

The Geo-Quest mobile application

Easy and accurate Earth Observation-enhanced
ground data collection

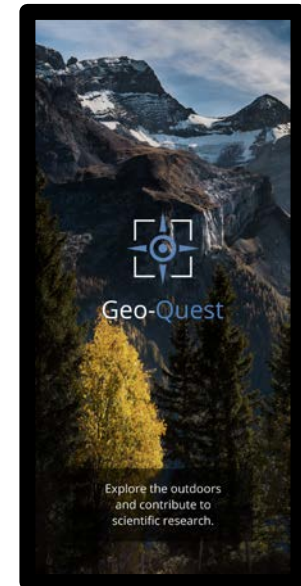
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Lindsay Crocket, Anto Subash, Linda See, Steffen Fritz, Ian McCallum



Novel Data Ecosystems for Sustainability

Advancing Systems Analysis (ASA)

International Institute for Applied Systems Analysis (IIASA)

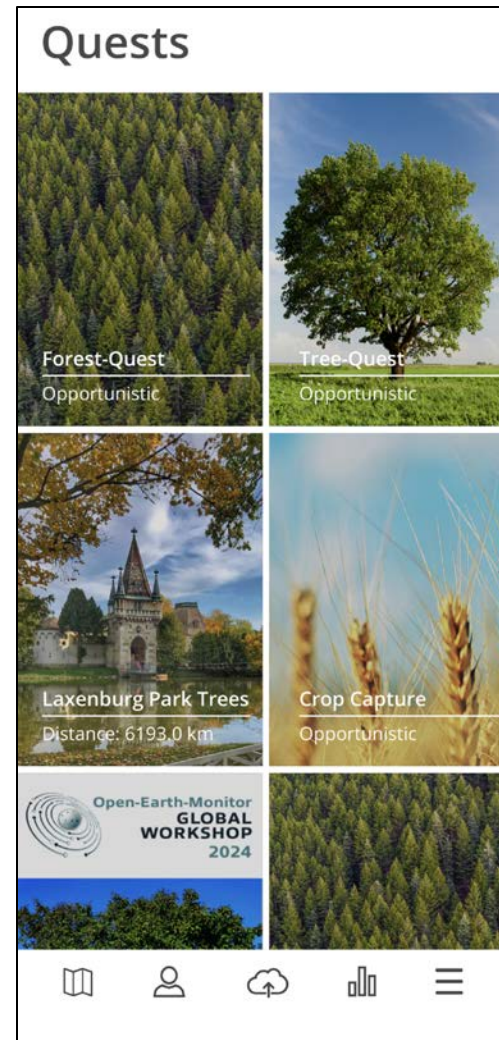


Download the app here:



<https://geoquest.iiasa.ac.at/>

Geo-Quest is a mobile app for **collecting high-quality ground reference data** to improve AI models and remote-sensing applications



<https://geoquest.iiasa.ac.at/>

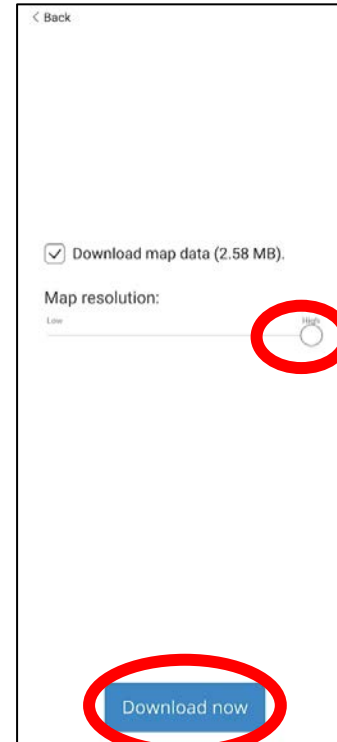
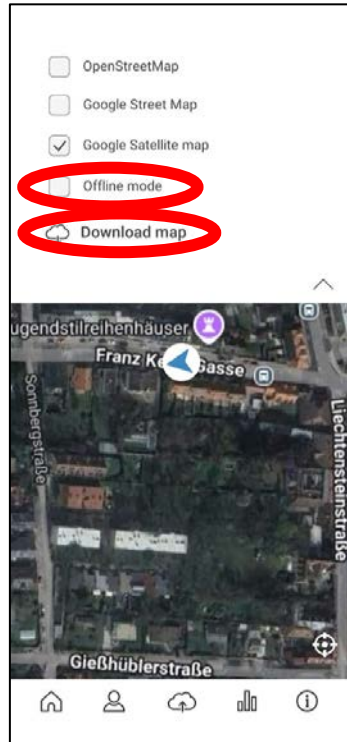


