

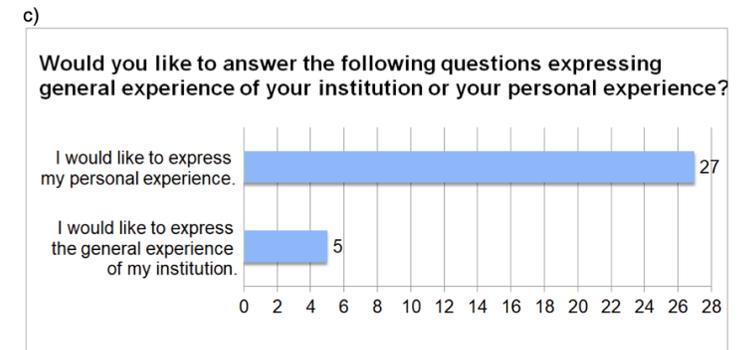
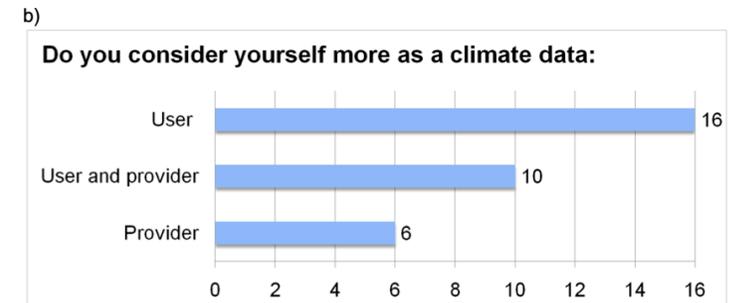
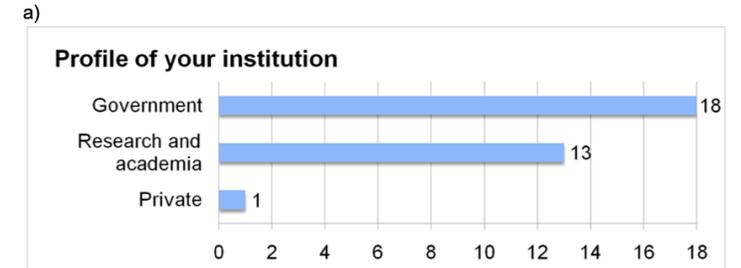
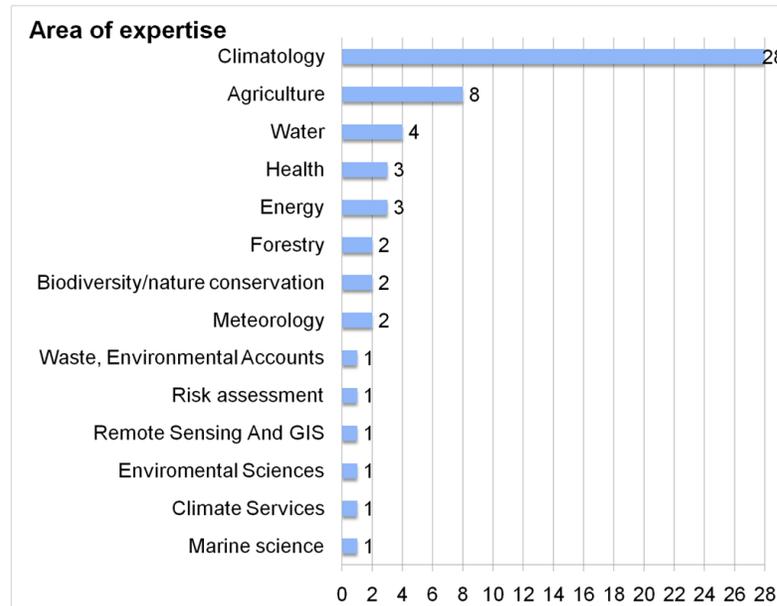
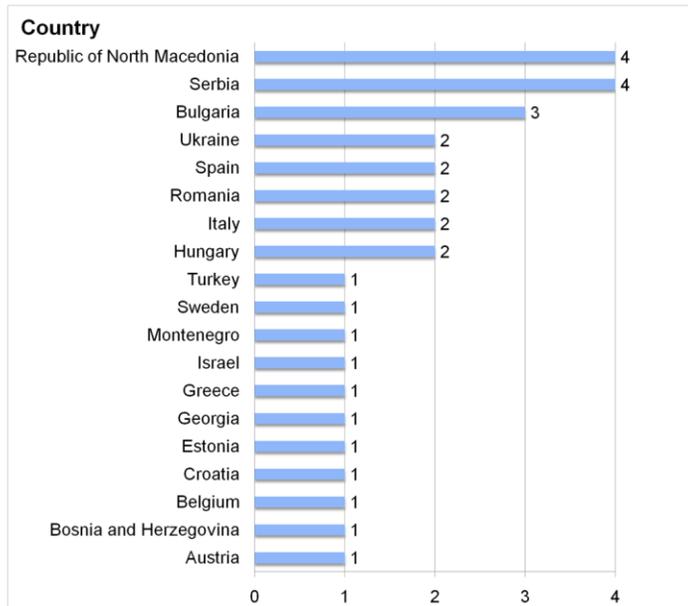
SURVEY Climate indices: Eastern European perspective

