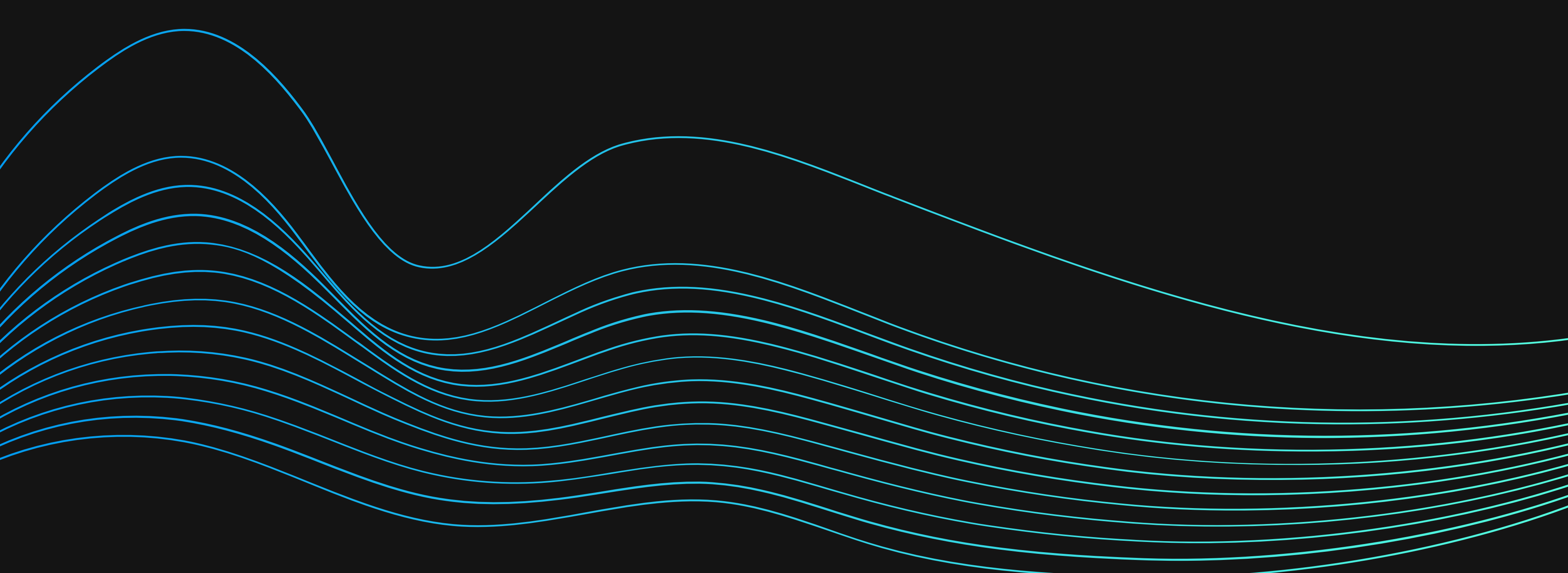


Strategic Relocation from Overcrowded to Underpopulated Cities



SELMAN TURAN TOKER

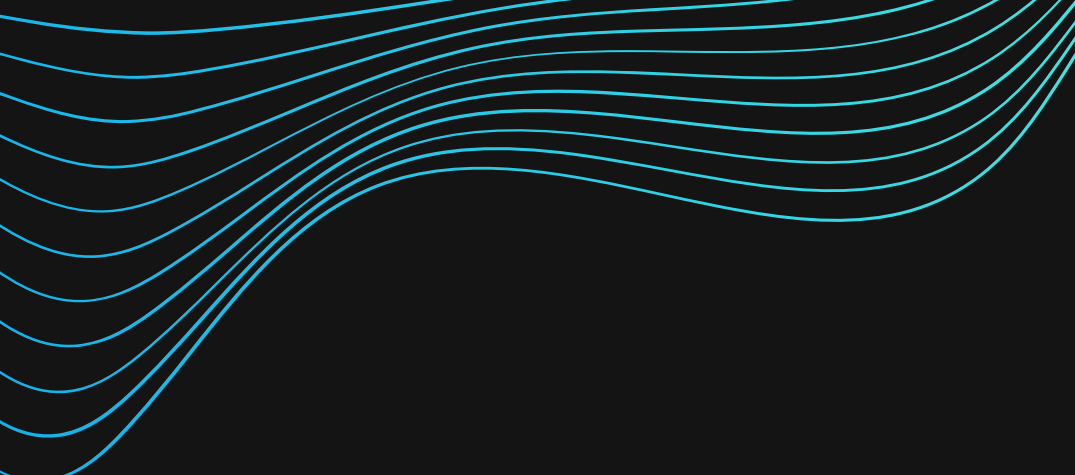
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ÖMER FARUK SATIK

