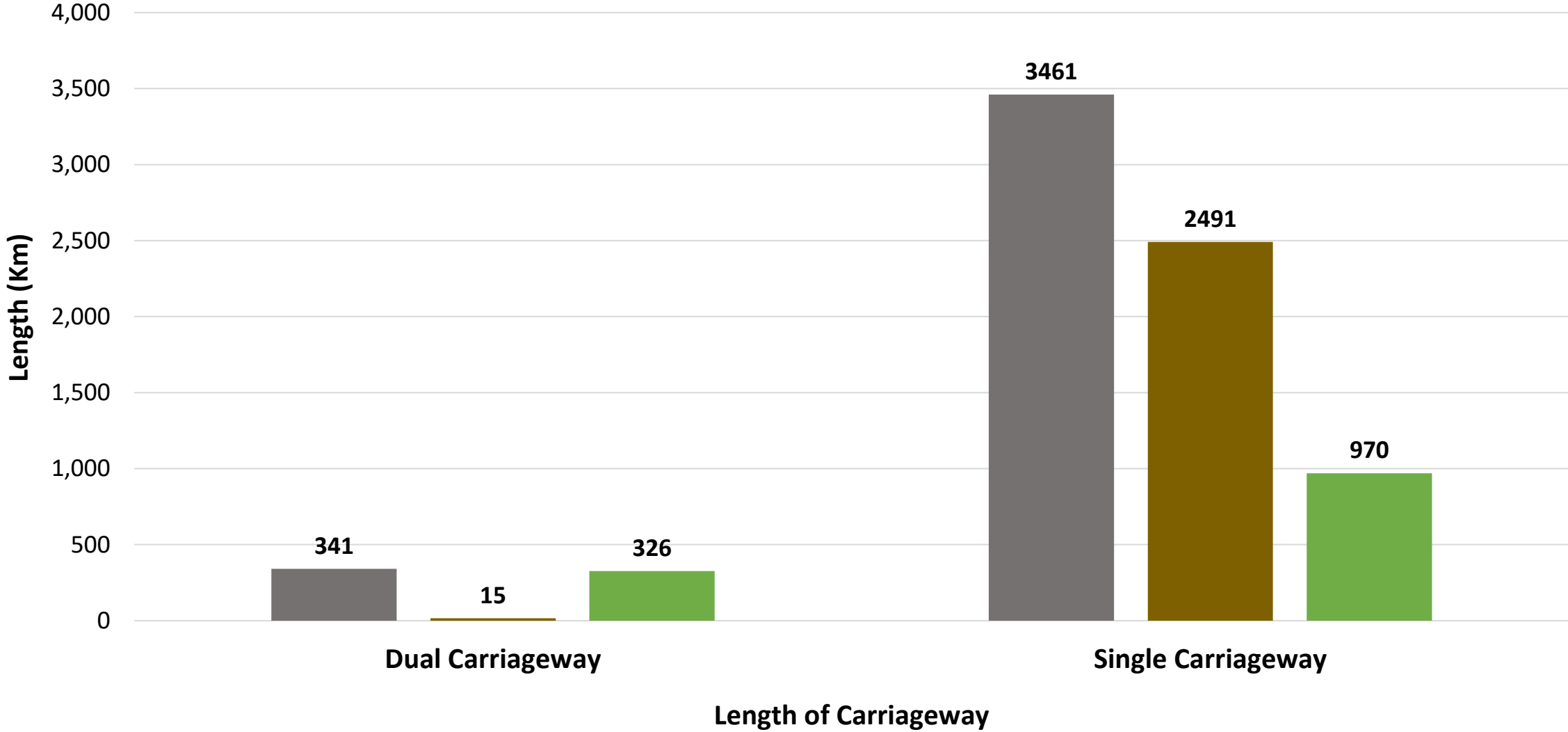
Road Network by Districts, Sahiwal Division

National Highways Highways Primary Road Secondary Road Local Road

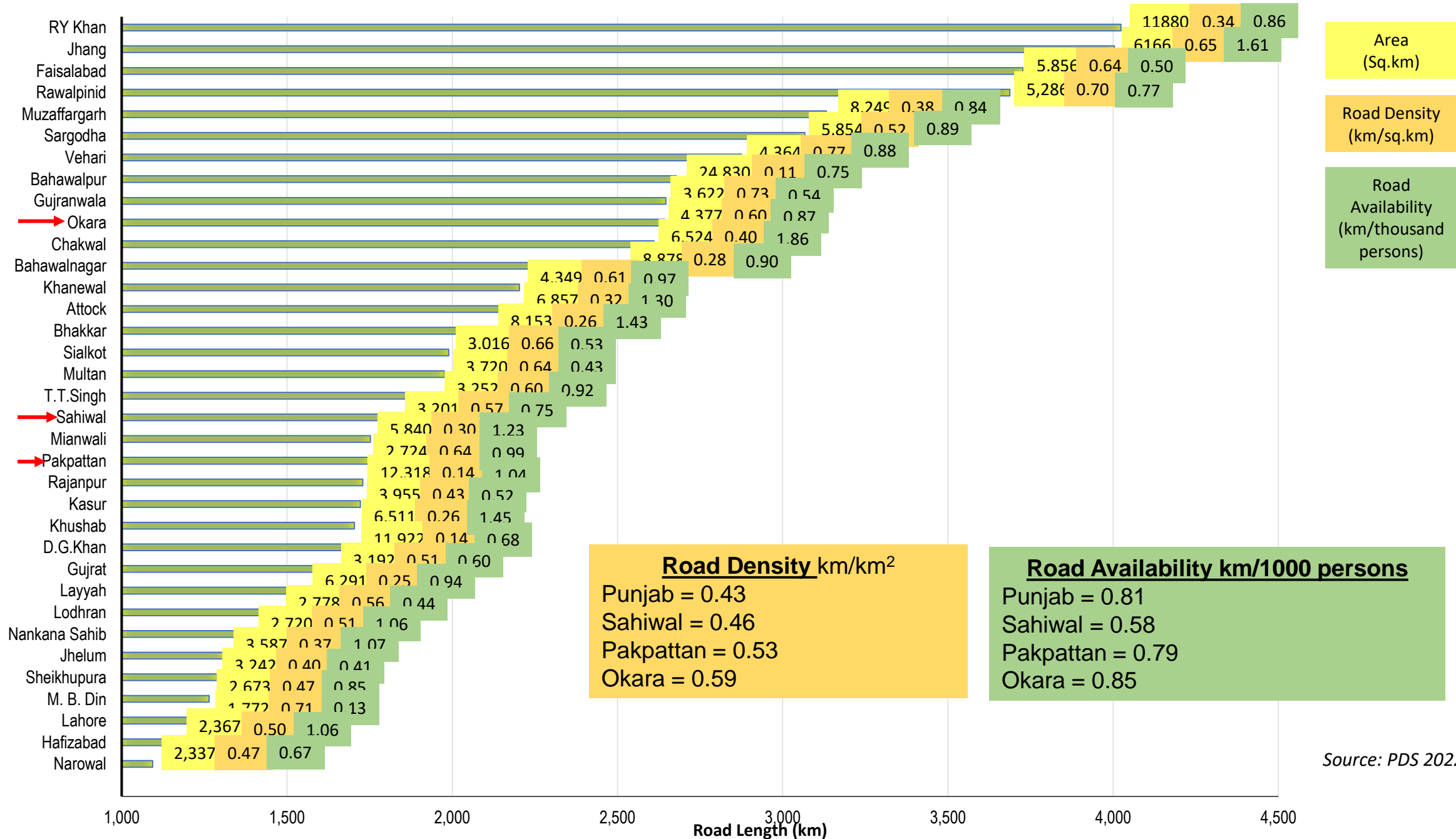


Dual Vs Single Carriageway Length, Sahiwal Division

■ Total ■ 1 Lane ■ 2 Lane



Road Length (km) by District

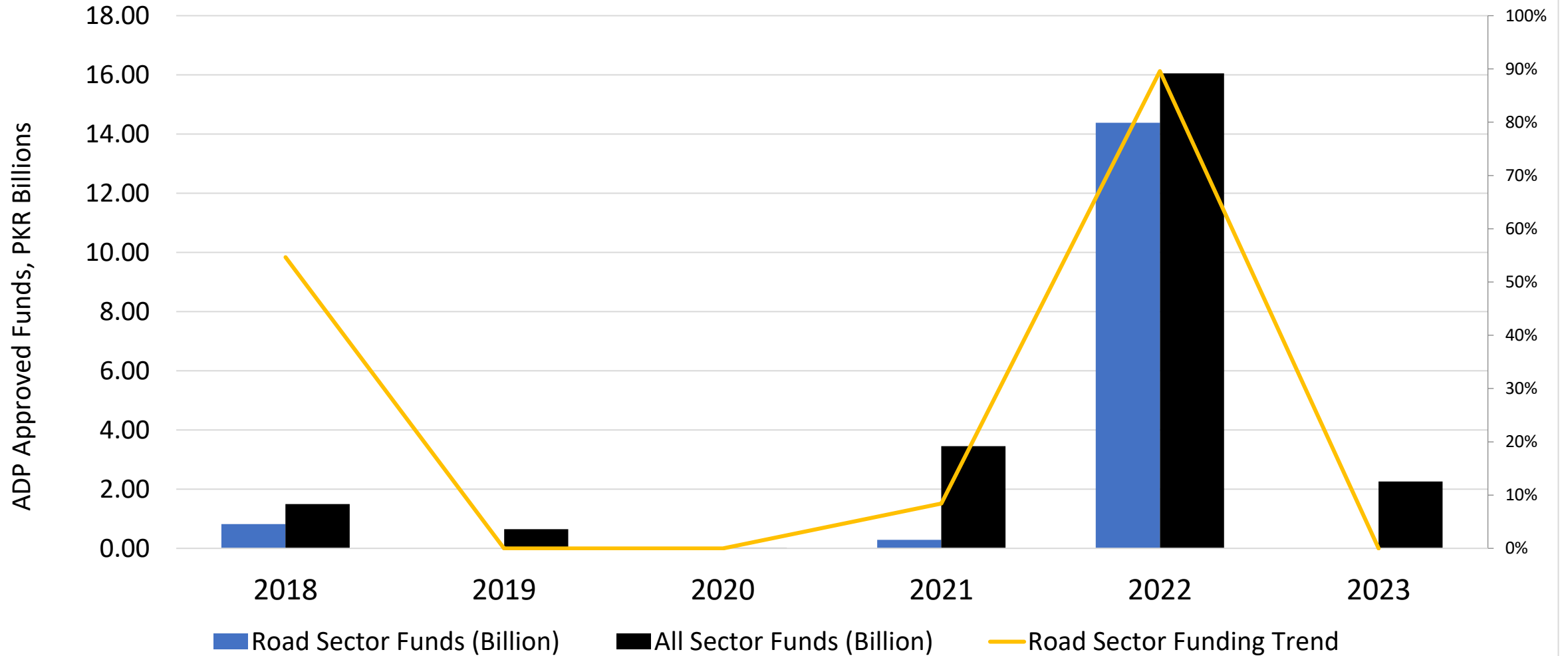


Road Density km/km²
 Punjab = 0.43
 Sahiwal = 0.46
 Pakpattan = 0.53
 Okara = 0.59

Road Availability km/1000 persons
 Punjab = 0.81
 Sahiwal = 0.58
 Pakpattan = 0.79
 Okara = 0.85

Source: PDS 2022

Share of Sahiwal Road Sector in the ADP Funding by Year

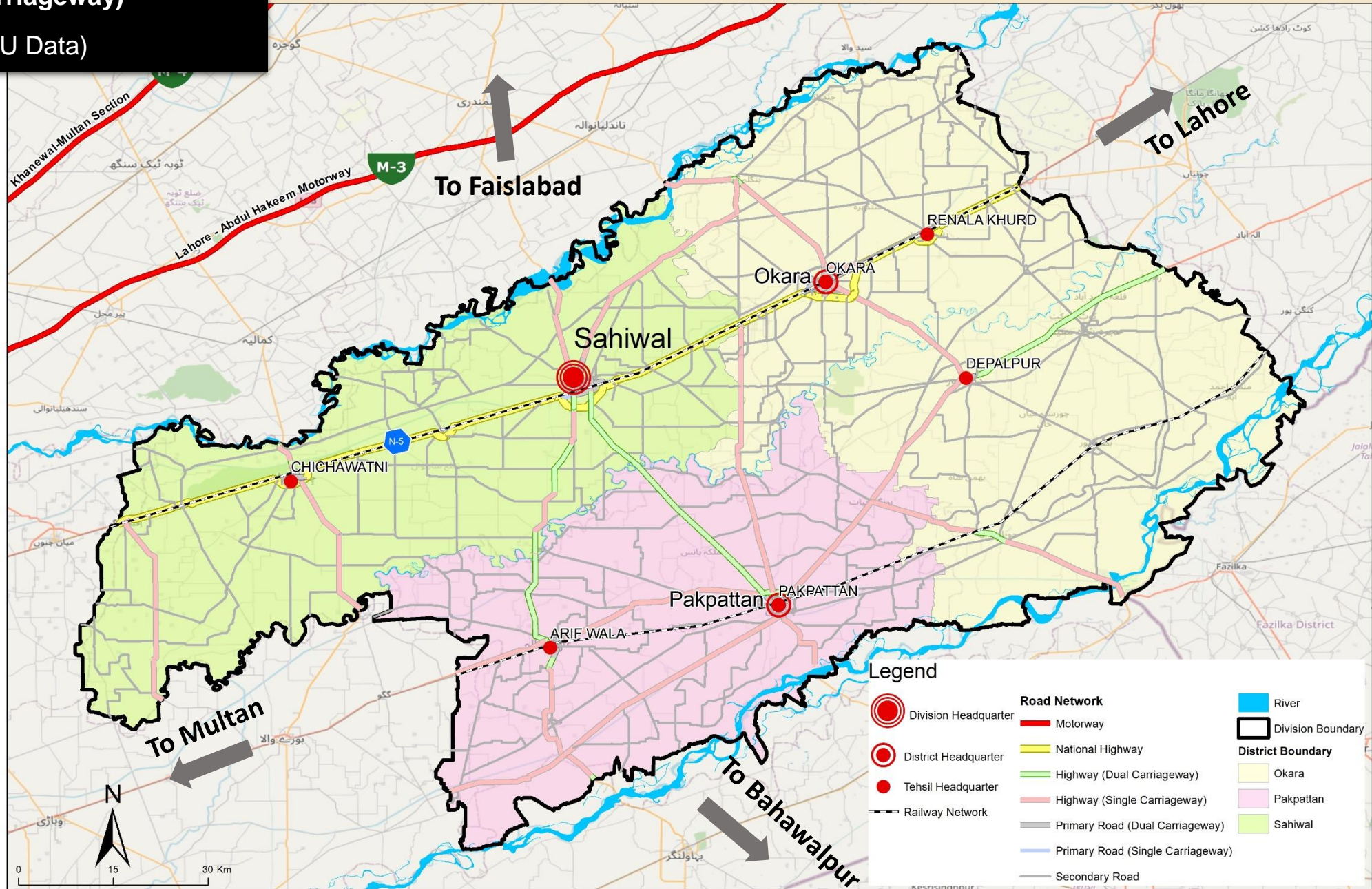


High Vs Low Speed Links

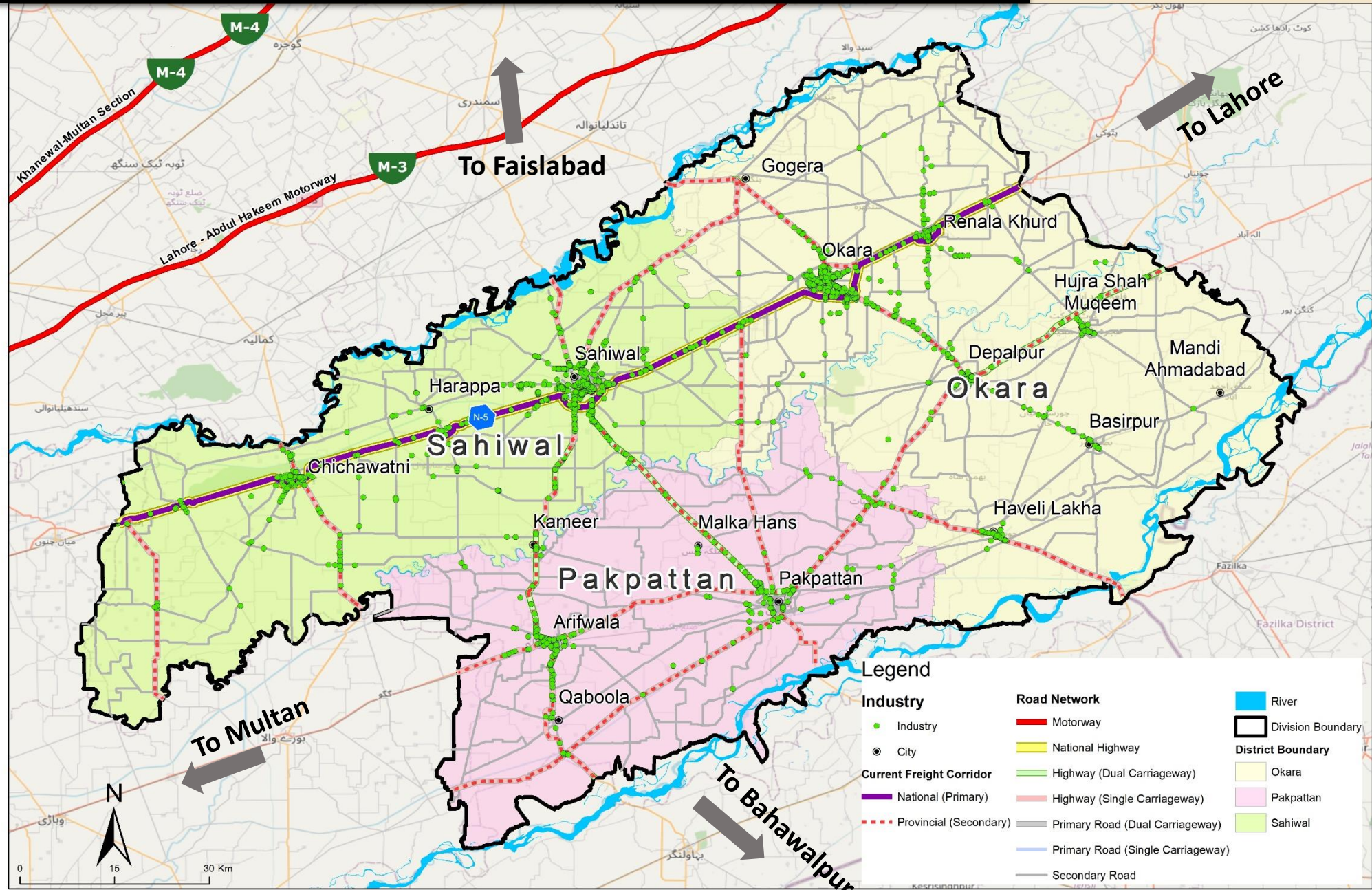
(Dual vs Single Carriageway)

~ 1.49 % (source: UU Data)