Aleksandra Krzic

Vladimir Djurdjevic, Janette Bessembinder, Lars Barring,
Irida Lazic, Milica Tomic, Katarina Veljovic

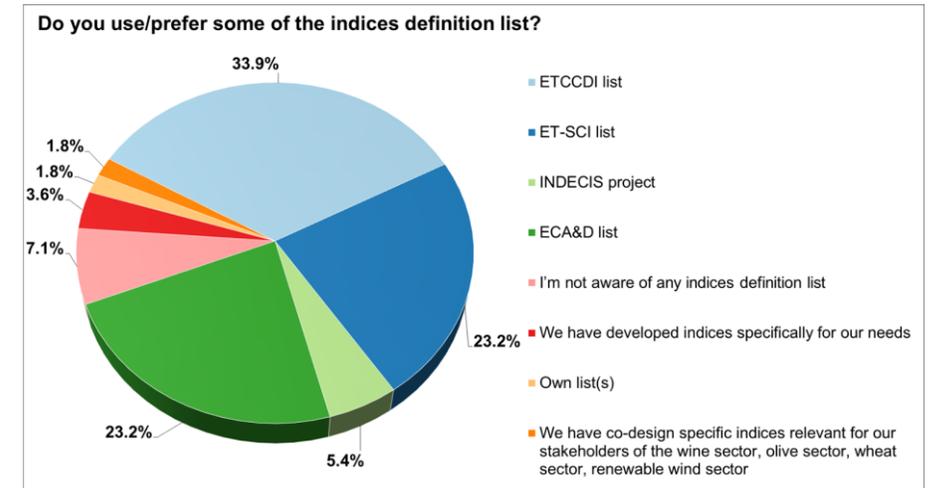
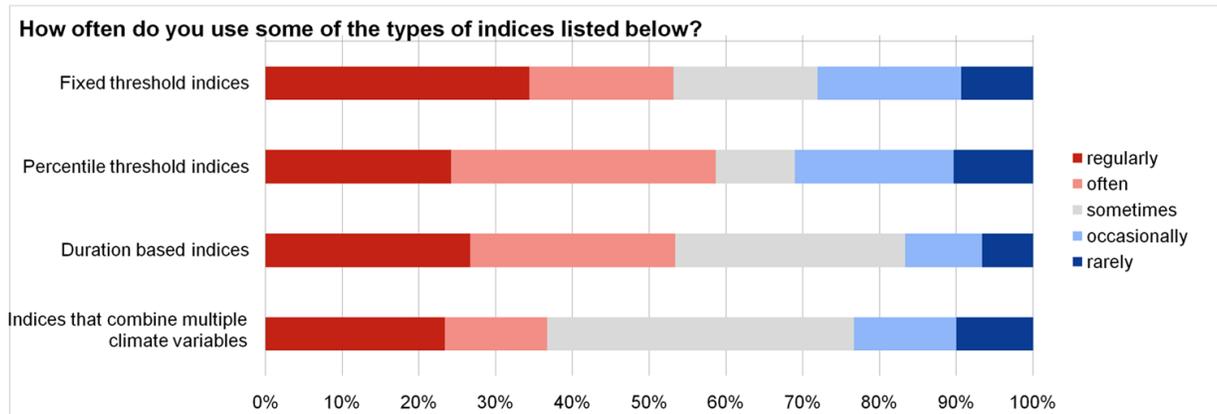
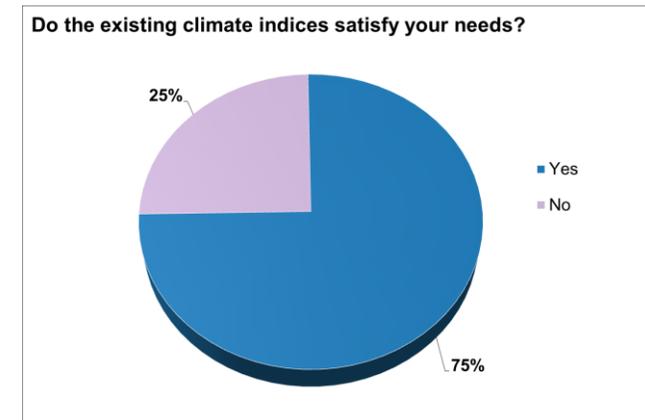
SURVEY Overview

