

Mariana de Brito, Taís Carvalho, Jan Sodoge, Christian Kuhlicke

Jan Sodoge (jan.sodoge@ufz.de)
I'm going to this drought conference in Geneva, any ideas what to present?

Taís Carvalho (tais.carvalho@informatik.uni-leipzig.de)
What is your key message?

Jan Sodoge (jan.sodoge@ufz.de)
Our **goal** is to show how text data can be instrumental in natural hazard research. The increase in text availability and recent advances in **natural language processing** and **machine learning** have opened up previously unforeseen opportunities. By using text data we can now investigate how droughts impact society and the adaptation measures taken.

Mariana de Brito (mariana.brito@ufz.de)
What about showing them how text-mining can detect drought impacts across different sectors from newspaper articles. And don't forget we used those to detect cascading impact patterns in Germany during the recent multi-year drought!

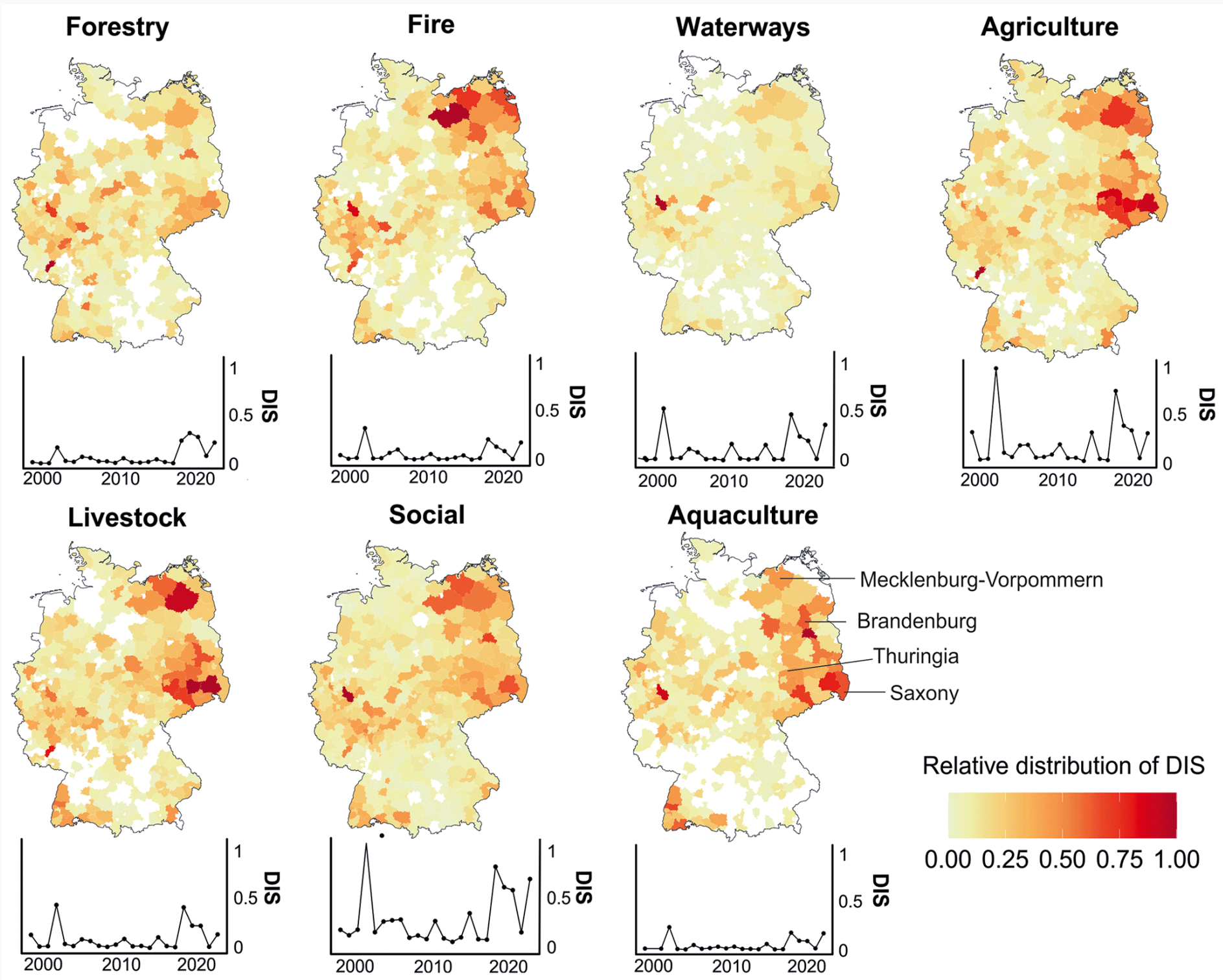


Figure 1: Spatial and temporal distribution of drought impact statements (DISs) between 2000–2022

