22nd International Geography Olympiad

13 August 2026 – Fieldwork Exercise 2

İstanbul, The Golden Horn and the Bosphorus

General Instructions

Students educated in English will have 1 hour 30 minutes to write this test. Students not educated in English will be provided with a 20 extra minutes, 1 hour and 50 minutes. Remember to use your information booklet and observations from this morning.

Marks

The examiners will complete this table, Please leave it blank.

Question	Mark
FWE Task 1	/5
FWE Task 2	/4
FWE Task 3	/6
FWE Task 4	/6
FWE Task 5	/14
FWE Task 6	/15
Total for FWE 2	**/50**

Name: ..... Team: .....

Student Number

2	**2**				

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Task 1 – Topographic Map Skills

Study Map 1.1.

a) **Identify and label <u>two</u>** examples for each of the following features on **Map 1.1**. Write the appropriate letter (A, B, C, or D) on each location. **(4 marks)**

A = Peak (Summit)

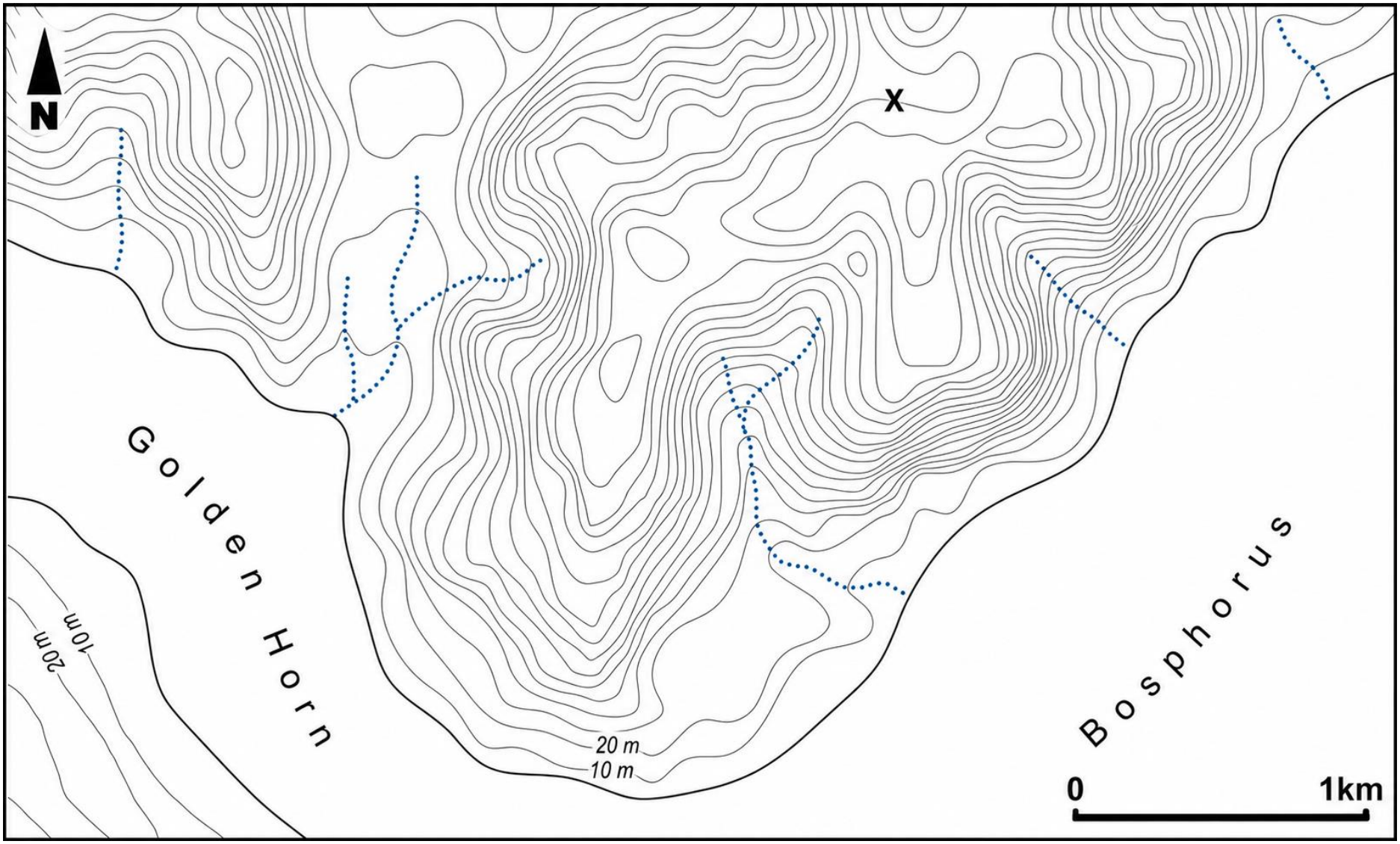
B = Ridge

C = River Valley

D = Col (Saddle)

b) **Point X** marks the historical plateau area on the map. Using the contour lines **calculate** the elevation of Point X above sea level. **(1 mark)**

Point X is _____ meters above sea level.



Map 1.1. Topographical map showing task area and its surroundings

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Task 2 – Historical Land Use Change

Compare the historical map and photograph of the task area (**Figures 2.1a and 2.1b**) with the present-day map and photograph (**Figures 2.2a and 2.2b**) provided below.

a) **Outline two specific examples** to illustrate how urban land use has changed over time within the task area. **(2 marks)**

Example 1:

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Example 2:

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b) Identify two present-day challenges that may have emerged as a direct result of these historical land-use changes. **(2 marks)**

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Challenge 2:

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Figure 2.1a. Topographical map from 1918 showing the task area and its surroundings



Figure 2.1b. A late 19th century photo showing the central section of the task area

