



Geolinguual Studies
Würzburg University

Geolinguual Studies @ CAIDAS

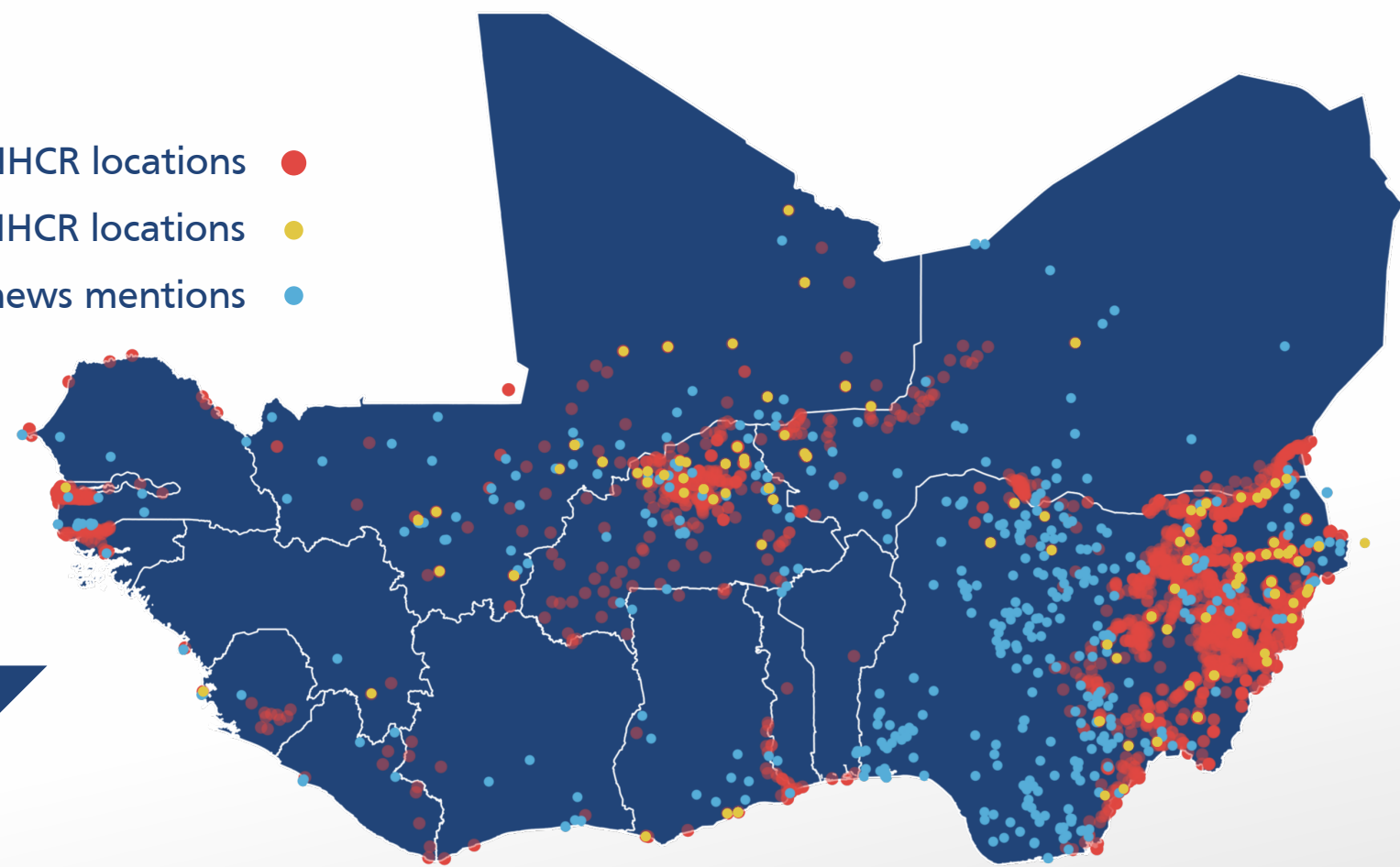
Prof. Dr. Carolin Biewer & Prof. Dr. Hannes Taubenböck

