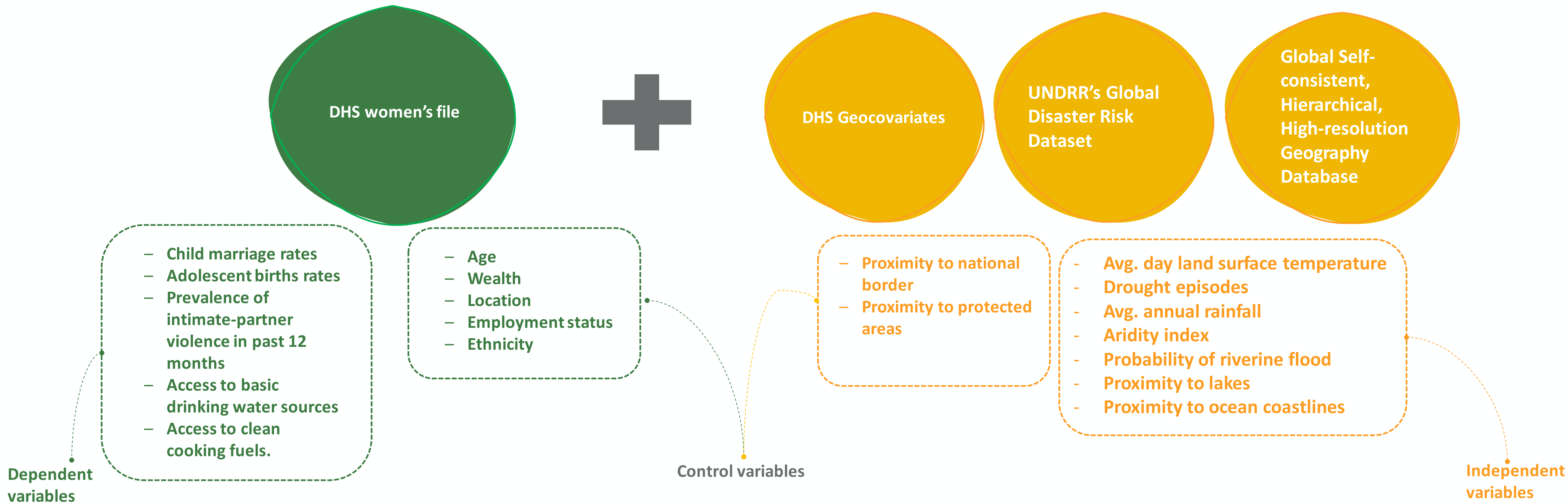


Using existing data to understand the gender-climate nexus

Sara Duerto Valero
Regional Office for Asia and the Pacific
UN Women

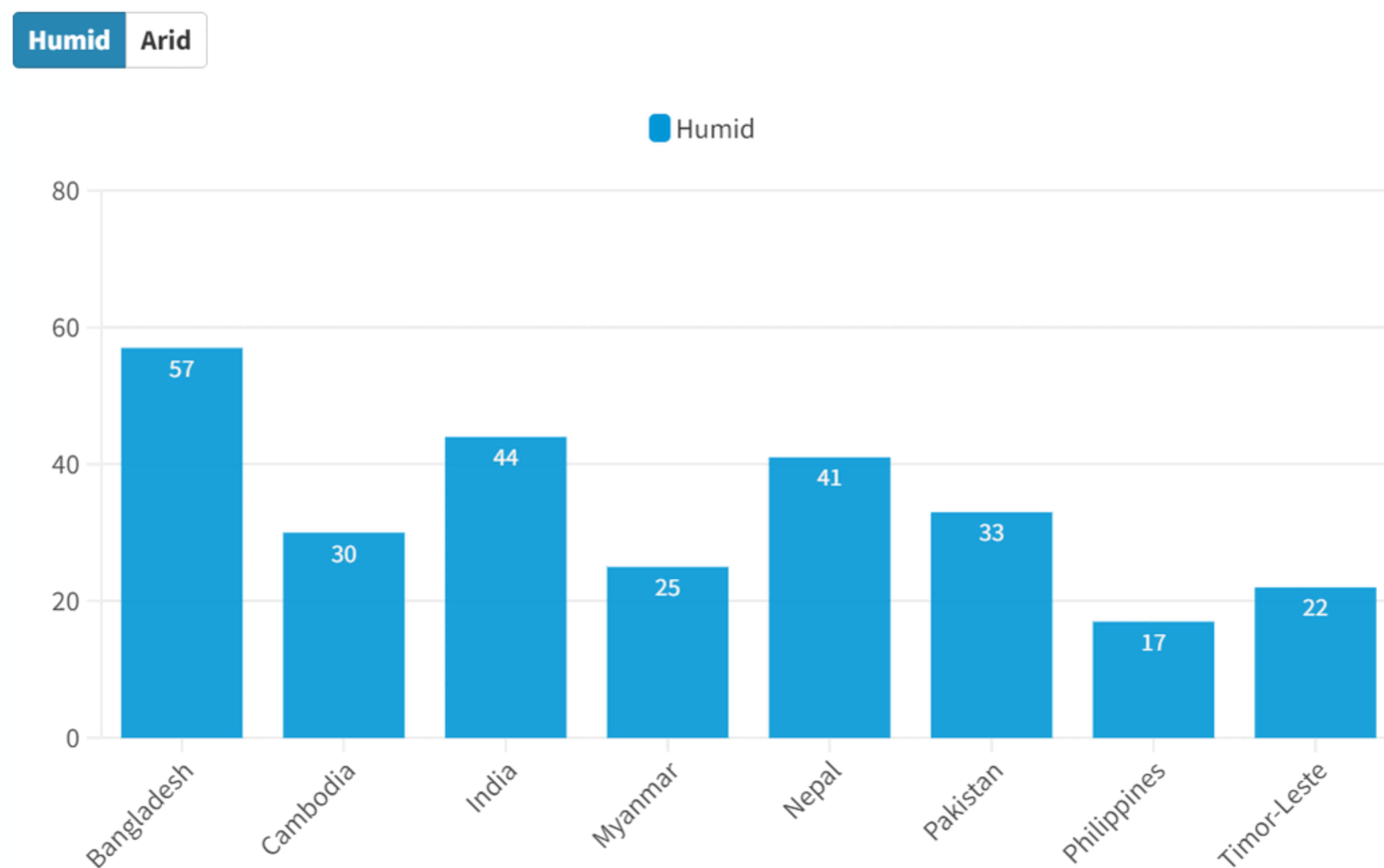
Data: Integrating pre-existing datasets

- Merge pre-existing datasets using unique identifiers (e.g. primary sampling unit/cluster no. , latitude, longitude)
- Merge DHS data with Geospatial information
- Latest available estimates for both GIS and DHS data
- **Two step approach: (1) Random Forest : to identify key variables ; Binary logistic regression : to explore nature of associations**