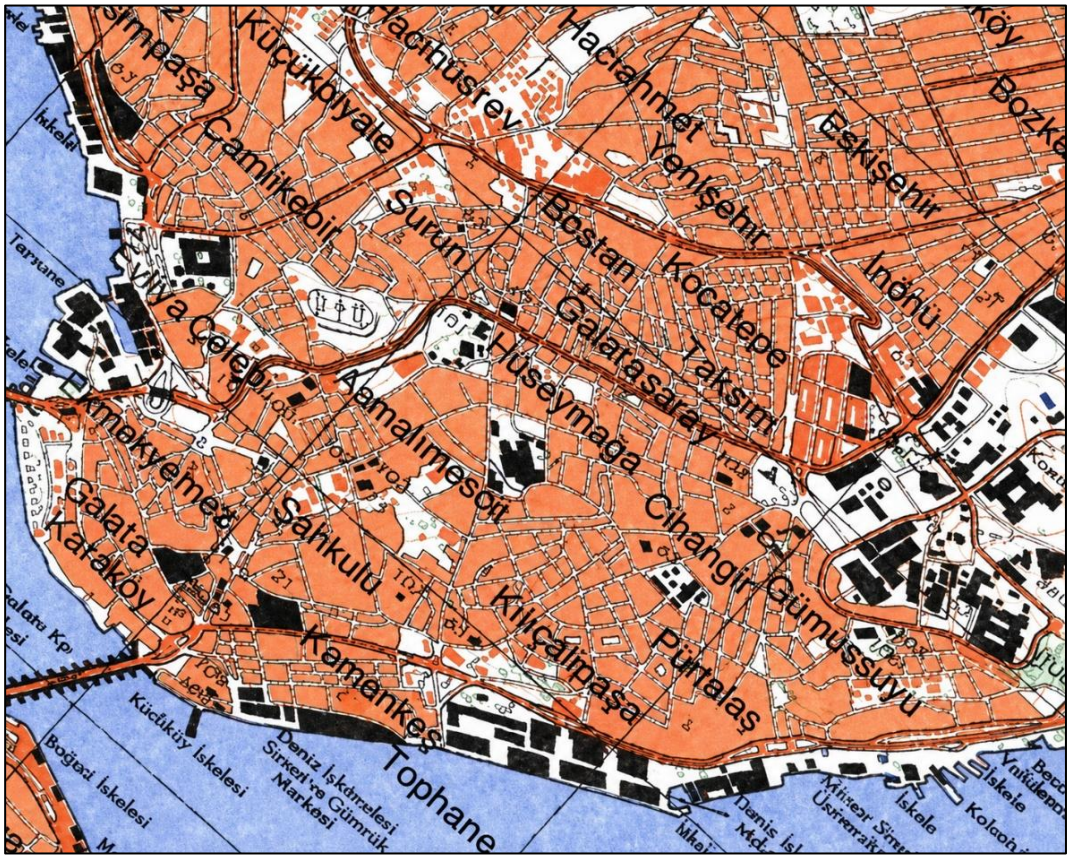


Figure 2.2a. Most recent topographical map showing the task area and its surroundings



Figure 2.2b. Present-day photo showing the central section of the task area

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Task 3 – Economic Geography

Examine the sample field images shown on the following pages. The images in **Figure 3.1** represent the Golden Horn side and those in **Figure 3.2** represent the Bosphorus side.

a) **Explain** the economic and geographic factors that have led to the emergence of clustered, highly specialized industrial areas on the Golden Horn **(Figure 3.1)**. **(2 marks)**