Chair of English Linguistics

Chair of Global Urbanisation and Remote Sensing

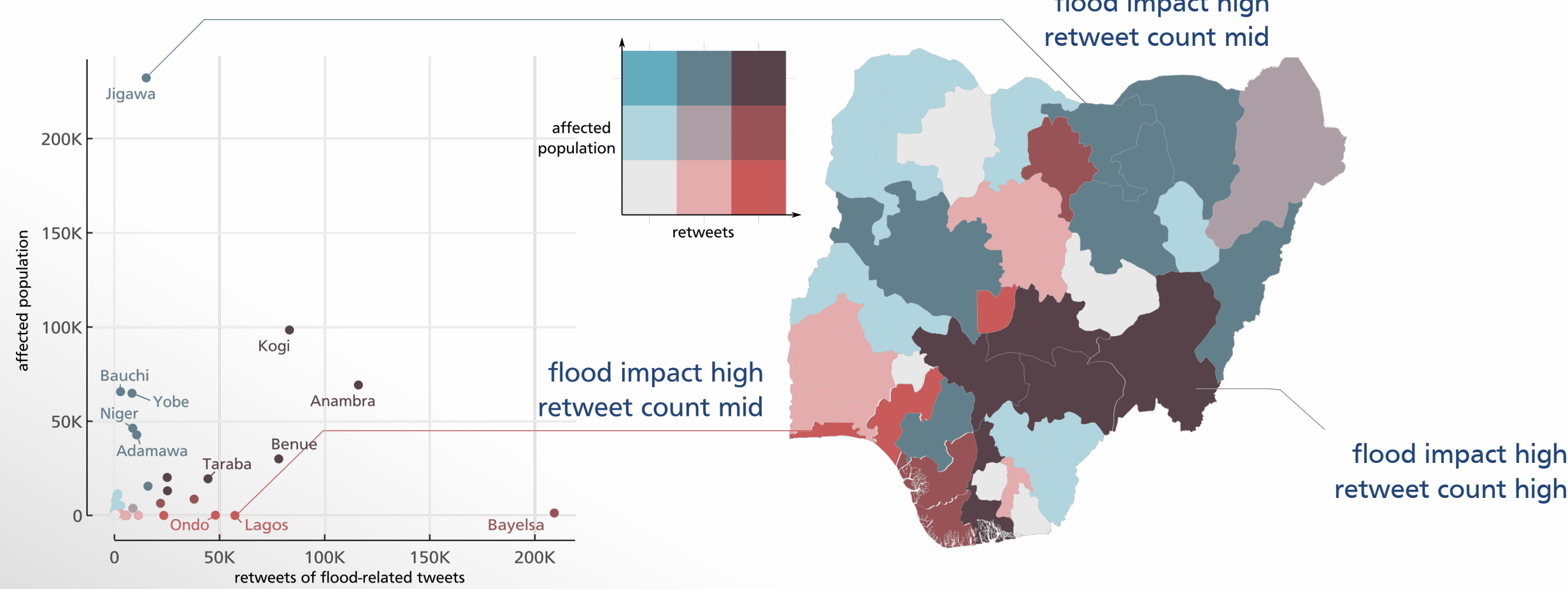
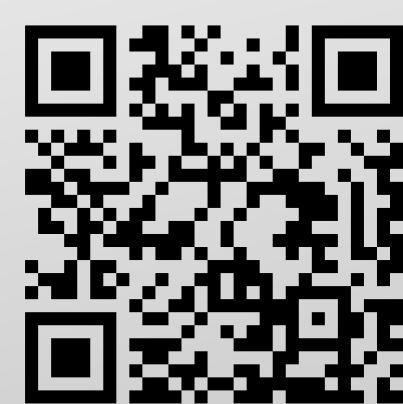
GDelt

INSIDE STORY: How herders-farmers crisis has turned Nigerians to refugees in Benin Republic



96.8% of refugee-related locations in West Africa not covered by online news.