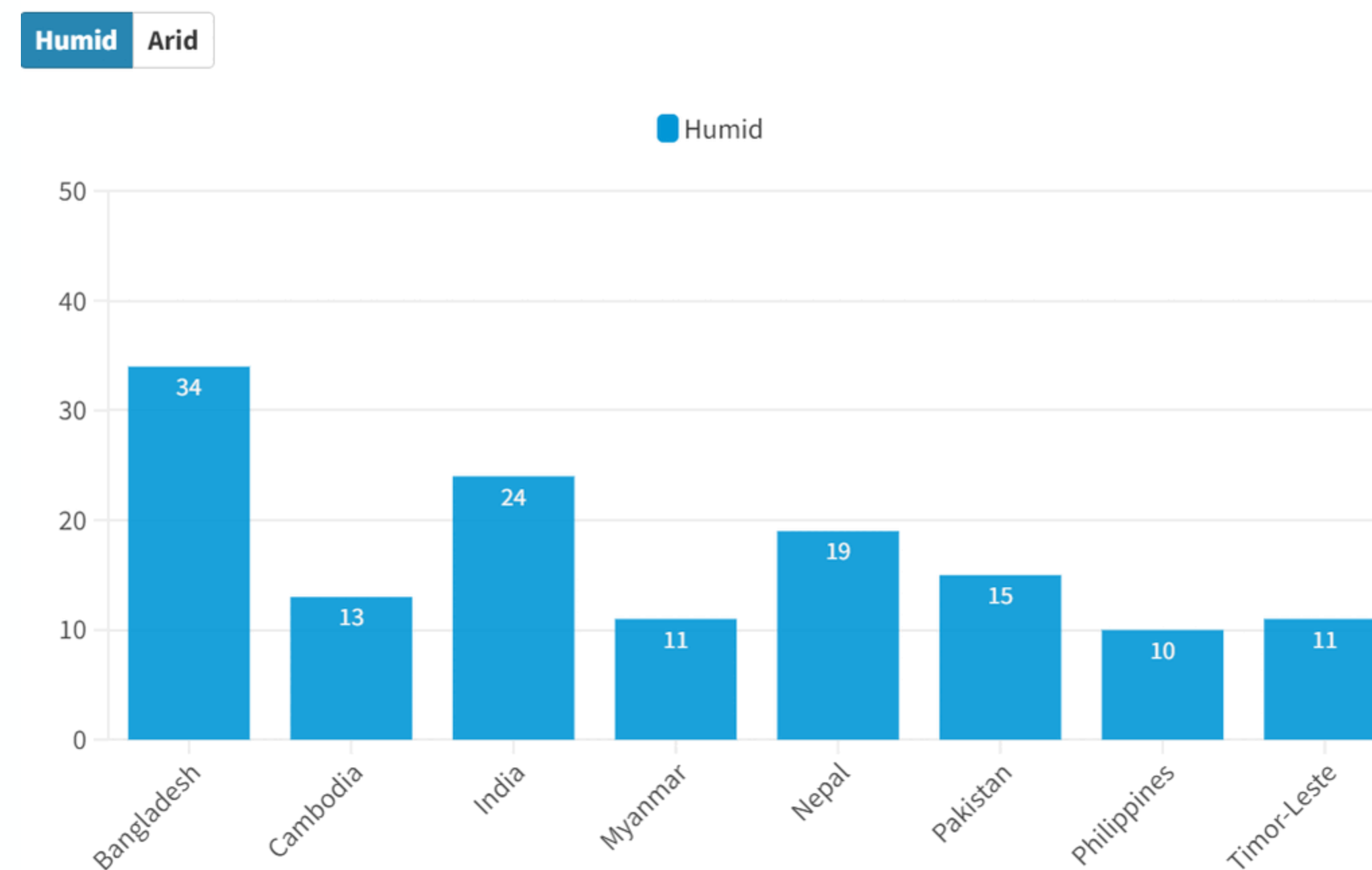


Aridity explains changes in child marriage and adolescent birth rates

Proportion of women ages 18-49 who were married before age 18, by aridity index, latest available year (percentage)

