



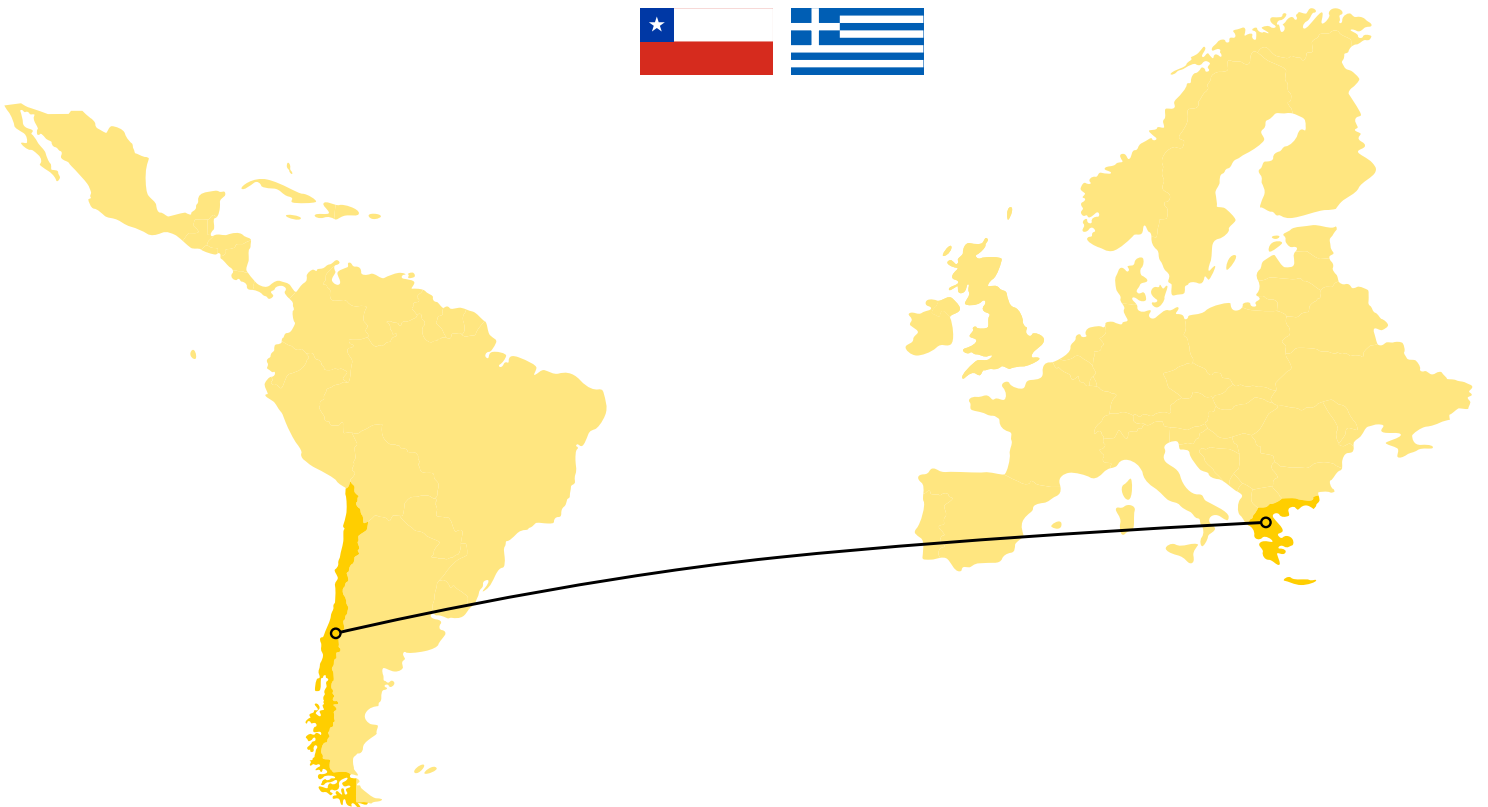
INSPIRATIONAL  
CASE

---

# PAIRING REPORT:

## TEMUCO - KAVALA

---



INTERNATIONAL URBAN COOPERATION  
European Union-Latin America and the Caribbean



A European Union  
Programme

# TEMUCO - KAVALA

## THE PAIRING AT A GLANCE

### Temuco (CL):

Temuco is a city and commune, capital of the Cautín Province and of the Araucanía Region in southern Chile. The city is located 670 kilometres south of Santiago de Chile.

Temuco's central place in Araucanía, with easy access to the Andean valleys, lakes and coastal areas makes it a hub for tourism, agricultural, livestock and forestry operations as well as a communication and trade centre for the numerous small towns of Araucanía.

Temuco signed the agreement of the Mayors for Climate and Energy Agreement in 2016 and has a local climate change plan.

### Kavala (GR):

Kavala is a city in northern Greece, the main seaport of eastern Macedonia and the capital of Kavala regional unit. It is situated on the Bay of Kavala, across from the island of Thasos and on the Egnatia motorway, a one-and-a-half-hour drive to Thessaloniki.

Kavala is an important economic centre of Northern Greece, a centre of commerce, tourism, fishing and oil-related activities, and formerly a thriving trade in tobacco.

The city has signed the Covenant of Mayors for Climate & Energy agreement on 2010, and has drafted and implemented an Action Plan on Sustainable Energy.