Reference: Senaratne, H., Mühlbauer, M., Kiefl, R., Cárdenas, A., Prathapan, L., Riedlinger, T., Biewer, C., & Taubenböck, H. (2023). The Unseen—An Investigative Analysis of Thematic and Spatial Coverage of News on the Ongoing Refugee Crisis in West Africa. ISPRS International Journal of Geo-Information, 12(4), Article 4. doi: 10.3390/ijgi12040175



In Benue we had flooding before, but this year is too much

Many flood-affected places discussed on Twitter, but (re-)tweet frequency not correlated to flood impact.

Reference: Mast, J., Sapena Moll, M., Geiß, C. & Taubenböck, H. Linking remote sensing data and online engagement in flood events in Nigeria, in 2023 Joint Urban Remote Sensing Event, JURSE 2023, Heraklion, Griechenland: IEEE, 2023, pp. 1–4. doi: 10.1109/JURSE57346.2023.10144130

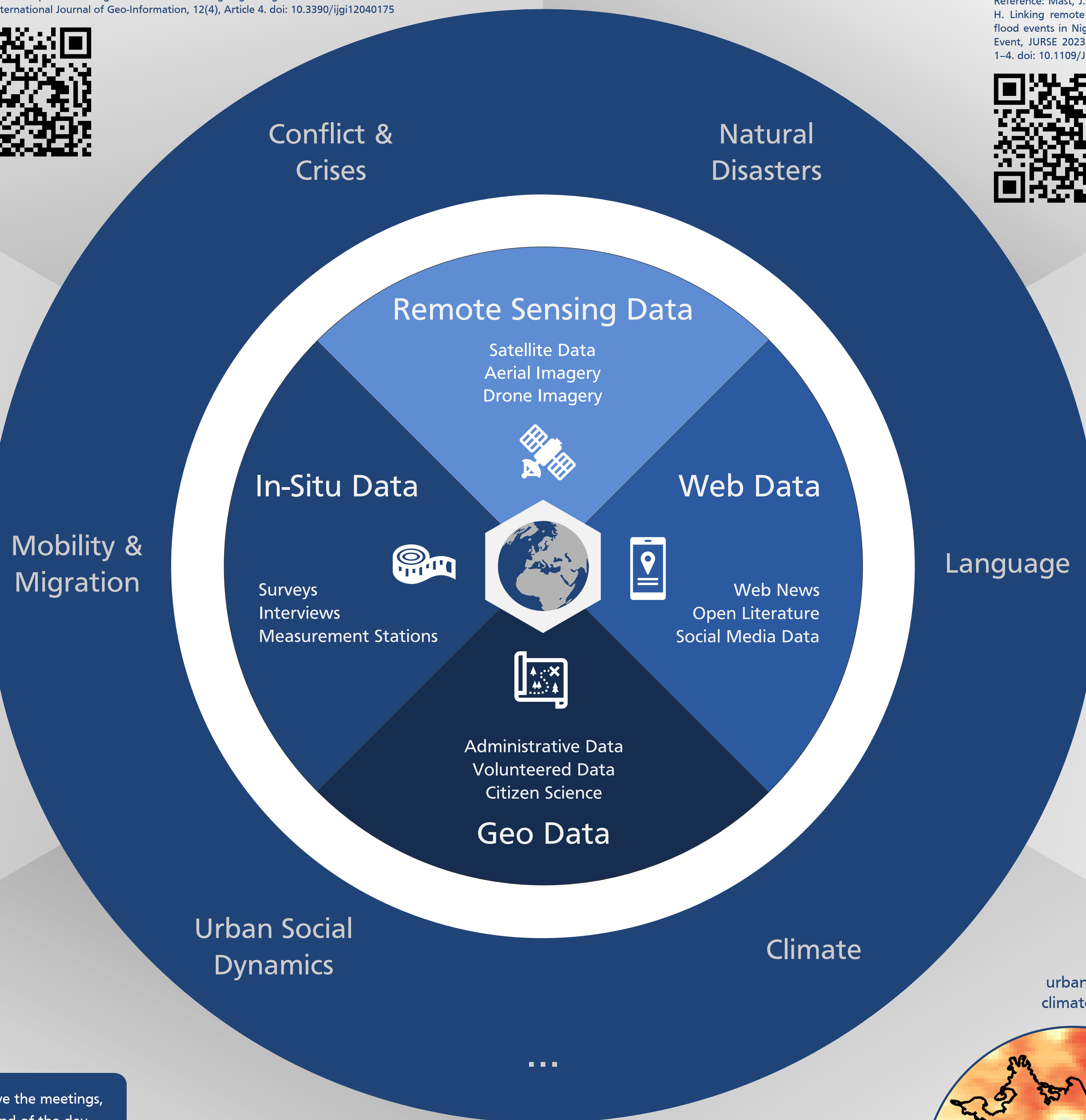


I love how my dog is hearing the siren and starts pushing me to get out of the bed and go to our bomb shelter each time. Smart cookie!

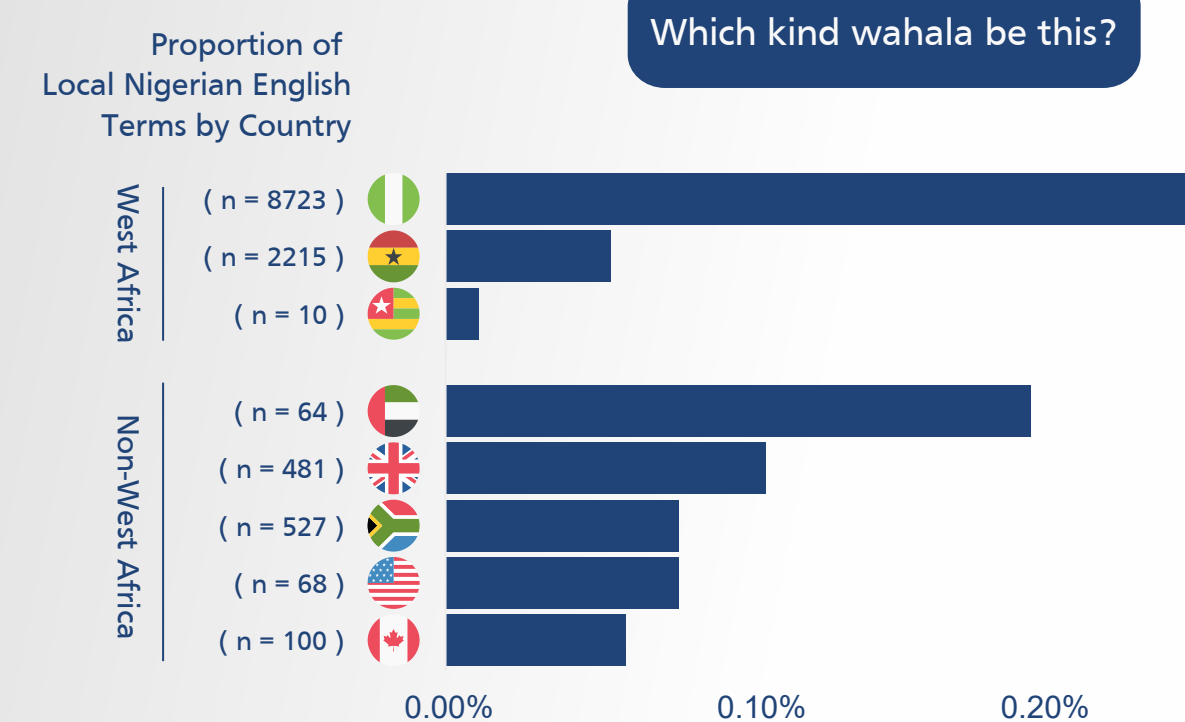


Topics & language of tweets by migrants from Ukraine change during migration and return.