- Initial meeting: 17th May, 2021
- Online survey: 32 participants from 19 countries
- Six online interviews with representatives from: Bulgaria, Estonia, Republic of North Macedonia, Romania, Serbia and Turkey



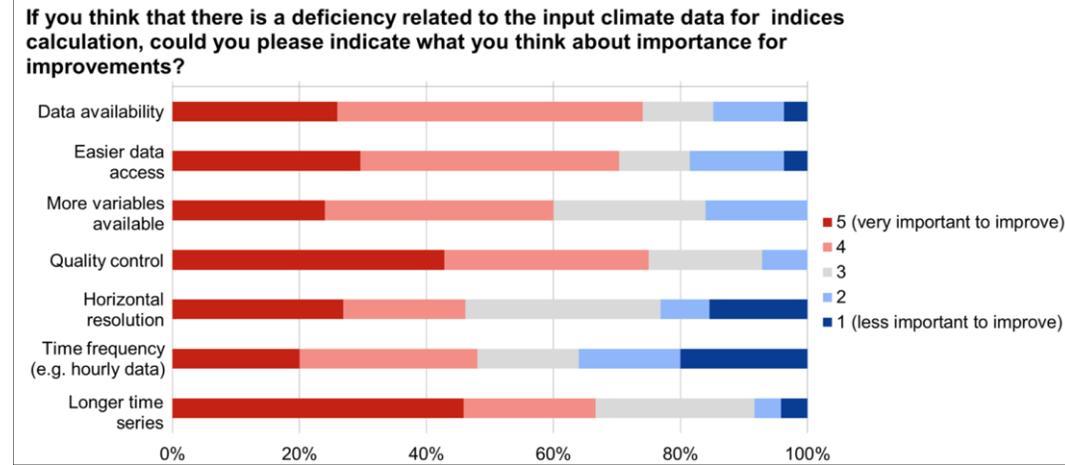
Indices definitions

- Commonly used indices definition lists: **ETCCDI**, **ET-SCI**, **ECA&D**
- Modification of existing definitions and/or development of new
- Implementation of complex indices
- The usage of indices: fixed & percentile threshold indices, duration based indices and indices that combine multiple climate variables
- **As complexity of the indices types increases, the general use decreases**