Current Road Network

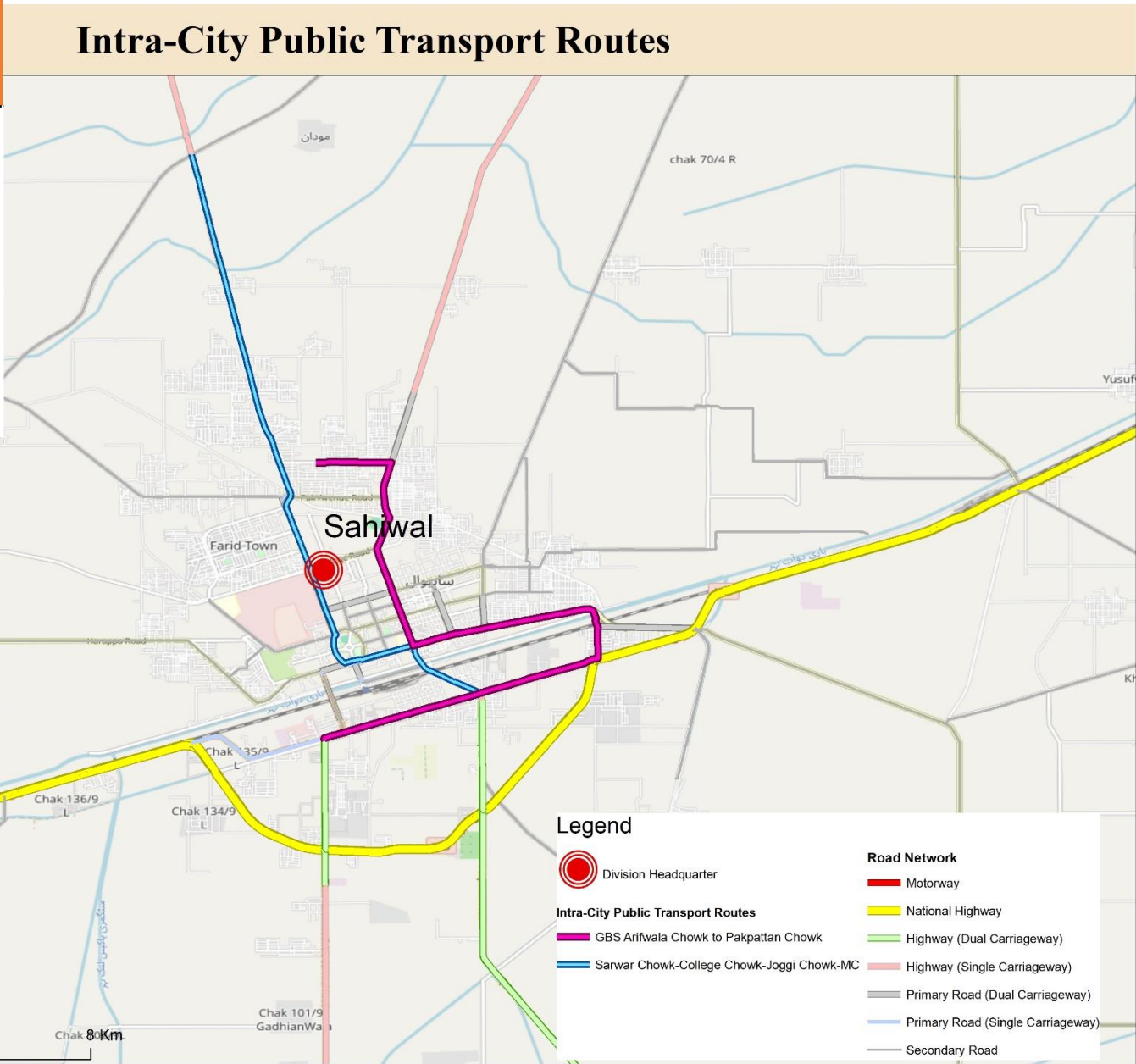


Sahiwal Current Freight Corridor



Intra City Public Transport Routes

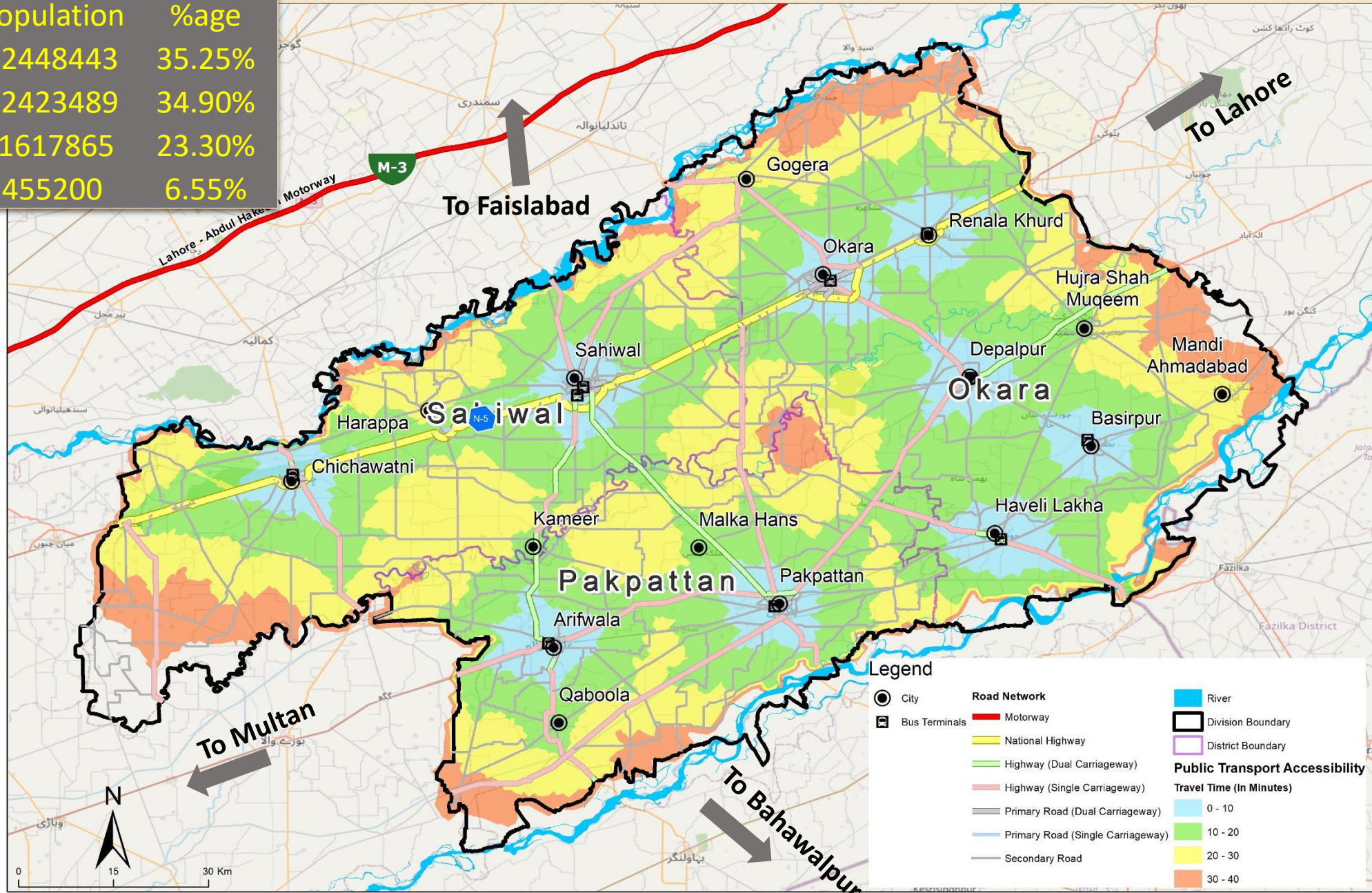
Sr. No	Routes	Length (Km)
1	GBS Arifwala chowk to Pakpattan Joggi Chowk- High street-Kot Khadim- Mcdonald	12.3
2	Sarwar Chowk-College Chowk-Joggi chowk- Mcdonald	13.4



Intercity Bus Coverage

Time (Min)	Population	%age
0-10	2448443	35.25%
10-20	2423489	34.90%
20-30	1617865	23.30%
30-40	455200	6.55%

Public Transport Accessibility



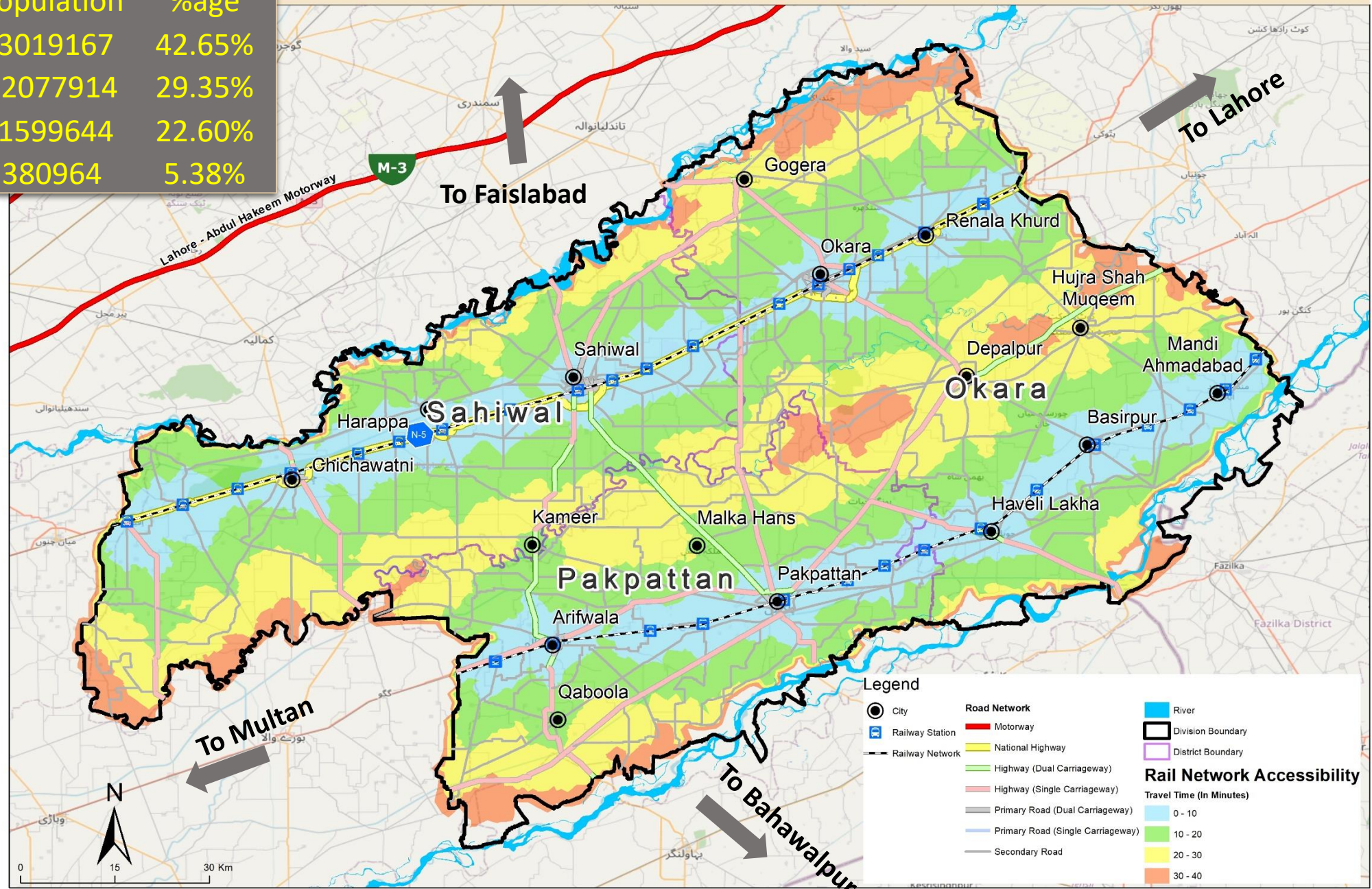
Legend

- City
- Bus Terminals
- Road Network**
 - Motorway
 - National Highway
 - Highway (Dual Carriageway)
 - Highway (Single Carriageway)
 - Primary Road (Dual Carriageway)
 - Primary Road (Single Carriageway)
 - Secondary Road
- River
- Division Boundary
- District Boundary
- Public Transport Accessibility**
- Travel Time (In Minutes)**
 - 0 - 10
 - 10 - 20
 - 20 - 30
 - 30 - 40

Railway Access

Time (Min)	Population	%age
0-10	3019167	42.65%
10-20	2077914	29.35%
20-30	1599644	22.60%
30-40	380964	5.38%

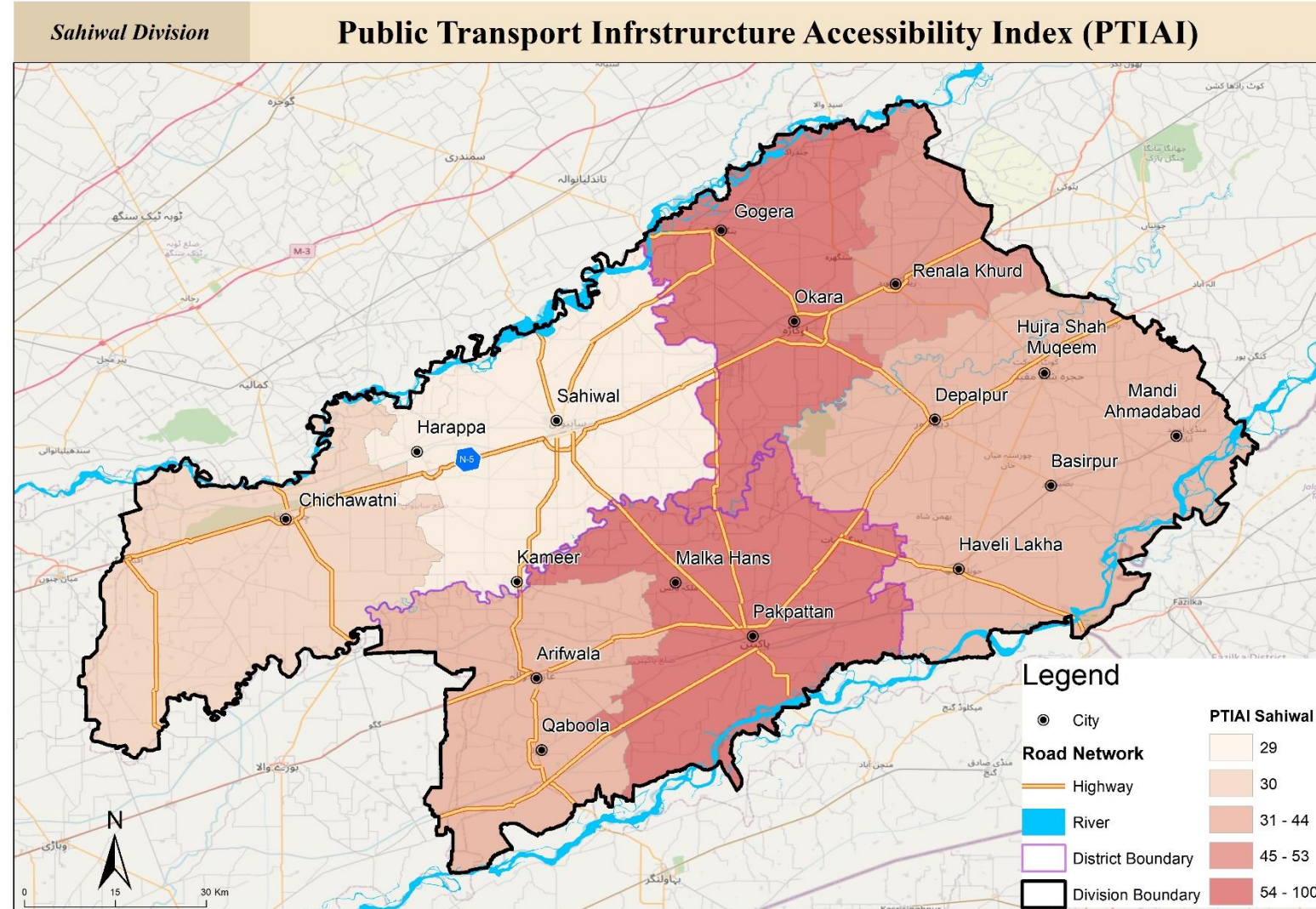
Existing Rail Network Accessibility



Public Transport Infrastructure Accessibility Index (PTIAI)



District	Tehsil	PTIAI
Sahiwal	Sahiwal	28.8
	Chichawatni	30.0
Pakpattan	Arifwala	39.3
	Pakpattan	62.7
Okara	Okara	72.0
	Depalpur	44.0
	Renala Khurd	53.3



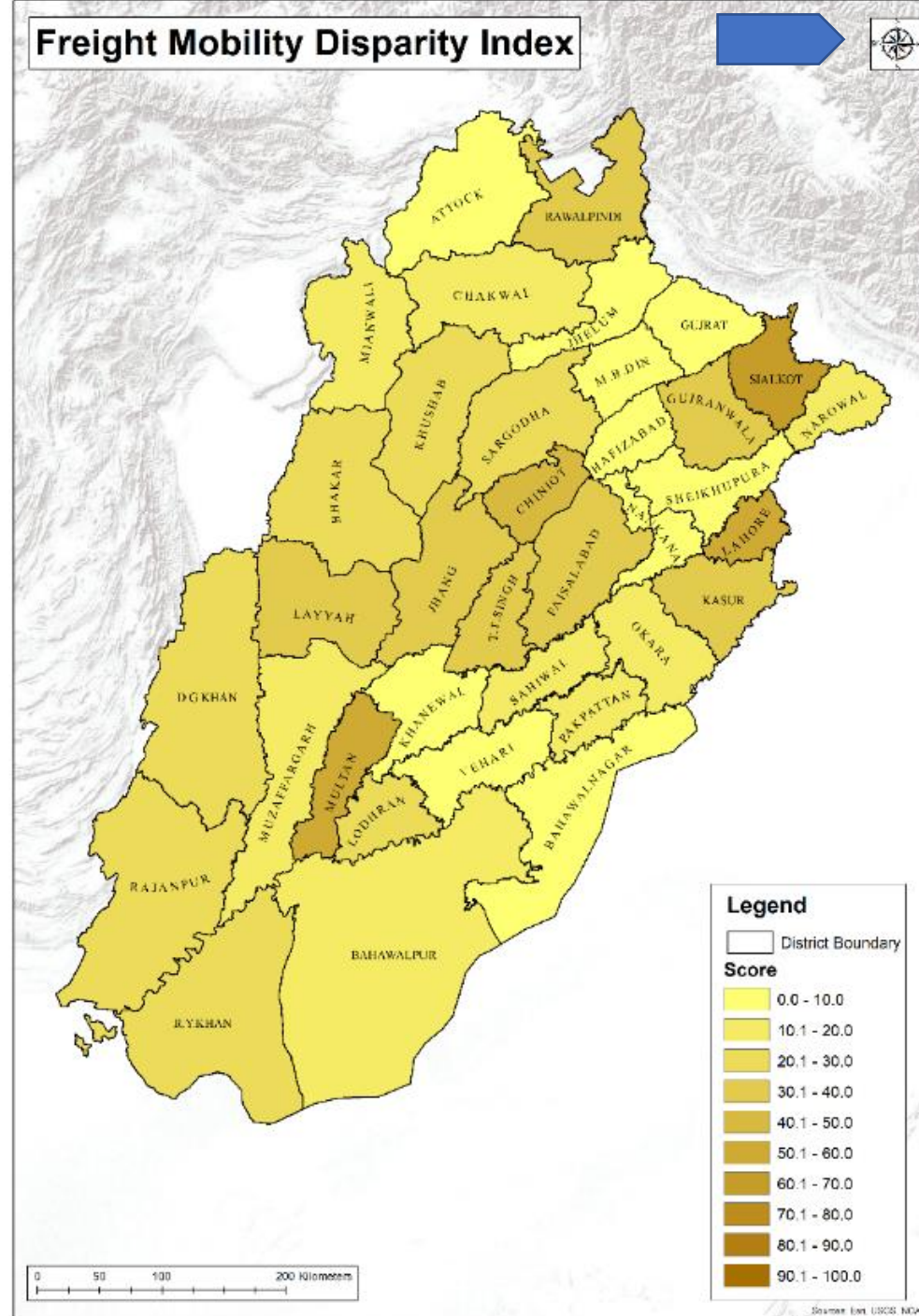
Freight Mobility Disparity Index

District	Index	Rank
Sahiwal	11	9
Pakpattan	19	9
Okara	14	9

Ranking Criteria	
FPI	Ranking
91-100	1
81-90	2
71-80	3
61-70	4
51-60	5
41-50	6
31-40	7
21-30	8
11-20	9
0-10	10



Freight Mobility Disparity Index



SWOT Analysis

Strengths

1. Secondary Provincial Network
2. Agriculture

Weakness

1. Low Speed Provincial Road Network Infrastructure on some of the key Connectivity links
2. Lack of Urban Bus Service
3. Lack of Formal Truck Terminals

Opportunities

1. Improvement/Widening/Dualization of Roads
2. Provision of Urban Transport in Sahiwal City
3. Construction of Truck Terminals

Threats

1. Aging & Deteriorating Road Infrastructure
2. Lack of Road Maintenance Regime
3. Budgetary Constraints.

Sustainable Development Goals

- Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Develop quality, reliable, sustainable and resilient infrastructure, including regional and trans-border infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all



- Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable

By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons



Sectoral Objective

To enhance the **Functional Linkages & Connectivity** of **Growth Corridors** and **Nodes** and improve **Access** to **Regional & International Markets**

Specifically

1

Enhancing Transport Service Delivery for leveraging the untapped potential of trade and businesses

2

Reducing Travel cost through integrated Sustainable Transport infrastructure

3

Linking Activity Spaces with Residential Area for Social inclusion

Proposed **Connectivity** Interventions

Sectoral Targets

Year 2024

Base Line

Road Network (Except Local Roads)

- Dual Carriageways: 1.49%

Key Institutions

1. Regional Transport Authority



Till 2030

Short to Medium Term

Road Network (Except Local Roads)

- Dual Carriageways: 2.48%

Urban Transport

- Integrated Operations of Intracity Public Transport Routes

Freight Transport

- 2 Truck Terminals

Key Institutions

1. Punjab Transport Company (PTC)
2. Regional Transport Authority



Till 2034

Medium to Long Term

Road Network (Except Local Roads)

- Dual Carriageways: 2.73%

Urban Transport

- Integrated Operations of Intracity Public Transport Routes

Freight Transport

- 3 Truck Terminal

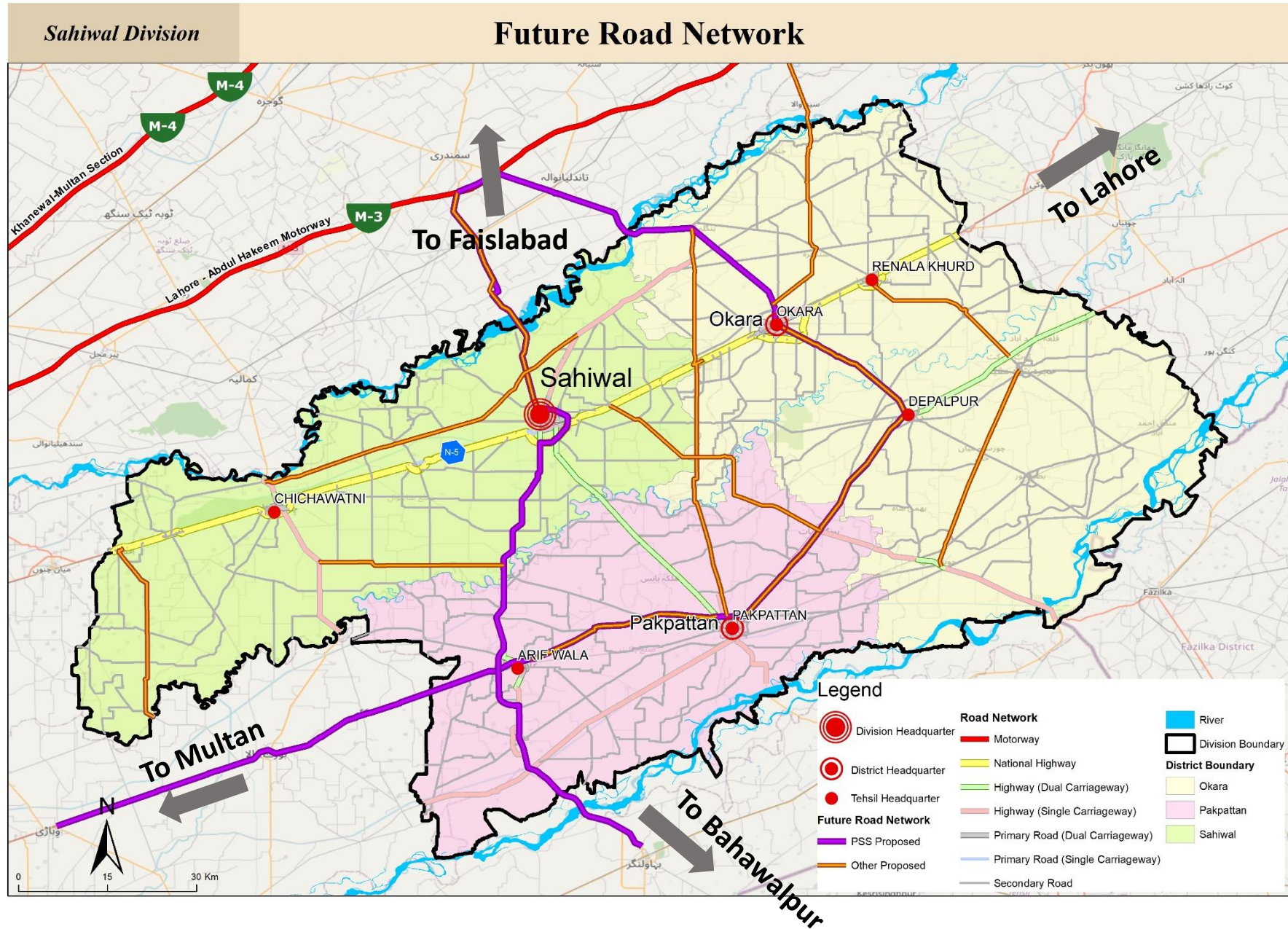
Parking

- 1 Parking Plaza

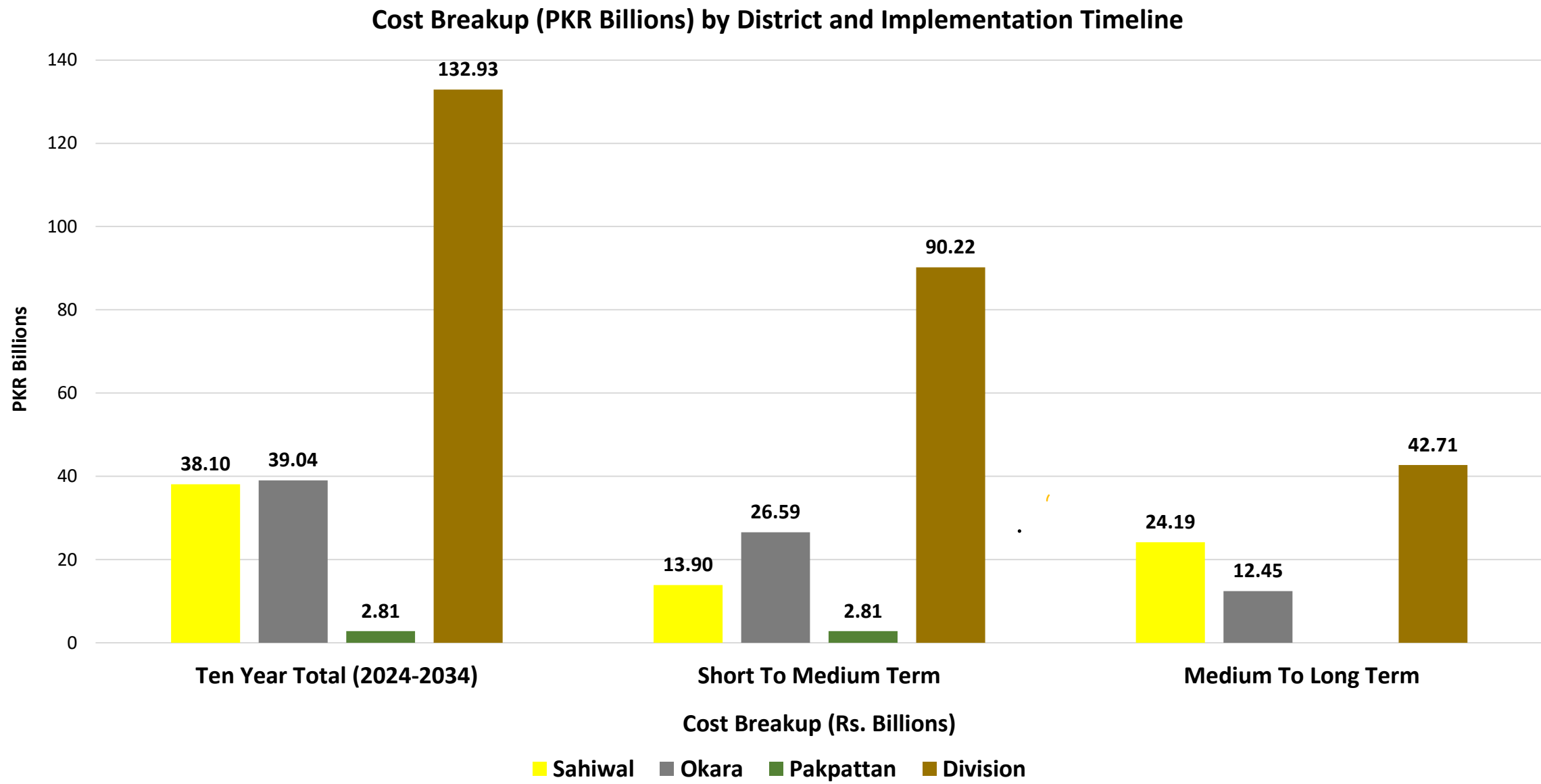
Key Institutions

1. Punjab Transport Company (PTC)
2. Regional Transport Authority

Integrated Transport Network



Cost Breakup of the Proposed Road Schemes



Potential Road Schemes



District	Proposed Road Schemes	Intervention	ADT Projections			
			2024	2027	2030	2034
Sahiwal	1. Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3 (PSS)	Dualization	8799	9270	9741	10370
	2. Dualization of Burewala Road from Chichawatni to Kamand	Dualization	9320	9819	10318	10984
	3. Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal	Widening	2734	2880	3027	3222
	4. Widening of Chichawatni Harapa Road	Widening	2131	2246	2360	2512
	5. Upgradation of Kamir Chichawatni Road	Upgradation	2184	2301	2418	2574
Okara	6. Dualization of Okara Depalpur Road (PSS)	Dualization	12031	12676	13320	14179
	7. Dualization of Okara-Syedwala-Jarranwala Road	Dualization	6593	6947	7300	7771
	8. Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera	Widening	3435	3619	3803	4048
	9. Dualization of Road from Haveli Lakha to Hujra Shah	Dualization	5514	5809	6105	6498
	10. Dualization of Road from Renala Khurd to Kot Shaukat	Dualization	6512	6861	7209	7674
Pakpattan	11. Dualization of Arifwala Pakpattan Road (PSS)	Dualization	7127	7508	7890	8399
	12. Dualization of Depalpur Road (PSS)	Dualization	7358	7753	8147	8672

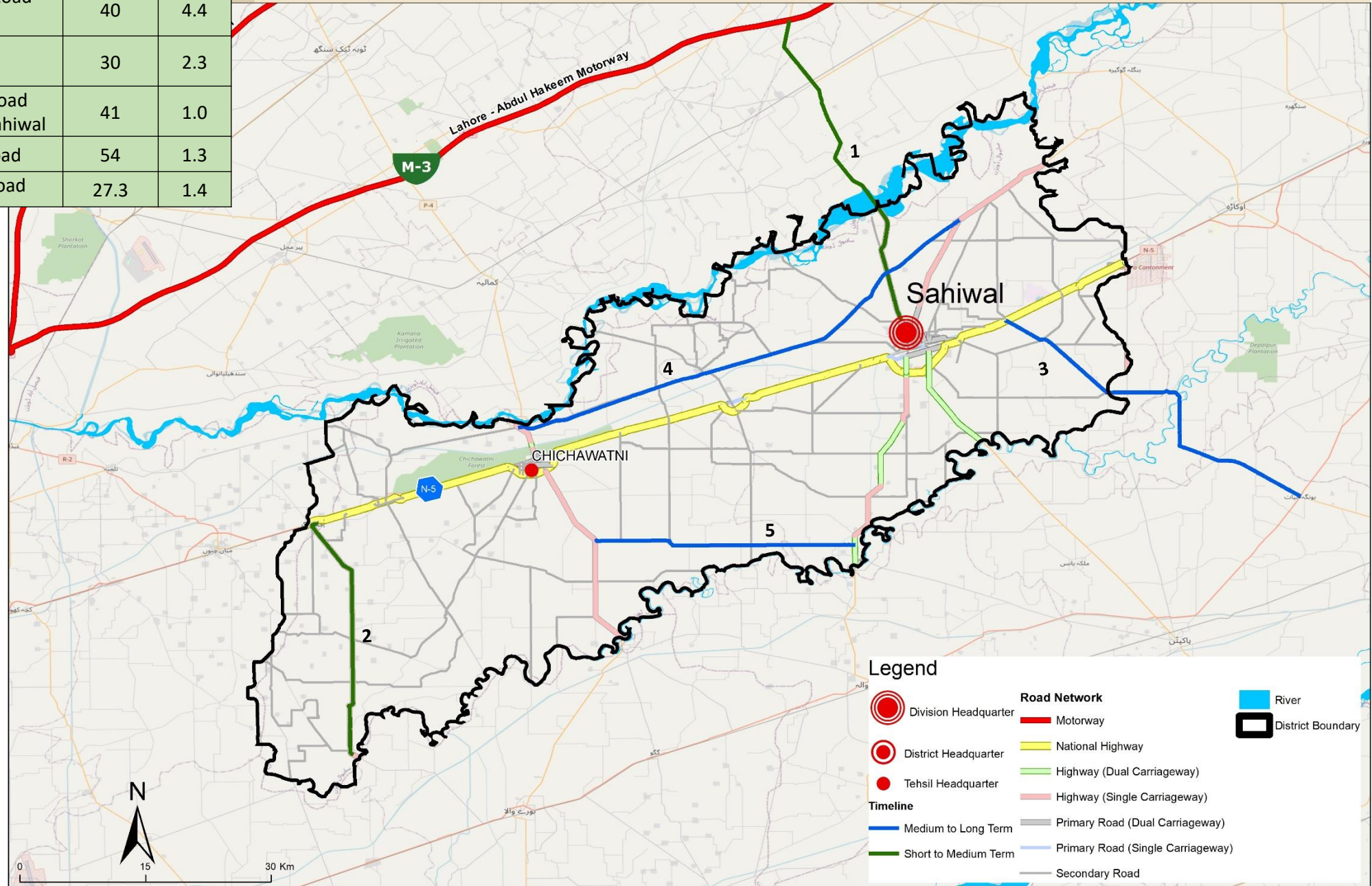
Benefit-Cost Ratio & Implementation Timeline



Sr. No	District	Proposed Schemes	Length (Km)	Cost (PKR Millions)	B/C Ratio	Phase
1	Sahiwal	Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3 (PSS)	40	7945.45	4.4	Short to Medium Term
2		Dualization of Burewala Road from Chichawatni to Kamand	30	5959.09	2.3	Short to Medium Term
3		Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal	41	8144.08	1.0	Medium to Long Term
4		Widening of Chichawatni Harapa Road	54	10627.04	1.3	Medium to Long Term
5		Upgradation of Kamir Chichawatni Road	27.3	5422.77	1.4	Medium to Long Term
6	Okara	Dualization of Okara Depalpur Road (PSS)	24	961.71	17.8	Short to Medium Term
7		Dualization of Okara-Syedwala-Jarranwala Road	59	11719.53	2.1	Short to Medium Term
8		Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera	70.00	13904.53	1.3	Short to Medium Term
9		Dualization of Road from Haveli Lakha to Hujra Shah	35	6952.27	4.3	Medium to Long Term
10		Dualization of Road from Renala Khurd to Kot Shaukat	27.7	5502.22	2.4	Medium to Long Term
11	Pakpattan	Dualization of Arifwala Pakpattan Road (PSS)	29	1162.07	10.0	Short to Medium Term
12		Dualization of Depalpur Road (PSS)	41	1642.93	13.1	Short to Medium Term

Sr. No	Proposed Schemes	Length (Km)	B/C Ratio
1	Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3	40	4.4
2	Dualization of Burewala Road from Chichawatni to Kamand	30	2.3
3	Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal	41	1.0
4	Widening of Chichawatni Harapa road	54	1.3
5	upgradation of Kmir Chichawatni Road	27.3	1.4

District Sahiwal Scheme Timeline



Legend

- Division Headquarter (Red circle with concentric circles)
- District Headquarter (Red circle)
- Tehsil Headquarter (Red dot)

Road Network

- Motorway (Red line)
- National Highway (Yellow line)
- Highway (Dual Carriageway) (Green line)
- Highway (Single Carriageway) (Pink line)
- Primary Road (Dual Carriageway) (Grey line)
- Primary Road (Single Carriageway) (Light blue line)
- Secondary Road (Thin grey line)

Timeline

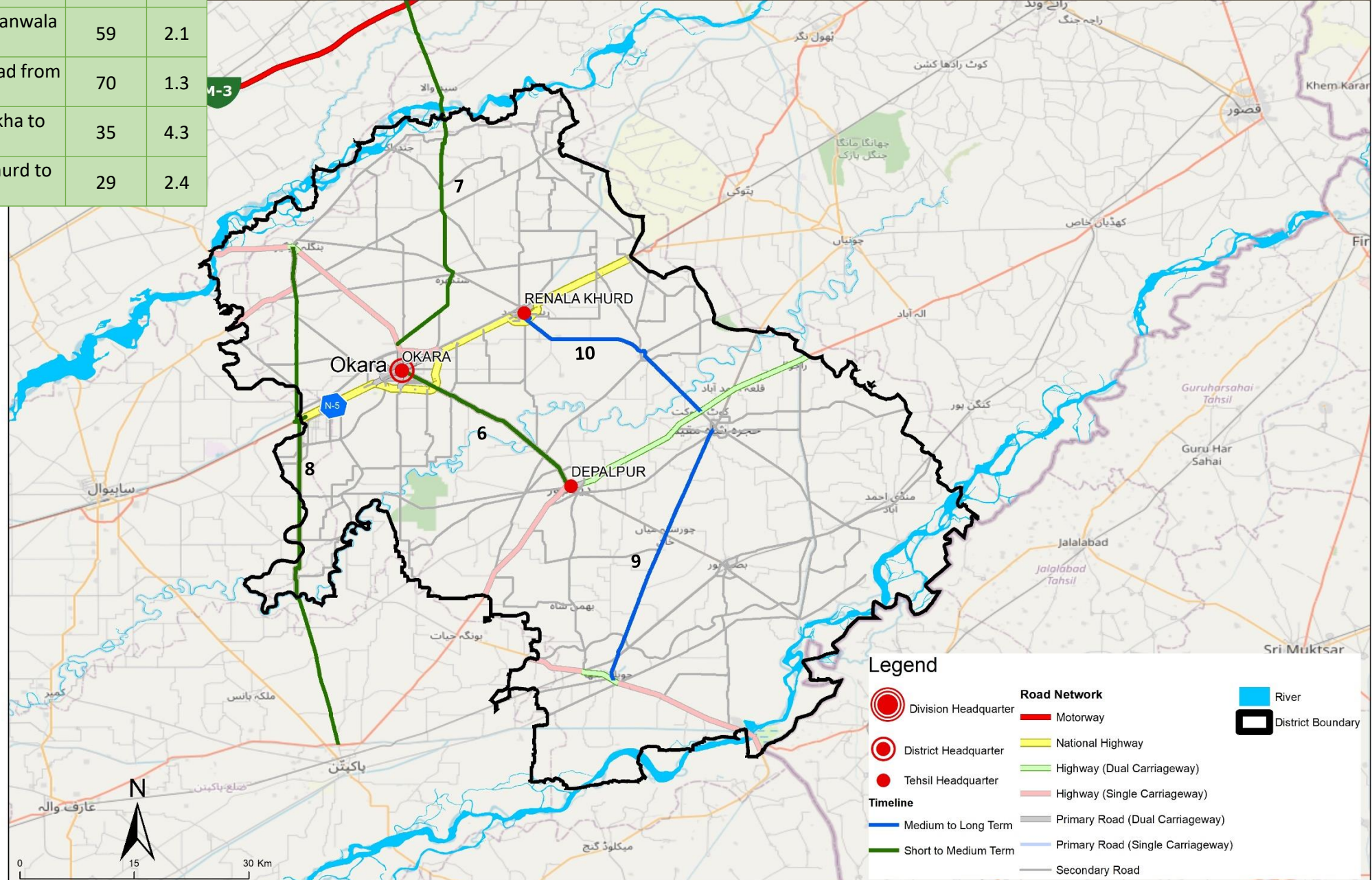
- Medium to Long Term (Blue line)
- Short to Medium Term (Green line)

