# Complexity map of the territory

Open Systems
A.A. 2022/2023


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ITALY!

PIEDMONT & CMT

Piedmont area

Metropolitan City of Turin

URBANIZATION

Urbanized area

MORPHOLOGY

Mountains

Hills

Plains

INFRASTRUCTURES

Main roads

Big cities

Main commercial connections

## DEMOGRAPHY

### POPULATION IN TURIN

### AGE OF THE POPULATION OF TURIN

### RATE OF CRIMINALITY

### SURFACE SOIL CONSUMPTION

### POPULATION DENSITY

### INSTRUCTION LEVEL

67% HIGHER EDUCATION

33% GRADUATED IN UNIVERSITY

### POST-WAR BUILDING SPECULATION

Turin faced **remarkable internal migration** in post-war period because of the industry growth such as Fiat, which led to the need for new housing for workers. Constructions built in this period has been carried out quickly to supply the demand, maximizing the profit by selling them in the fastest way possible, there was a **lack of importance** in the **design and conditions** of the buildings themselves.

### EMPTY HOUSES

### AVERAGE PRICE HOUSES

## URBANIZATION

### 16% FOOD

### 84% OTHER EXPENSES

**2.425 euro**

Monthly household expenses

### ENERGY CLASS OF BUILDINGS IN PIEDMONT

## MOBILITY

### CARS/100 INHABITANTS

### PUBLIC TRANSPORTATION

Km completed every year

### HABITS

**7,5 hours**

Spent on travel every week

**65% HEAVY MOBILITY**

Private cars and motorcycles

Average time spent inside car every week **4,5 h**

**26% LIGHT MOBILITY**

Walk, bike and scooter

**8% PUBLIC SERVICES**

Public transportation, car/motorcycle sharing

The present public transportation service largely coincides with the provisional network studied in 1980. The surface network consists of more than 90 ordinary lines that could also be a smaller number but with adequate frequencies and service level.

**300KM**
Goal for 2030

BIKES LANES **258 km** in 2023

METRO 1

15 km
23 stations

## AIR POLLUTION

### CO2 EMISSIONS

### PM10 EMISSION

## WASTE

### CONSTRUCTION WASTE

SUBDIVISION CER CODES

### URBAN WASTE

**485KG**

on average each year per person

only **53,3%** is recycled

### LIVING SPACE

Average area based on the average family members

### OLD BUT NOT GOLD

Over 50% of the houses in Turin have more than **45 years**

### +6,2°C

**URBAN HEAT ISLAND**

Average daytime temperature difference between urban/suburban areas compared to rural areas during summer (2019-2021)

## GREEN AREAS

### GREEN IN TURIN

+150.000 trees

300km tree-lined streets

**37%**

City surface covered by green spaces

**15% of the population**

Resides in an area where the parameter of 25sqm of green areas per person within 300m from home is not respected.

### Residential installations 79.210

Residential emission in Metropolitan City of Turin **2.465**

### CARBON MONOXIDE EMISSIONS IN PIEDMONT

tons/year

### GREEN AREAS DISTRIBUTION

GREEN AREA ACCESSIBILITY

### URBAN GARDENS ARE INCREASING

52.000 sqm in 2012
105.000 sqm in 2019

## ECONOMY AND BUILDING SECTOR

### CONSUMPTION OF ELECTRICITY

### WORKERS IN PIEDMONT

### DOMESTIC CONSUMPTION OF NATURAL GAS

### ENTERPRISES IN MCT

**49%**

Of the enterprises are located around the City of Turin

Metropolitan City of Turin

## WORK IN PROGRESS

### METRO

**4,7 mld €**

METRO 2

27 km
32 stations

### NEW BUS FLEET

Average time spent inside car every week

**170 mln €**

35% TRADITIONAL BUS

65% ELECTRIC BUS

### CAR SHARING

**6,1 mln €**

Interventions in 7 areas in 4 different Districts for the creation of bike lanes/ cycling priority roads and for the safety of existing bike lanes.

**3 mln €**

Redevelopment of the public space of the area of Basso San Donato and San Secondo, where widespread interventions will be carried out to encourage the ability of the territory to react to climate vulnerabilities and become a safe, shared and easily accessible space to public services.

**6,5 mln €**

9 interventions in 8 districts for the creation or redevelopment of playgrounds within parks and municipal gardens.