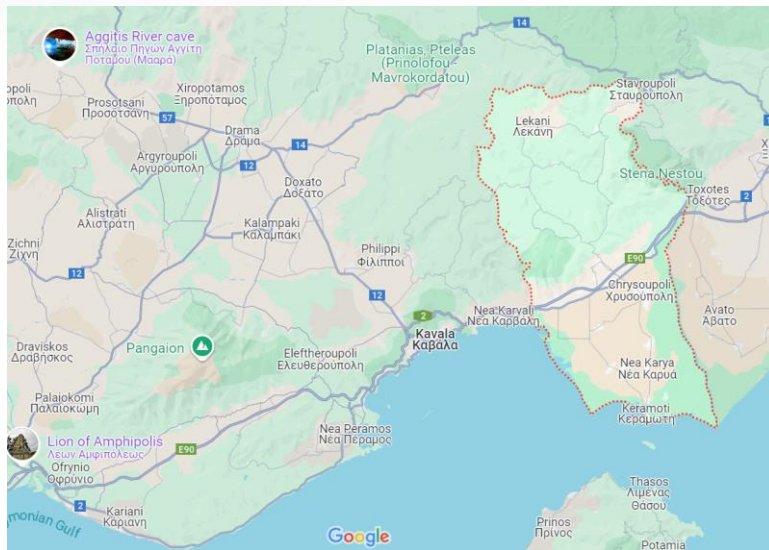


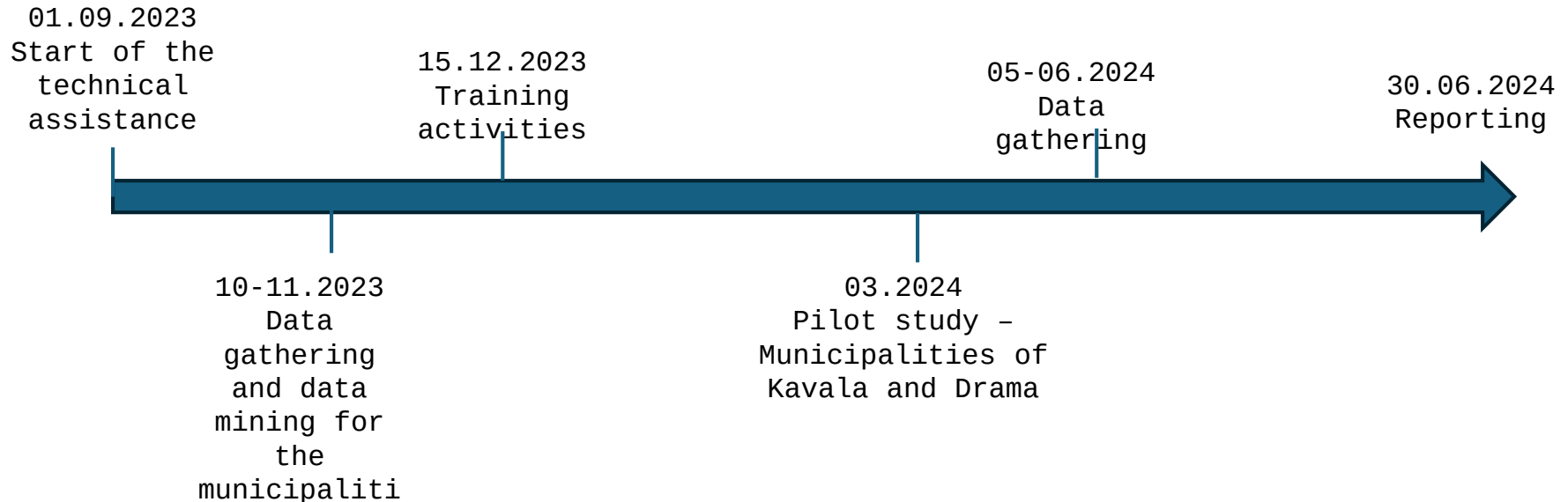


2nd Technical Assistance (TA2023/20)

Municipalities of Eastern Macedonia and Thrace, Greece (Kavala, Drama, Pangaio, Nestos)



Main steps



- 16 indicators were selected from EPAH's repository that were used for diagnosis
- 982 responses: 405 from Drama, 481 from Kavala, 83 from Nestos, 13 from Pangaio
- Questionnaire: 7 different sections, 52 questions (all closed questions of which 23 are Likert type)
- The data was gathered a field survey with the assistance of several municipal's services
- An accompanying cover letter also proved helpful, as it described briefly the purpose of the research project and provided assurance that the information obtained was to be treated as confidential; it also clarified that only one member per household should respond, so as to avoid distortions.