Other Symbols

- River (Blue area)
- District Boundary (Black outline)

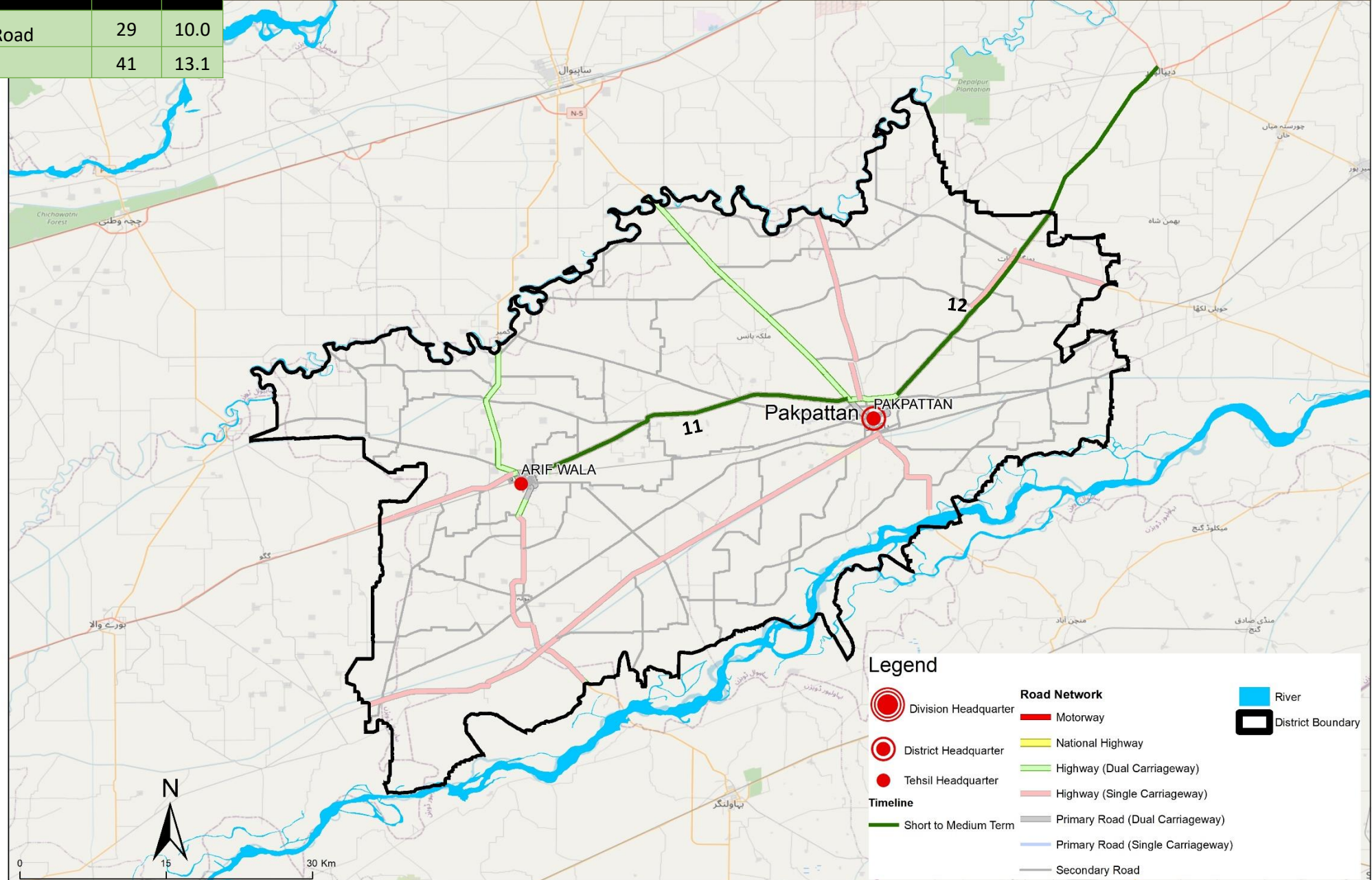
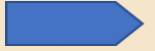
Sr. No	Proposed Schemes	Length (Km)	B/C Ratio
6	Dualization of Okara Depalpur Road	24	17.8
7	Dualization of Okara-Syedwala-Jarranwala Road	59	2.1
8	Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera	70	1.3
9	Dualization of Road from Haveli Lakha to Hujra shah	35	4.3
10	Dualization of Road from Renala Khurd to Kot Shaukat	29	2.4

District Okara Scheme Timeline



Sr.No	Proposed Schemes	Length (Km)	B/C Ratio
11	Dualization of Arifwala Pakpattan Road	29	10.0
12	Dualization of Depalpur Road	41	13.1

District Pakpattan Scheme Timeline



1: Sahiwal Faisalabad Road

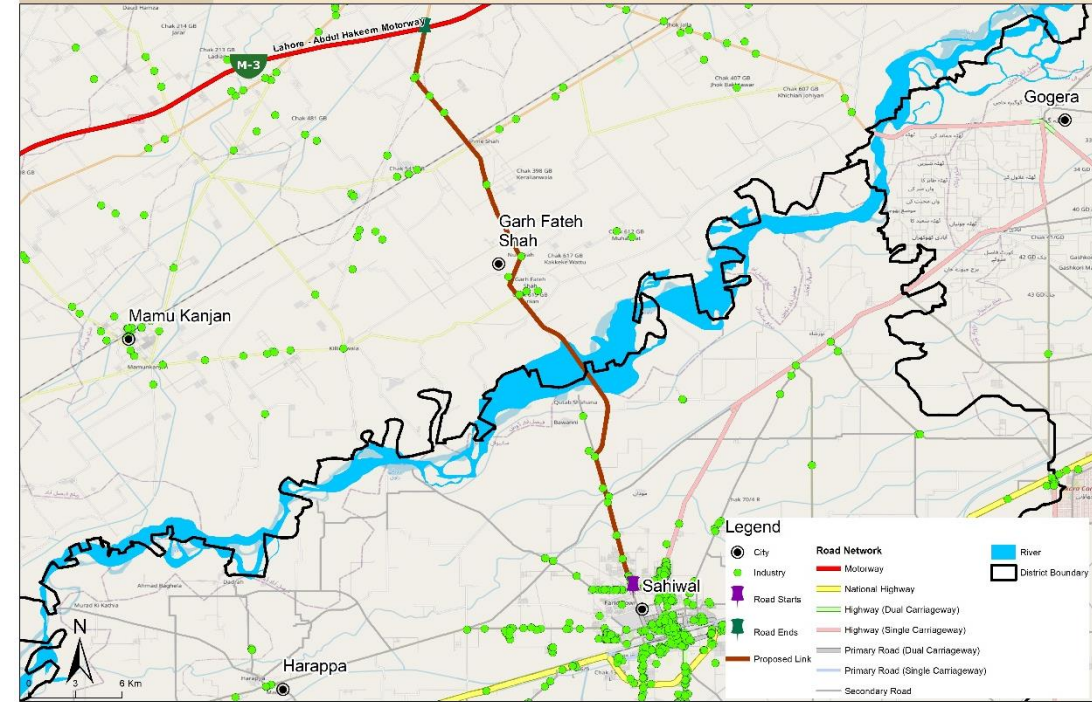
Project Name Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3

Districts Sahiwal

Phase Short To Medium Term (2024-2030)

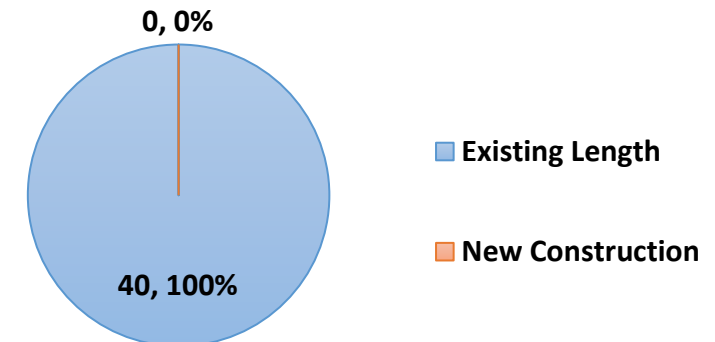
Total Cost (PKR Millions) 7945.45

Benefit Cost Ratio 4.4



District	Industrial Produce	Agriculture Produce	Tourism Site
Sahiwal	Pharmaceuticals, Textile Spinning, Textile Weaving, Tobacco and Woolen Textile Spinning/Weaving	Wheat, Sugarcane, Maize and Cotton	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada

Construction Detail Length (km), %



2: Burewala Road

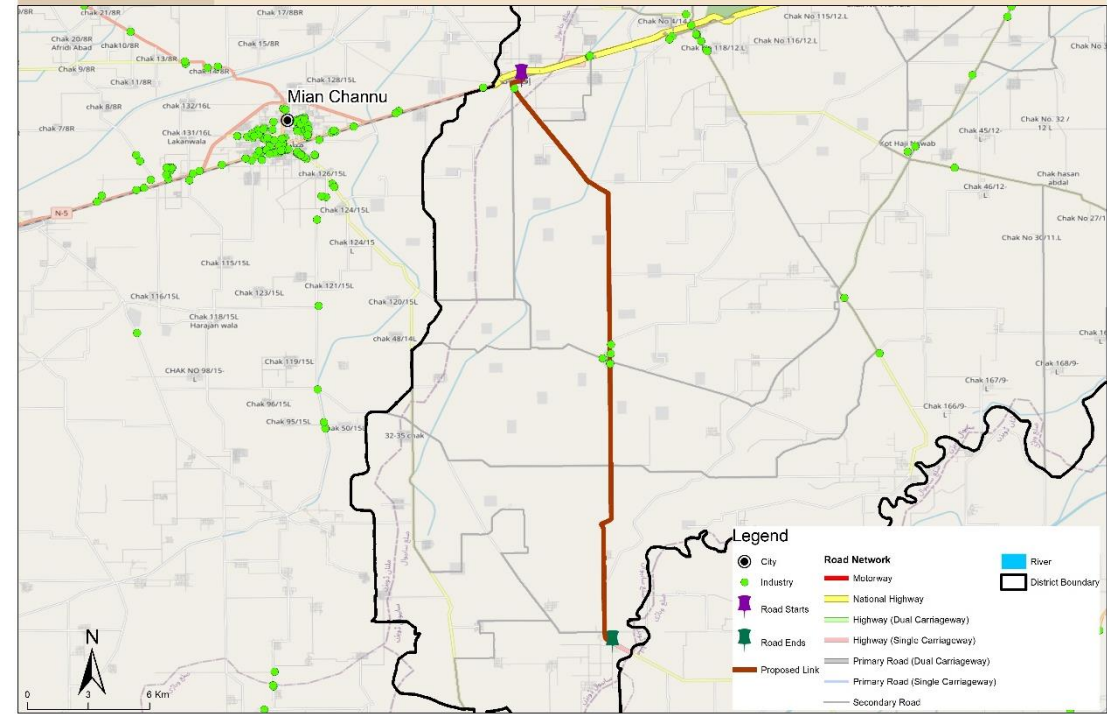
Project Name Dualization of Burewala Road from Chichawatni to Kamand

Districts Sahiwal

Phase Short To Medium Term (Year 2024-2030)

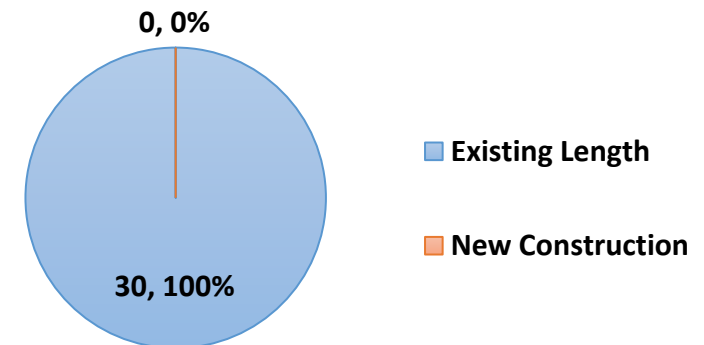
Total Cost (PKR Millions) 5959.05

Benefit Cost Ratio 2.3



District	Industrial Produce	Agriculture Produce	Tourism Site
Sahiwal	Pharmaceuticals, Textile Spinning, Textile Weaving, Tobacco and Woolen Textile Spinning/Weaving	Wheat, Sugarcane, Maize and Cotton	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada

Construction Detail Length (km), %



3: Sahiwal Bonga Hayat Road

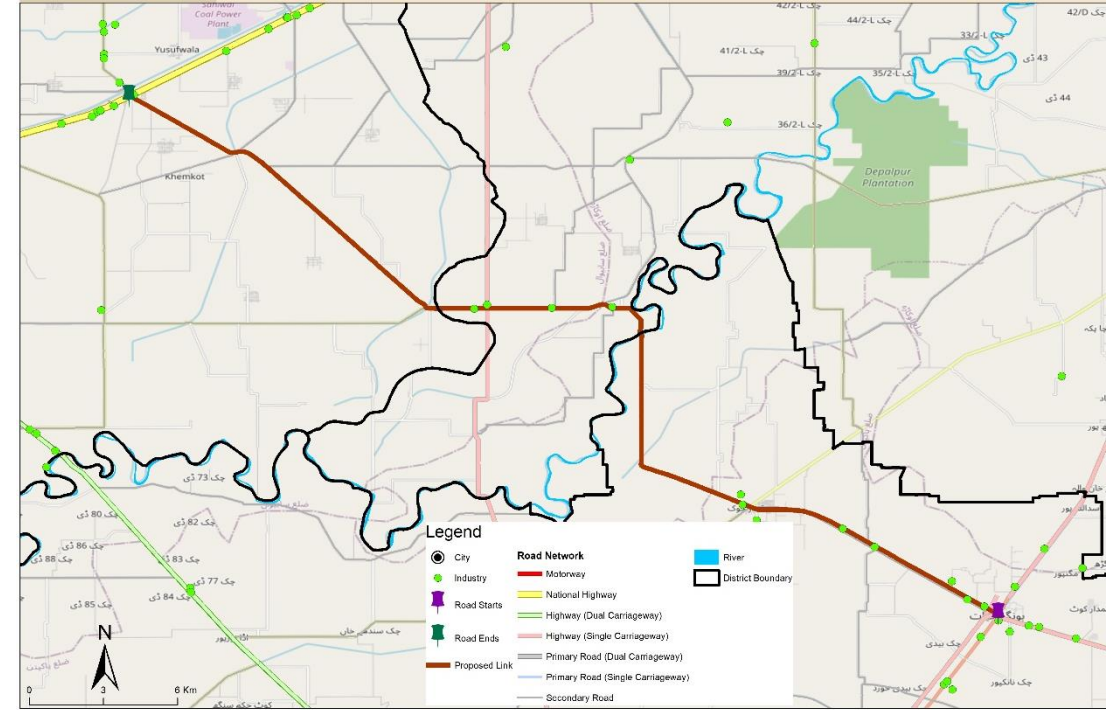
Project Name Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal

Districts Sahiwal

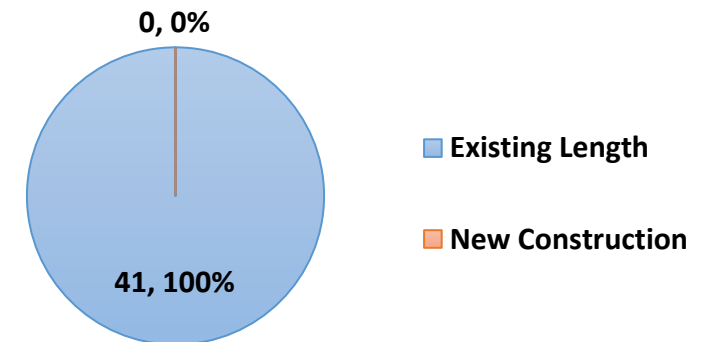
Phase Medium to Long Term (Year 2030 – 2034)

Total Cost (PKR Millions) 8144.08

Benefit Cost Ratio 2.2



Construction Detail Length (km), %



District	Industrial Produce	Agriculture Produce	Tourism Site
Sahiwal	Pharmaceuticals, Textile Spinning, Textile Weaving, Tobacco and Woolen Textile Spinning/Weaving	Wheat, Sugarcane, Maize and Cotton	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada

4: Chichawatni-Harapa Road

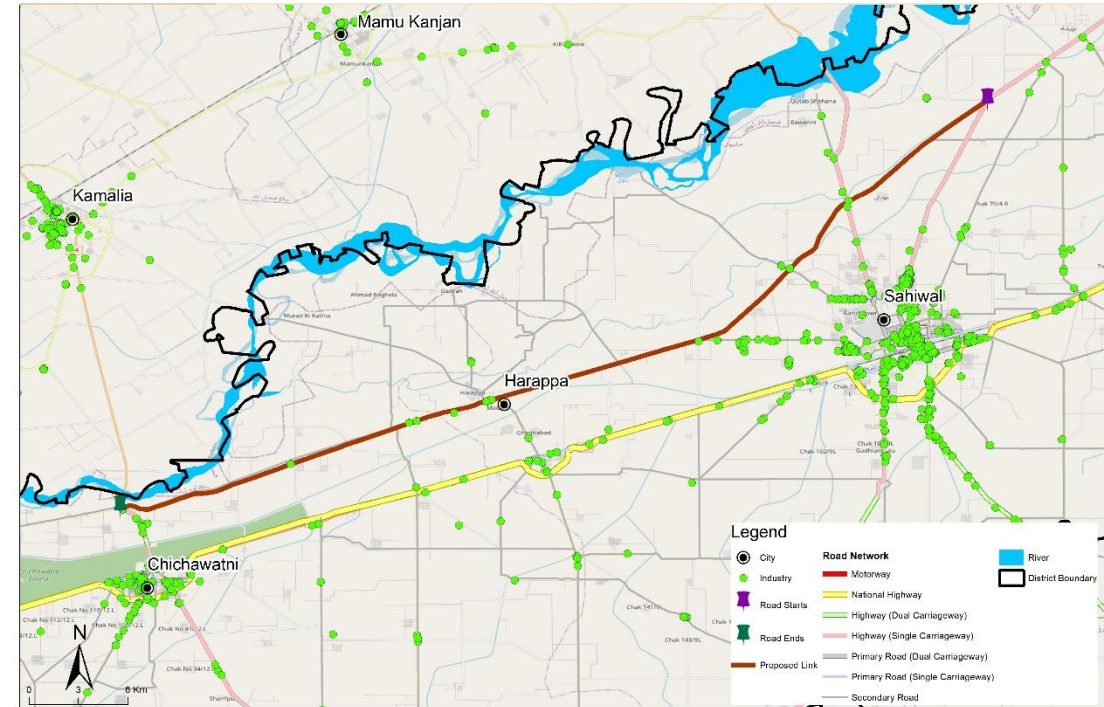
Project Name Widening of Chichawatni Harapa Road

Districts Sahiwal

Phase Medium To Long Term (Year 2030 – 2034)

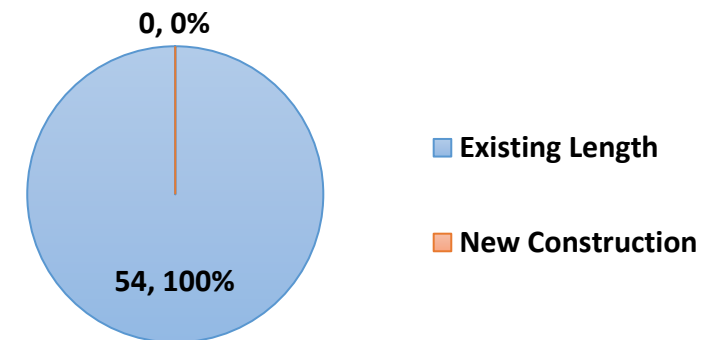
Total Cost (PKR Millions) 10627.04

Benefit Cost Ratio 1.3



District	Industrial Produce	Agriculture Produce	Tourism Site
Sahiwal	Pharmaceuticals, Textile Spinning, Textile Weaving, Tobacco and Woolen Textile Spinning/Weaving	Wheat, Sugarcane, Maize and Cotton	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada

Construction Detail
Length (km), %



5: Kamir-Chichawatni Road

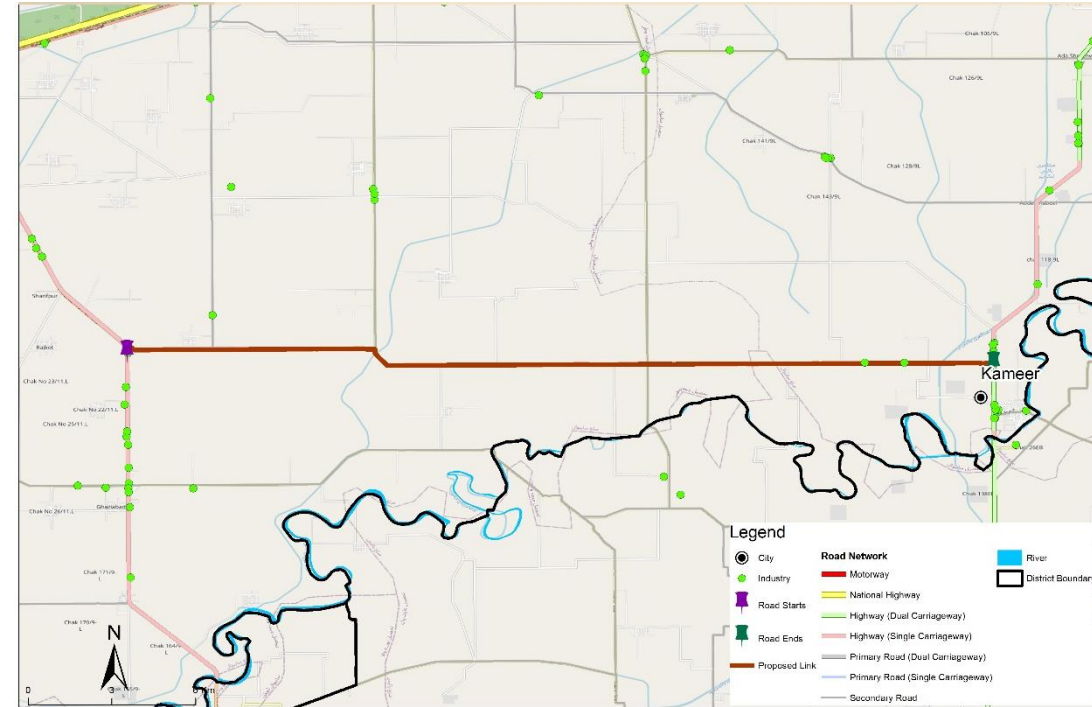
Project Name Upgradation of Kamir Chichawatni Road

Districts Sahiwal

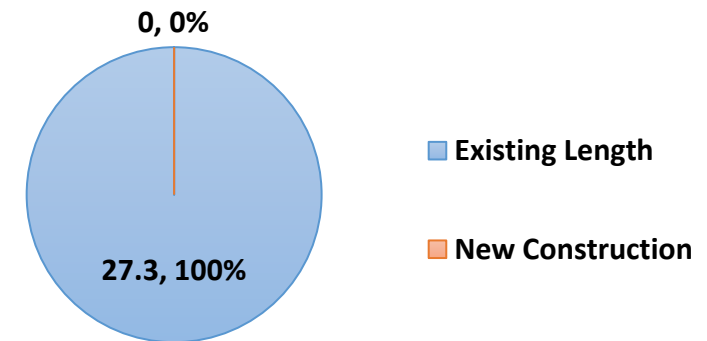
Phase Medium To Long Term (Year 2030 – 2034)

Total Cost (PKR Millions) 5422.77

Benefit Cost Ratio 1.4



Construction Detail Length (km), %



District	Industrial Produce	Agriculture Produce	Tourism Site
Sahiwal	Pharmaceuticals, Textile Spinning, Textile Weaving, Tobacco and Woolen Textile Spinning/Weaving	Wheat, Sugarcane, Maize and Cotton	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada

6: Okara-Depalpur Road

Project Name Dualization of Okara Depalpur Road

Districts Okara

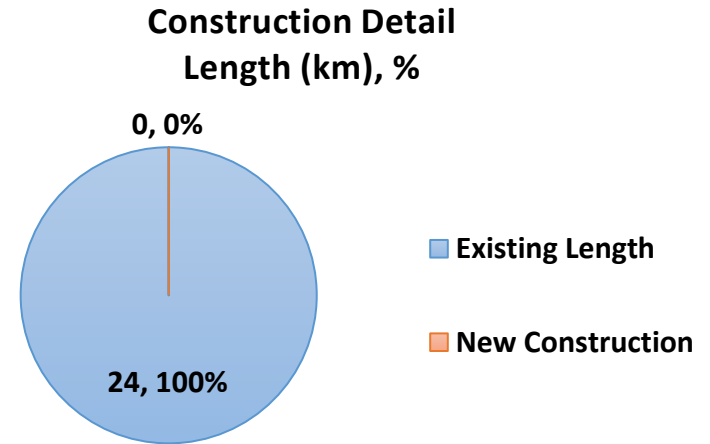
Phase Short To Medium Term (Year 2024 – 2030)

Total Cost (PKR Millions) 961.71

Benefit Cost Ratio 17.8



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Ghee Mill, Brick Kilns, Flour Mills, Cold Storage	Wheat, cotton. Maize, rice, bajra and other crops	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind



7: Okara-Syedwala-Jarranwala Road

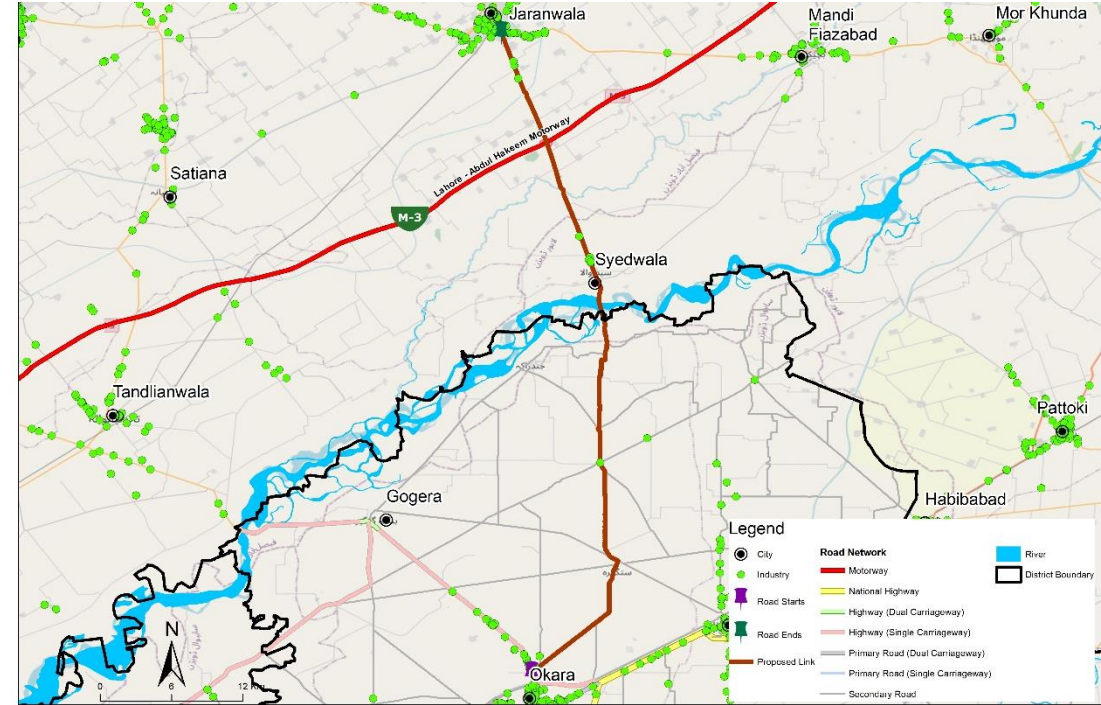
Project Name Dualization of Okara-Syedwala-Jarranwala Road

Districts Okara

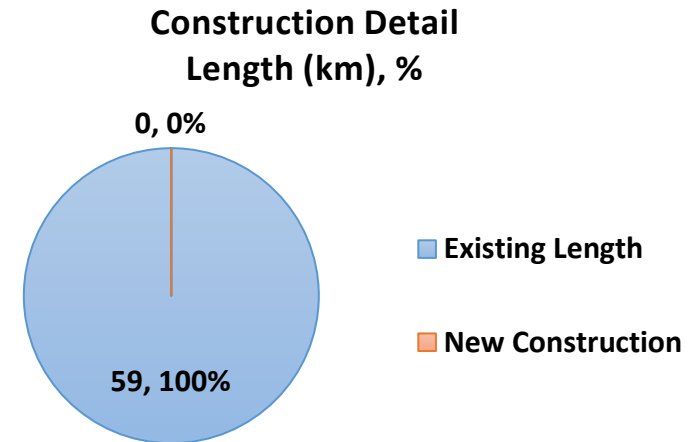
Phase Short To Medium Term (Year 2024 – 2030)

Total Cost (PKR Millions) 11719.53

Benefit Cost Ratio 2.1



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Ghee Mill, Brick Kilns, Flour Mills, Cold Storage	Wheat, cotton. Maize, rice, bajra and other crops	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind



8: Pakpattan Gamber Road

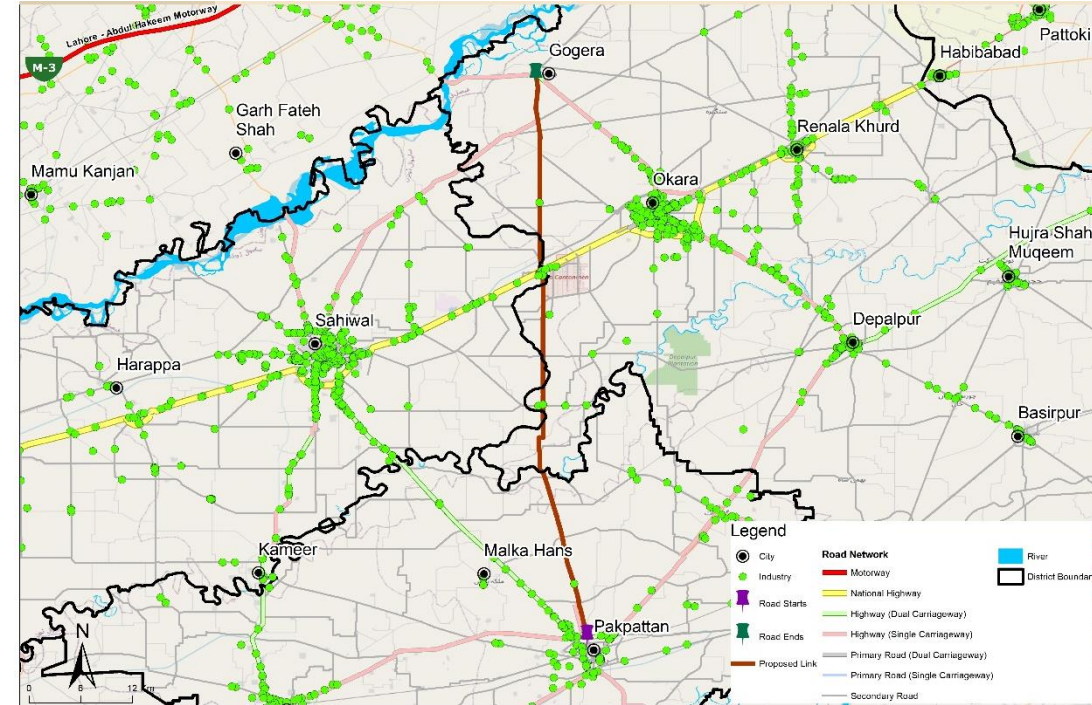
Project Name Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera

Districts Okara

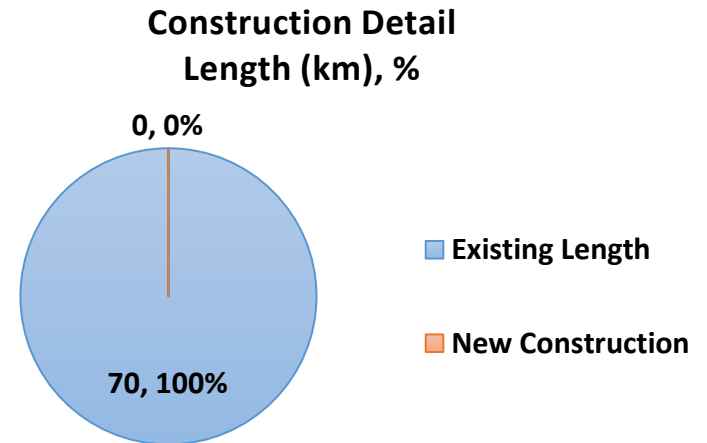
Phase Short To Medium Term (Year 2024 – 2030)

Total Cost (PKR Millions) 13904.53

Benefit Cost Ratio 1.3



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Ghee Mill, Brick Kilns, Flour Mills, Cold Storage	Wheat, cotton. Maize, rice, bajra and other crops	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind



9: Haveli Lakha Hujra Shah Road

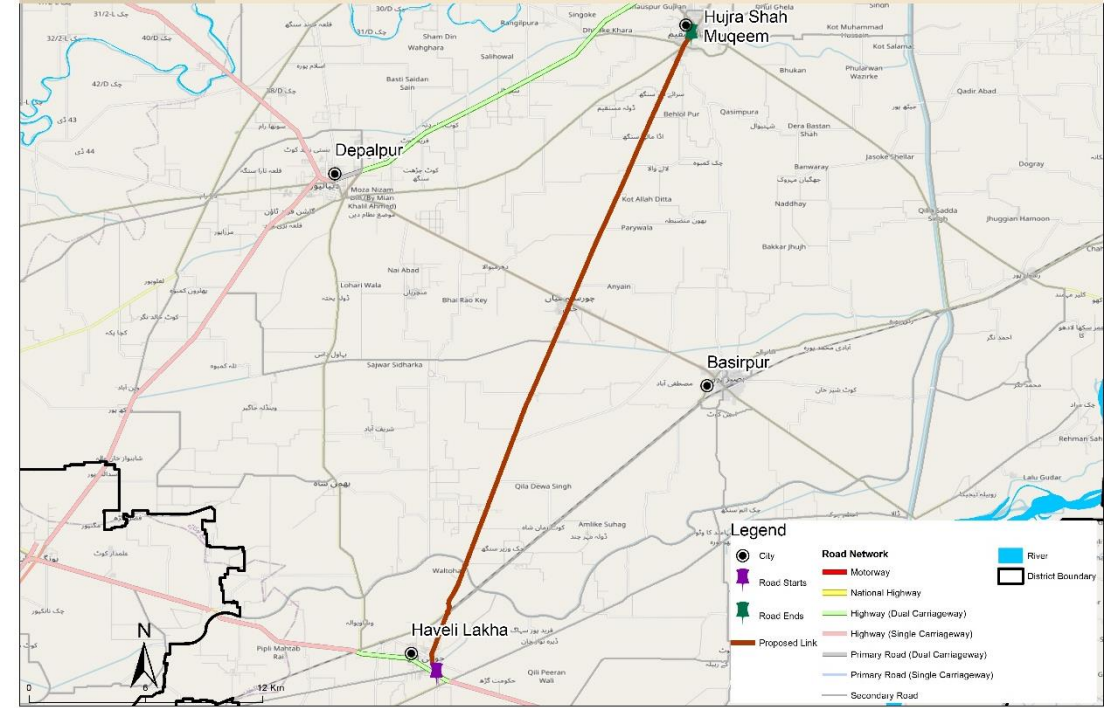
Project Name Dualization of Road from Haveli Lakha to Hujra Shah

Districts Okara

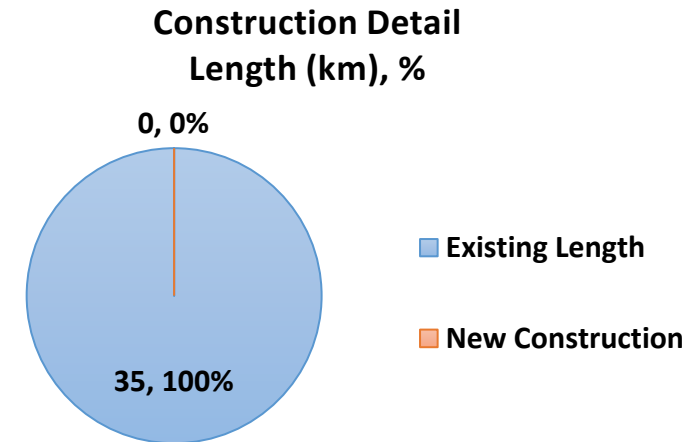
Phase Medium to Long Term (Year 2030 – 2034)

Total Cost (PKR Millions) 6952.27

Benefit Cost Ratio 4.3



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Ghee Mill, Brick Kilns, Flour Mills, Cold Storage	Wheat, cotton. Maize, rice, bajra and other crops	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind



10: Renala Khurd Shergarh Road

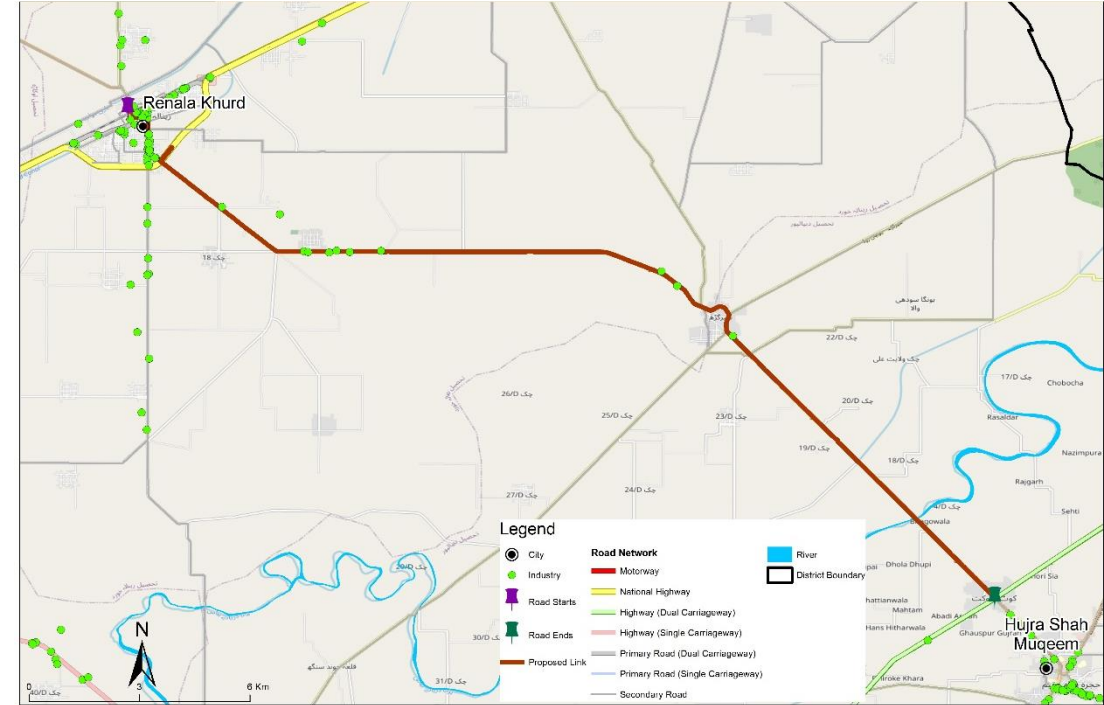
Project Name Dualization of Road from Renala Khurd to Kot Shaukat

Districts Okara

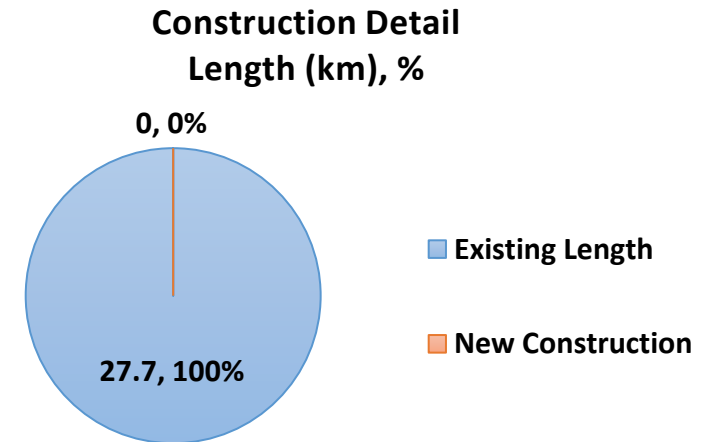
Phase Medium to Long Term (Year 2030 – 2034)