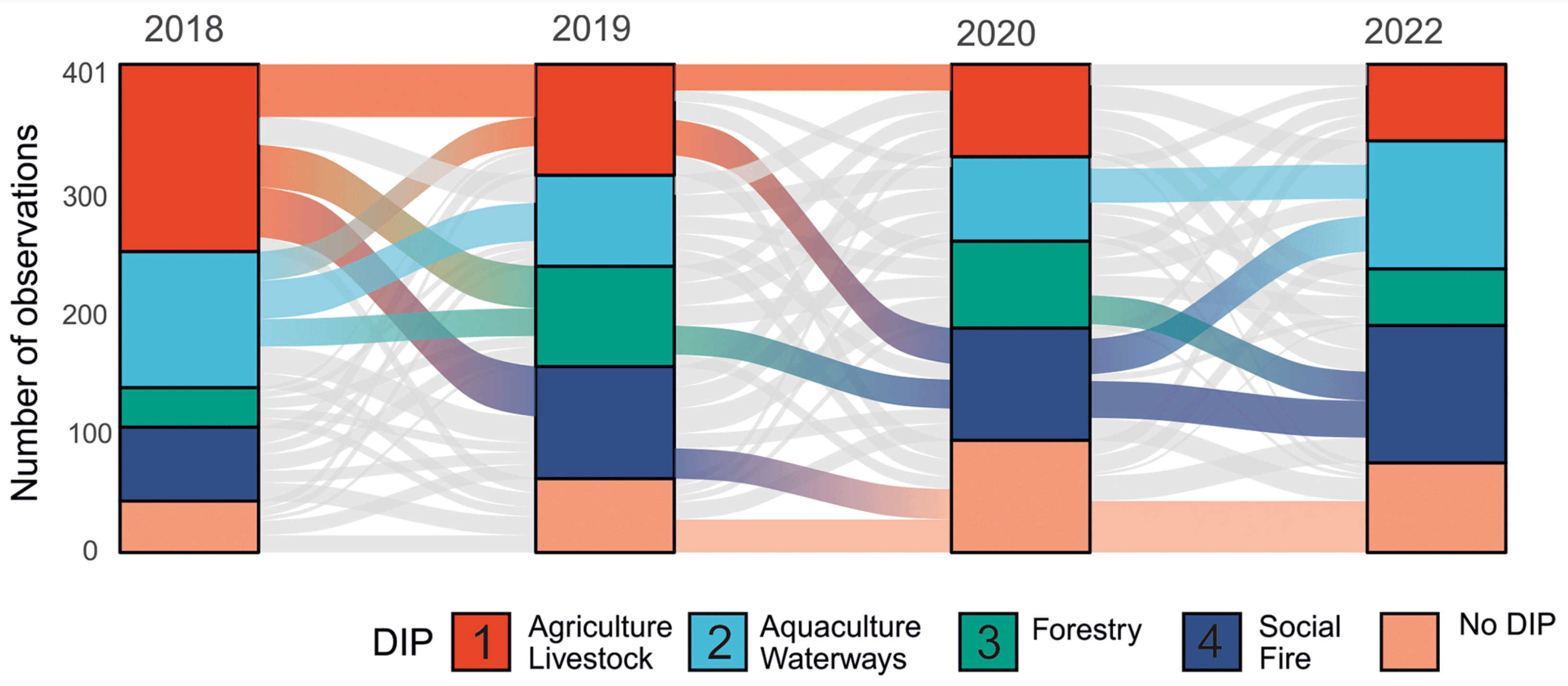


Figure 2: Transitions of drought impacts in German districts during the multi-year drought 2018–2022

