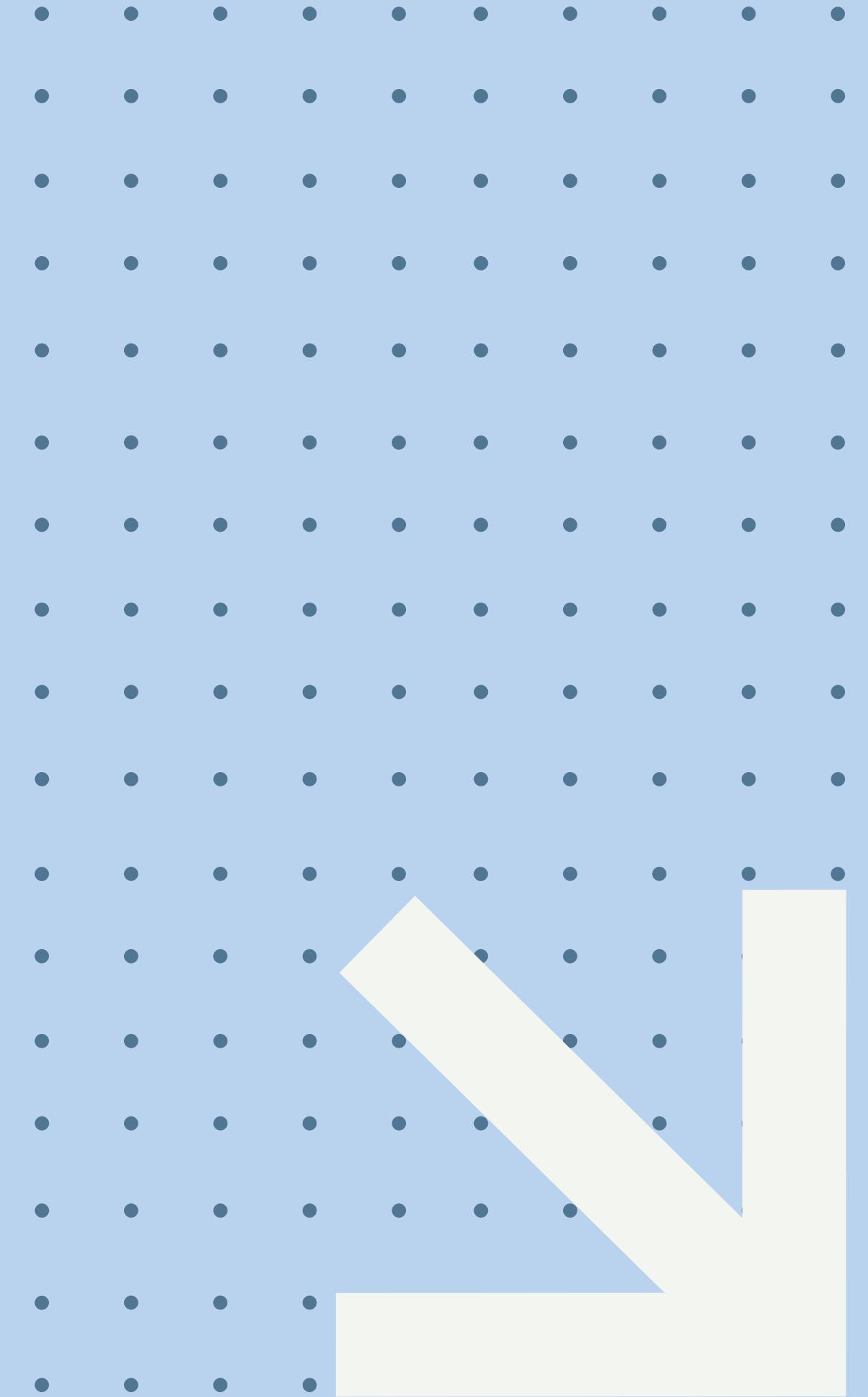


Network Analysis

MADRID METRO



Group B



NODES

EDGES

STATIONS



ATTRIBUTES