Total Cost (PKR Millions) 5502.22

Benefit Cost Ratio 2.4



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Ghee Mill, Brick Kilns, Flour Mills, Cold Storage	Wheat, cotton. Maize, rice, bajra and other crops	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind



11: Arifwala-Pakpattan Road

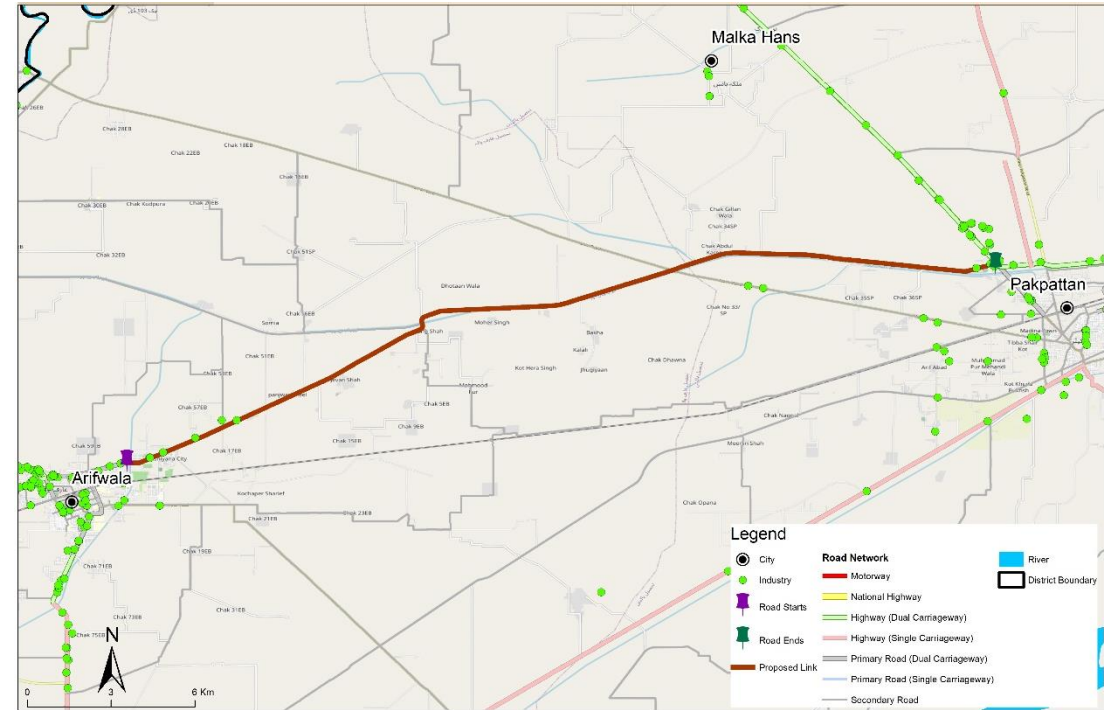
Project Name Dualization of Arifwala Pakpattan Road

Districts Pakpattan

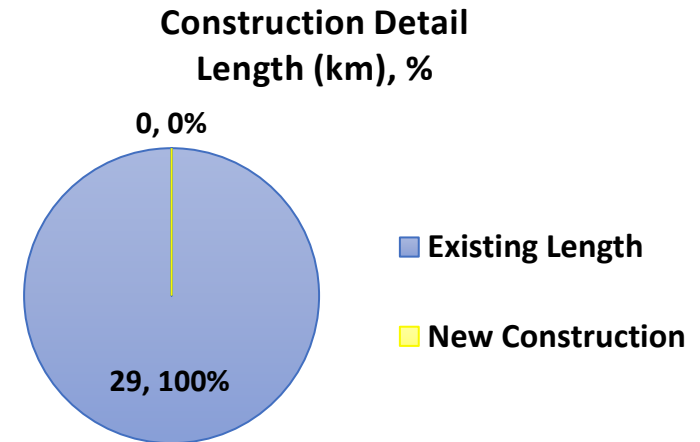
Phase Short To Medium Term (Year 2024 – 2030)

Total Cost PKR Millions 1162.07

Benefit Cost Ratio 10.0



District	Industrial Produce	Agriculture Produce	Tourism Site
Pakpattan	Textile, Poultry, Flour, Cold storage, seed processing	Sugarcane. Maize, wheat, rice, oilseeds and other crops	Shrine Hazrat Baba Farid R.A, Masjid Waris shah



12: Depalpur Road

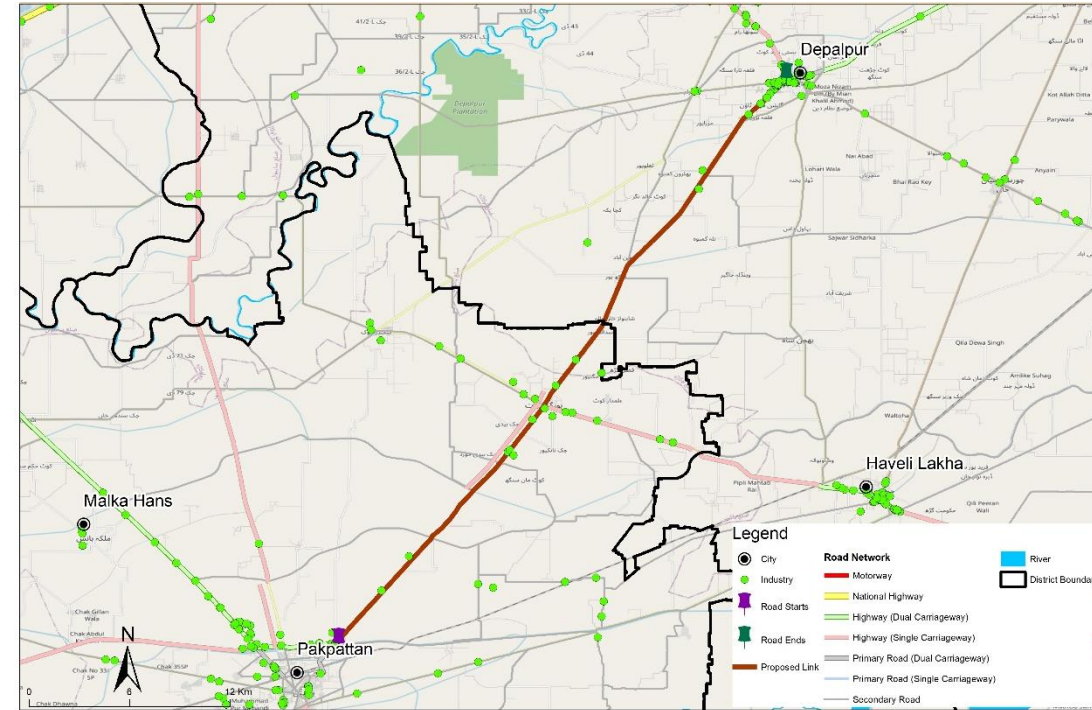
Project Name Dualization of Depalpur Road

Districts Pakpattan

Phase Short To Medium Term (Year 2024 - 2030)

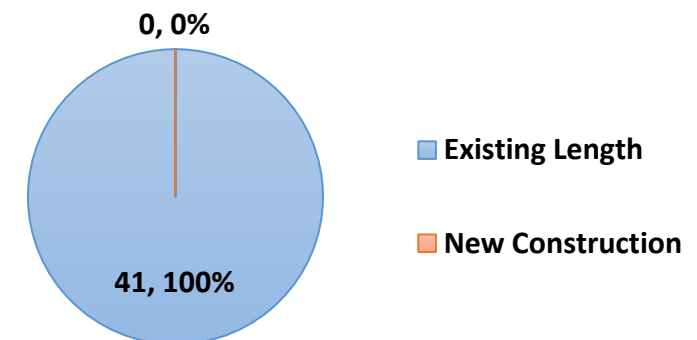
Total Cost PKR Millions 1642.93

Benefit Cost Ratio 13.1



District	Industrial Produce	Agriculture Produce	Tourism Site
Pakpattan	Textile, Poultry, Flour, Cold storage, seed processing	Sugarcane. Maize, wheat, rice, oilseeds and other crops	Shrine Hazrat Baba Farid R.A, Masjid Waris shah

Construction Detail Length (km), %



K2: Bahawalnagar to KLM (PSS)

Project Name Dualization and Upgradation of Road from Bahawalnagar to KLM

Via Arifwala & Sahiwal

Districts Bahawalnagar, Pakpattan, Sahiwal & Faisalabad

Length 136 Km (+ 2 Bridges)

Phase I (Year 2017 – 2027)

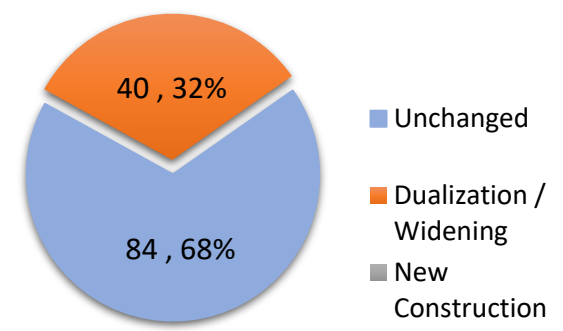
Total Cost PKR Million 7,131.1

Benefit Cost Ratio 2.6

District	Industrial Produce	Agriculture Produce	Tourism Site
Bahawalnagar	Food Products, Non-Metallic Mineral Products	Chilies, Cotton, Rice, Wheat	Dubai Palace. Fort Abbas, Fort Marot, Satluj Park
Pakpattan	Food Products, Non-Metallic Mineral Products	Rice, Maize, Potato, Garlic, Cucumber, Chilies	Shrine Hazrat Baba Farid R.A, Masjid Waris shah
Sahiwal	Wood And Of Products Of Wood And Cork, Non-Metallic Mineral Products, Food Products	Maize, Potato, Guava, Cucumber, Chilies, Bitter ground	Harrapa Museum, Sahiwal Coal Power plant. Zafar Ali stadium, Masjid-e-Shuhada
Faisalabad	Textiles, Food Products	Wheat, Sugarcane, Maize, Squash, Rapeseed..	Ghanta Ghar, Jinnah Gardens, Lyallpur Museum



Construction Detail
(Length (Km), Percentage)



Legend

- Cities
- ⊕ Dry Port
- ▲ Large Industrial Estates
- ▲ Small Industrial Estates
- Provincial Highways
- National Highways
- CPEC Alignments
- - - District Boundary
- Rivers
- Proposed Link

South Punjab Divisions

- Bahawalpur
- DG Khan
- Multan

60 Kilometers

K3: Deepalpur to KLM (PSS)

Project Name Dualization and Upgradation of Road from Deepalpur to KLM

Via Okara, Bangla Gogera & Jhok Jalla

Districts Okara & Faisalabad

Length 79 Km (+ 1 Bridge)

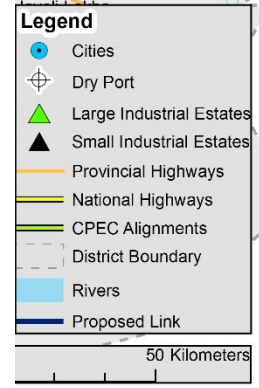
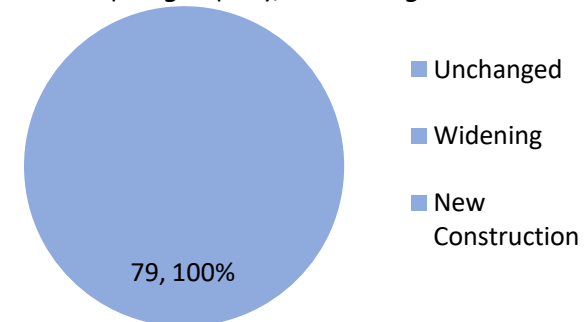
Phase I (Year 2017 – 2027)

Total Cost PKR Million 8,667.0

Benefit Cost Ratio 2.5



Construction Detail
(Length (Km), Percentage)



District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Fabricated Metal Products, Furniture	Rice, Maize, Potato, Guava, Cucumber, Chilies, Bitter Ground	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind
Faisalabad	Textiles, Food Products	Wheat, Sugarcane, Maize, Squash, Rapeseed..	Ghanta Ghar, Jinnah Gardens, Lyallpur Museum

NL1: Deepalpur to Vehari (PSS)

Project Name Dualization and Upgradation of Road from Deepalpur to Vehari

Via Pakpattan, Arifwala & Burewala

Districts Okara, Pakpattan & Vehari

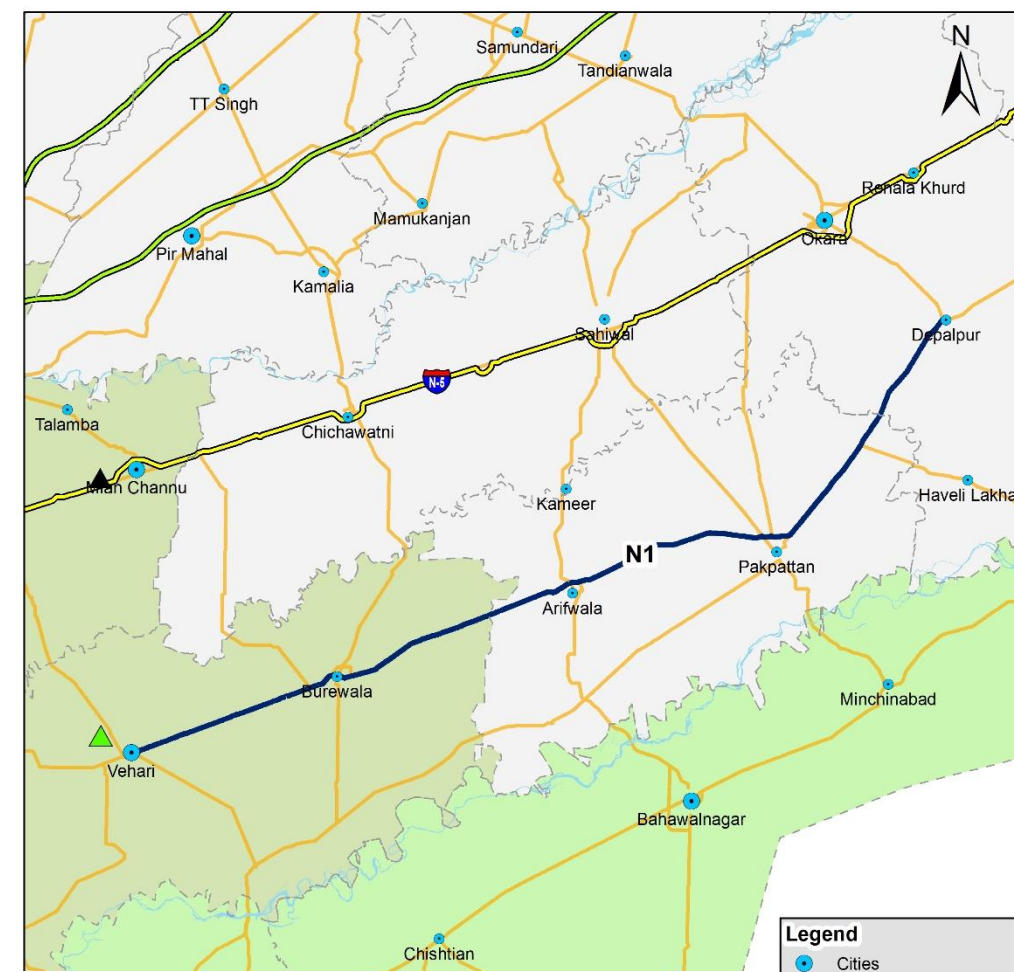
Length 150 Km

Phase I (Year 2017 – 2027)

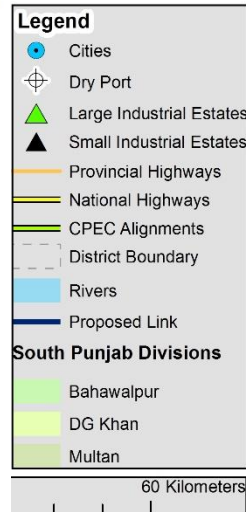
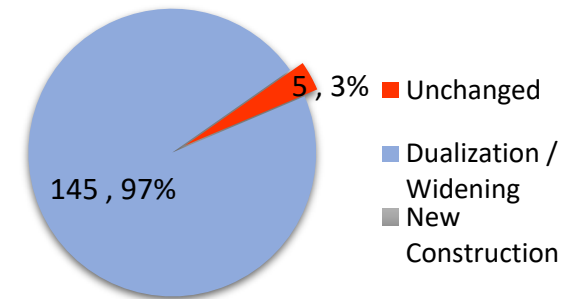
Total Cost PKR Million 15,907.8

Benefit Cost Ratio 2.5

District	Industrial Produce	Agriculture Produce	Tourism Site
Okara	Fabricated Metal Products, Furniture	Rice, Maize, Potato, Guava, Cucumber, Chilies, Bitter Ground	Bhoman shah. Goal Masjid, Mir Chakar-e-Azam Rind
Pakpattan	Food Products, Non-Metallic Mineral Products	Rice, Maize, Potato, Garlic, Cucumber, Chilies	Shrine Hazrat Baba Farid R.A, Masjid Waris shah
Vehari	Food Products, Non-Metallic Mineral Products	Wheat, Maize, Onion, Cotton, Citrus, Cucumber, Guava, Chilies	NA

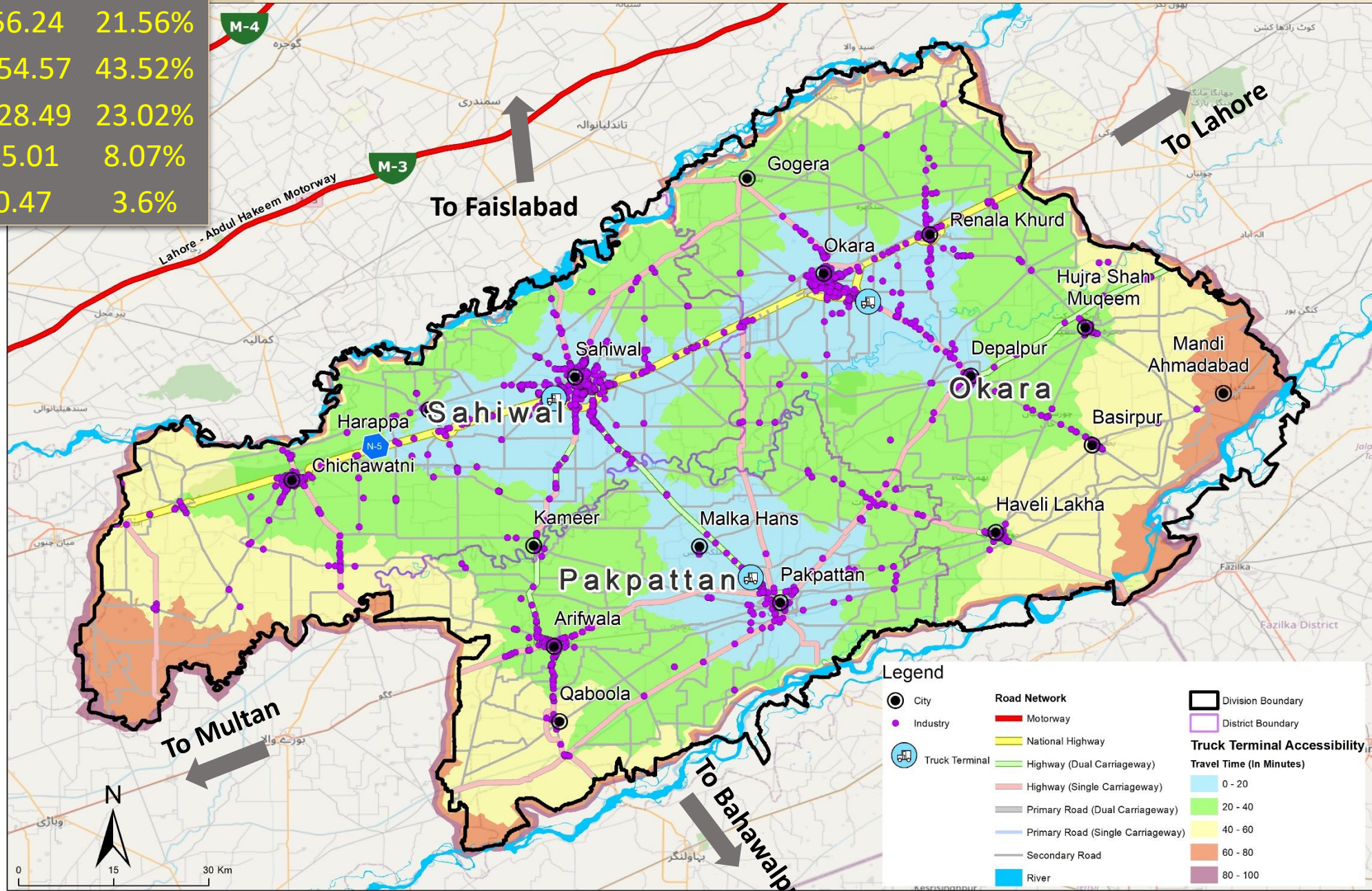


Construction Detail
(Length (Km), Percentage)