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NURULLAH EREN ACAR

150220310



What presentation covers



1. PROBLEM

2. DATA

3. HYPOTHESIS

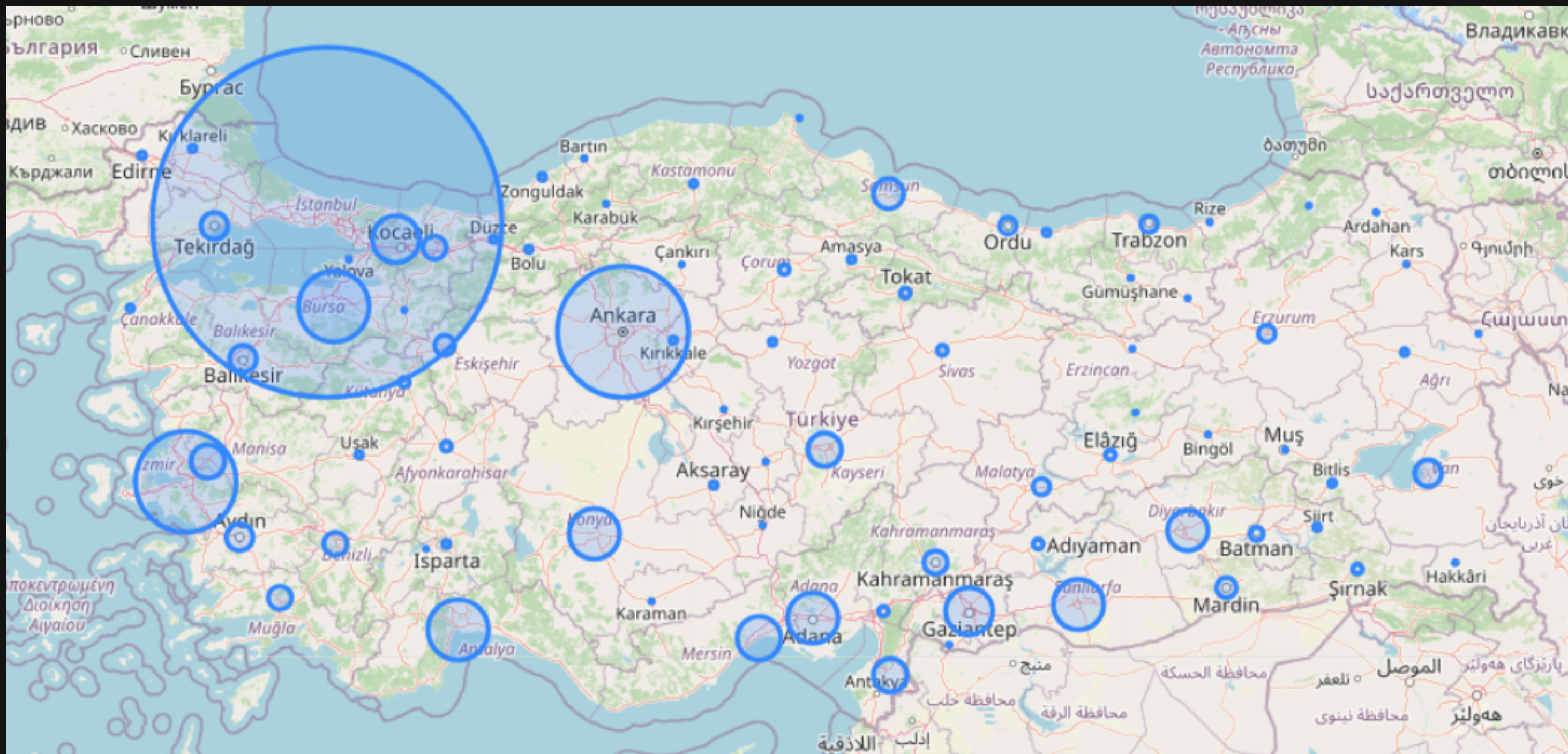
4. METHODS

5. RESULTS

PROBLEM

YARATICI PORTFOLYO

THE UNBALANCED POPULATION
DISTRIBUTION IN TURKEY NEGATIVELY
AFFECTS LIFE IN BOTH DENSELY AND
SPARSELY POPULATED CITIES





HYPOTHESIS

We can solve the problem in the most accurate way by calculating the optimum population for each city and then optimizing interprovincial migration.