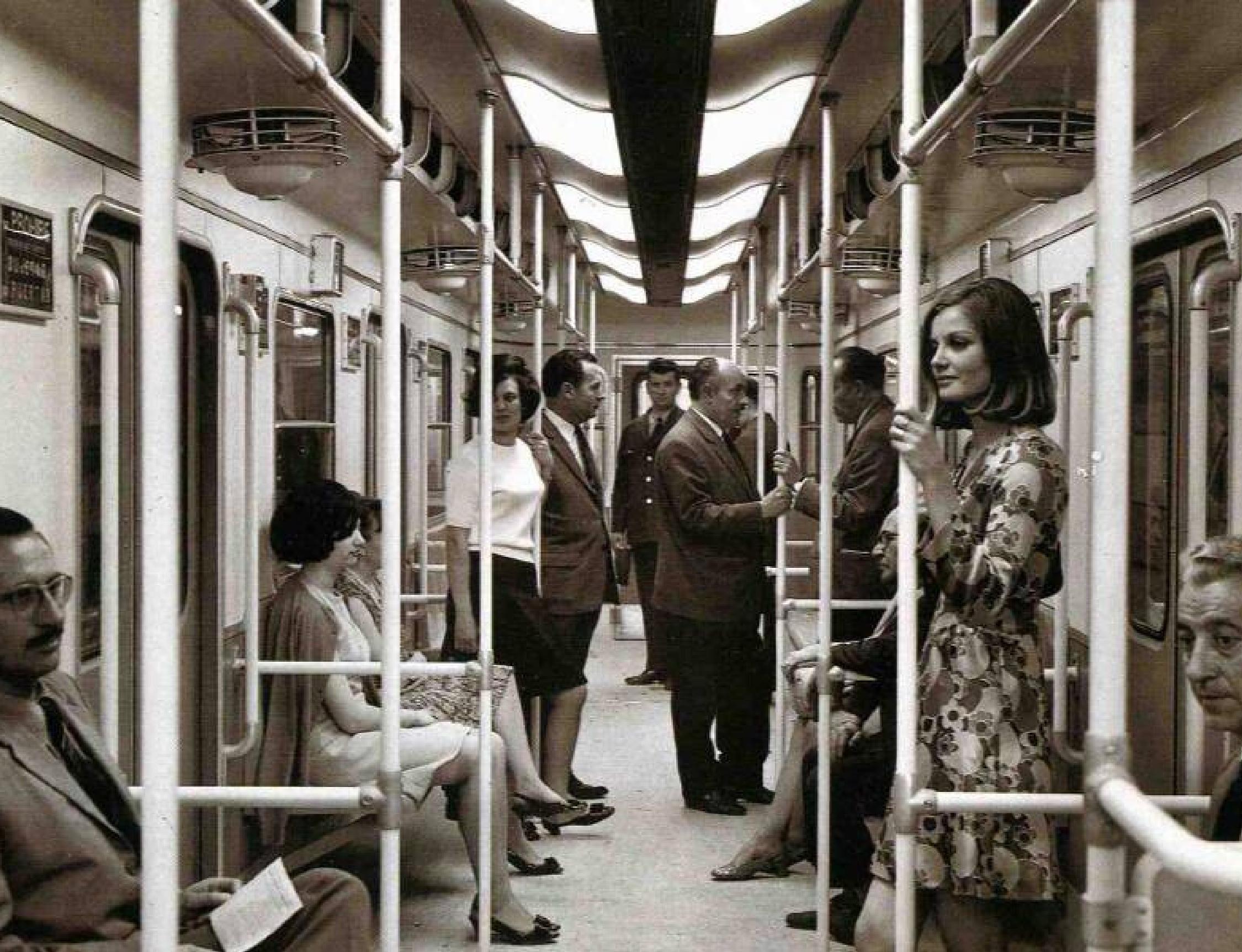
- Station name
- Number of entries and exits
- Number of lines
- Coordinates

