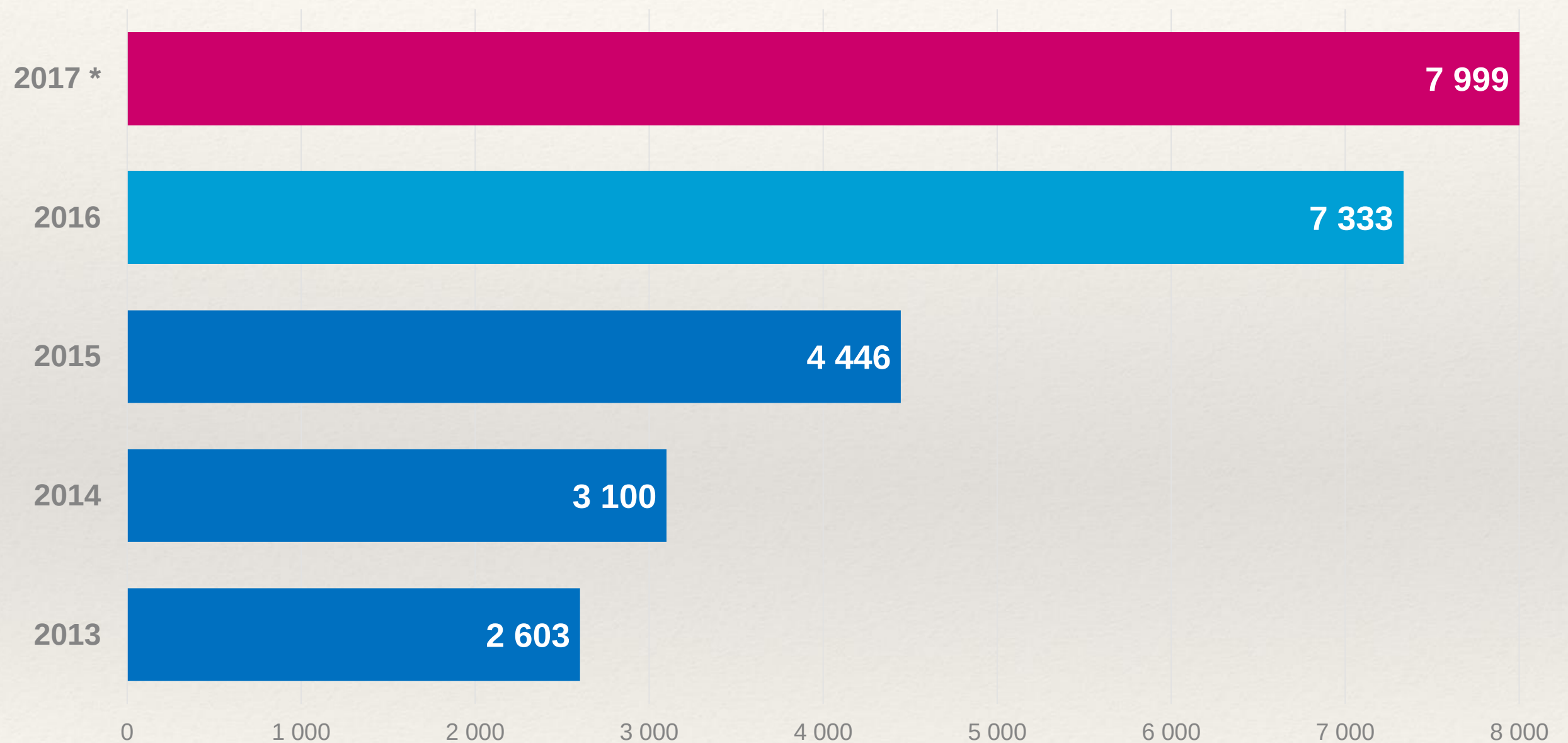


Incentivising the phasing out of high emission boilers and stoves

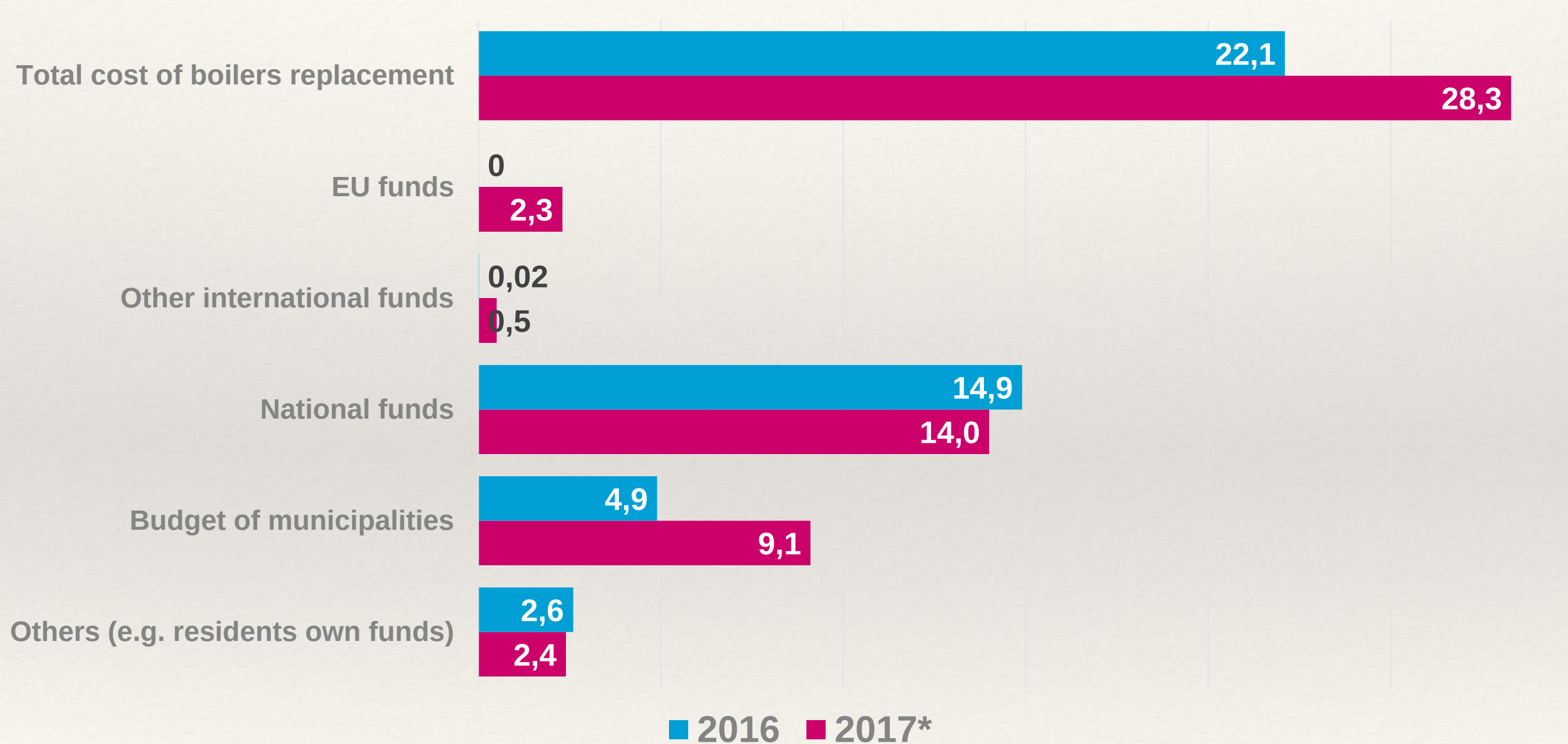
Piotr Łyczko

Head of the Air Quality Unit
Marshal Office of the
Małopolska Region

Number of solid fuel boilers replaced in the Malopolska Region



Sources of financing for replacement of boilers in Małopolska (Million EUR)



PONE Programme from Regional Fund for Environmental Protection in Krakow

- Co-financing for residents who replace an old coal-fired boiler is implemented through municipalities.
- Financial conditions: **subsidy up to 50%** of the eligible costs:
 - gas boilers up to 7,500 PLN (1,700 EUR)
 - fuel oil boilers up to 4,700 PLN (1,100 EUR)
 - connection to the heating network up to 8,000 PLN (1,800 EUR)
 - electric heating up to 3,400 PLN (800 EUR)
 - ecodesign coal or biomass boilers up to 4,500 PLN (1,000 EUR),
- Annual budget: **10 Million PLN** (2,3 M EUR).
- Thermal insulation of the building is not needed but heat output of the new boiler have be at least **20% lower**.

Regional Operational Programme (ERDF)

