



“GESIS meets Copernicus” (GxC)

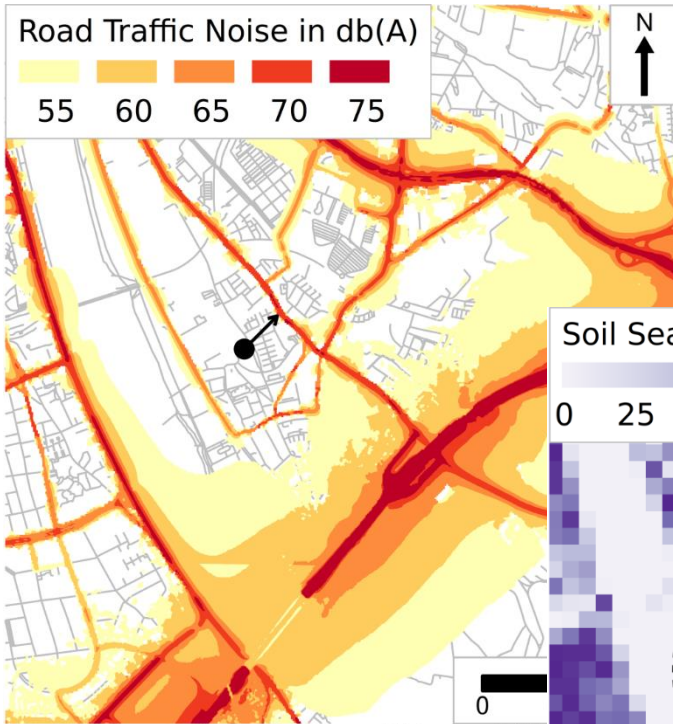
Dennis Abel and Stefan Jünger
Department for Survey Data Curation
Team Survey Data Augmentation

The Power of Where – Spatial Insights from Survey Data

Joint Spring Meeting of BBSR, BTU & SOEP RegioHub

29 February 2024

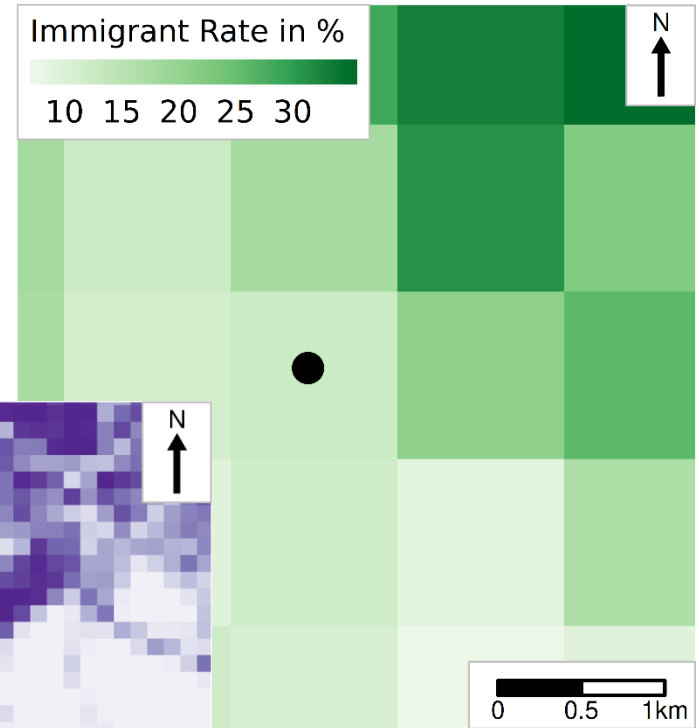
ALLBUS (ZA5262)



● Respondent's Location → Distance db(A)

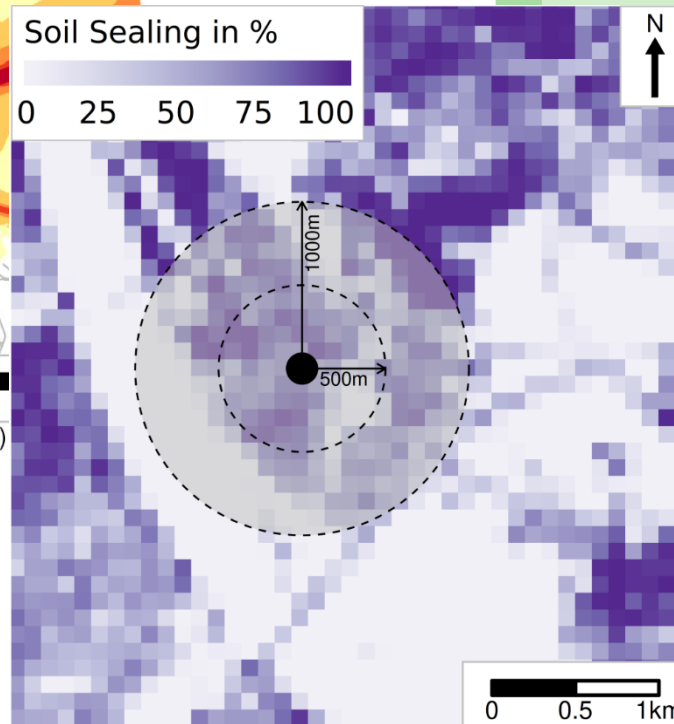
@Umweltbundesamt/
 @EIONET Central Data
 Repository,
 @OSM/GEOFABRIK

