



# Interdisciplinary Geospatial Measurement and Analytical Methods for Global Public Health Research and Policy

10 – 11 September 2026

**Location:** Leibniz Institute for Prevention Research and Epidemiology – BIPS, Bremen, Germany

**Format:** Hybrid (in-person + online)

Time	Topic
<b>FIRST DAY 10.09.2026</b>	
9:00–9:05	Opening
9:05–9:15	Workshop Objectives
9:15–9:30	Setting the stage: Global Health perspective
9:30–10:15	<b>Perspective talk:</b> Advanced geospatial measurement of the physical environment for global public health
10:15–10:30	<i>Break</i>
10:30–12:00	<b>Session 1: Satellite-based environmental exposure assignment</b> <ul style="list-style-type: none"> <li>• Remote sensing of air pollution, temperature, greenness, land use (built environment)</li> <li>• Strengths and limitations compared to ground-based monitoring</li> <li>• Satellite-based environmental exposures (greenness, blue spaces, light at night)</li> </ul>
12:00–13:00	<i>Lunch</i>
13:00–14:00	<b>Interactive breakout: Key methodological challenges across HIC and LMIC settings</b>
14:00–15:00	<b>Session 2: Method validation, uncertainty, and resolution challenges</b> <ul style="list-style-type: none"> <li>• Built environment, greenness, temperature</li> <li>• PM modelling</li> <li>• In-depth challenges</li> <li>• Points to be covered: Moderate resolution compared to high resolution in ground-based monitoring</li> </ul>
15:00–15:30	<i>Break</i>
15:30–17:00	<b>Session 3: Data infrastructure, access, security, and capacity-building needs</b>
17:00–17:15	Day 1 wrap-up: Synthesis of challenges and priorities
18:00 onwards	Social dinner

**SECOND DAY 11.09.2026**

<b>9:00–10:00</b>	<b>Session 4: Advanced analytical methods</b> <ul style="list-style-type: none"><li>• Spatial modelling and machine-learning approaches</li><li>• Integration of satellite and ground-based data</li></ul>
<b>10:00–10:30</b>	<b>Session 5: Open-source tools and sustainable capacity building</b>
10:30–10:45	<i>Break</i>
<b>10:45–12:00</b>	<b>Session 6: Applications in epidemiological and life-course studies</b> <ul style="list-style-type: none"><li>• Built environment indicators, mobility, and behavior</li></ul>
12:00–13:00	<i>Lunch</i>
<b>13:00–14:00</b>	<b>Interactive breakout: Methods clinics and use cases</b>
<b>14:00–15:00</b>	<b>Perspective talk: From geospatial evidence to action: translating evidence into public health and climate policy</b>
15:00–15:30	<i>Break</i>
<b>15:30–16:30</b>	<b>Session 7: Translating evidence into urban planning and transport to improve public health</b>
<b>16:30–17:00</b>	Final sum-up: Roadmap, outputs, and next steps
<b>17:00</b>	End of workshop

The workshop is funded by:



Workshop partners:



POTSDAM INSTITUTE FOR  
CLIMATE IMPACT RESEARCH



UNIVERSITÄT  
HEIDELBERG  
ZUKUNFT  
SEIT 1386