Jan Sodoge (jan.sodoge@ufz.de)
Makes sense. @Taís, what about showcasing your research that shows how **minutes of meetings** of water committees in Ceará,Brazil, supported the investigation of **water allocation practices** as well as **powerful stakeholders**

Taís Carvalho (tais.carvalho@informatik.uni-leipzig.de)

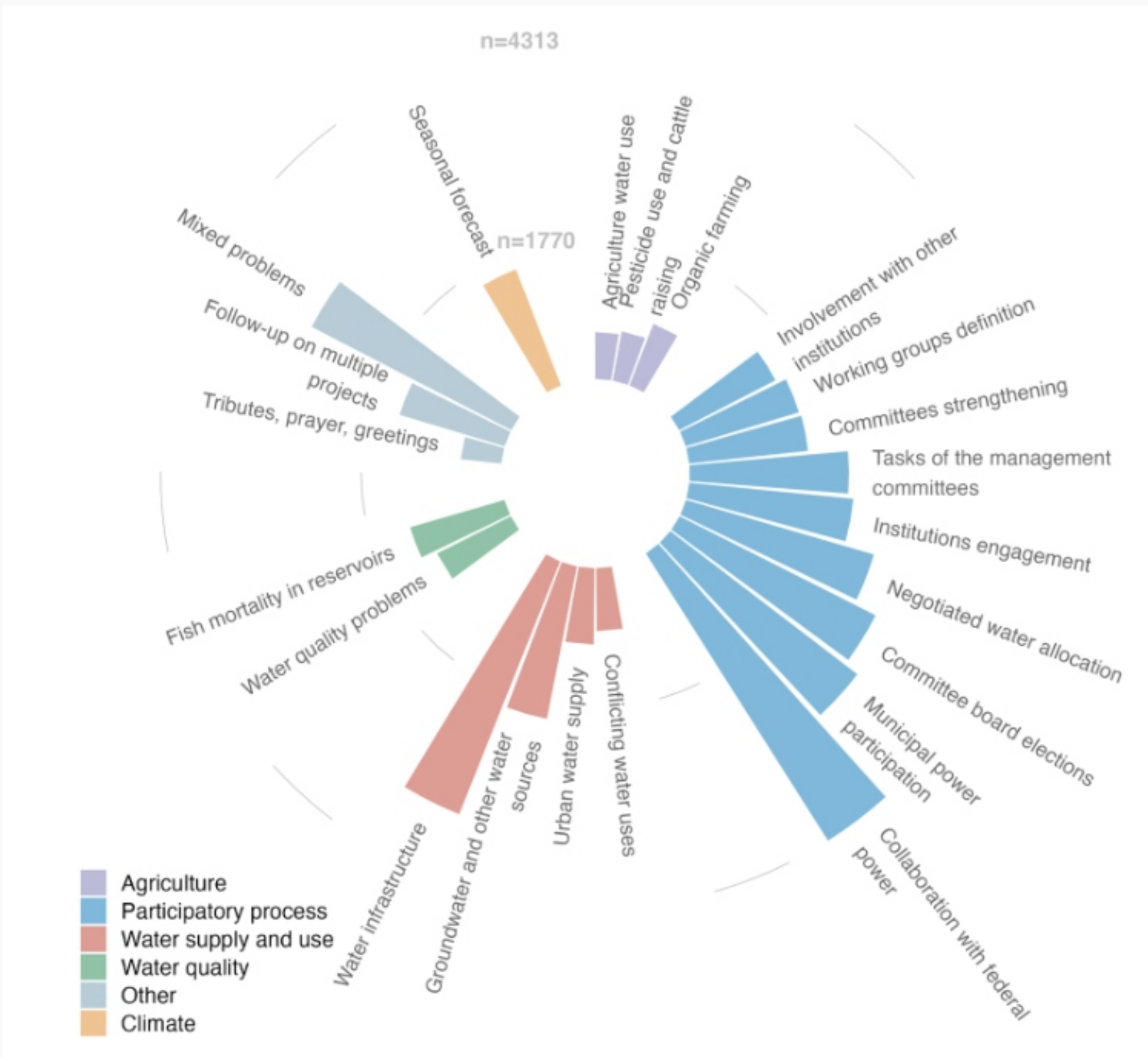


Figure 3: Total frequency of topic mentions in the corpus of meeting minutes, grouped by their main theme.