In **Geo-Quest**, you can register and **create a free account** to upload your surveys



<https://geoquest.iiasa.ac.at/>

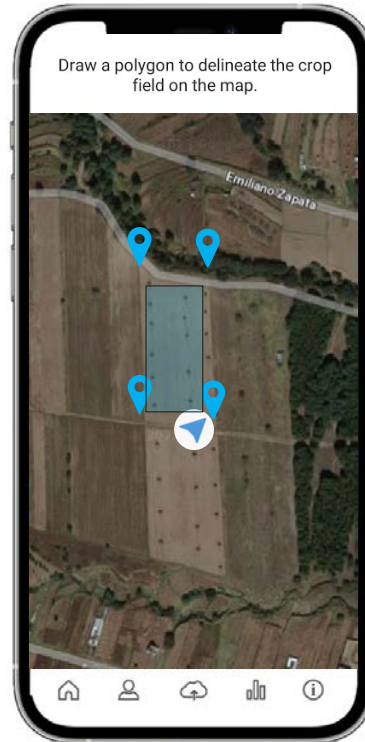
Geo-Quest employs multiple features that facilitate ground data collection



Access to **offline satellite imagery**



Geo-Quest employs multiple features that facilitate ground data collection

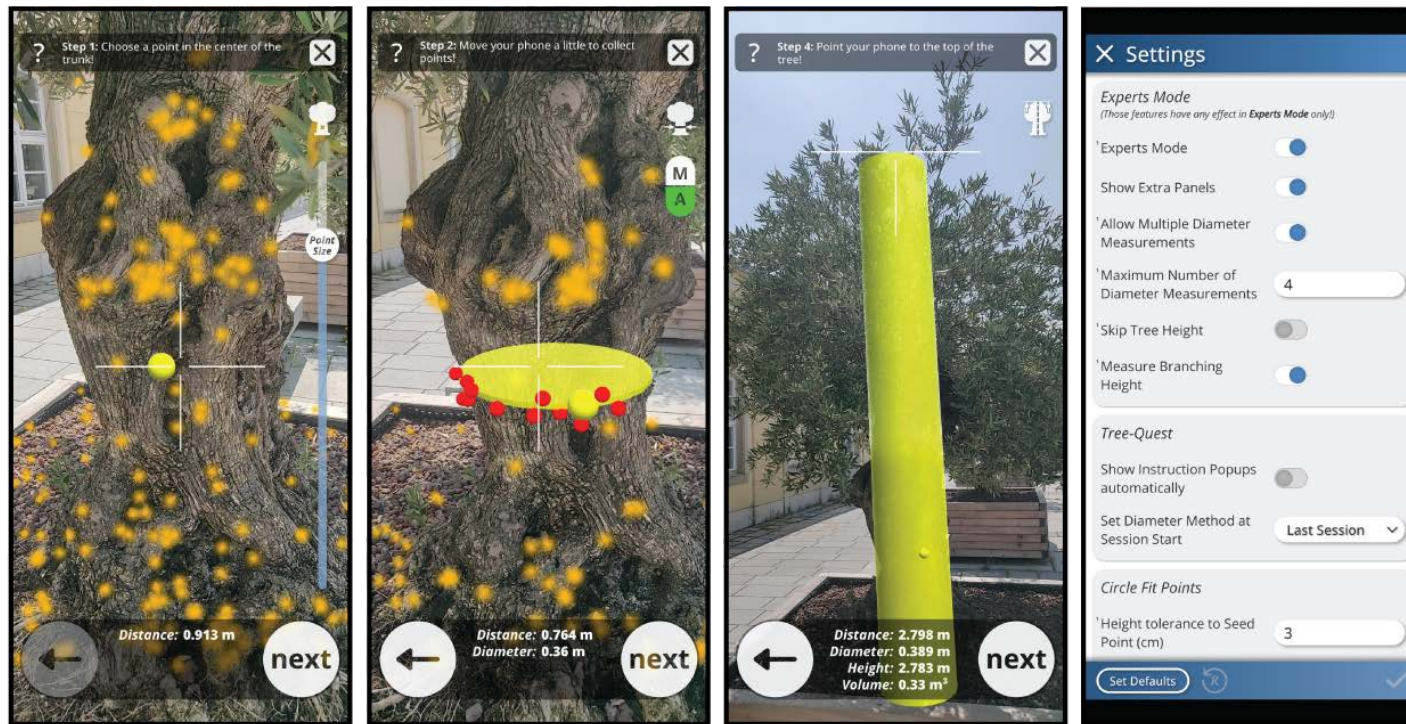


Field delineation



<https://geoquest.iiasa.ac.at/>

Geo-Quest employs multiple features that facilitate ground data collection



Augmented reality



Geo-Quest employs multiple features that facilitate ground data collection

< Back

Please fill out this survey about the tree.

Enter the name of the tree (often there is a plate with the tree id on the tree):

Tree 25

Identify tree species:

Identify plant

Next

< Select >

- 0.905 Olea europaea
- 0.014 Podocarpus macrophyllus
- 0.005 Hippophae rhamnoides
- 0.005 Buddleja saligna
- 0.004 Buddleja loricata
- 0.002 Vitex agnus-castus

DELINEATE FIELD

Select Crop Type

Level 1:

Crop

Level 2:

Cereals

Level 3:

Maize

Additional Comments:

Enter text...

Number photos taken: 0

TAKE PHOTO

NEXT

Customizable surveys and possibility of adding **pictures**



Geo-Quest allows you to upload (individually or in bulk) all the surveys when connectivity is available



Dashboard Laxenburg Park Tree-Quest Forest-Quest Stadtpark Terms

Laxenburg Park

Users: 30 Submissions: 681 Images: 5337

Login to download submission data.

Leaderboard

Rank	User Name	AggregatedQualityScore	Submissions	Images
1	FloH	44.97064	91	720
2	Mikutin	37.62045	92	910
3	Tester5000	22.18958	50	406
4	weihaodong	20.10067	35	396
5	lucazappa	18.35297	47	382
6	FloP	16.99564	52	438
7	geostudent002	16.86896	24	308
8	Florian	16.50149	45	368
9	anna	16.19202	51	426

Your data are then available on dedicated web portals



<https://geoquest.iiasa.ac.at/>



Download your Quest data

Quick access to the free and open data produced in each of our Quests.