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b) **Explain** the economic and geographic factors that have led to the development of the modern waterfront observed on the Bosphorus side **(Figure 3.2)**. **(2 marks)**

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c) **Compare** and contrast the distinct commercial developments found in **Figure 3.1** and **Figure 3.2**. **(2 marks)**

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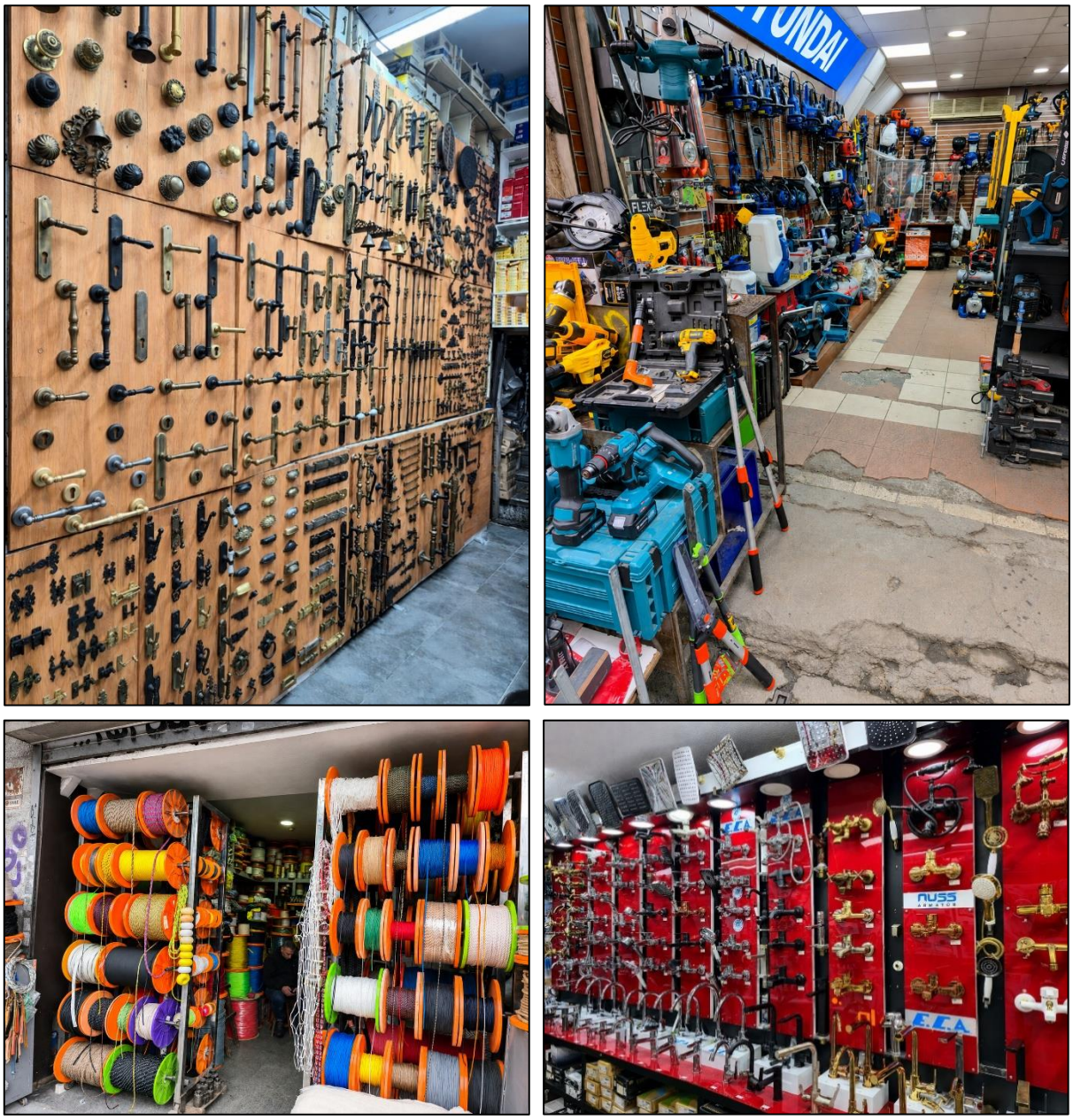