Time (Min)	Area (Km2)	%age
0-20	2256.24	21.56%
20-40	4554.57	43.52%
40-60	2428.49	23.02%
60-80	845.01	8.07%
80-100	380.47	3.6%

Proposed Truck Terminal Accessibility



Legend

- City
- Industry
- Truck Terminal

Road Network

- Motorway
- National Highway
- Highway (Dual Carriageway)
- Highway (Single Carriageway)
- Primary Road (Dual Carriageway)
- Primary Road (Single Carriageway)
- Secondary Road
- River

Division Boundary

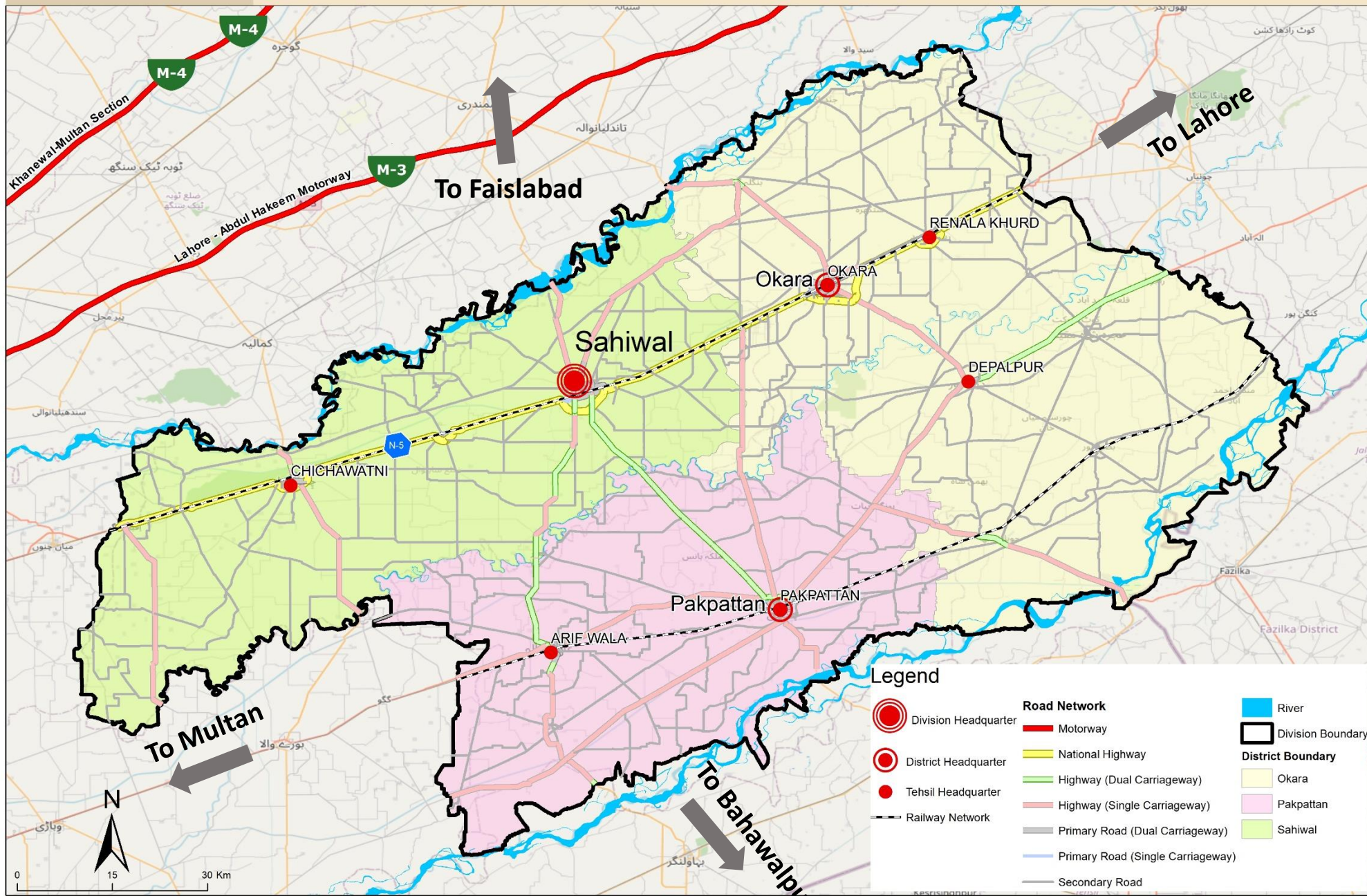
- Division Boundary
- District Boundary

Truck Terminal Accessibility

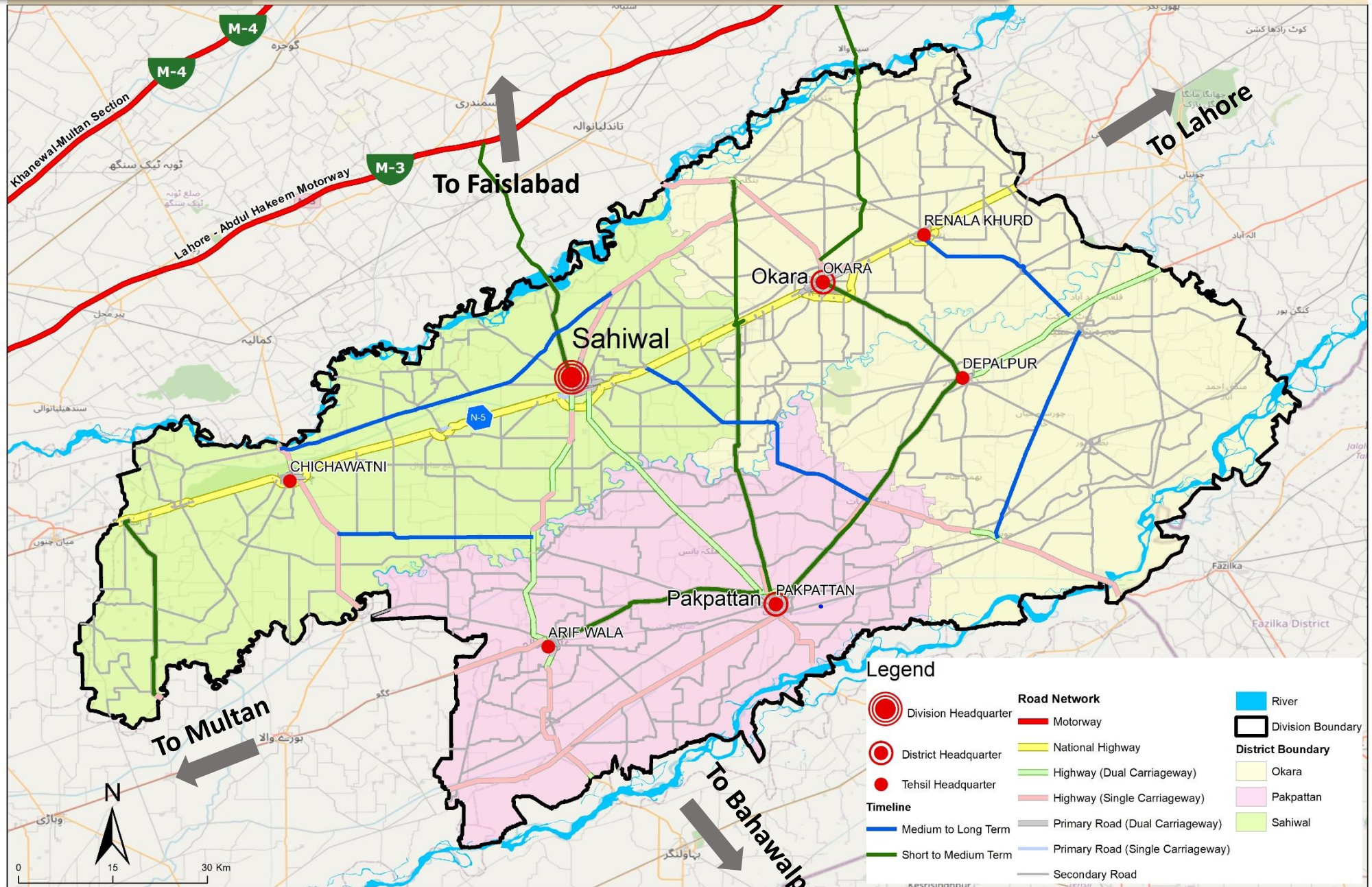
Travel Time (In Minutes)