RAILWAYS



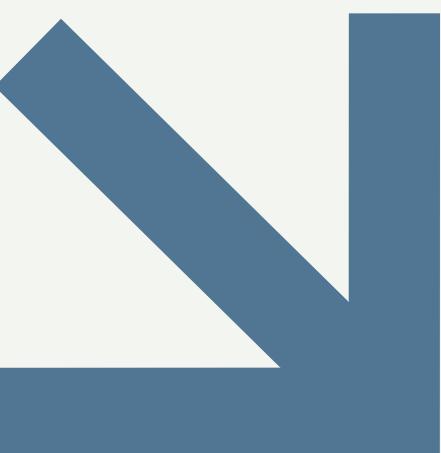
ATTRIBUTES

- Line Number
- Number of Coaches



THE IDEAL METRO NETWORK

1. CONNECTED
 2. EFFICIENT
- Coverage vs Expense

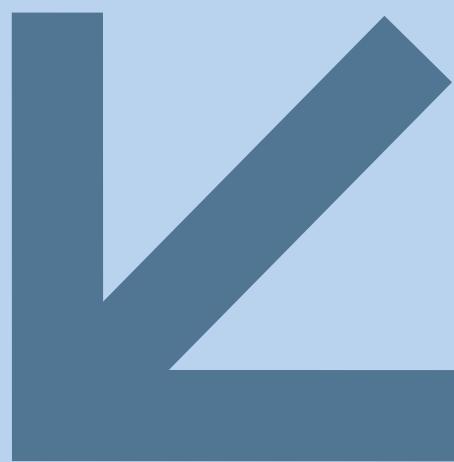


MADRID METRO

Colour: Line

Width: Capacity

Node Size: Entries + Exits

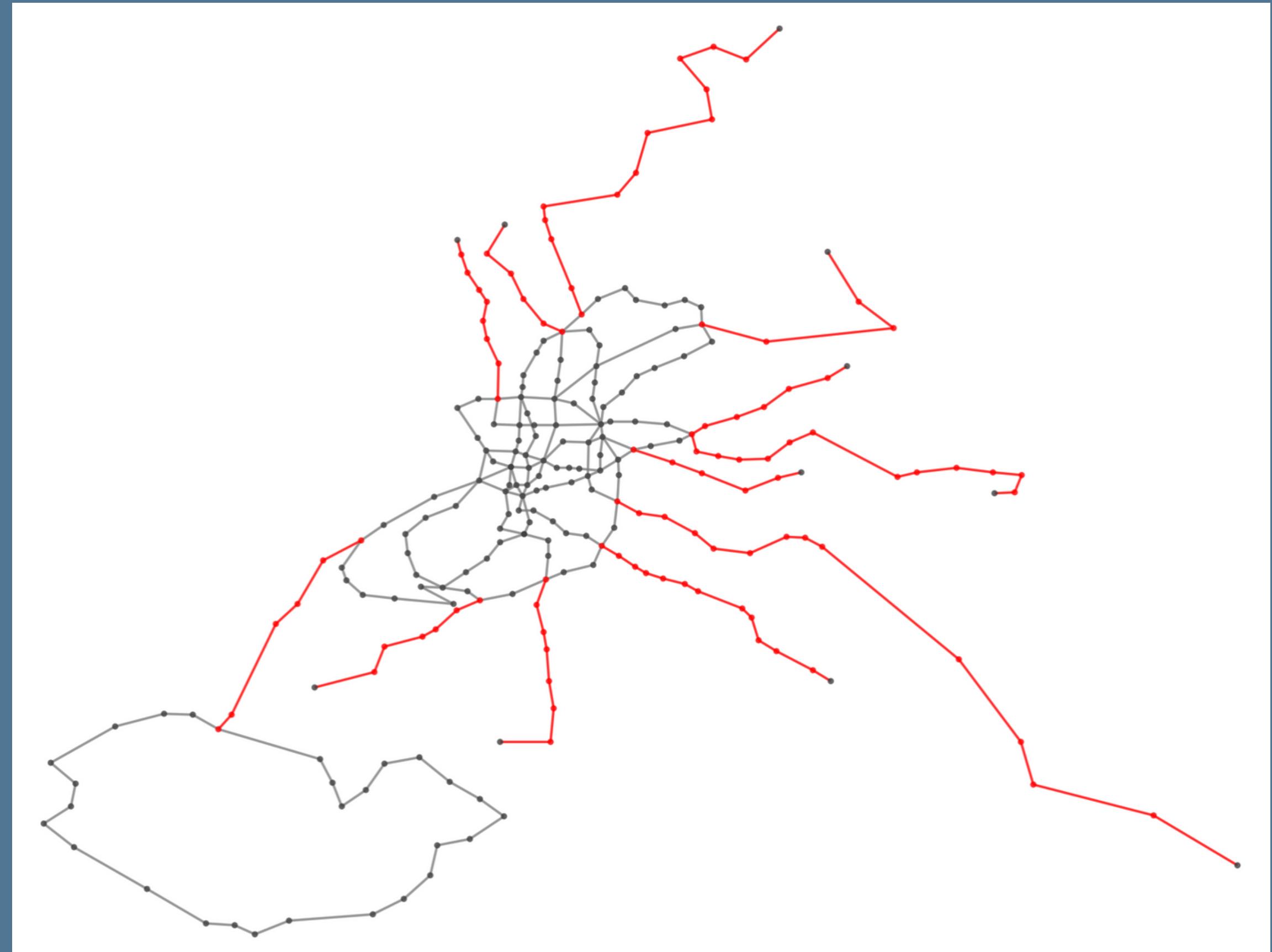
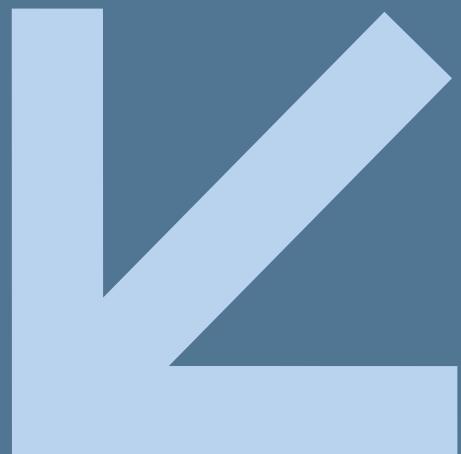