Key findings

Educational level: 4,6% more than a university degree

Kavala

- 23.9% live in single-family houses
- 33.5% are nonadjacent buildings
- 61.1% live in houses with a total surface area of 50-99m²
- 67.2% are privately owned residencies

Drama

- 32.6% live in single-family houses
- 45.7% are nonadjacent buildings
- 50.9% live in houses with a total surface area of 50-99m²
- 63.0% are privately owned residencies

Pangaio

- 61.5% live in single-family houses
- 69.2% are nonadjacent buildings
- 38.5% live in houses with a total surface area of 50-99m²
- 61.5% are privately owned residencies

Nestos

- 48.2% live in single-family houses
- 60.2% are nonadjacent buildings
- 55.4% live in houses with a total surface area of 50-99m²
- 80.7% are privately owned residencies





Key findings

	Heating system	Cooling system
Kavala	41% oil boiler 21% over two heating systems $T_{\text{average}} = 62\%$ 18-22°C	11% do not have $T_{\text{average}} = 10\%$ over 28°C
Drama	36% oil boiler 23% over two heating systems $T_{\text{average}} = 70\%$ 18-22°C	23% do not have $T_{\text{average}} = 11\%$ over 28°C
Pangaio	23% oil boiler/wood boiler 5% over two heating systems $T_{\text{average}} = 54\%$ 18-22°C	16% do not have $T_{\text{average}} = 15\%$ over 28°C
Nestos	34% oil boiler 24% over two heating systems $T_{\text{average}} = 64\%$ 18-22°C	7% do not have $T_{\text{average}} = 19\%$ over 28°C

Key findings



	% Houses were built before 1979 (no insulation)	% Houses constructed 1980-1990 (limited insulation)	Inability to keep a stable indoor temperature 
Kavala	43.2%	24.5%	<ul style="list-style-type: none"> • 41.5% don't heat the entire house • 16.6% don't heat the entire house while the inside temperature was 15-18 °C
Drama	31.1%	27.4%	<ul style="list-style-type: none"> • 41.9% don't heat the entire house • 9.1% don't heat the entire house while the inside temperature was 15-18 °C
Pangaio	38.5%	23.1%	<ul style="list-style-type: none"> • 38.4% don't heat the entire house • 7.7% don't heat the entire house while the inside temperature was 15-18 °C
Nestos	32.5%	34.9%	<ul style="list-style-type: none"> • 42.1% don't heat the entire house • 7.2% don't heat the entire house while the inside

Key findings

Kavala

Drama

- 5.6% don't pay energy bills on time
- 36.6% cannot cover their needs and obligations with their annual income
- 26.4% are beneficiaries of the Social Tariff
- 26.2% have indoor mould problems
- 65.2% doesn't have or don't know the existence of their EPC

- 2.5% don't pay energy bills on time
- 31.6% cannot cover their needs and obligations with their annual income
- 26.4% are beneficiaries of the Social Tariff
- 26.2% have indoor mould problems
- 63.7% doesn't have or don't know the existence of their EPC

Pangaio

- 15.4% don't pay energy bills on time
- 15.4% cannot cover their needs and obligations with their annual income
- 46.2% are beneficiaries of the Social Tariff
- 30.7% have indoor mould problems
- 61.6% doesn't have or don't know the existence of their EPC

Nestos

- 1.2% don't pay energy bills on time
- 31.3% cannot cover their needs and obligations with their annual income
- 22.9% are beneficiaries of the Social Tariff
- 19.3% have indoor mould problems
- 54.2% doesn't have or don't know the existence of their EPC