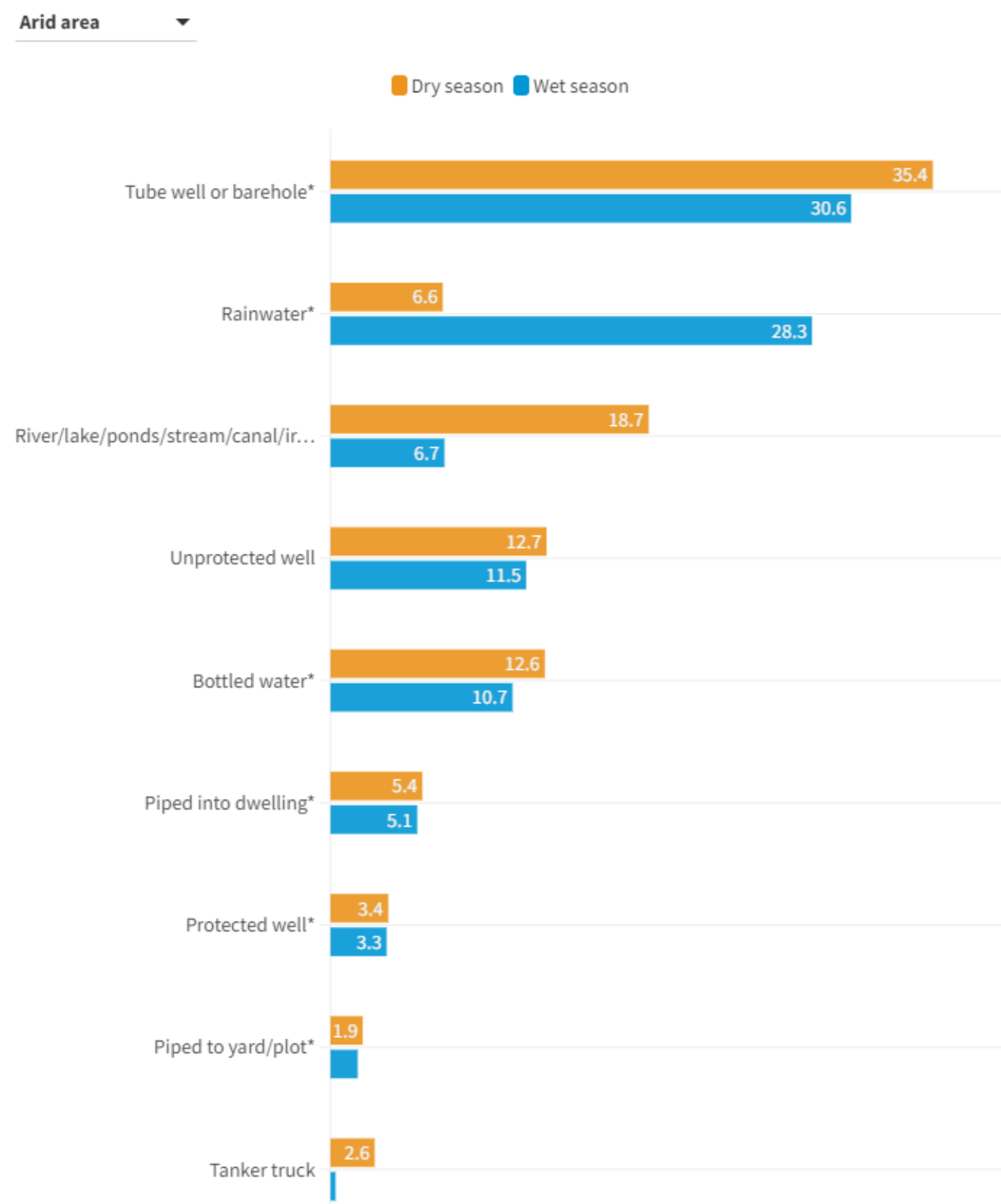


Proportion of women ages 18-49 who gave birth for the first time before age 18, by aridity index, latest available year (percentage)