Figure 3.1. Some commercial businesses on The Golden Horn side of the task area

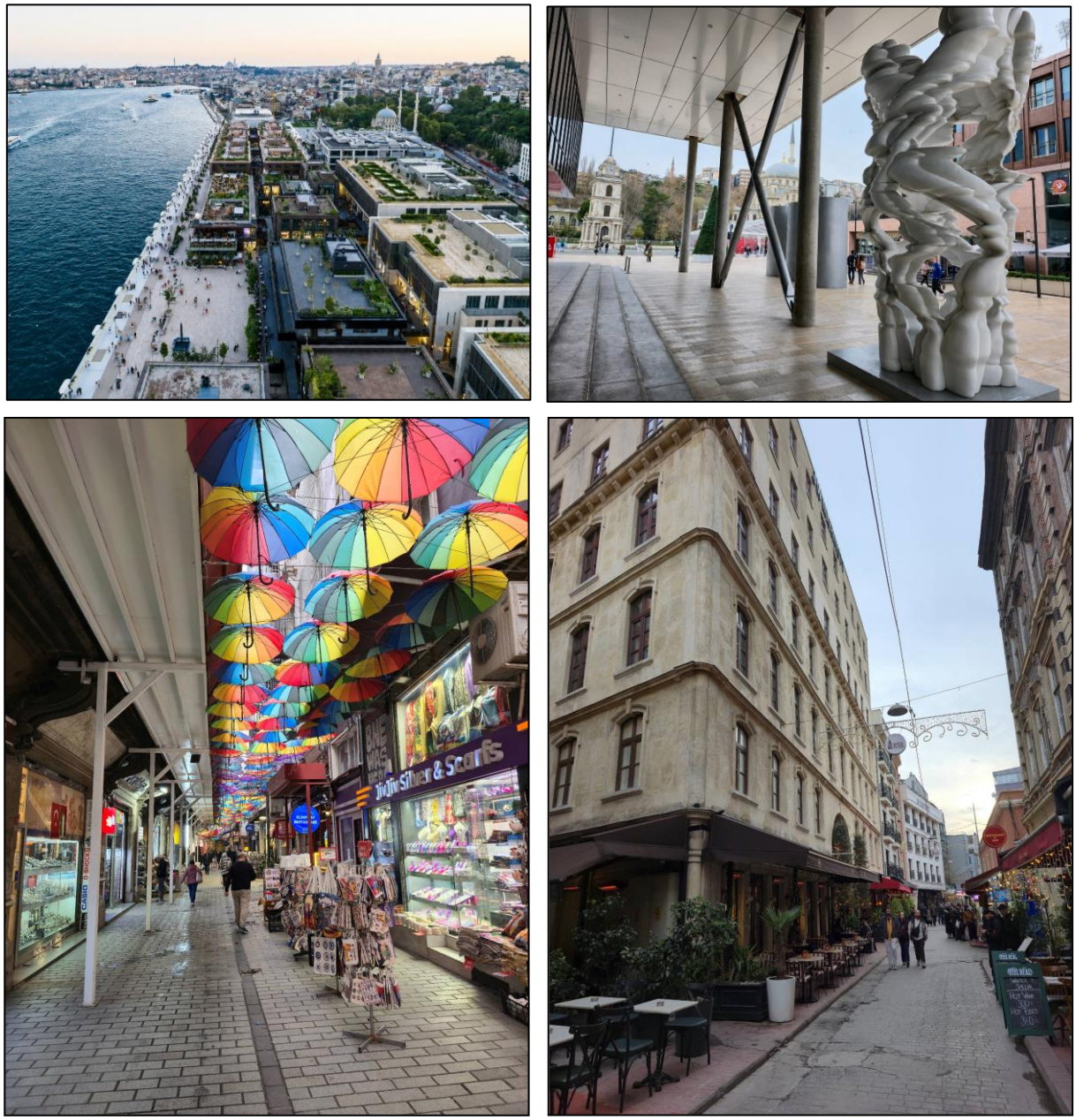


Figure 3.2. Photos from The Bosphorus side of the task area

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Task 4 – Gentrification

Gentrification has occurred differently along the Golden Horn shore and the Bosphorus shores. Using the chart provided:

- **Compare** how the gentrification of these two shorelines has developed differently.
- **Identify** specific evidence to support your position.
- **Explain** how these differences might create social inequalities and displacement

(6 marks)

	Golden Horn Shore	**Bosphorus Shore**
Differences in gentrification between the shorelines		
Evidence to support your position		
Implications for social inequalities and displacement		

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Task 5 – Earthquake Preparedness

A major earthquake may cause building damage, disruption of transportation networks, and difficulties in emergency response. Using your knowledge of earthquakes, your field observations, and relevant information from the Resource Booklet, complete the following tasks.

a) Given the history of earthquakes in Türkiye, government officials are quite aware of the threat. Statistically, earthquakes with a magnitude of 7 ≥ occur in Türkiye approximately every 6 years. For quakes ≥ 6, the interval is around 19 months. The major challenge for government officials is **how** to prepare for a major earthquake, **before** one occurs.

What **mitigation actions or strategies** should the national and city governments implement **prior to** the next major earthquake to limit the loss of life and destruction of property?

Recommend three mitigation measures to be implemented. **Justify** your recommendations. **(6 marks)**

Mitigation Measure 1:

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Justification:

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Mitigation Measure 2:

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Justification:

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Mitigation Measure 3:

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Justification:

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b) A major earthquake, registering 7.8 on the Modified Richter Scale, has just rocked the city of Istanbul, followed by several aftershocks ranging between 2.1 and 5.2.

Based on your knowledge of earthquakes and of the city of Istanbul, you have been tasked with **creating an Emergency Evacuation Plan for the Golden Horn area and the Bosphorus shore** in the immediate aftermath of the earthquake.

Annotate Map 5.1, showing:

- Safe escape routes
- Designated gathering areas
- Waterfront risks

Provide a short written **justification** for your choice in the space below. **(8 marks)**