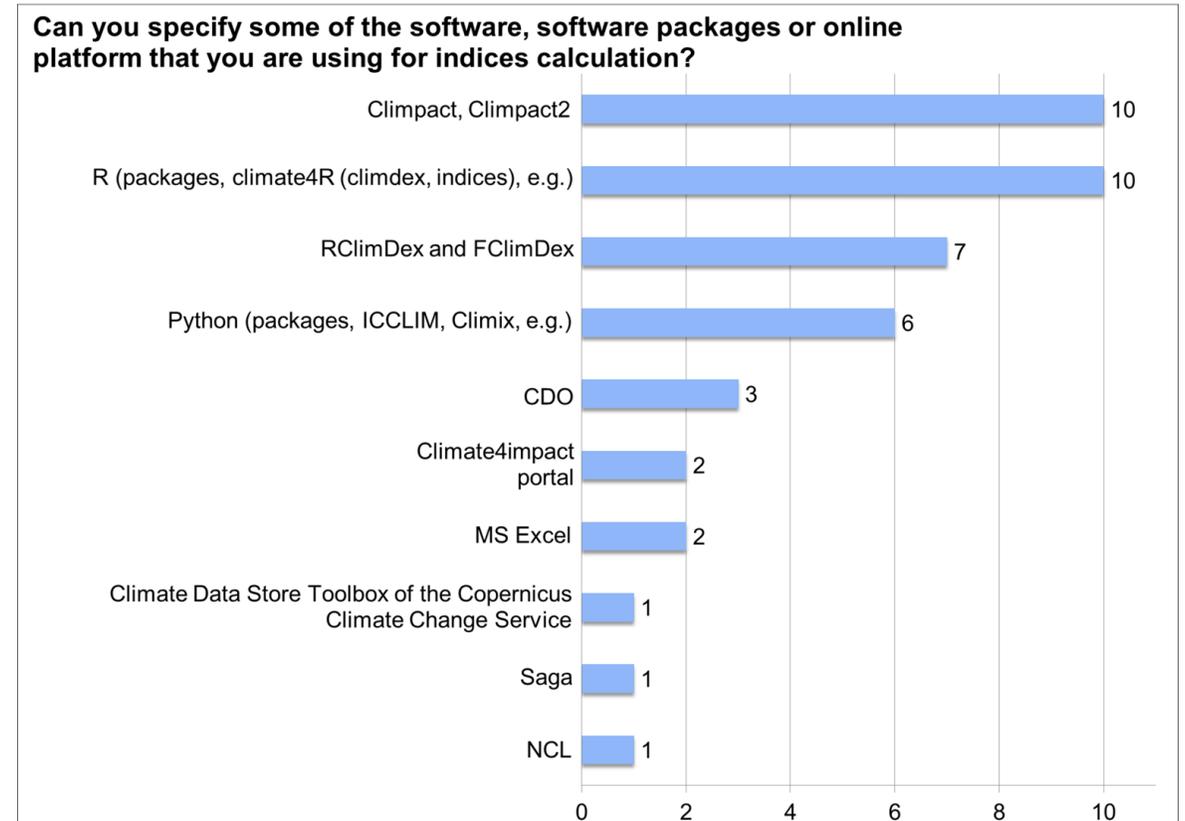
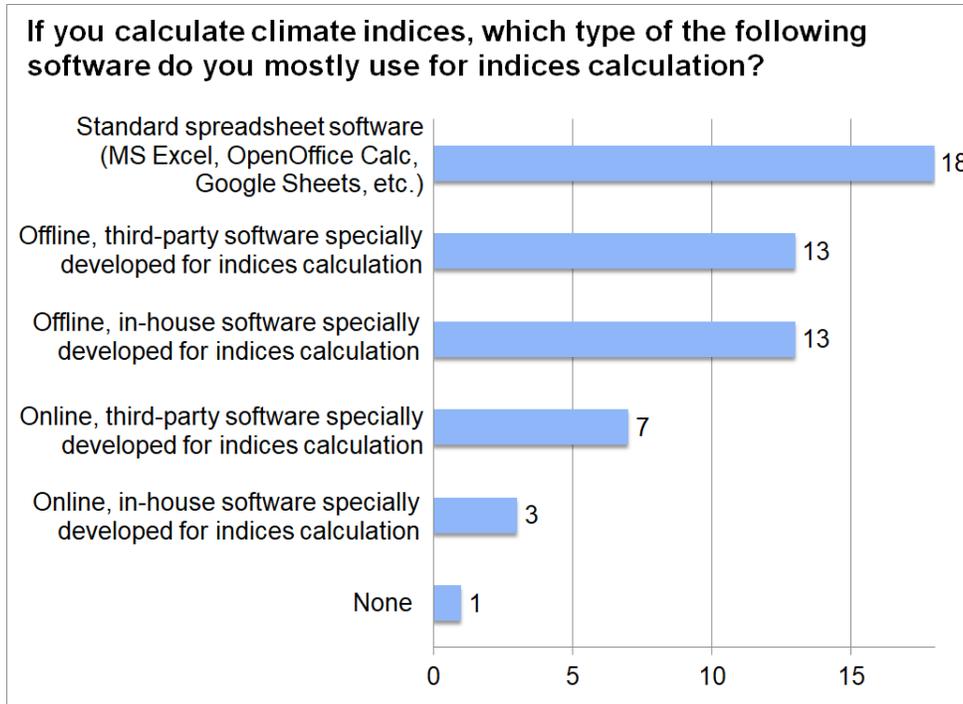


Approach to indices calculation and data sources

- Importance for data improvement
- **Additional comments & recommendations:**
 - increasing the density of the meteorological station network
 - homogenization of data
 - extending data sets' coverage back in time
 - improvement of high-resolution gridded observations and regional reanalyses
 - easier data access (downloading)
 - stricter adherence to format convention and rules
- **Already calculated indices:**
 - need for more metadata information
 - need for additional sectoral indices
 - improvement of the quality of high-resolution downscaled products
 - to present an economic value of the products in addition to forecast skill
- **Improvement of graphical products:**
 - available as different georeferenced raster formats