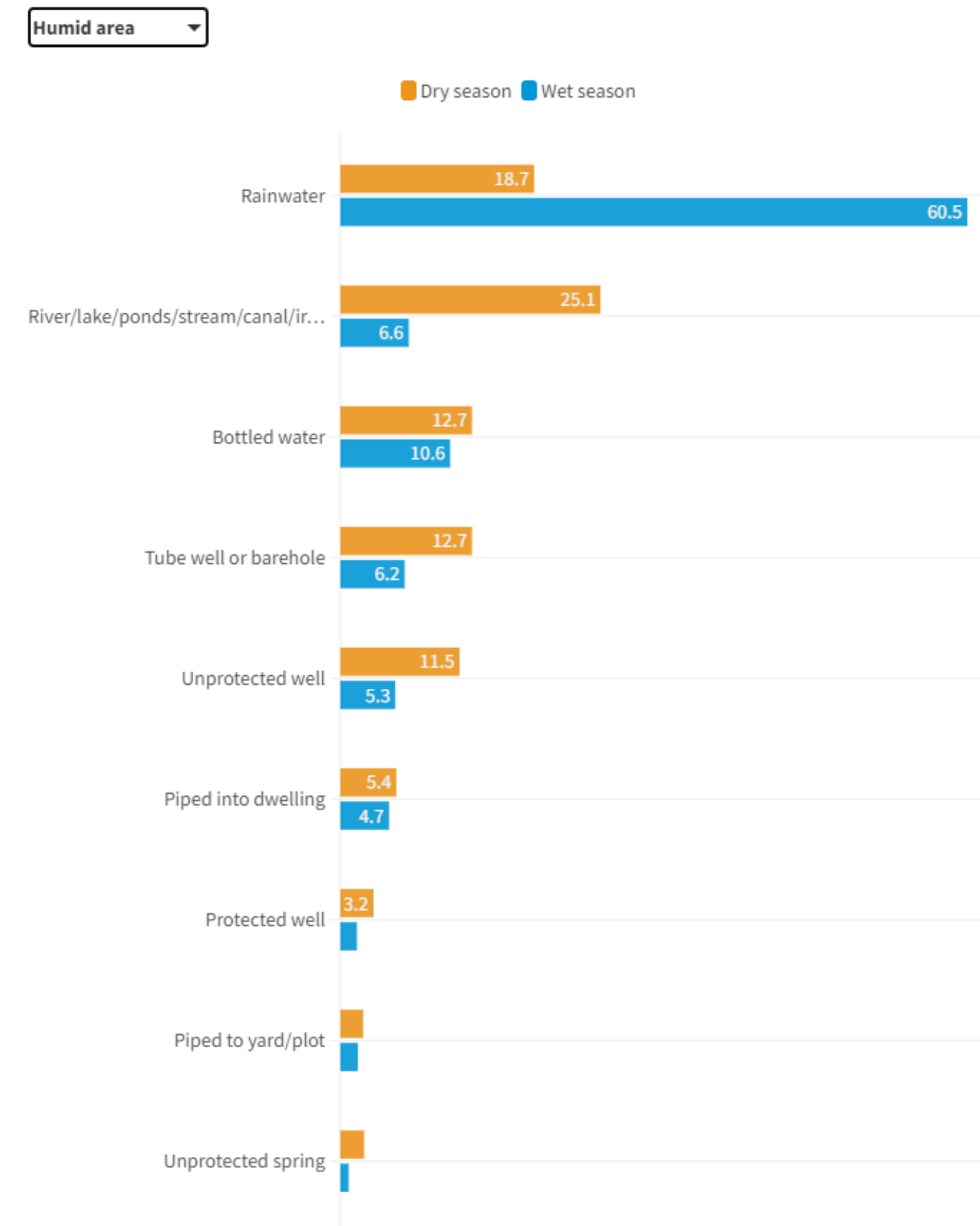


Aridity matters for access to clean drinking water, especially in humid areas

Main sources of drinking water among women living in humid and arid areas, Cambodia, dry