

## Scientists Have a Sharing Problem

To address current global challenges and achieve the SDGs in the land-use sector, monitorization and evaluation using remote sensing technologies are essential. The Copernicus program makes available unprecedented free and open Earth observation data.

However, in order to improve our remotely sensed based machine learning models, it is of utmost importance to **train data** in the form of in-situ or annotated land-use or land cover data, which are based on the visual interpretation of aerial photographs or very high-resolution satellite data. Without sufficient training data, many land-use and land cover maps lack sufficient quality.



Land-use data currently available

Tools and projects to close current gaps

Current limitations to data sharing

## ESA WorldCereal

<https://blog.vito.be/remotesensing/worldcereal-benchmarking>

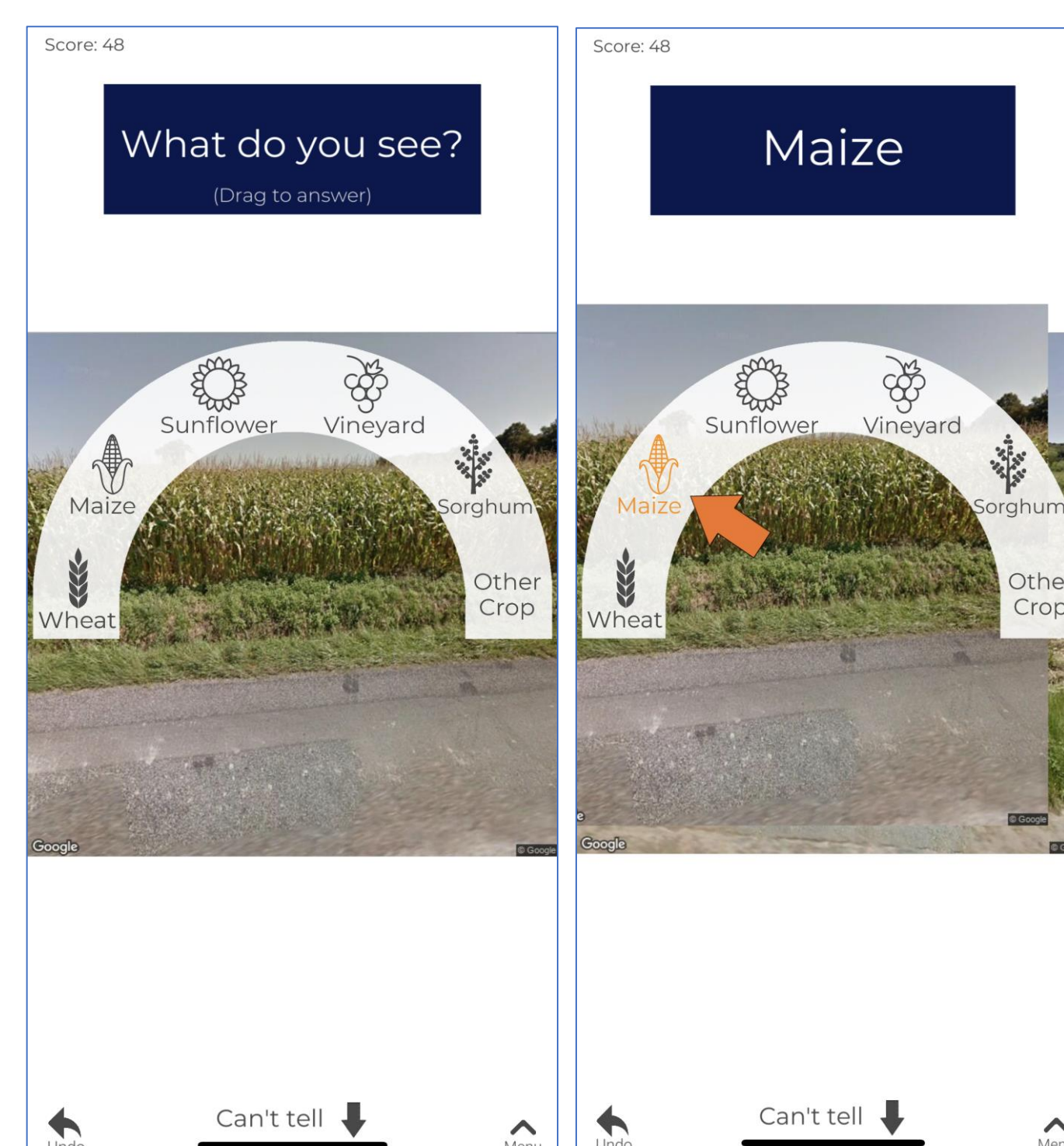
<https://blog.vito.be/remotesensing/worldcereal2020>