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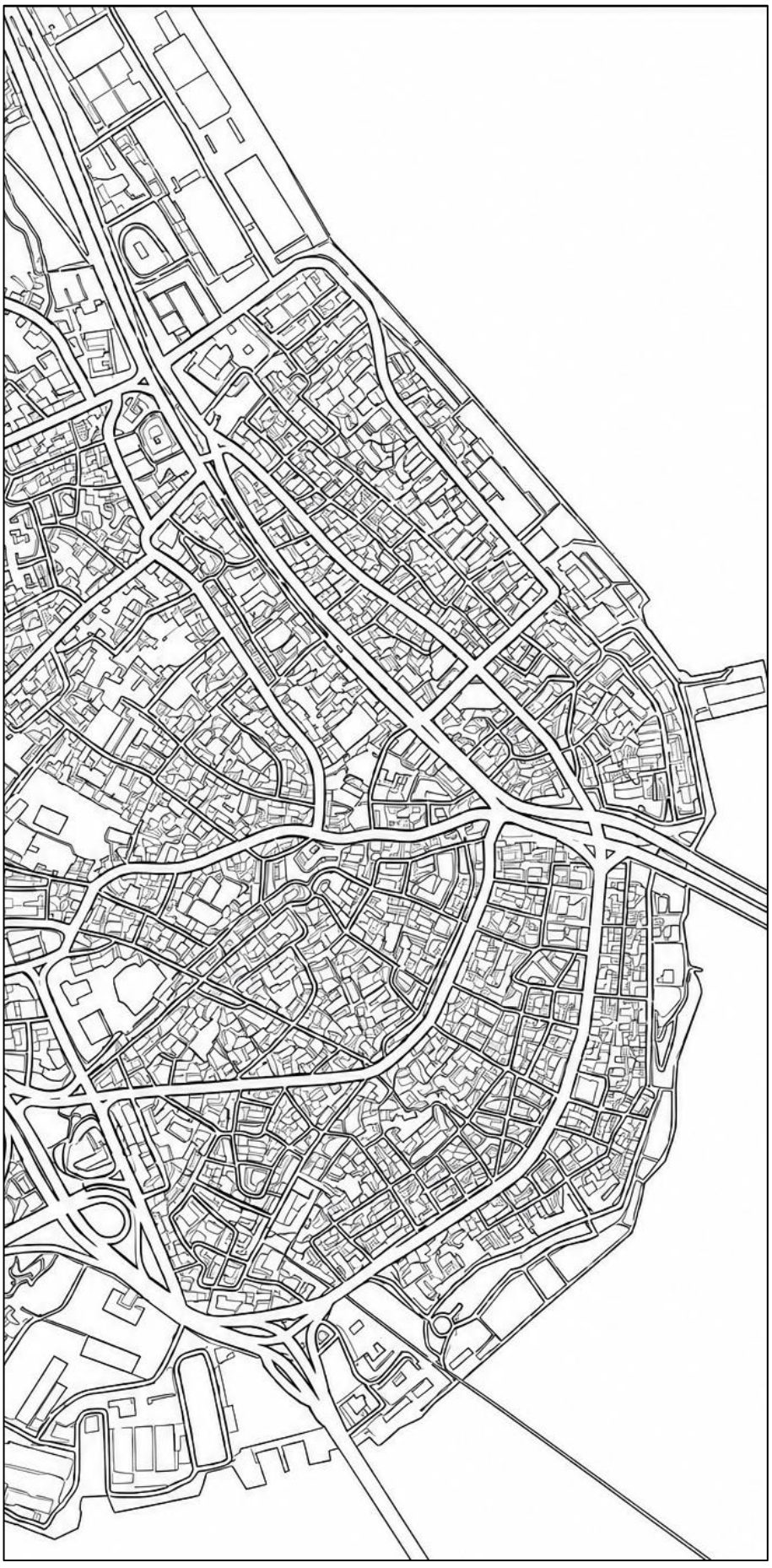
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Map 5.1. The Golden Horn and the Bosphorus

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Task 6 – Urban Redevelopment

On the shores of the Bosphorus, you observed many examples of urban redevelopment driven by the rapid growth of tourism to Türkiye.