and wet season (percentage)

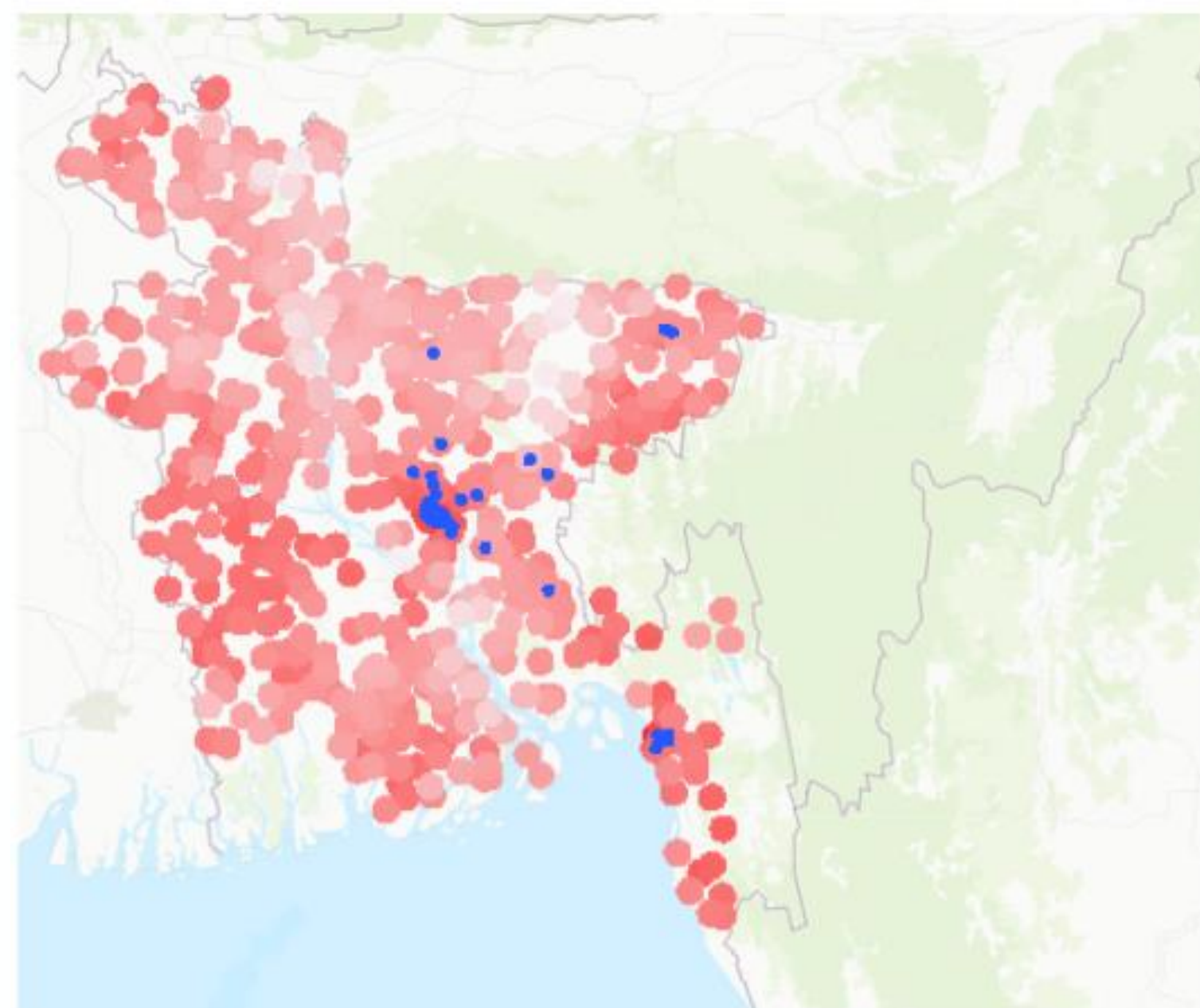


Main sources of drinking water among women living in humid and arid areas, Cambodia, dry and wet season (percentage)



