Executive summary

HEAT-SHIELD

This EU funded project addresses the negative impacts of workplace heat stress on the health and productivity of the EU workforce. We are analysing the impact of increasing heat levels in certain work situations due to climate change during this century and the effects of climate change mitigation on occupational health and productivity.

We will provide adaptation strategies for major EU industries: manufacturing, construction, transportation, tourism, and agriculture, Together, these industries represent 40% of the EU GDP and 50% of its workforce.

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Integrated inter-sector framework to increase the thermal resilience of European workers

The Consortium: We are a group of twelve research institutions, two policy-making organisations, four industrial entities, and two civil society organisations from across the EU (Table 1). Moreover, the project is endorsed by policy making and civil society stakeholders.

Mission: To address the negative impacts of workplace heat stress on the health and productivity of workers in strategic European industries (imparallacturing, construction, transportation, tourism and agriculture) and the potential increase of these impacts as climate channe monesses.

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(i) it will ensure the wellbeing of their workforce;
(ii) it will improve their competitiveness by mitigating the

productivity loss associated with rising workplace heat.

Development Steps: The above outcomes will be achieved by

completing a series of development steps:

despite aggravated heat workplace levels.

Step 1: Forecast weather patterns and workers' future conditions across Europe for various climate change scenarios.
Step 2: Assess the effects of the above forecasts on the health and productivity of manufacturing, construction, transportation, tourism, and agriculture workers across Europe. The age and

tourism, and agriculture workers across Europe. The age and gender distribution in thisse industries and the heat vulnerability of different population groups will be assessed. Step 3: Screen and optimize technical and biophysical solutions to reduce workers' heat stress. Step-6-formulate quidelines to promote workers' health and prevent

productivity loss, based on high-escolation heat strain data (per industry per region and per climate scenario). Sep 5: Develop an online open access service to help industry and society anticipate theasts to worker/ health and to disserminate adaptation guidelines to relevant stakeholders. Sep 16: dosses the effort and foremulated makelines and none across.

service for their health, economic, and social benefits.

Vision: To improve the healt resilience of European workers considering the current and future climatic heat scenarios. To provide know-how to the European community ranging from the individual citizen to public and private policy makers towards implementing methods and procedures that will secure health and productivity

Table 1. No. of 2 could be provided and relative to the same of the country of th

Innovation Outcomes: HEAT-SHIELD will produce a series of state-of-the-art innovation outcomes including: (i) assessment report on the current occupational health risks due

to workplace heat, as well as the likely increasing problems in certain jobs due to climate change; (ii) testing of appropriate technical and biophysical solutions to

industries;

(iii) development of an online open access service anticipating and warning for events that may pose a threat to workers' health;

well-being, and productivity among relevant stakeholders; (v) assessment of formulated guidelines' effects concerning their health, economic and social benefits and their impact on reducing inequalities.