DATA



CITY POPULATIONS



COMPETITIVE INDEX

Transportation, Demography,
Infrastructure, Social life,
Health, Education



POPULATION DENSITY



CITY DISTANCES

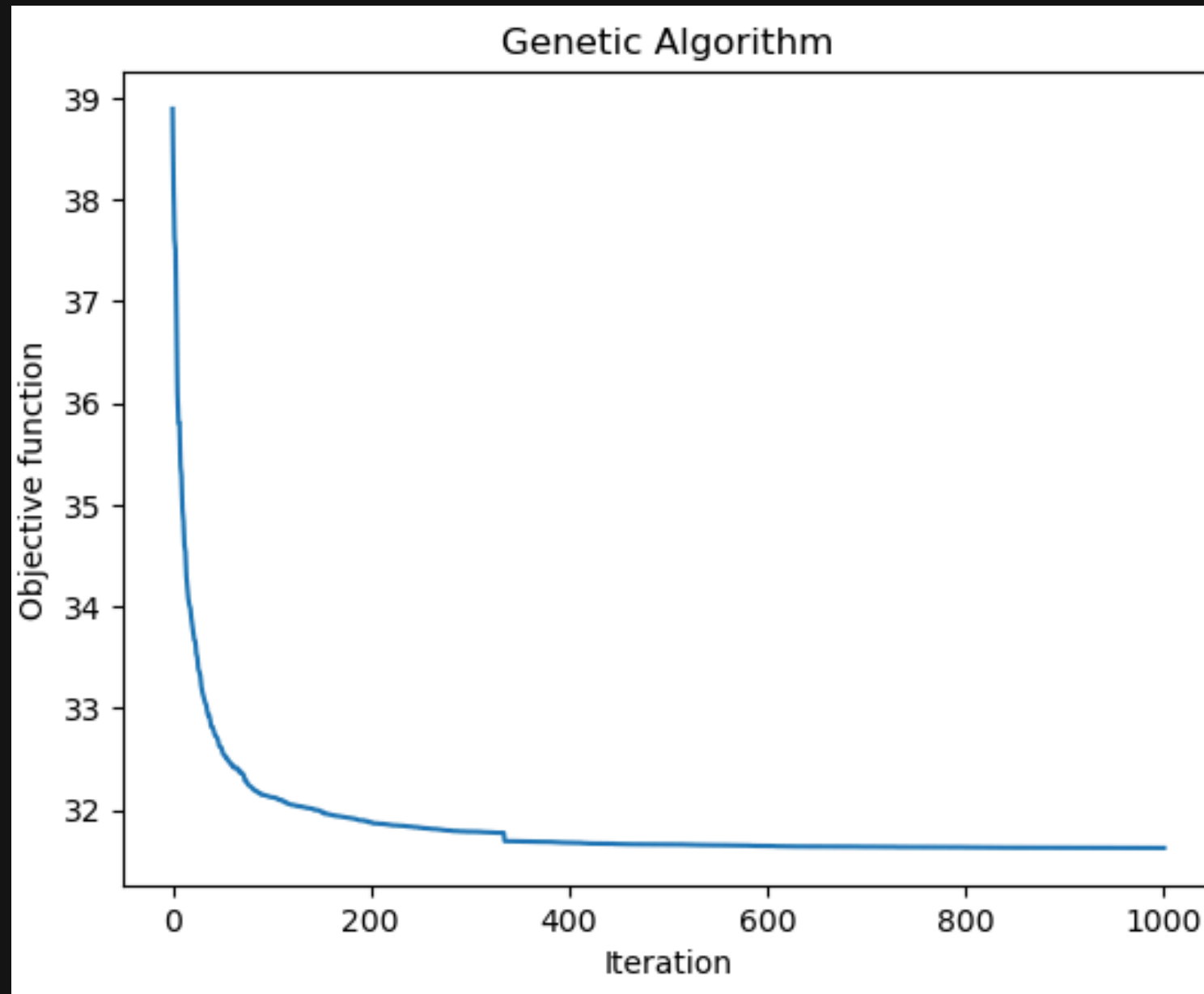
METHODS

1. Genetic Algorithm

2. Linear Programming

GENETIC ALGORITHM