Temperatures are associated with the use of clean fuels, as is infrastructure

Geographical distribution of clusters where women have more widespread access to clean cooking fuels, by average day land surface temperature, Bangladesh



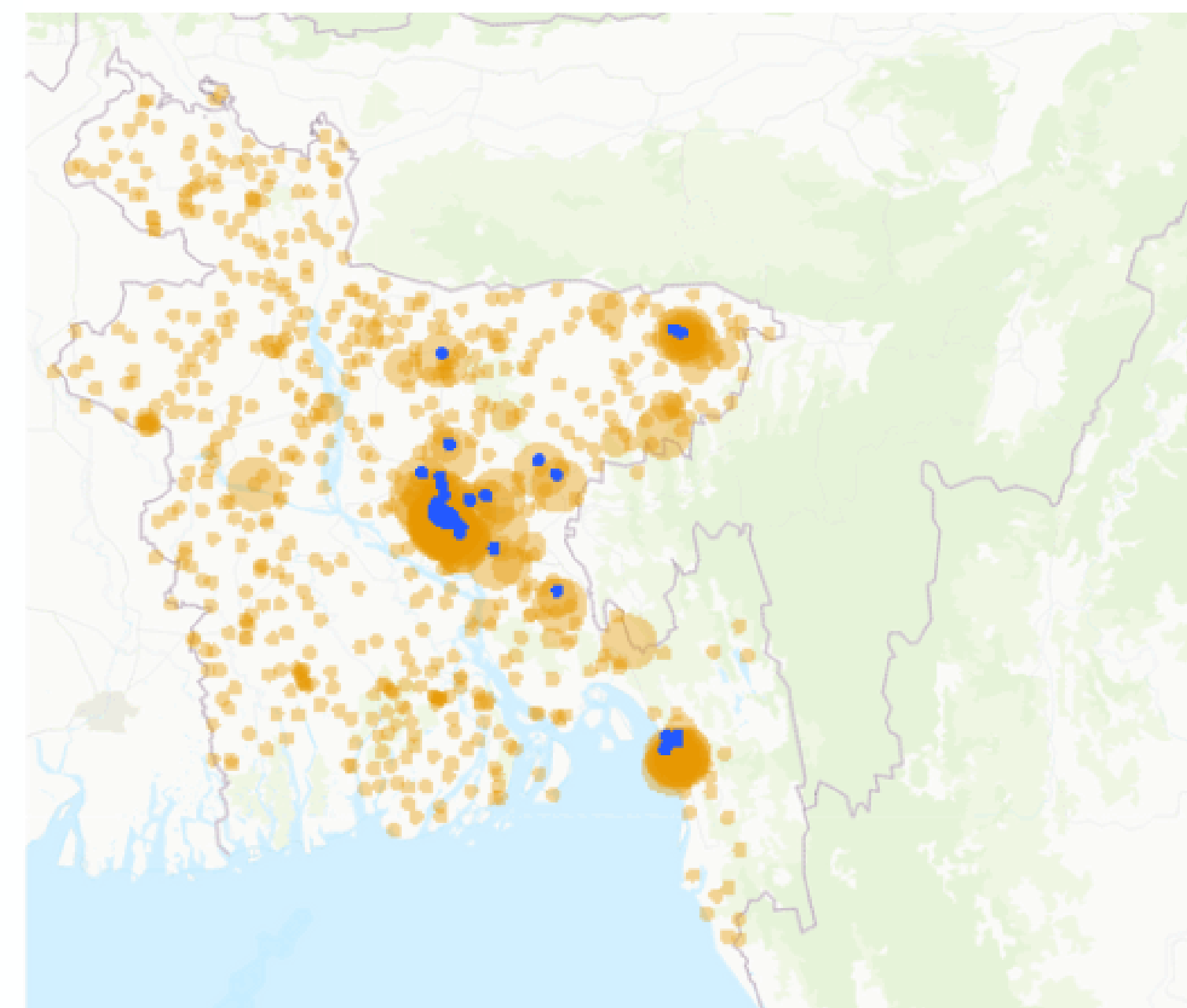
Black dots show geographical areas where women are more likely to use clean cooking fuels