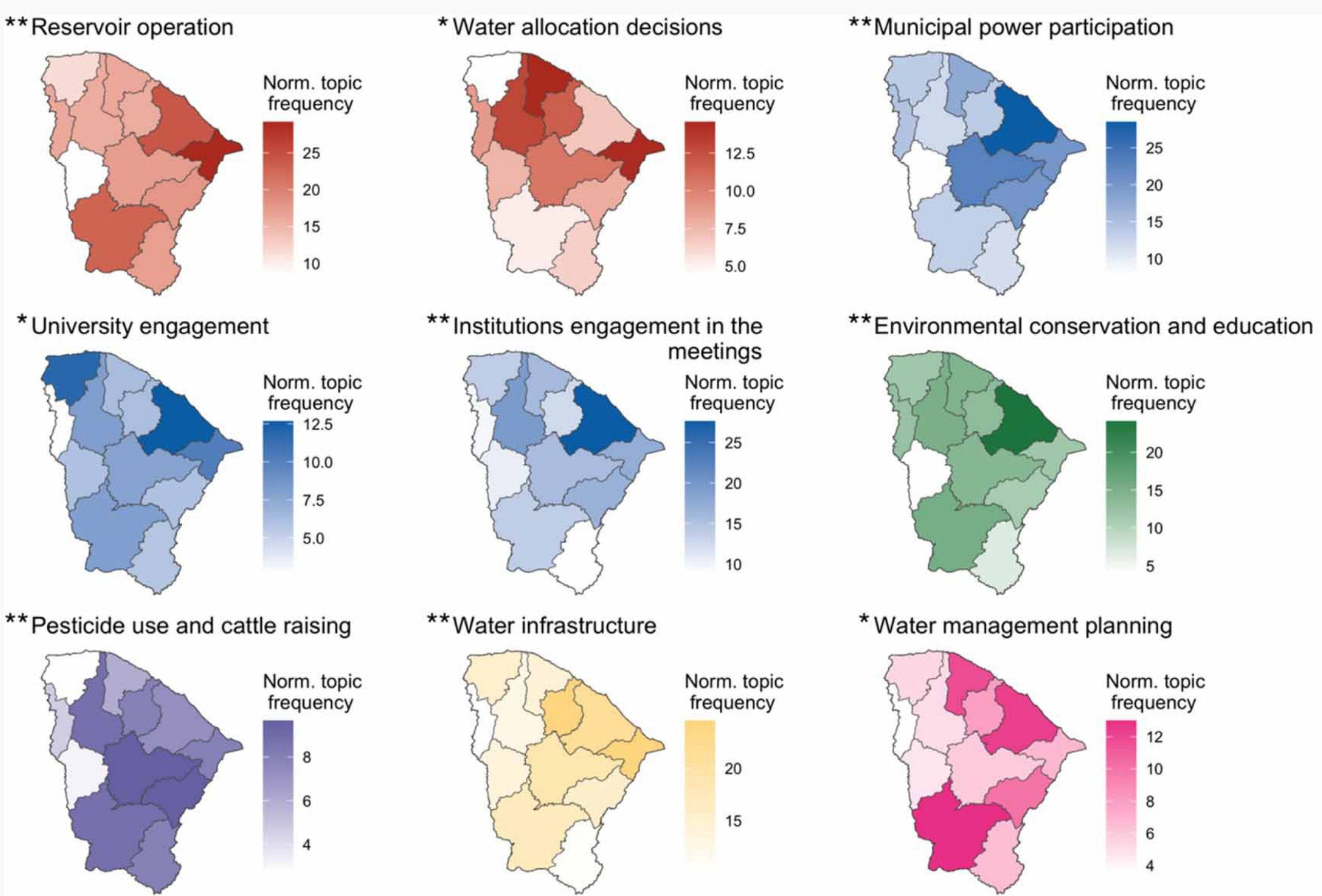


Figure 4: Normalized topic frequency per water basin

Mariana de Brito (mariana.brito@ufz.de)
Don't forget the swiss chocolate for your research group leaders ;)