GLES (ZA6828)



Location

@Zensus 2011



● Respondent's Location

@IÖR Monitor

GESIS Panel



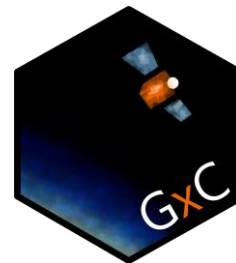
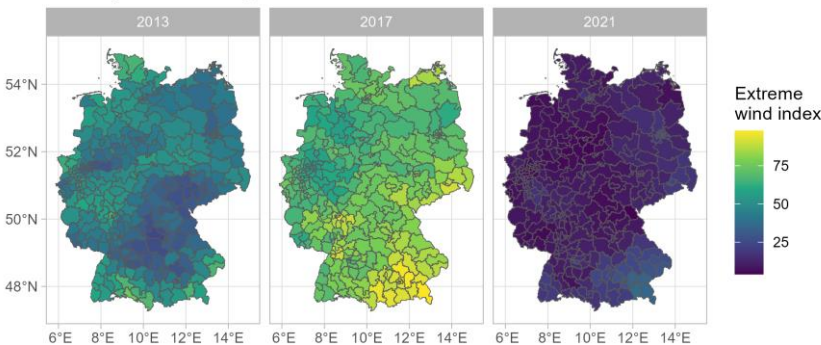
Strategic Focus: Interoperability

Enhancing flexible linking with geocoded data

Enable innovative
research designs by
linking data

- GESIS meets Copernicus (GxC)
 - Access to earth observation data
- Social-Spatial Research Data Infrastructure (SoRa+)
 - Spatial linking tools for social science research data centers
 - Remote access solutions for users

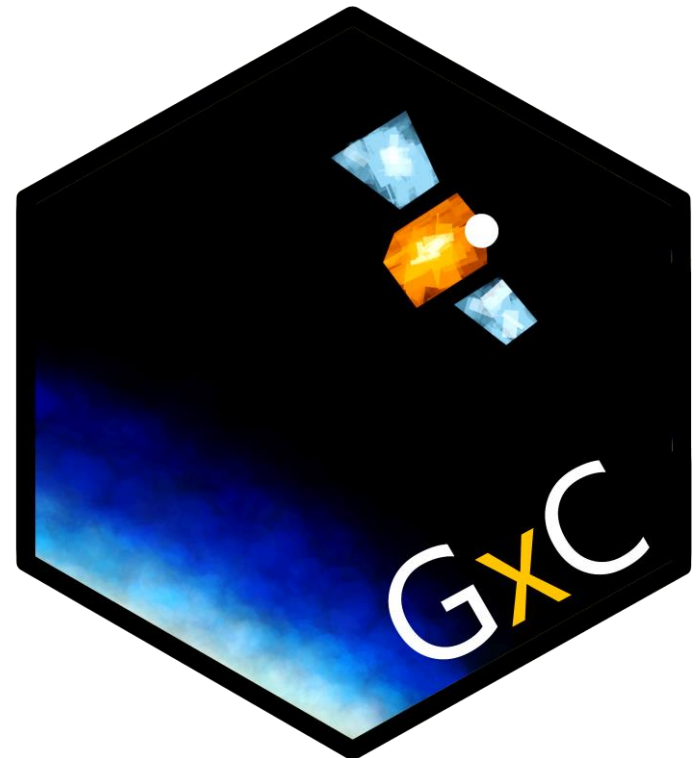
Extreme wind occurrence index in the summer months
in comparison to 10-year reference distribution