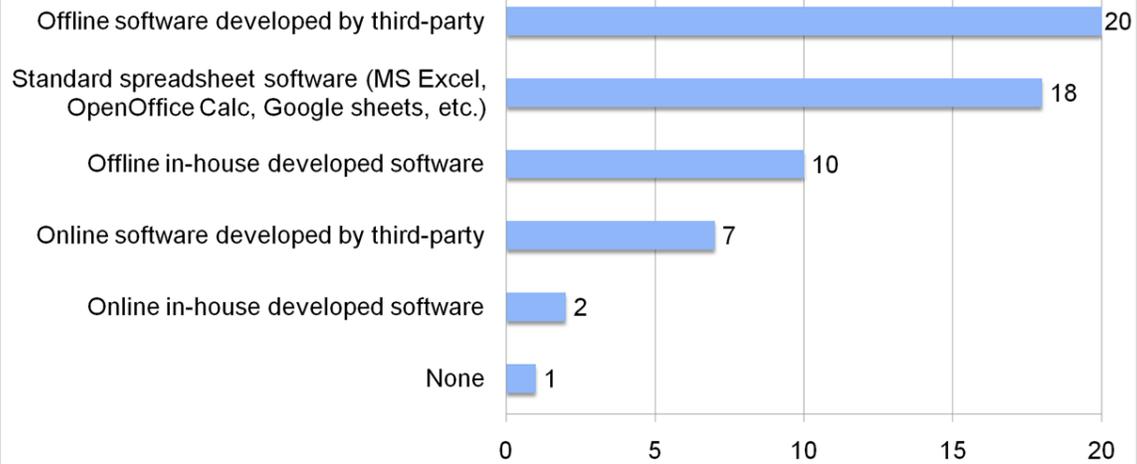


Software: indices calculation

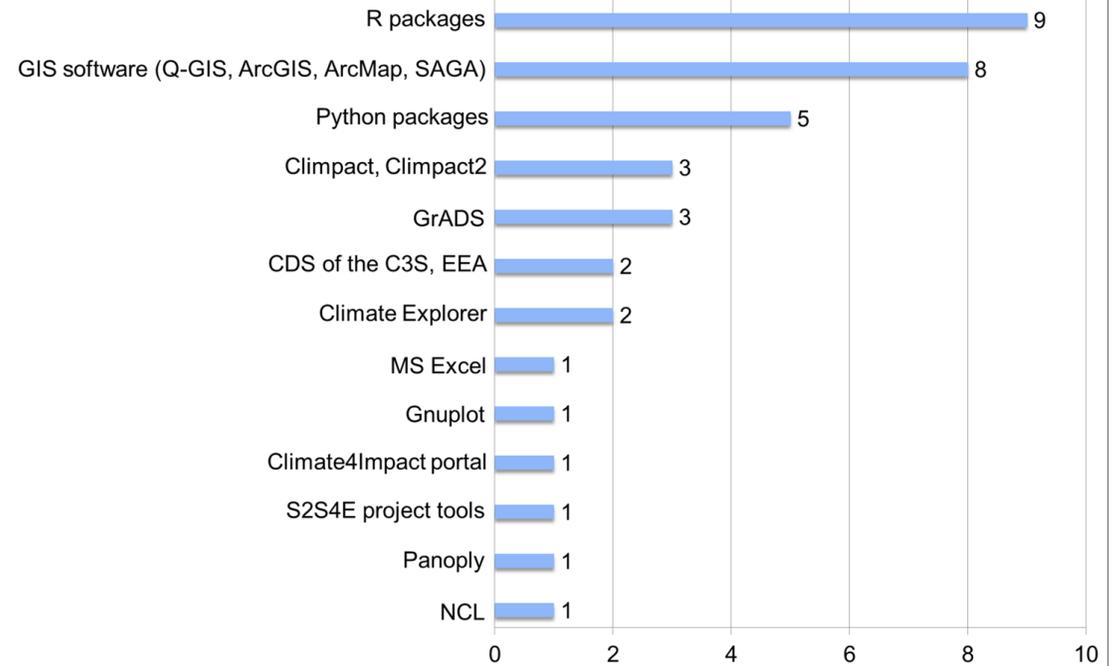


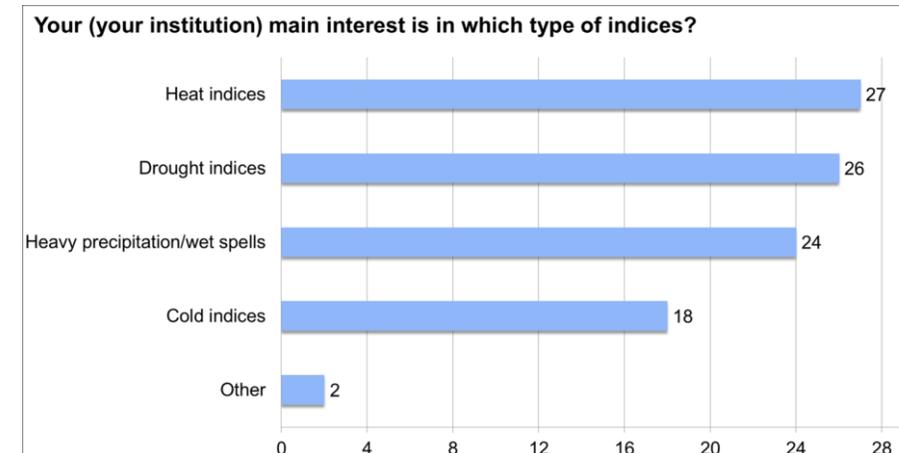
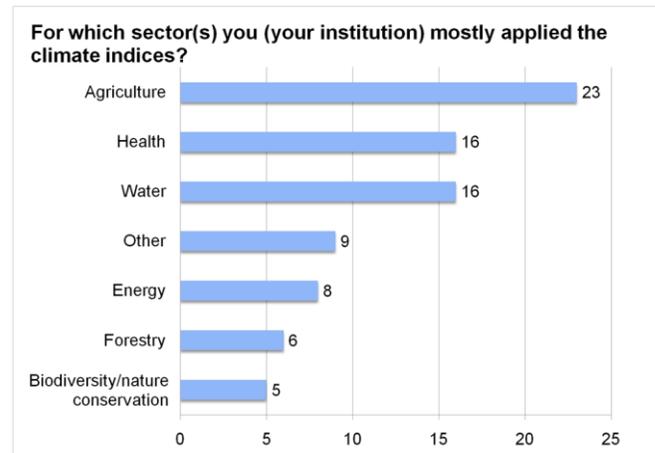
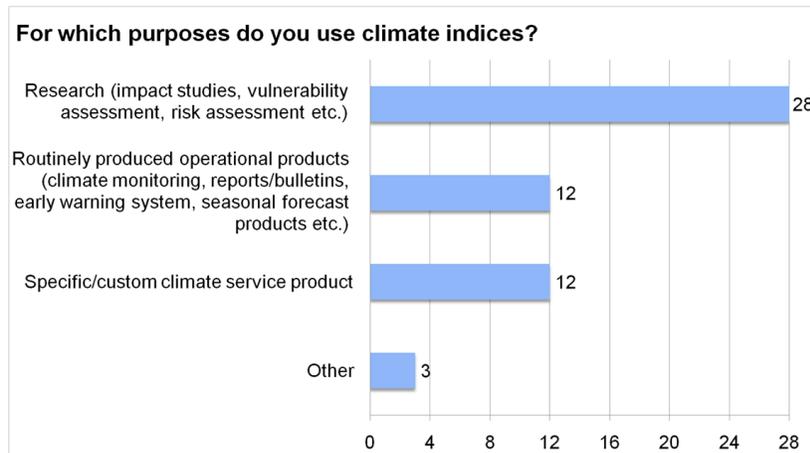
Software: indices visualization

Which of the following software do you use for indices visualization?



Can you specify some of the software, software packages or online platform that you are using for indices visualization?





- **“Other” purposes of climate indices use:**
 - sectoral climate change adaptation and mitigation studies
 - climate risk management
 - providing regional "basic" climate information to policymakers, schools and others
 - preparation of climate services products for different European projects
- **“Other” sectors of climate indices application:**
 - Marine science
 - Regional climatology
 - Tourism
 - DRR
 - General public
 - Retail
- **Interest in “Other” type of climate indices:**
 - indices related to wind
 - multi-sectoral indices like Thermal stress indices and Heating Degree Days

THE CONSORTIUM

Coordinated by CNRS-IPSL, the IS-ENES3 project
gathers **22 partners** in **11 countries**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°824084



Our website
<https://is.enes.org/>



Follow us on Twitter !
@ISENES_RI



Contact us at
is-enes@ipsl.fr



Subscribe to the IS-
ENES3 H2020
Youtube channel !