97

ARTICULATION
NODES

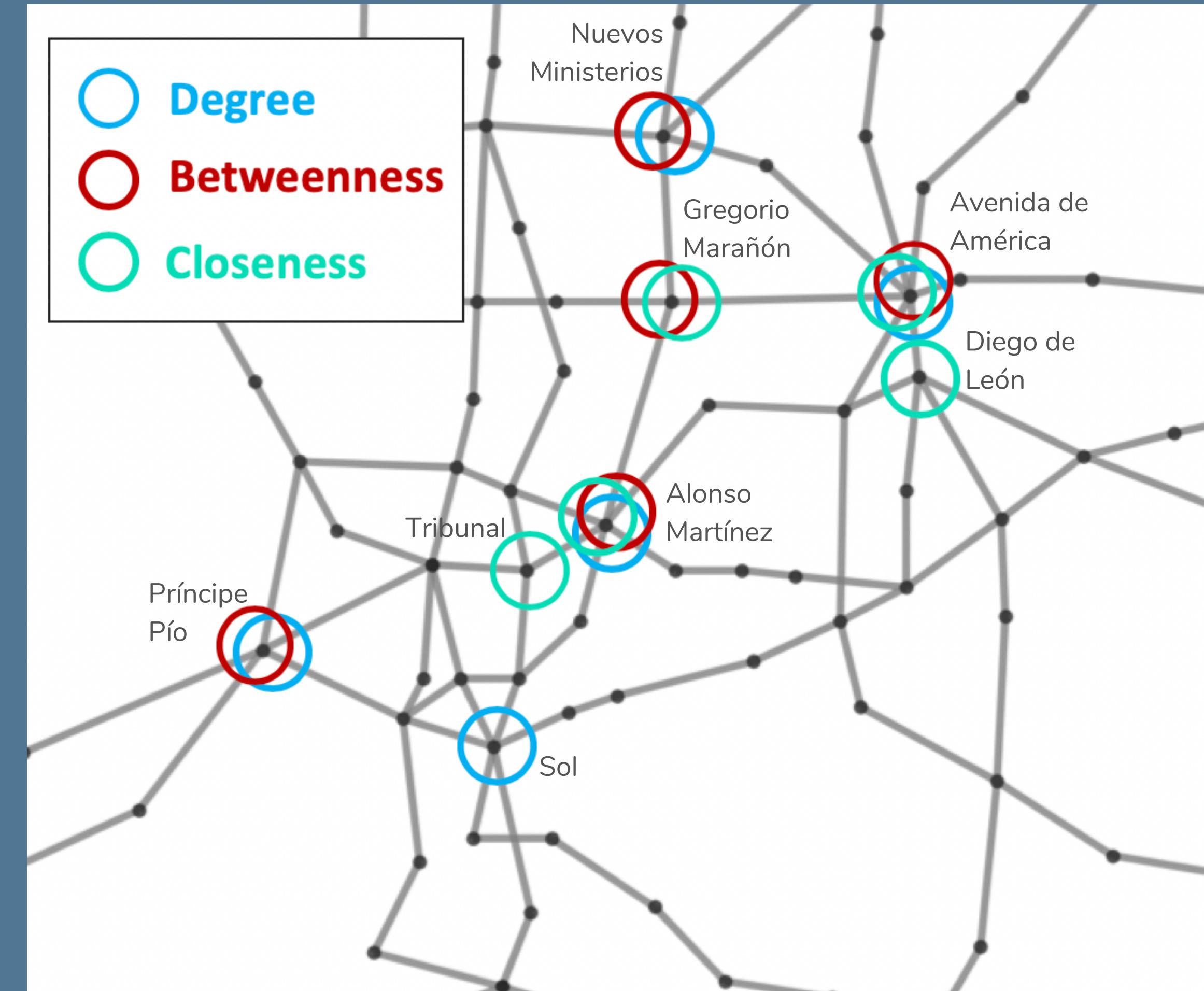