## Other data sets

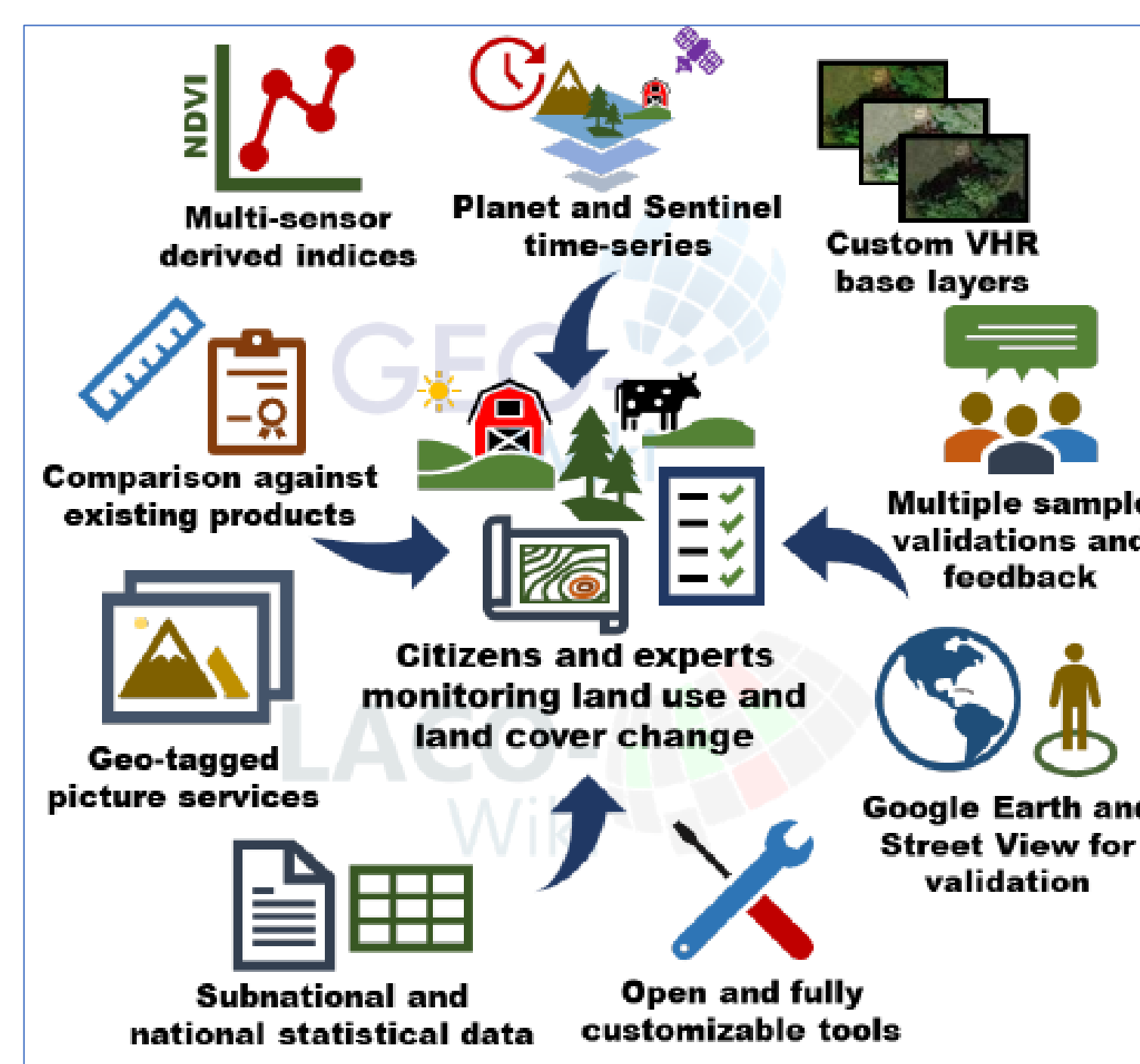
Lesiv et al., (2022). Global forest management data for 2015 at a 100 m resolution. Scientific Data, 9(1), 199. <https://doi.org/10.1038/s41597-022-01332-3>

Fritz et al., (2017). A global dataset of crowdsourced land cover and land use reference data. Scientific Data, 4(1), Article 1. <https://doi.org/10.1038/sdata.2017.75>

## Picture Pile



## Geo-Wiki Toolbox



What do I want?	
I care about sharing improvements	I want it simple and permissive
Open-Source Software	
MIT License	HNU GLPV3
Creative Commons	
Attribution	Attribution-ShareAlike
What can others do?	
People can do anything they want with your data/code as long as they give appropriate credit	Anyone who distributes your data/code, or a derivative work, must follow the same terms
More licenses: <a href="http://www.choosealicense.com">www.choosealicense.com</a> <a href="http://www.creativecommons.org/choose/">www.creativecommons.org/choose/</a>	
Fully open?	
<ul style="list-style-type: none"> <li>Community improves documentation tests code and verifies it</li> <li>Map coverage service – data directly accessible</li> <li>Discoverable via Catalogue</li> <li>Download button on a website</li> <li>ftp download</li> <li>You can contact me under: email@here.com</li> </ul>	

What do YOU think are obstacles to data sharing?

<https://meetingorganizer.copernicus.org/EGU23/session/45403>