Reference: Lemoine-Rodriguez, R., Mast, J., Mühlbauer, M., Mandery, N., Biewer, C., & Taubenböck, H. (2024). The voices of the displaced: Mobility and Twitter conversations of migrants of Ukraine in 2022. Information Processing & Management, 61, 103670. doi: 10.1016/j.ipm.2024.103670



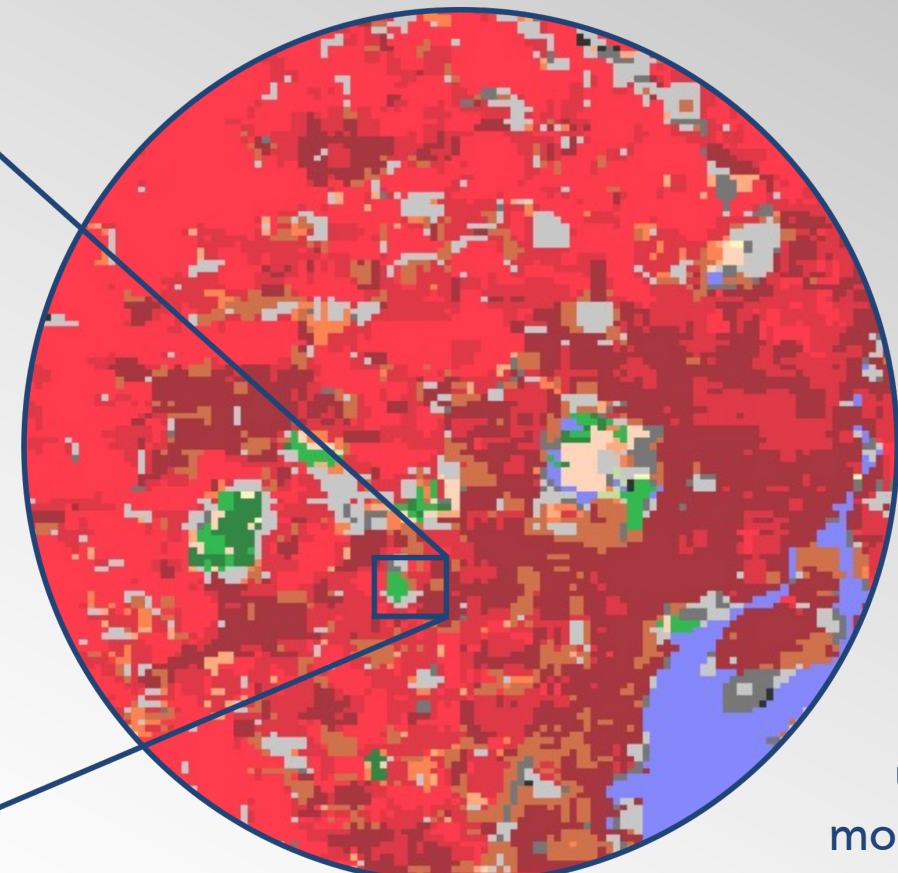
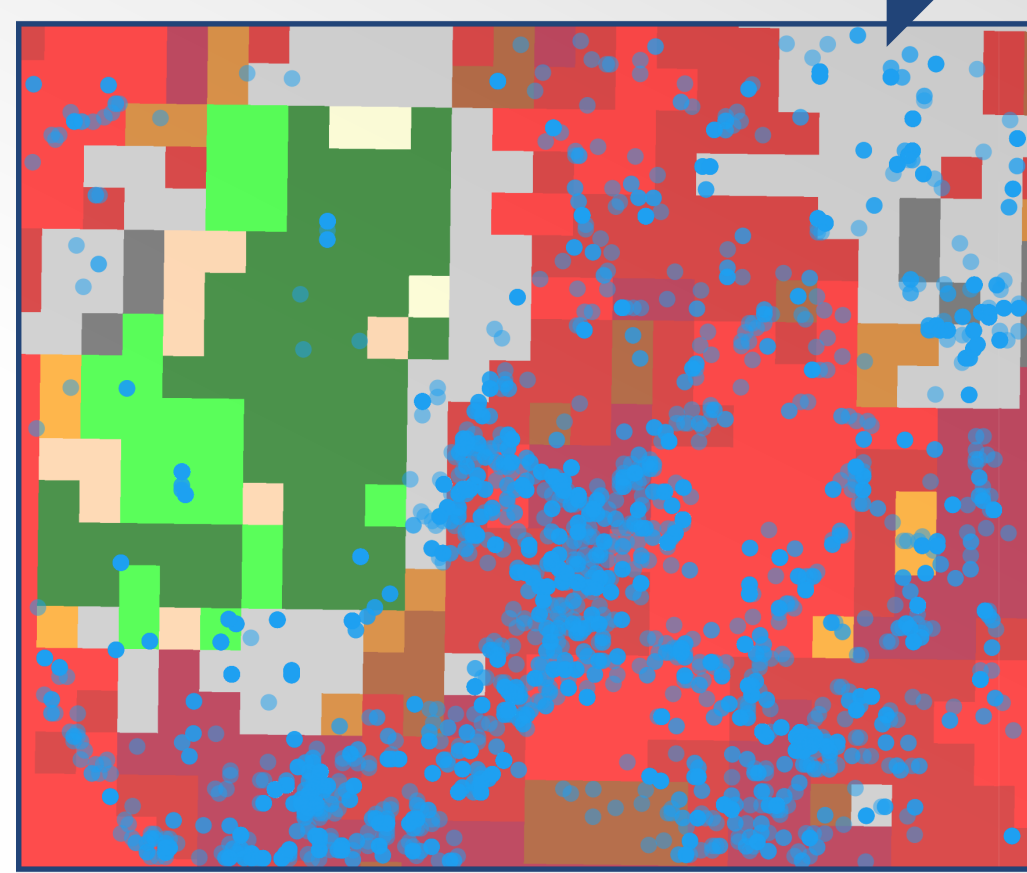
While wetin dey happen? abeg o free me Which kind wahala be this?