- 0 - 20
- 20 - 40
- 40 - 60
- 60 - 80
- 80 - 100

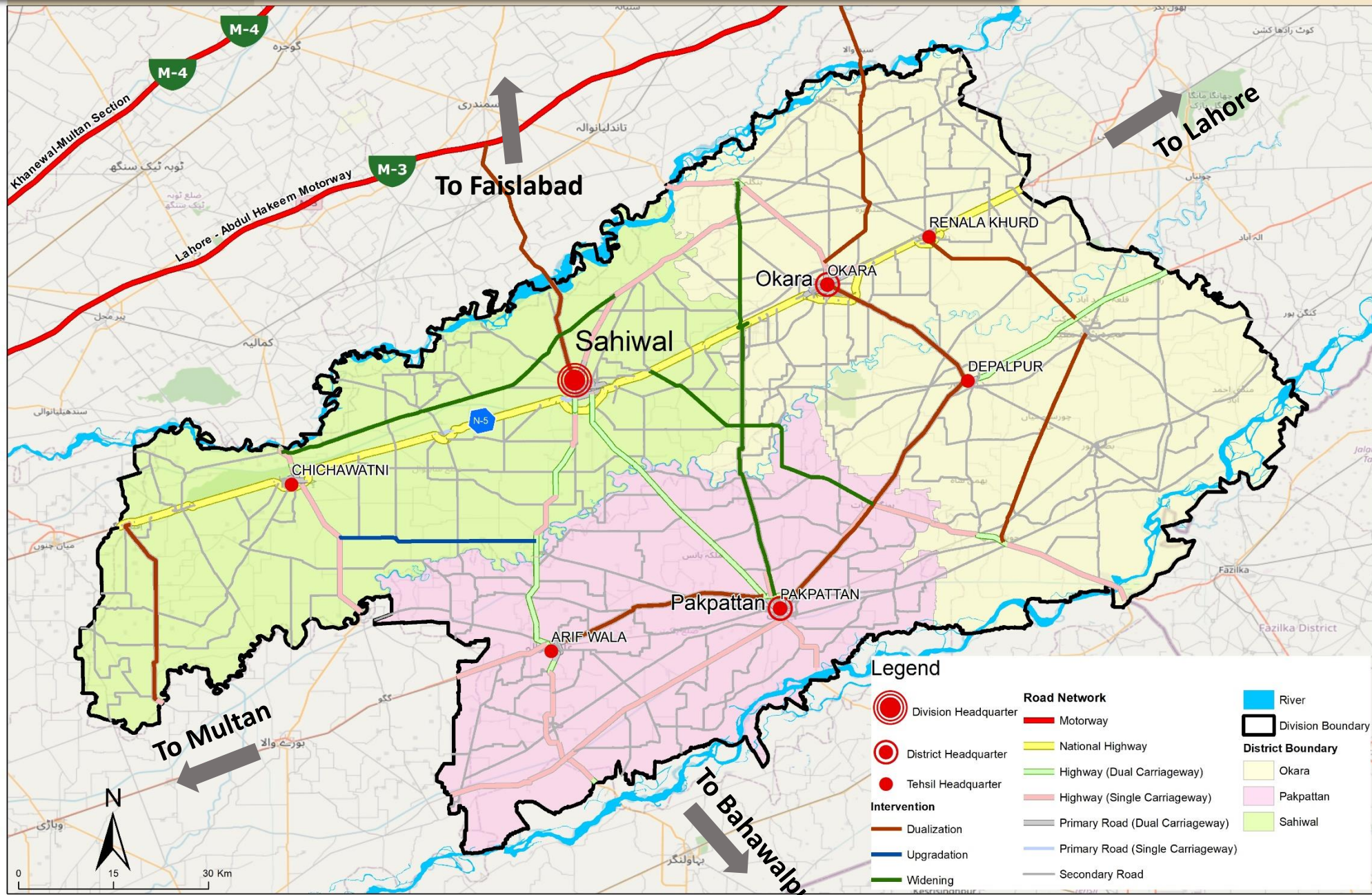
Current Road Network



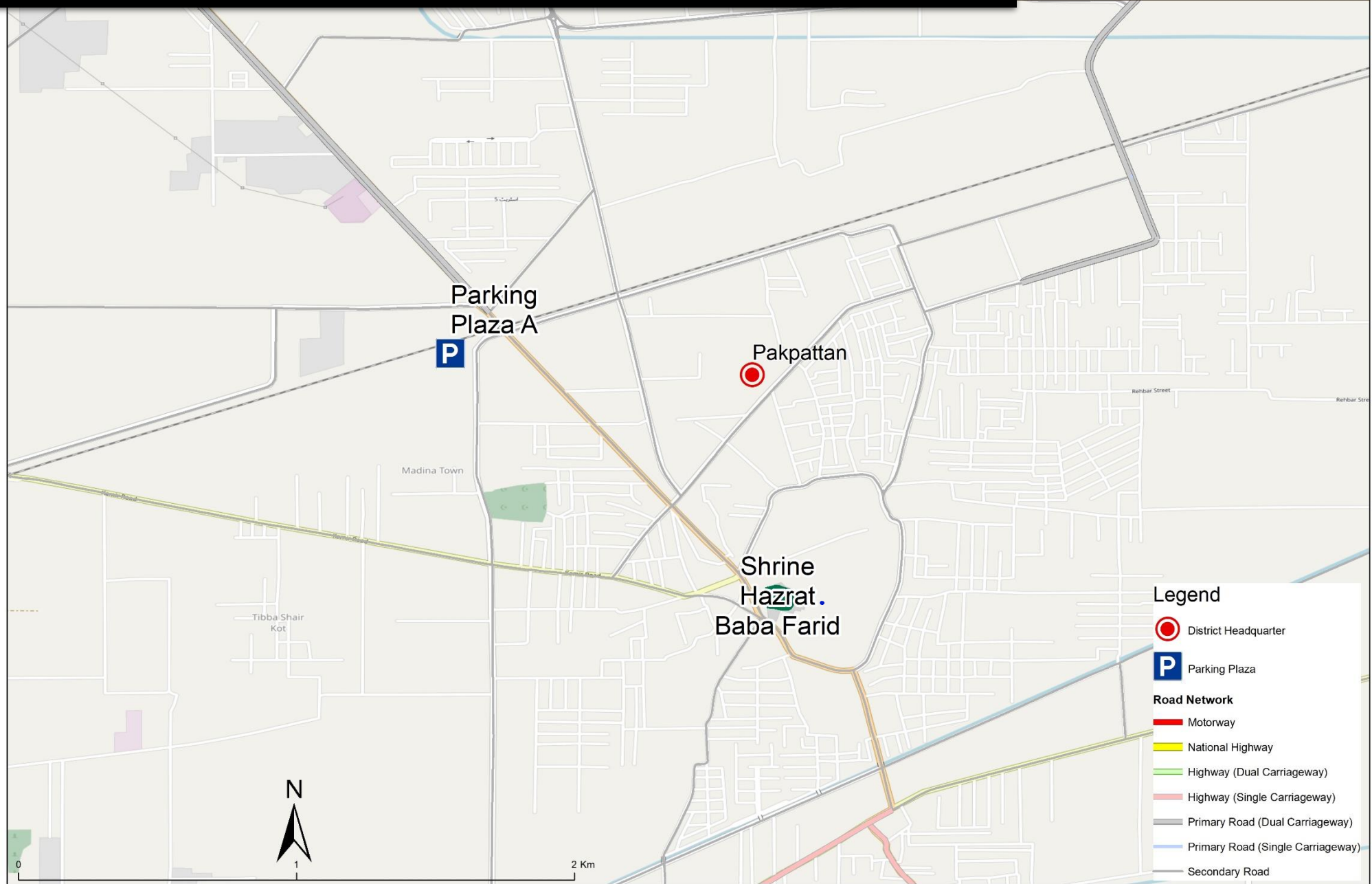
Road Schemes Timeline



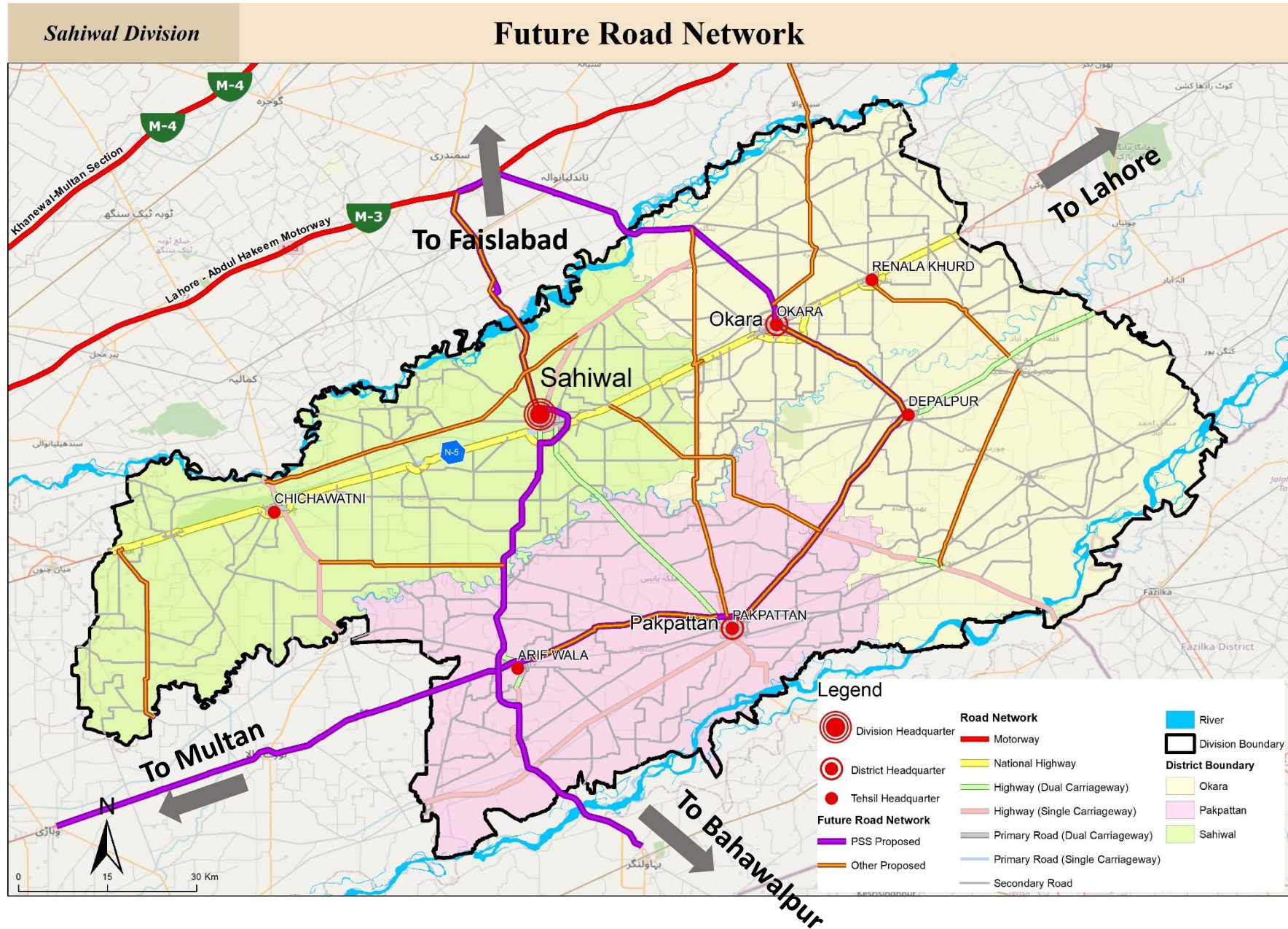
Proposed Intervention Sahiwal Division



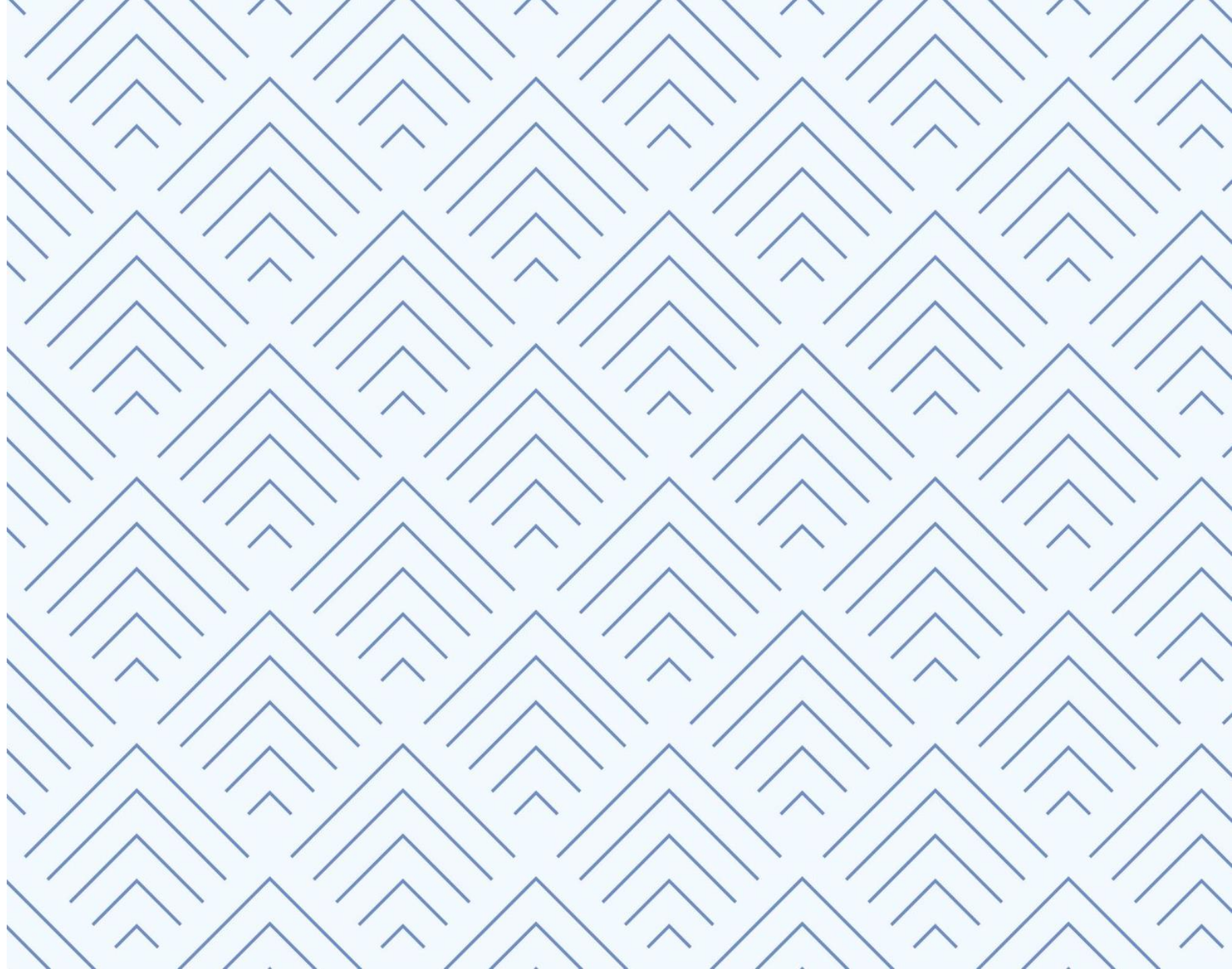
Proposed Parking Sites



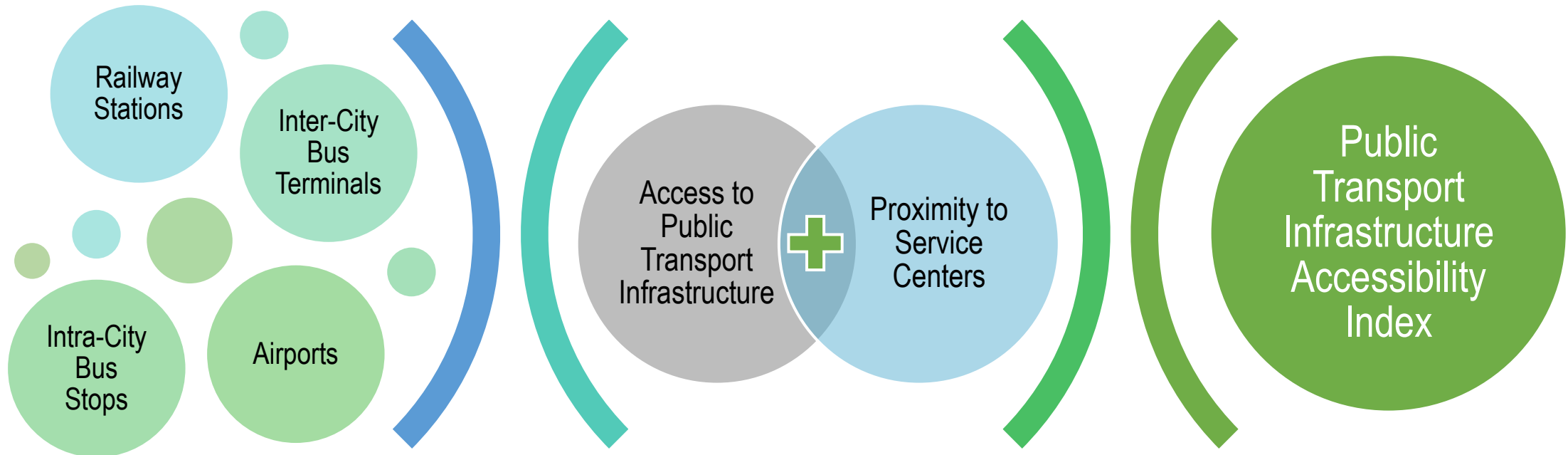
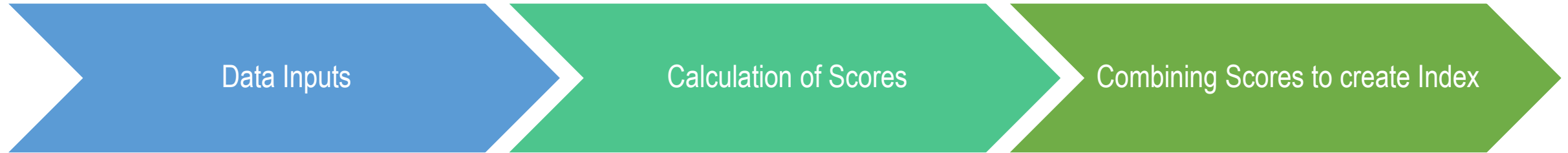
Integrated Transport Network



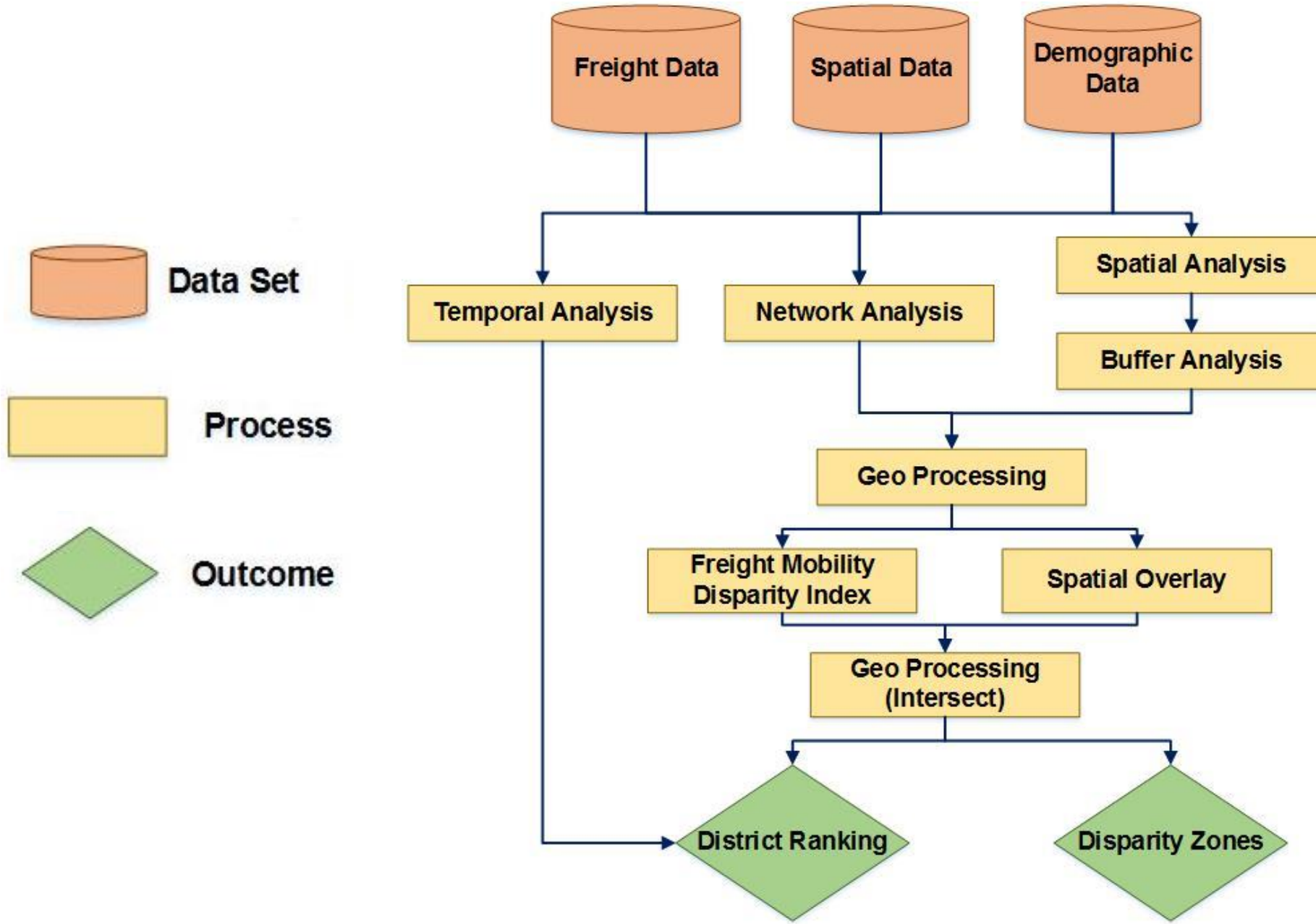
Thank You



Methodology for PTIAI

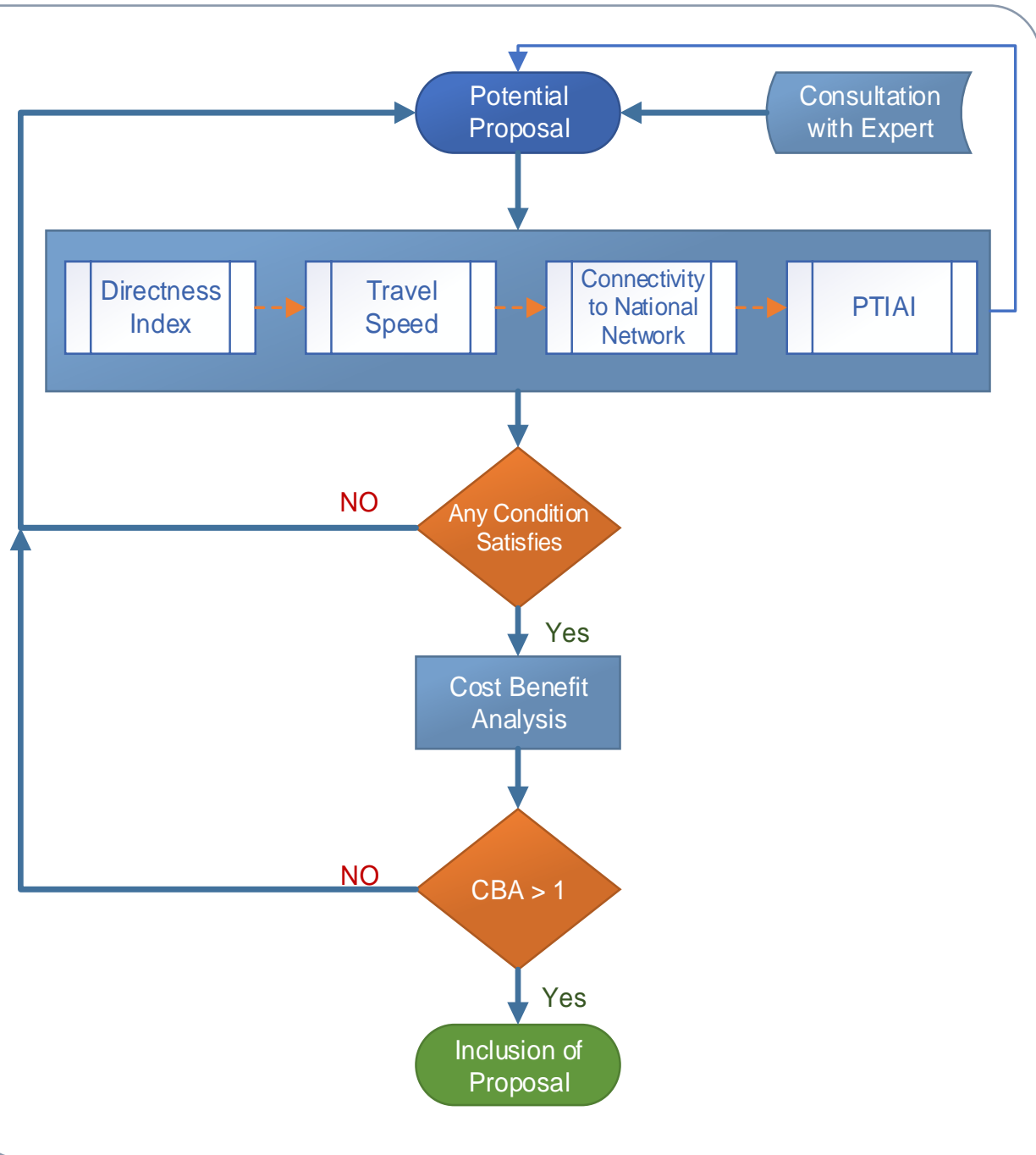


Methodology



Identification and Selection of Proposed Road Corridors

Corridor Selection



Vehicle Operating Cost



Sr No	Linkage	Distance (km)		VOC		PCU per Day	Vehicle Operating Cost		VOC Per Annum	
		Existing	New	Before	After		Before	After	PKR	(Million)
1	Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3	40.0	40.0	52.8	52.4	10,646	8,203,717,152	8,144,686,257	59,030,894	59.03
2	Dualization of Burewala Road from Chichawatni to Kamand	30.0	30.0	52.8	52.4	13,584	7,850,786,243	7,794,294,908	56,491,335	56.49
3	Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal	41.0	41.0	52.8	50.5	4,136	3,266,845,622	3,127,777,464	139,068,158	139.07
4	Widening of Chichawatni Harapa Road	53.5	53.5	52.8	50.5	4,032	4,155,645,863	3,978,741,875	176,903,987	176.90
5	Pavement upgradation of Kmir Chichawatni Road	27.3	27.3	52.8	50.5	3,892	2,046,914,506	1,959,778,270	87,136,236	87.14
6	Dualization of Okara Depalpur Road	24.0	24.0	52.8	52.4	12,031	5,562,591,831	5,522,565,491	40,026,340	40.03
7	Dualization of Okara-Syedwala-Jarranwala Road	59.0	59.0	52.8	52.4	8,737	9,930,670,506	9,859,213,099	71,457,408	71.46
8	Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera	70.0	70.0	52.8	50.5	5,284	7,125,659,637	6,822,323,491	303,336,147	303.34
9	Dualization of Haveli Lakha to Hujra shah	35.0	35.0	52.8	52.4	8,239	5,555,290,476	5,515,316,674	39,973,802	39.97
10	Dualization of road from Renala Khurd to Kot Shaukat	27.7	27.7	52.8	52.4	8,355	4,458,517,221	4,426,435,391	32,081,830	32.08
11	Dualization of Arifwala Pakpattan Road	29.0	29.0	52.8	52.4	11,017	6,154,964,785	6,110,675,950	44,288,835	44.29
12	Dualization of Depalpur Road	41.0	41.0	52.8	52.4	9,576	7,563,663,848	7,509,238,539	54,425,309	54.43

District Sahiwal Schemes



Proposed Road Schemes	Intervention	PCUs	ADT Projections				Cost (PKR Millions)	B/C Ratio	Timeline	Phase
			2024	2027	2030	2034				
1- Dualization of Sahiwal Faisalabad Road from Sahiwal to M-3	Dualization	10646	8799	9270	9741	10370	7945.45	4.4	2024-2030	Short to MediumTerm
2- Dualization of Burewala Road from Chichawatni to Kamand	Dualization	13584	9819	10318	10984	12474	5959.09	2.3	2024-2030	Short to MediumTerm
3- Widening of Sahiwal Bonga Hayat road from Bonga hayat to Yousaf wala sahiwal	Widening	4136	2880	3027	3222	13889	8144.08	1.0	2030-2034	Medium to Long Term
4- Widening of Chichawatni Harapa Road	Widening	4032	2246	2360	2512	16182	10627.04	1.3	2030-2034	Medium to Long Term
5- Pavement Upgradation of Kamir Chichawatni Road	Upgradation	3892	2184	2301	2418	2574	5422.77	1.4	2030-2034	Medium to Long Term
Total Cost (PKR Millions)							38,098.42			

District Okara Schemes



Proposed Road Schemes	Intervention	PCUs	ADT Projections				Cost (PKR Millions)	B/C Ratio	Timeline	Phase
			2024	2027	2030	2034				
6- Dualization of Okara Depalpur Road	Dualization	12031	12031	12676	13320	14179	961.71	17.8	2024-2030	Short to Medium Term
7- Dualization of Okara-Syedwala-Jarranwala Road	Dualization	8737	6593	6947	7300	7771	11,719.53	2.1	2024-2030	Short to Medium Term
8- Widening of Pakpattan Gamber Road from Pakpattan to Bangla Gogera	Widening	5284	3435	3619	3803	4048	13,904.53	1.3	2024-2030	Short to Medium Term
9- Dualization of Haveli Lakha to Hujra shah	Dualization	8239	5514	5809	6105	6498	6,952.27	4.3	2030-2034	Medium to Long Term
10- Dualization of Road from Renala Khurd to Kot Shaukat	Dualization	8355	6512	6861	7209	7674	5,502.22	2.4	2030-2034	Medium to Long Term
		Total Cost (PKR Millions)				39,040.27				

District Pakpattan Schemes



Proposed Road Schemes	Intervention	PCUs	ADT Projections				Cost (PKR Millions)	B/C Ratio	Timeline	Phase
			2024	2027	2030	2034				
11- Dualization of Arifwala Pakpattan Road	Dualization	11017	7127	7508	7890	8399	1,162.07	10.0	2024-2030	Short to Medium Term
12- Dualization of Depalpur Road	Dualization	7358	7358	7753	8147	8672	1,642.93	13.1	2024-2030	Short to Medium Term
Total Cost (PKR Millions)							2,805.00			