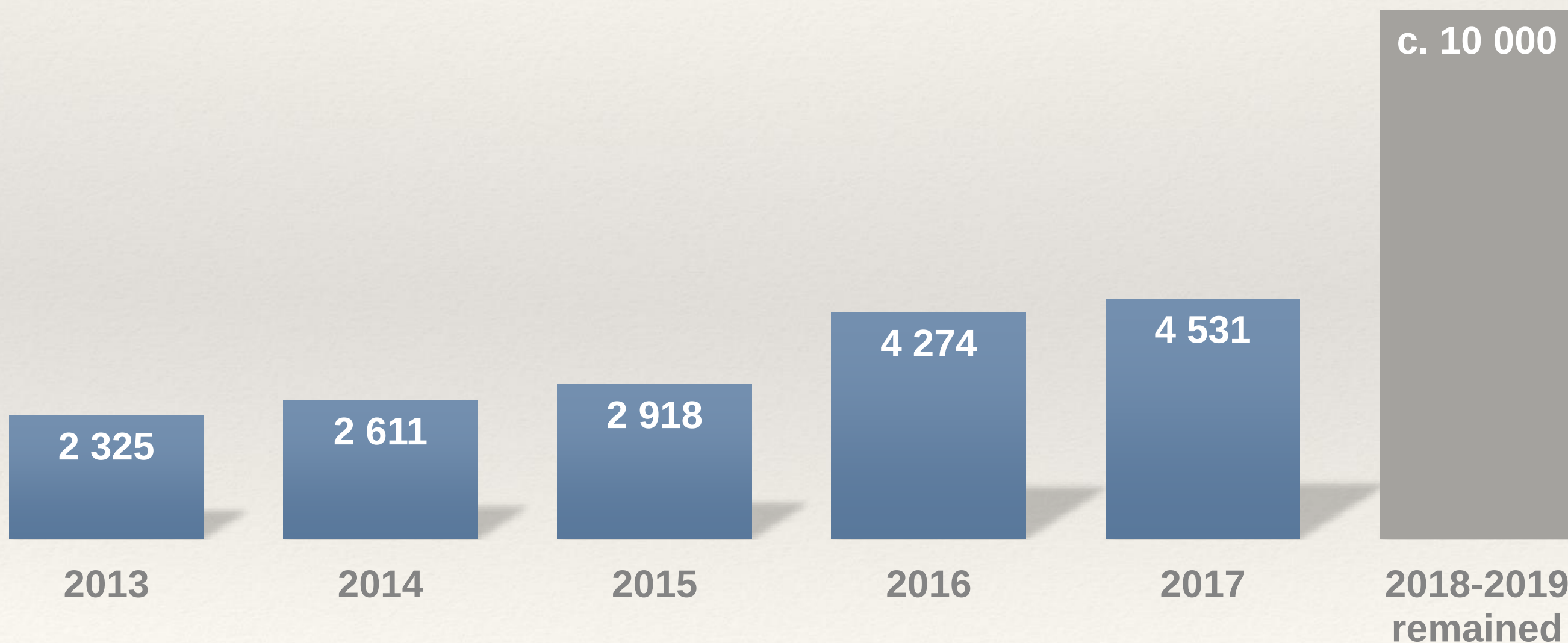
- Malopolska allocated **420M EUR** in Regional Operational Programme (ERDF) for energy policy including **78M EUR** for replacing solid fuel boilers, **162M EUR** for sustainable transport, **96M EUR** for thermal retrofit of multi-family and public buildings and **65M EUR** for renewable energy sources.
- In ROP it's planned to replace about **20,000** old solid fuel boilers. The needs are much larger – there's about **500,000** solid fuel boilers in the Malopolska.
- Boilers replacement projects started in 2017, currently about 2% of the allocation is settled.

Regional Operational Programme (ERDF)

- Residents can receive subsidy up to **2,000 EUR** for replacing solid fuel boiler to district heating, gas boiler, heat pump or new solid fuel boiler (ecodesign standard).
- Subsidies **350 PLN/kW (83 EUR)** of heat output of new source:
 - up to **8,000 PLN/boiler (1,900 EUR)** for a single-family house,
 - up to **10,000 PLN/boiler (2,400 EUR)** for a multi-family house,
 - additionally up to **6,000 PLN (1,400 EUR)** for indoor installation.
- Primary energy for heating, ventilation and hot water for the building cannot exceed 150 kWh/(m²×year) otherwise improvement of the energy consumption of the building is needed.

Solid fuel boilers replacement in Krakow

- City of Krakow offered **subsidies up to 100%** for solid fuel boiler replacement (2013-2016), 80% in 2017 and 60% in 2018.



Solid fuel boilers and stoves replaced in Krakow

Subsidies to fuel cost in Krakow

- Krakow introduced **additional subsidies for the low income residents** compensating **higher costs of fuel**. Subsidies are part of the social care system.
- The amount of **subsidy depends on the level of income**:
 - for a single person – max 3,170 PLN (726 EUR)
 - for the family – max 2,313 PLN (530 EUR) per person
- The subsidy rate up to 1m² per year results from the **estimated increase in the heating cost** for:
 - district heating: 17.02 PLN (3.9 EUR)
 - gas: 28.47 PLN (6.5 EUR)
 - electricity: 65.96 PLN (15.1 EUR)
 - fuel oil: 41.92 PLN (9.6 EUR)
- **2,000 families** benefited from subsidies (2017), and the total cost for the budget was **2 million PLN (460,000 EUR)**.

“Skawina Lab” – support for energy poverty

- **Pilot support program** for people affected by energy poverty – 20 buildings in 2018 (1 Million PLN).
- **Identification of people eligible for support:**
 - Income criteria
 - Social criteria (single parent, large family, multi-generational family, people with disabilities).
- **On-site verification** - visit by a social worker and energy advisor.
- **Thermal insulation and boiler replacement** – the municipality will take care of all expenses directly with the contractor.
- Experience of the program will be used to implement the supporting program for the poorest at national level.

Additional incentives

- **Anti-smog electricity tariff.** People who change the heating to electricity can benefit from a special tariff with a reduced price:
 - Price for electricity at night from 22:00 to 6:00 is about **40 - 65% lower** than during the day (depending on the distributor).
 - Anti-smog tariff is not always more beneficial than standard flexible pricing tariff (peak/off-peak) and needs further adjustments.
- The largest supplier of natural gas in Poland (PGNiG) offers **additional one-time payments** for people who will switch from coal boiler to gas.
 - Large families can receive **3,000 PLN (690 EUR)**,
 - Rest can receive **1,000 PLN (230 EUR)**.

Thank you!



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