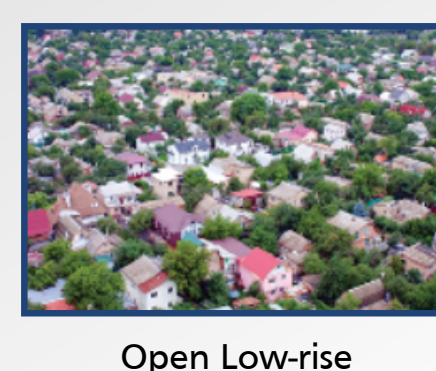
Nigerians' use of local language features differs by user location and mobility.

Reference: Mast, J., Heps, D., & Sapena, M. (fc.) Using geolocated social media data for understanding the relationships between language, topic and mobility: A study on a local use of English in Nigeria. In C. Biewer, L. Lehnert, N. Schulz, & H. Taubenböck (Eds.), Geolinguual Studies on Urban Space. Edinburgh University Press.

Today's KPI: survive the meetings, make it to the end of the day.



Compact High-rise
Compact Mid-rise
Compact Low-rise
Open High-rise
Open Mid-rise
Open Low-rise
Large Low-rise
Sparsely built
Dense trees
Scattered trees



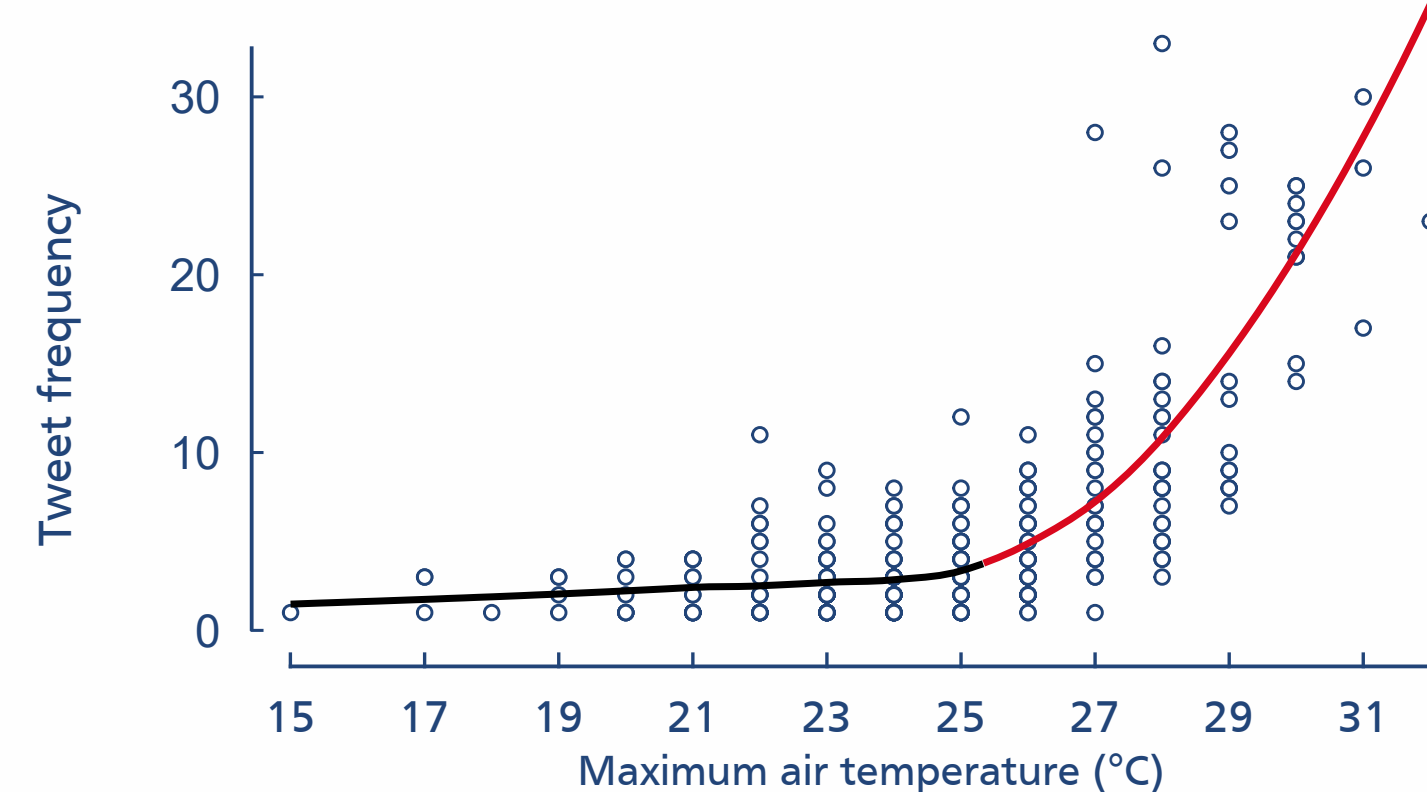
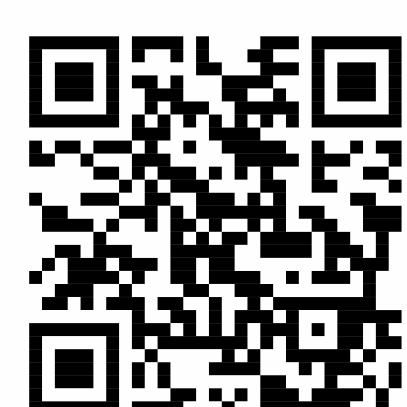
urban morphology

urban residents

I still have a headache and insomnia because of the stupid heat

Number of heat related tweets increases drastically at a 25°C threshold.

Reference: Lemoine-Rodriguez, R., Biewer, C., Inostroza, L., & Taubenböck, H. (2025). Online Concerns About Urban Heat: Social Media, Temperature, and Urban Form. 2025 Joint Urban Remote Sensing Event (JURSE), CFP25RSD-ART, 1–4. doi: 10.1109/JURSE60372.2025.11075998



Online discourse relates to urban form & function.

Reference: Jheng, D., Lemoine-Rodriguez, R., Biewer, C., Seto, K. C., & Taubenböck, H. (2025). The Relationship Between Urban Morphology and the Citizens' Social Media Footprints: A case study on Tokyo. 2025 Joint Urban Remote Sensing Event (JURSE), CFP25RSD-ART, 1–4. doi:10.1109/JURSE60372.2025.11076032