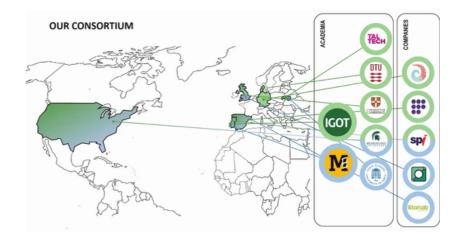


Cities are places of prosperity, development, progress, creativity, and innovation, offering opportunities and conditions for people to foster healthy, successful and fulfilling lives

# **NEWSLETTER #5**

**SEPTEMBER 2023** 



#### **3RD ANNUAL MEETING**

Cities can be places for societal stressors that severely impact people's mental health and well-being. Poorly designed cities can negatively impact people's mental health.

Emotions are key drivers of our decisions; similarly, our choices are the conduit for our well-being and health.













### PRIVATE MEETING | SEPTEMBER 11TH



The main goal of the event hosted by

Michigan State University on September

11th & 12th was to discuss how

scientists, decision-makers, politicians,

urban planners and physicians, can help

to shape healthier and thriving cities.

The private meeting of the eMOTIONAL Cities project was held on September 11th and hosted by Michigan State University.







All the partners had the opportunity to review the achievements of the work







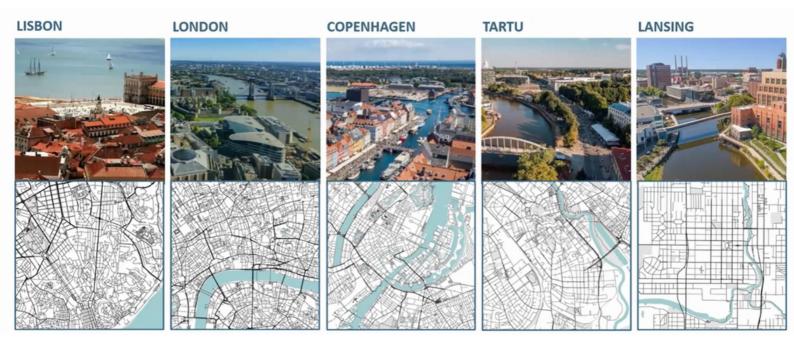
packages and
collaborate to plan the
next steps that will lead to
the successful completion
of the project.







# DISCUSSION ON THE FUTURE OF URBAN HEALTH | SEPTEMBER 12TH - PUBLIC EVENT



# you live in the city, and slowly, the cities starts living in you

The public event that took place on
Tuesday, 12 September, was a
significant gathering of experts
from various fields, including
scientists, decision-makers,
politicians, urban planners, and
physicians. The purpose of the
event was to discuss their individual
and collective roles in shaping
healthier and more thriving cities.

The discussion centered around topics such as improving air quality, enhancing green spaces and increasing access to well-being and healthcare. This event provided a platform for sharing insights, experiences, and recommendations on how to create cities that are not only livable, but also promote physical and mental well-being.

#### **NEUROSCIENCE EXPERIMENTS AT A GLANCE**

# The brain as predictor of emotional urban spaces

Functional Magnetic Resonance Imaging (FMRI)

### **Experiment 1**



**Experiment 2** 



Understanding the neuronal processing of urban space through naturalistic stimuli

Electroencephalogram (EEG)

Mobile sensing of the stress and emotional effects of the daily urban experience

Mobility APP

### **Experiment 3**



**Experiment 4** 



Neuroscience experiments in the open air "EMOTIONAL CITIES WALKER"

Environmental and phisiological sensors

Clinical experiences of dementia (Alzheimer's)

Virtual Reality

**Experiment 5** 



### **PUBLIC PRESENTATIONS**



# eMOTIONAL Cities: Mapping the cities through the senses of those who make them









#### **Understanding Urban Health: Metrics, Determinants and Spaial Analysis**









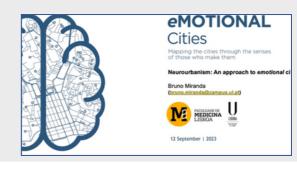




#### Neurourbanism: an approach to emotional cities









#### **eMOTIONAL Cities Walker**









## FIELD TRIP - DETROIT | SEPTEMBER 13TH

On **September 13th**, the project partners were given a valuable opportunity to embark on a field trip to Detroit.

The trip was expertly led by Darnell Adams,
Director of Detroit

Community Initiatives.