The area marked on **Map 6.1** represents a brownfield designated for redevelopment.

a) **Create a plan** that would convert this area into a multi-use recreational space that would serve the needs of both tourists and local residents. Use the template provided **(Map 6.2)** to create a detailed map of your proposed redevelopment. Be sure to include all relevant information on the map and observe all mapping conventions. **(10 marks)**

b) **Write a short report** that explains the features of your space and justifies the decisions that you made. **(5 marks)**

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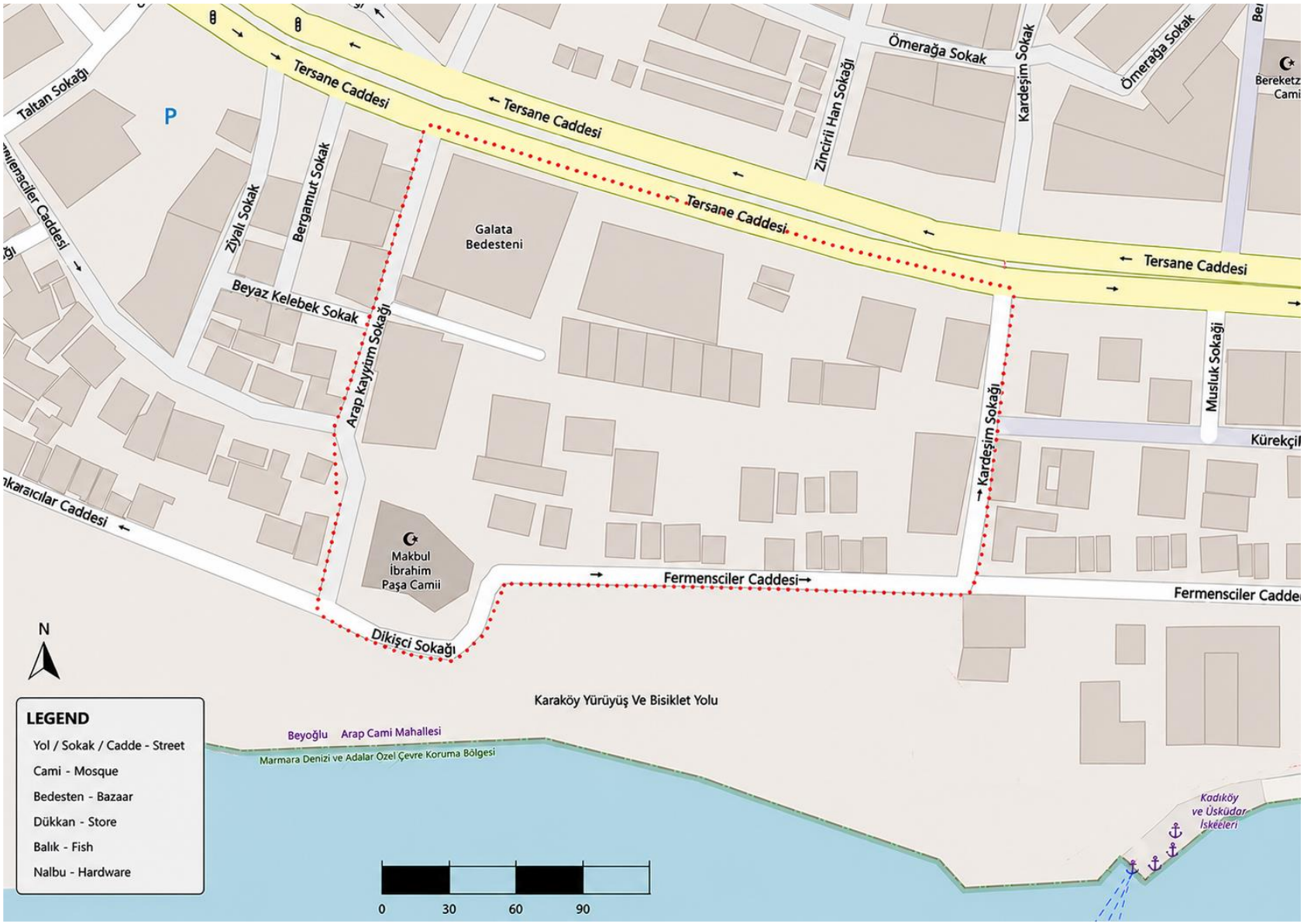
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Map 6.1. Overview of Task 6 Area