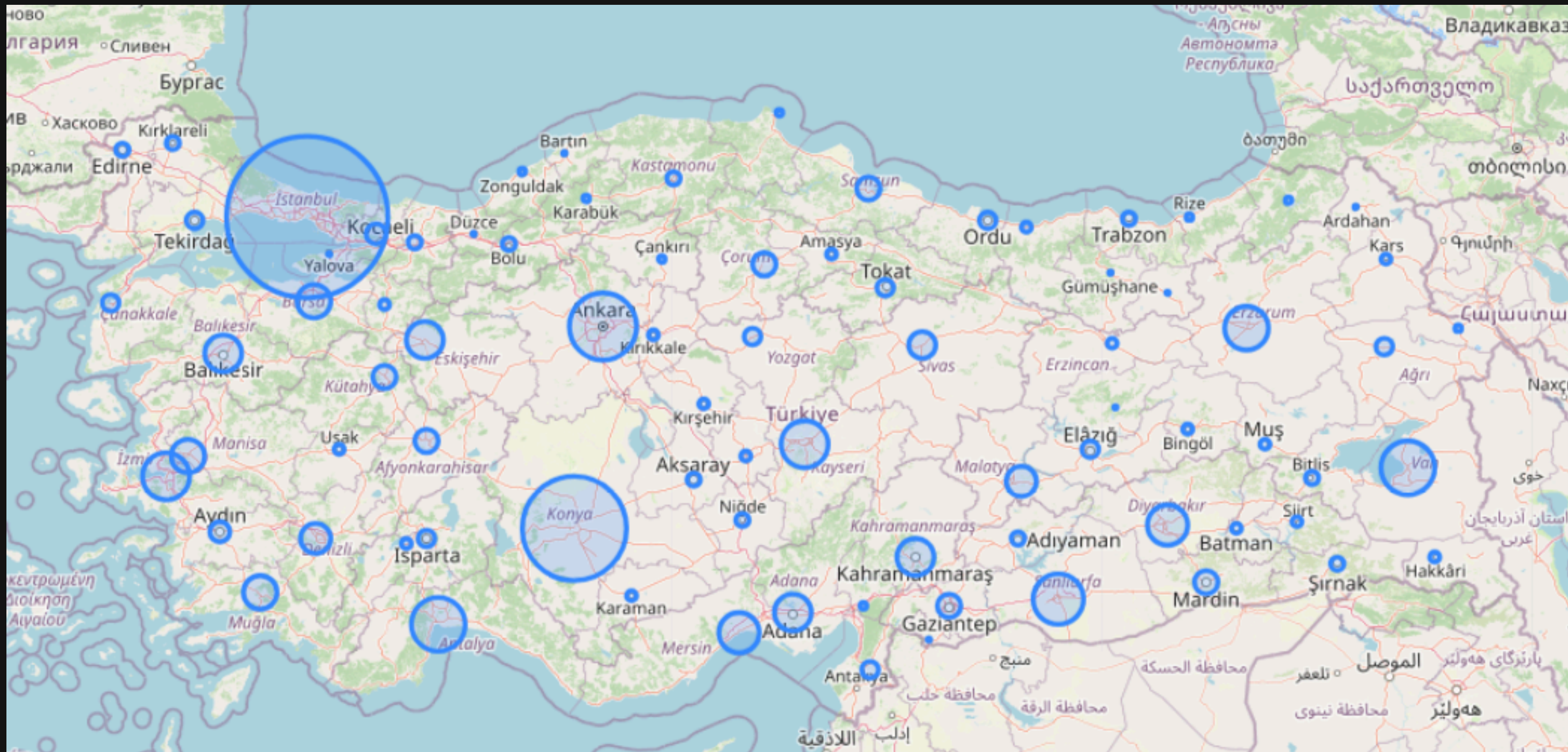
Calculates the optimum
population values for
each city using index
scores and area



LINEAR PROGRAMMING

Determines the optimum migration policy using the optimum population data created by the genetic algorithm and the distances between cities

RESULTS



RESULTS