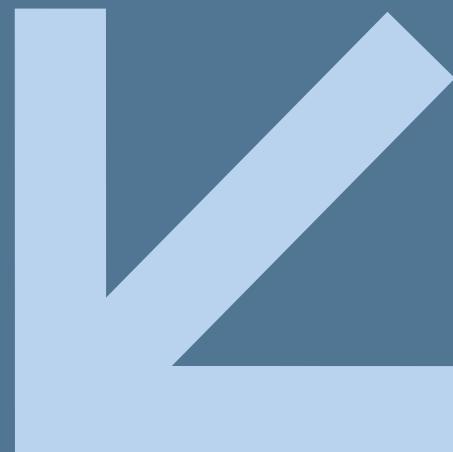
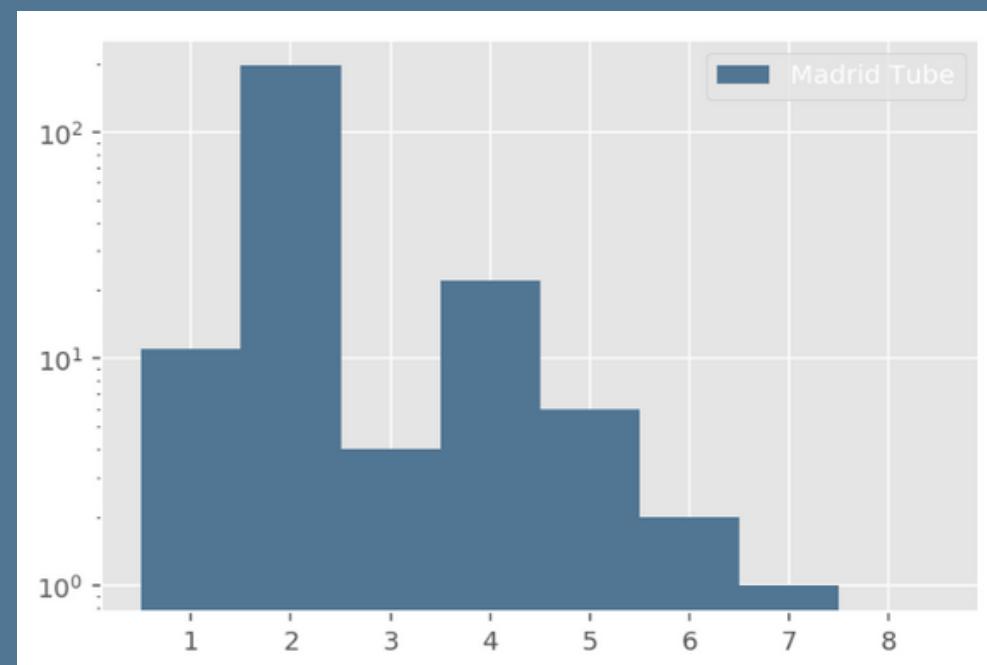
97