Day land surface temperature (degree Celsius)



● More widespread access to clean cooking fuels

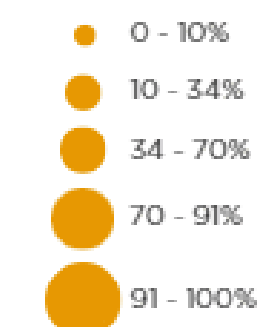
Geographical distribution of clusters where women have more widespread access to clean cooking fuels, by average day land surface temperature, Bangladesh



Orange bubbles represent the percentage share of women using natural gas as a primary fuel for cooking

● More widespread access to clean cooking fuels

Share of women using natural gas for cooking



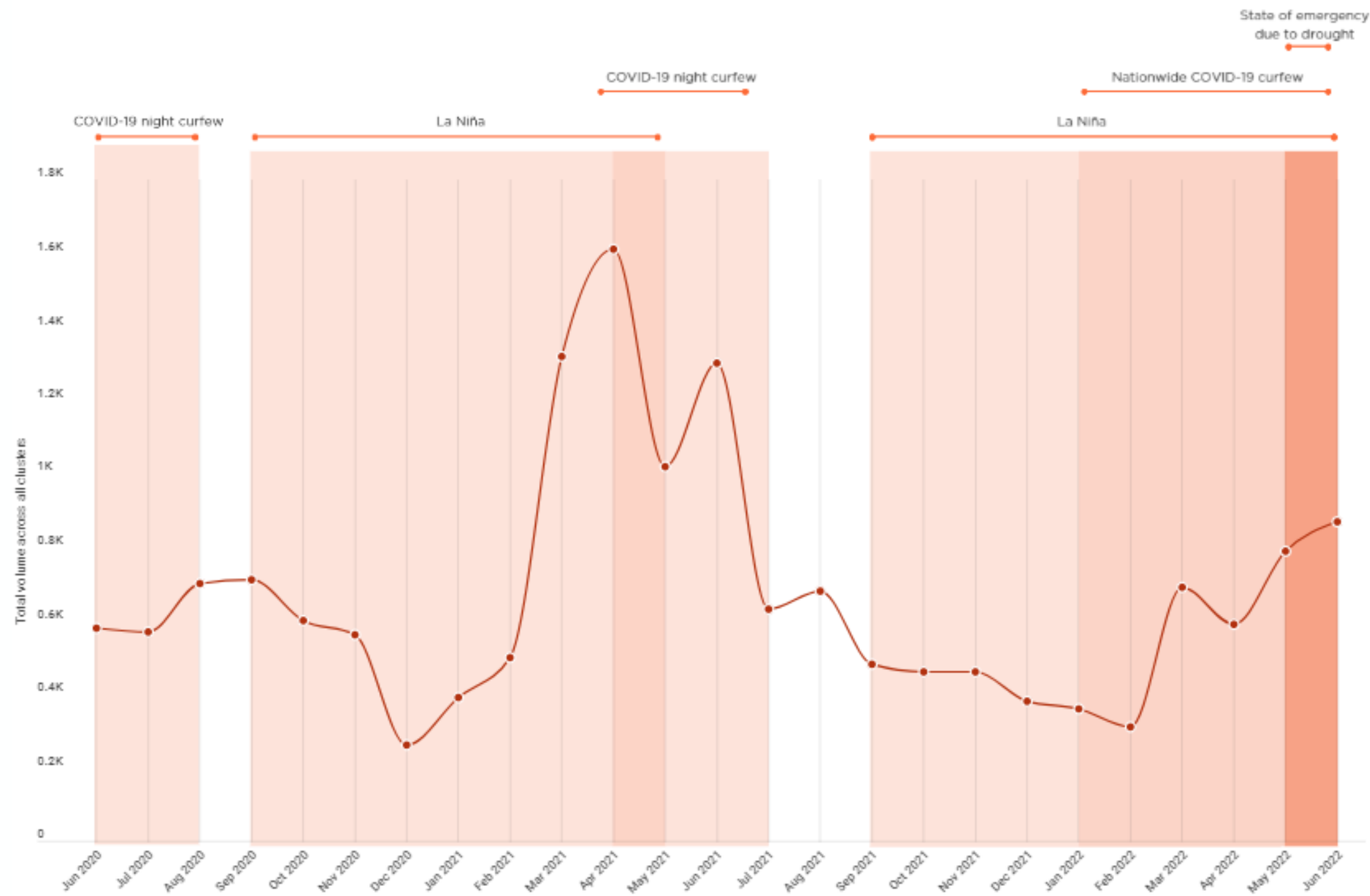
Data: Analyzing big data

- Using Google search data
- Indexation of VAW related wording
- Search classification:
 - General searches
 - Victim searches
 - Help-seeking searches
- Translation to local languages
- Comparing with real time events