### Keywords

#Clean Energy / District Heating  
#Energy Efficiency  
#Forest fires fight / Resilient Cities

### Thematic areas of cooperation

Clean and renewable energy  
Energy-efficient buildings  
Promotion of green economy innovations  
Public spaces/ green areas and natural reserves

### Objetivos

**1** Improving energy efficiency in public buildings and infrastructures.

Reducing the generation of solid household waste. **2**

**3** Improving management of forest fires.

## Actividades

Two study visits were programmed in this cooperation but were cancelled due to Covid-19. Virtual meetings were held instead to discuss the main actions that both cities envisaged in their action plan. One of the actions of common interest for both cities was related to the **improvement of energy efficiency in public buildings and infrastructures**.

Kavala is striving to follow its Sustainable Energy Action Plan in order to reduce energy consumption and carbon footprint. For this reason, the city has set as one of its strategic goals to improve energy performance of buildings. There have been advances in zero-energy buildings, e.g. building a zero-emission primary school based on a detailed energy upgrade study. This pilot application was identified as a valuable practice to be transferred into a Temuco's municipal building, in the framework of its Energy Master Plan 2020-2050.

Temuco, on its part, has elaborated a Master Plan for the Development of the District Energy, in the scope of the UNEP project "Increasing investments in District

Energy Systems in Cities" which has been shared with the peer-city.

In relation with **sustainable waste management** the cities have been working in the identification of the areas to intervene in each city; design training for residents interested in participating and reducing their waste; and the delivery of composting or vermicomposting kits.

Finally, **fight against forest fires** was identified as an additional topic for learning during the virtual exchanges. A knowledge exchange on strategies to address the increased of forest fires was organised in July 2020. This is a topic of high interest for Kavala, due to the elaborated structures in Chile on the matter.

Several virtual exchanges to share best practices in all these fields have been organised, engaging staff members from both cities, networking professionals and organizations of the different sectors related to the above-mentioned Action Plan main lines.

## Stakeholders involved

- **Mayors and municipal staff of both cities.**
- **Public Energy Companies**
- **Entrepreneurs in energy sector**
- **Forestry offices**
- **Fire Brigades**

## MAIN INTERVENTION-PILOT PROJECT

Inspired by the Temuco's Master Plan for the Development of the District Energy, the city of Kavala has gained valuable knowledge that will be applied to a feasibility study to be carried out on the implementation of district heating in public buildings.

On the other hand, on the outbreak of the Covid-19, very useful exchanges have been held between the two cities in attention to the new normal. Kavala transferred its knowledge and experience on economic activation and overcoming obstacles and problems faced in relation to the management of this crisis.

## MAIN IMPACTS AT LOCAL LEVEL

A key learning of this cooperation has been the positive experience in the application of virtual formats for technical exchanges. This has led to the request for further exchanges between the two municipal teams.

With the expertise on zero-emission buildings in Kavala and the knowledge of district heating in Temuco, there is a sound basis for advancing on both topics respectively.

On the other hand, Temuco's elaborated expertise in fighting forest fires offers an additional layer of cooperation to be further explored.

Both cities are in the process of concretizing future actions and exchanges, which could include aspects



related to the circular economy and the empowerment of local enterprises.

## LESSONS LEARNED AND ADDED-VALUE OF IUC

"Thanks to technology, we have learnt more about Kavala's experience and how this city has coped with the current pandemic. In addition, we continue to work to advance the cooperation between our cities in the field of access to affordable, reliable, sustainable and modern energy"

- Temuco

"Our partnership with Temuco has facilitated significant exchange experience in initiatives of immediate response to extreme events and force majeure situations such as the COVID 19 pandemic"

- Kavala

## CONTRIBUTION TO INTERNATIONAL FRAMEWORKS

Related SDGs and Urban Agenda for the EU topics:

7 AFFORDABLE AND CLEAN ENERGY



11 SUSTAINABLE CITIES AND COMMUNITIES



Urban Agenda for the EU: Energy Transition, Circular Economy.

## INTEREST IN FUTURE THEMATIC NETWORKS

Interest shown by **Temuco** both in the Action Plan and in the survey conducted by the Program

Interest shown by **Kavala** both in the Action Plan and in the survey conducted by the Program

<b>NETWORK 1</b>	Mobility, Connectivity and Transport	<b>NETWORK 1</b>	Mobility, Connectivity and Transport
<b>NETWORK 2</b>	Smart Cities & Digital Transition	<b>NETWORK 2</b>	Smart Cities & Digital Transition
<b>NETWORK 3</b>	Urban Poverty and Regeneration, Housing, Social Inclusion – Cohesion, Equity	<b>NETWORK 3</b>	Urban Poverty and Regeneration, Housing, Social Inclusion – Cohesion, Equity
<b>NETWORK 4</b>	Circular Economy, Waste and Sustainable Production / Consumption	<b>NETWORK 4</b>	Circular Economy, Waste and Sustainable Production / Consumption
<b>NETWORK 5</b>	Sustainable and Healthy Cities, Sustainable Land Use – Nature-Based Solutions	<b>NETWORK 5</b>	Sustainable and Healthy Cities, Sustainable Land Use – Nature-Based Solutions
<b>NETWORK 6</b>	Climate Action, Energy, Water and Air Quality	<b>NETWORK 6</b>	Climate Action, Energy, Water and Air Quality
<b>NETWORK 7</b>	Innovation and Economic Growth, Strategic Sectors, Jobs and Skills.	<b>NETWORK 7</b>	Innovation and Economic Growth, Strategic Sectors, Jobs and Skills

## ACKNOWLEDGEMENTS:

**IUC Pairing Manager:** Stefan Unseld

**City of Temuco:** Sergio Eduardo Otth Silva.

**City of Kavala:** Io Chatzivaryti