BRIDGE EDGES



CENTRALITY

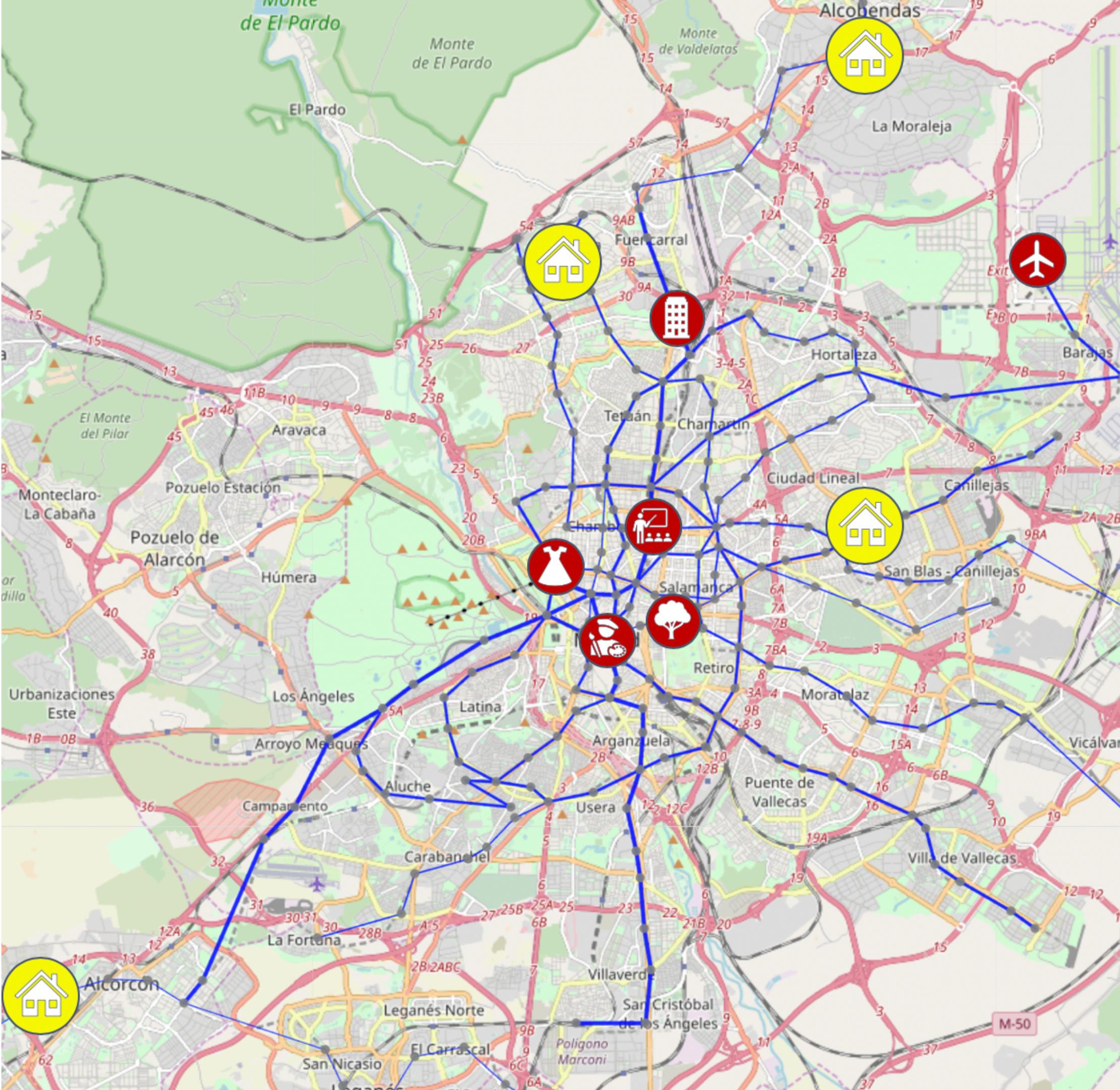
DEGREE DISTRIBUTION

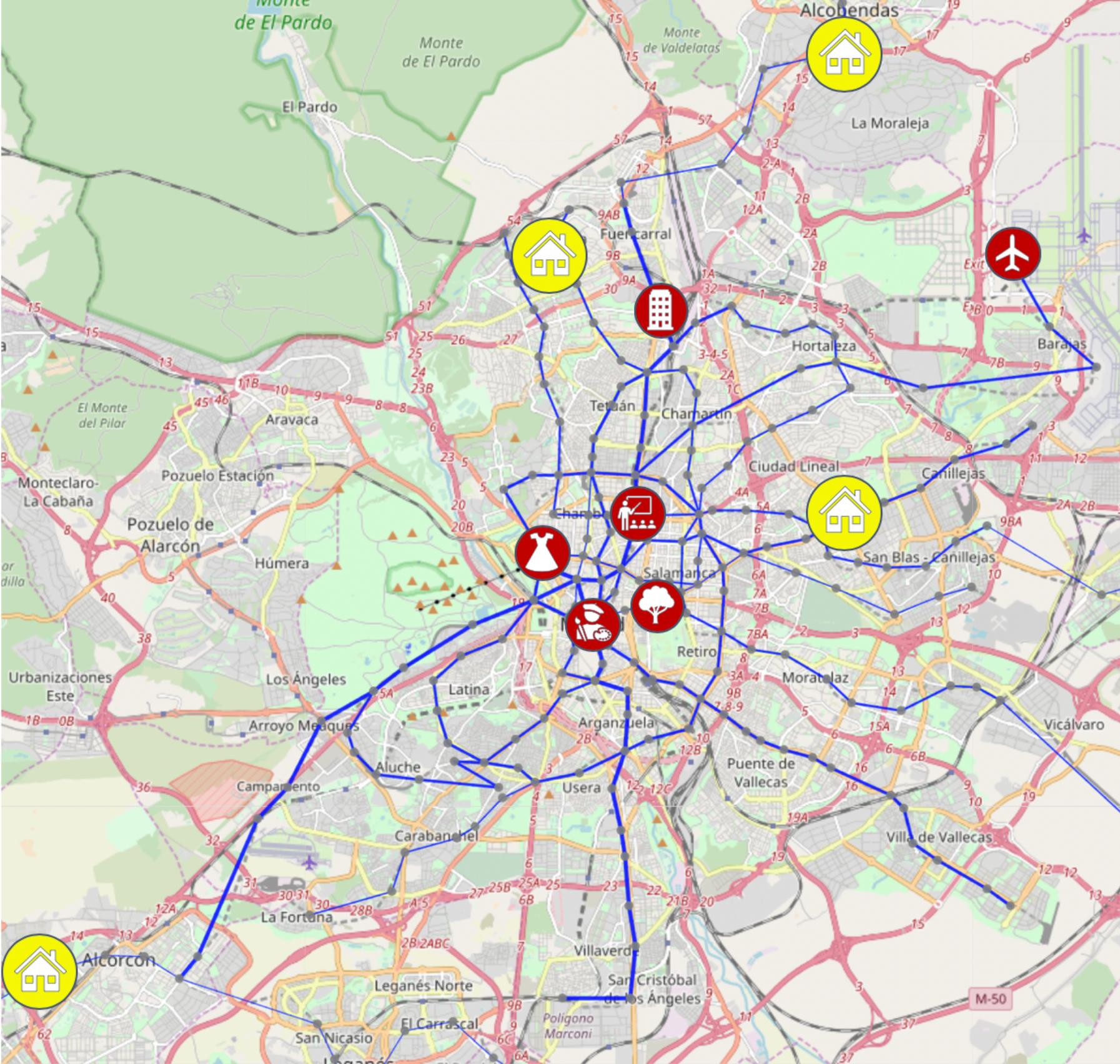


ROMERO FAMILY

Looking for a new house in:

1. Mirasierra
2. La Moraleja
3. Alcorcón Central
4. Ciudad Lineal





SHORTEST PATHS

Current

	Miras Sierra	La Moraleja	Alcorcón Central	Ciudad Lineal
Parents' Office: KPMG Tower	6	7	20	12
Childrens' School: IE	8	13	14	6
Shopping: Princesa	12	17	11	10
Park: Retiro	12	17	15	8
Touristic Centre: Sol	12	17	12	10
Airport: Terminal 4	13	18	22	14
Average	11	15	16	10