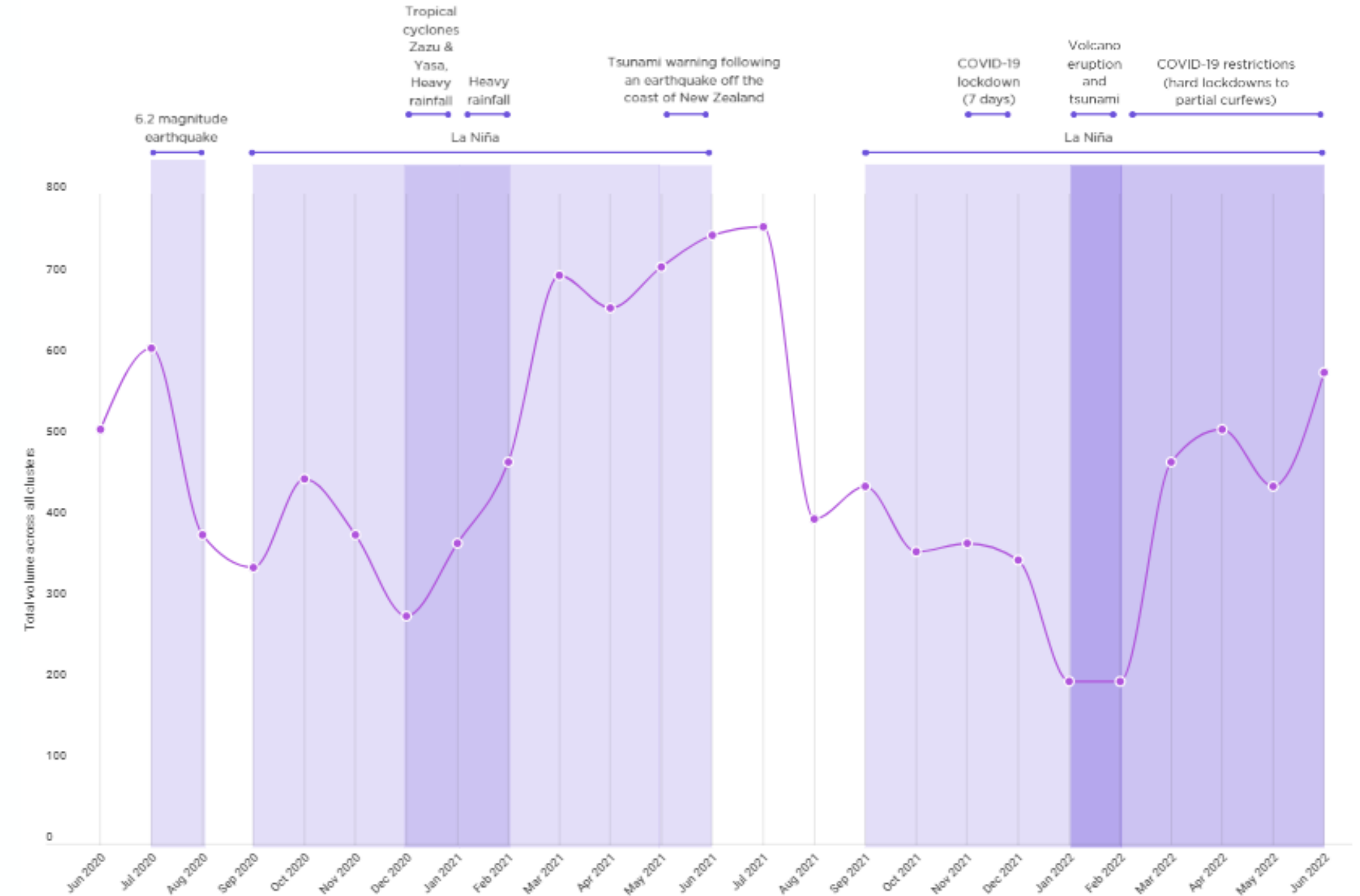


Women are more likely to seek VAW related help on-line during crises

Total Violence against women-related search volume, Kiribati



Total Violence against women-related search volume, Tonga



Thank you

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