#### **SCIENTIFIC PUBLICATIONS**



The effect of transport infrastructure, congestion and reliability on mental wellbeing: a systematic review of empirical studies

https://doi.org/10.1080/01441647.2022.2100943



Serving Geospatial Data Using Modern and Legacy Standards: A Case Study from the Urban Health Domain <a href="https://doi.org/10.5194/isprs-archives-XLVIII-4-W1-2022-419-2022">https://doi.org/10.5194/isprs-archives-XLVIII-4-W1-2022-419-2022</a>



Cities and neuroscience research: A systematic literature review

https://doi.org/10.3389/fpsyt.2022.983352



Health and the Urban Environment: A Bibliometric Mapping of Knowledge Structure and Trends <a href="https://doi.org/10.3390/su141912320">https://doi.org/10.3390/su141912320</a>



Using Decision-Tree Methodologies To Explore Determinants Of Health and Wellbeing Outcomes At The Local Authority Scale - The Case Study Of London

https://www.ingentaconnect.com/contentone/alex/benv/2023/0000049/00000002/art00007



Musings on Neurourbanism, Public Space and Urban Health

https://doi.org/10.18055/Finis29886



Wearable biosensors: an agenda for digital embodied methods

http://dx.doi.org/10.4337/9781802200607

#### LATEST EVENTS





- VII Workshop Red Iberoamericana de Observación Territorial (RIDOT): Spatial planning in the context of climate change: opportunities for sustainable territorial development - Universidade Federal do Paraná, Curitiba, Brasil
- Webinar Air Quality in Lisbon 18 months of continuous monitoring - Lisboa E-Nova -Energy and Environment Agency of Lisbon, Lisbon
- Data Collection for Lansing, Michigan, USA Spatial Analyses (Work Package 4). January 2023-March 2023.



 Webinar Impact investing and solving social and environmental problems - Lisboa E-Nova - Energy and Environment Agency of Lisbon, Lisbon



- Webinar Designing and Implementing Urban Health Projects: Exploring Impact Assessment Tools and Best Practices, Heart – Healthier Cities through Blue-Green Regenerative Technologies
- Open Innovation Session in the thematic area of Health, INOVA + - Rectory of the University of Lisbon, Lisbon
- RedeSAÚDE's 5th Annual Public Health Conference - «New Concepts and Tools to Promote Public Health Literacy - Rectory of the University of Lisbon, LisboN
- Presentation «eMOTIONAL Cities Mapping the cities through the senses of those who make them»in the Conference Urban Talks – [A]cademia, [A]utarquia e [A]telier, Lisbon School of Architecture, University of Lisbon, Lisbon



- 17th International Association for China Planning (IACP) Conference Tianjin, China
- Presentation « Exploring Urban Determinants of Health and Wellbeing - Using Explainable Machine Learning Models»
- Workshop «Urban Climate and heat Stress»,
   IN-Hale Project IGOT, Lisbon
- Second Urban Health Cluster Annual Consortium Meeting - Bologna, Italy
- International Seminar «Human Rights, Demography and Development» - IGOT, Lisbon



- Organization of the LISA Lab Workshop on Spatial Analysis of Urban health with visiting professor Eric Heikkila from USC Price School of Public Policy - Cambridge, UK
- Seventh Ministerial Conference on Environment and Health Process, «European Environment and Health Process» - Budapest, Hungary
- Spatial Analyses completed for Lansing, Michigan, USA (Work Package 4). April 2023-July 2023.



- II Luso-Brazilian Meeting of Territorial Emotional Geographies in the context of climate change: opportunities for sustainable territorial development - IGOT, Lisbon
- Video Recording for Outdoor Experiments in Lansing, Michigan, USA (Work Package 5).



Data Collection for Tartu, Estonia Spatial Analyses (Work Package 4)

### **UPCOMING EVENTS**







#### **EUROPEAN WEEK OF REGIONS AND CITIES**

9 - 12 October 2023

More info here

#### **BRAIN INNOVATION DAYS 2023**

26 - 27 October 2023

More info here

#### **WEBINAR GEOSPATIAL DATA**

24 November 2023

More info here

#### Consortium

























#### Coordinators



**PAULO MORGADO** 

Assistant Professor at IGOT-ULisboa and a researcher at Centre of Geographical Studies, group MOPT, and at Associated Lab TERRA. Paulo is also a coordinator of GeoModLAB



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