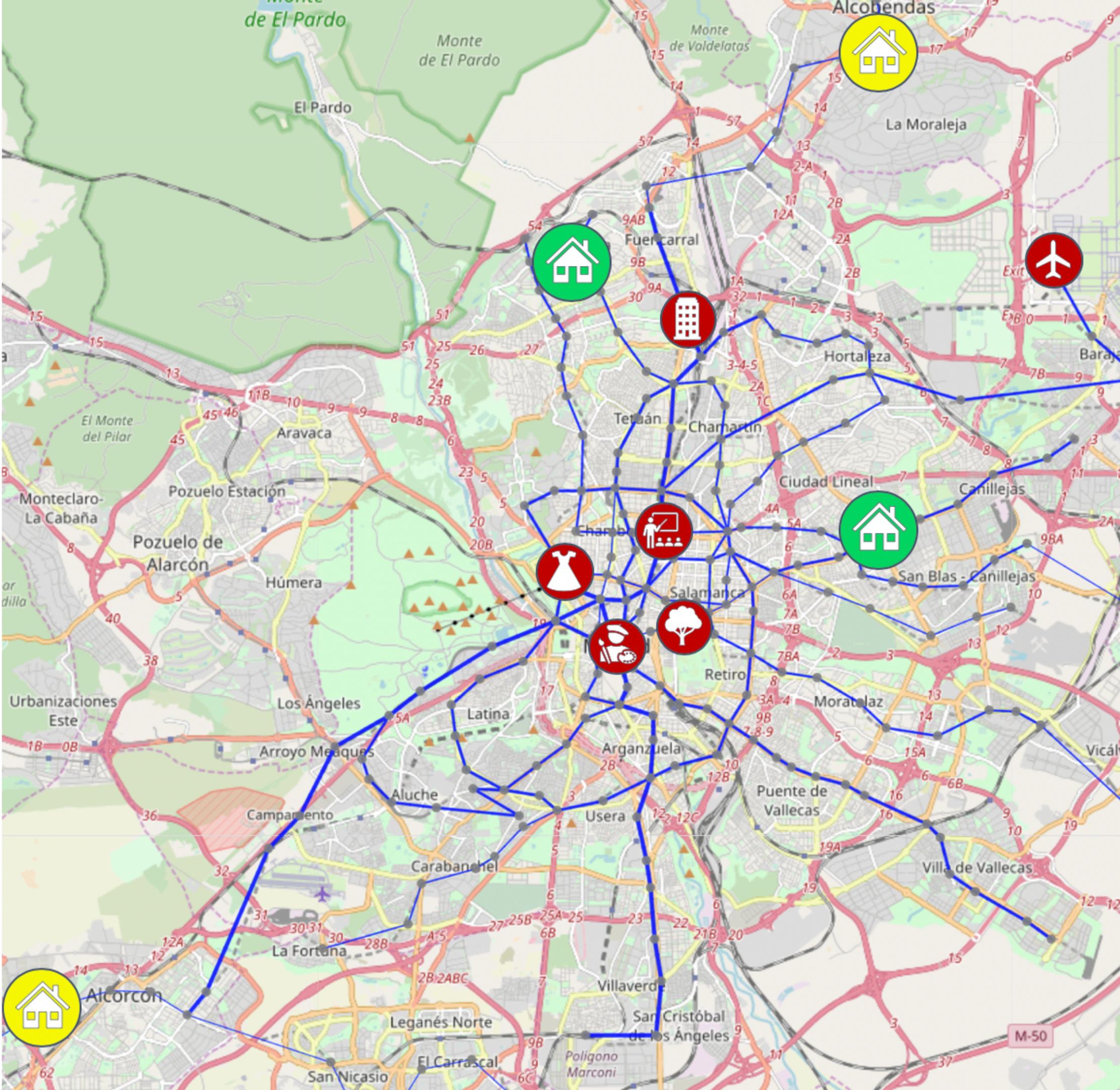
With new airport connection

	Miras Sierra	La Moraleja	Alcorcón Central	Ciudad Lineal
Parents' Office: KPMG Tower	6	7	20	12
Childrens' School: IE	8	13	14	6
Shopping: Princesa	13	18	11	11
Park: Retiro	12	17	16	8
Touristic Centre: Sol	12	17	13	10
Airport: Terminal 4	14	19	22	8
Average	11	15	16	9

SHORTEST PATHS

Weighted based on number of weekly trips

	Trips per week	Mirasierra	Arturo Soria	Alcorcón Central	Ciudad Lineal
Parents' Office: KPMG Tower	10	6	10	20	12
Childrens' School: IE	10	8	5	14	6
Shopping: Princesa	4	12	9	11	10
Park: Retiro	6	12	7	15	8
Touristic Centre: Sol	2	12	9	12	10
Airport: Terminal 4	2	13	7	22	8
Average		9	8	16	9



ROMERO FAMILY

Lived happily ever after in the house of their dreams!

THANK YOU