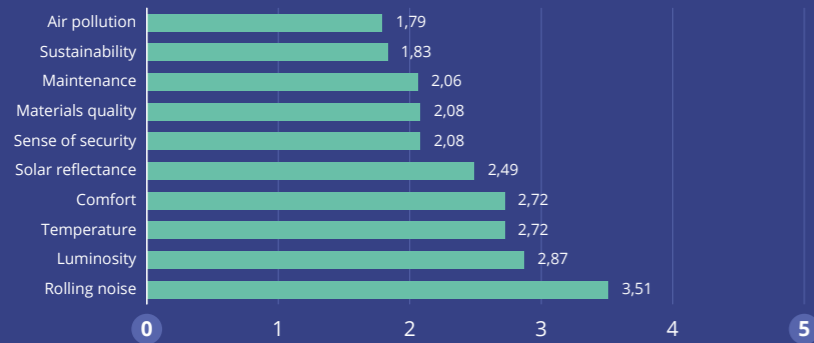


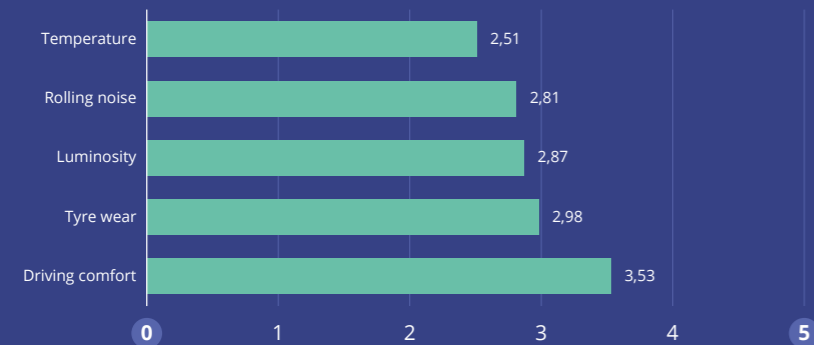
SOCIO-ECONOMIC
STUDY

**Rating from 0 to 5
of the aspects of the cool
pavement compared
to the traditional one**

PEDESTRIANS INTERVIEWED



DRIVERS INTERVIEWED



Project co-funded by the LIFE 2014-2020 Program for the Environment and Climate Action of the European Union. The content of the publication reflects the opinion of the author only and the European Union is not responsible for the use made of the information.



LIFE16 CCA/ES/000077



HEATLAND
www.heatlandlife.eu



**COOL
PAVEMENT**
LIFE HEATLAND

URBAN HEAT ISLAND EFFECT

Causes

- Materials used in cities capture solar radiation and release it as heat at night.
- Vegetation scarcity and low evapotranspiration.

Consequences

- Increase of environmental temperature between 4 - 5 °C in urban centres compared to urban periphery.
- Between 5-10% of increase in cooling demand.
- Water and air quality impoverishment.
- Health problems in citizens.

Cool Pavement
LIFE HEATLAND

1 Creation



Pavement transformation

2 Implementation (24.000 m²)



Barrio del Infante (Murcia)

PILOT PROJECT RESULTS (I)



Reduction of surface temperature

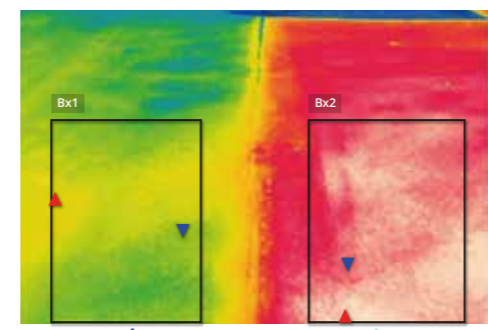
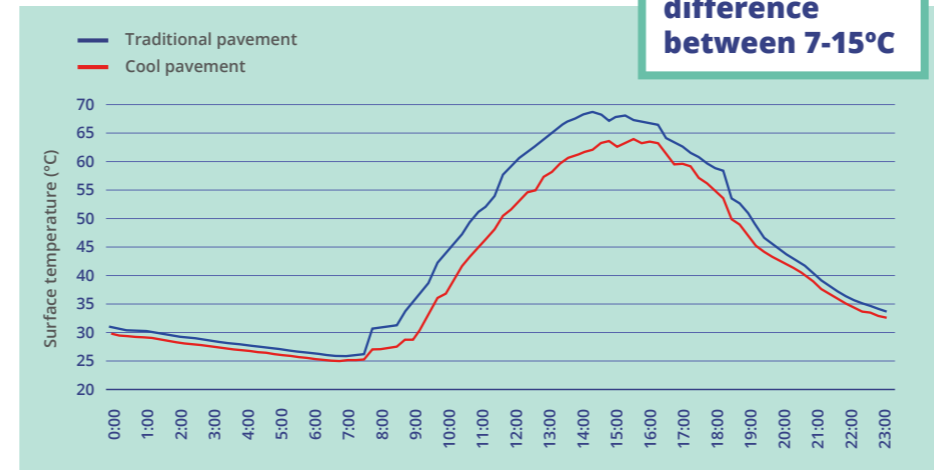


Reduction of noise



Increase of luminance

Results obtained in Barrio del Infante (Murcia)



Cool pavement

Traditional pavement

THERMOGRAPHY PERFORMED BETWEEN THE TWO TYPES OF PAVEMENTS

2°C decrease in ambient temperature

PILOT PROJECT RESULTS (II)

3 dB(A) decrease in acoustic impact of road traffic



Luminance increases up to 150% ▶ Energy savings and neighbourhood comfort improving health and well-being of citizens



HEATLAND
www.heatlandlife.eu