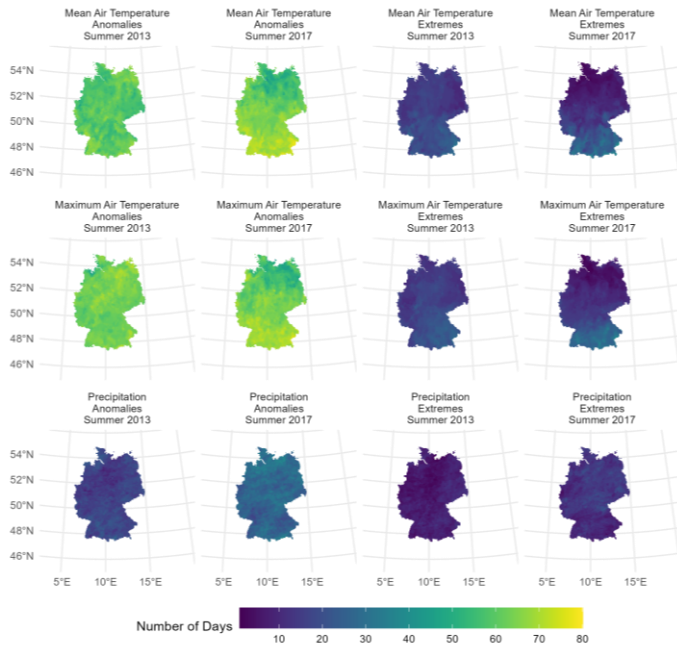
SoRa
Data linking service

GxC targets

- Development of a high-performance and user-friendly **interface to EO data** that can be used internally at GESIS as well as by external users. In addition to programming the **R package**, this also includes writing a detailed documentation and creating a tutorial with simple application examples and exercise data sets;
- **Identify core variables** from the wealth of accessible EO data that are of particular interest to the social sciences and are therefore specially curated;
- Extension of GESIS data sets (**GLÉS, GESIS Panel**) for secondary use and exploration of applicability for digital behavioral data projects at GESIS



Core variables



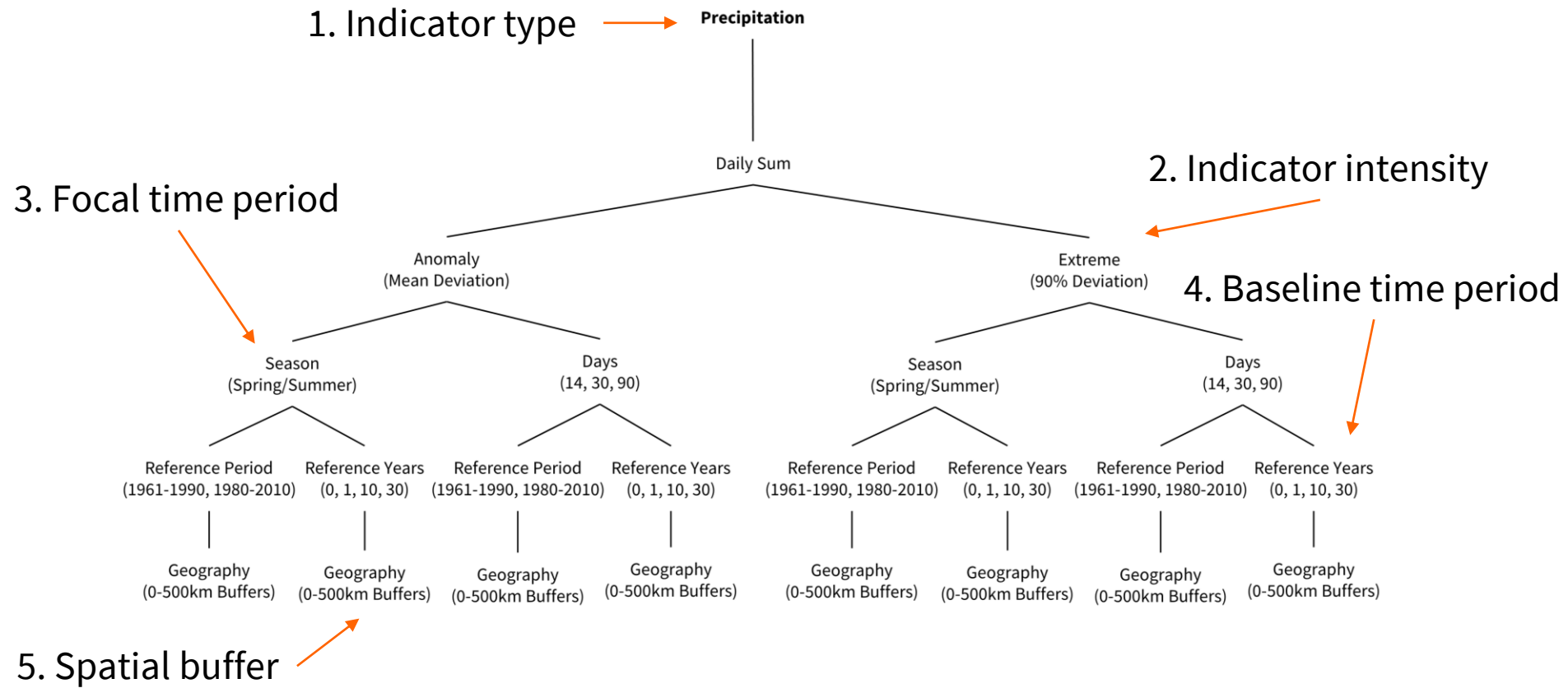
Year 1: Weather indicators:

- Temperature
- Precipitation
- Wind
- (Drought)

Year 2:

- Local air pollution
- Land cover and use

Development of linking logic



Save the date: Workshop

- Tool and service will start at the end of 2024
- Final workshop on *EOD in the Social Sciences* from **27-29 November 2024** at GESIS in Cologne



Thank you very much!

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gesis

Leibniz Institute
for the Social Sciences

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Association