Quest

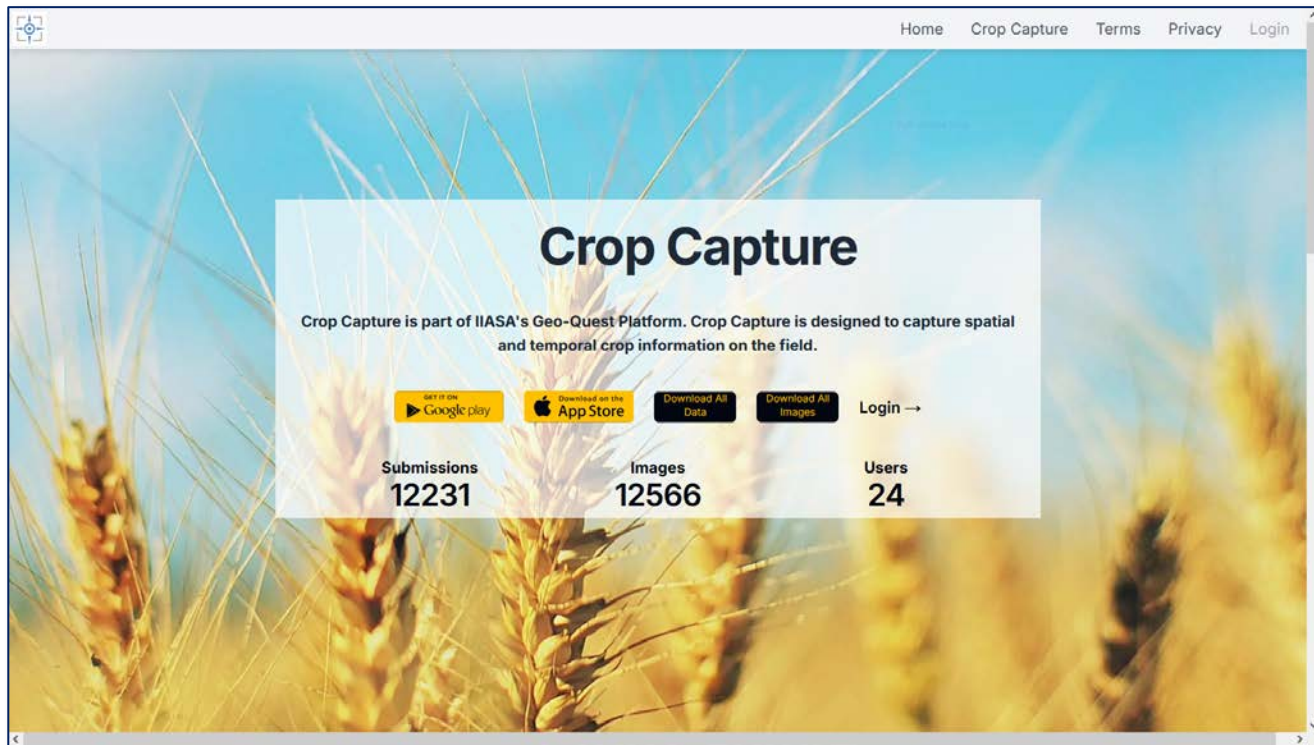
Crop Capture

Download ↓

And at the Geo-Quest page:
<https://geoquest.iiasa.ac.at/>



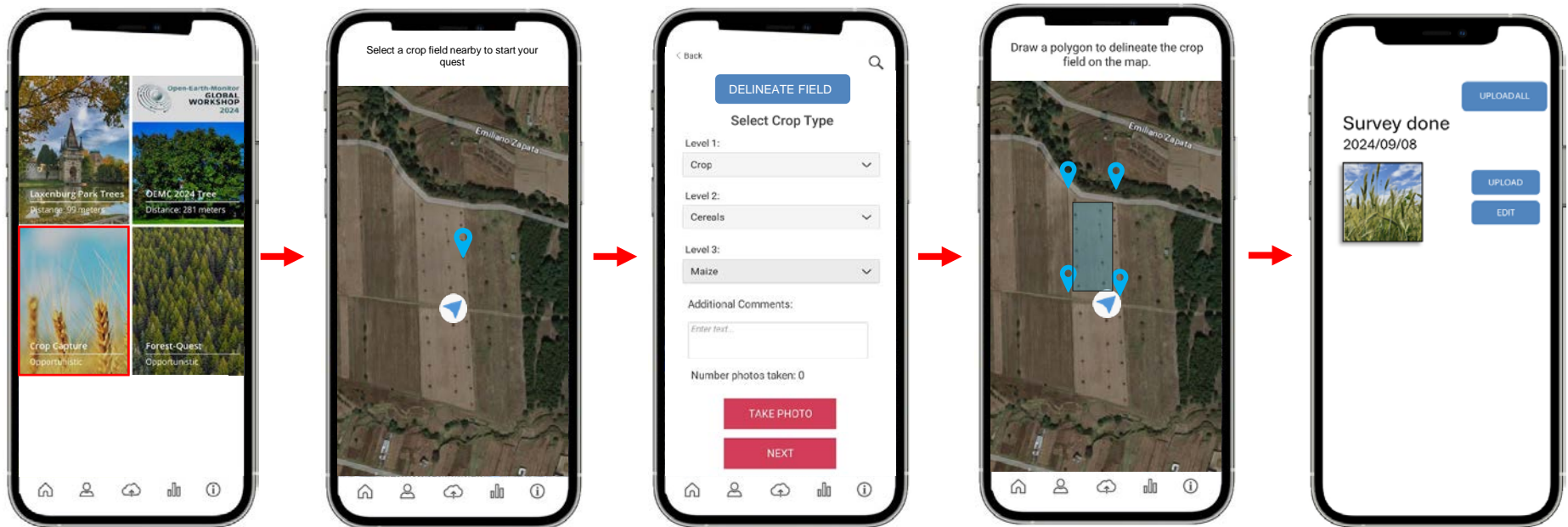
Current quests: **Crop Capture**



<https://geoquest.iiasa.ac.at/>



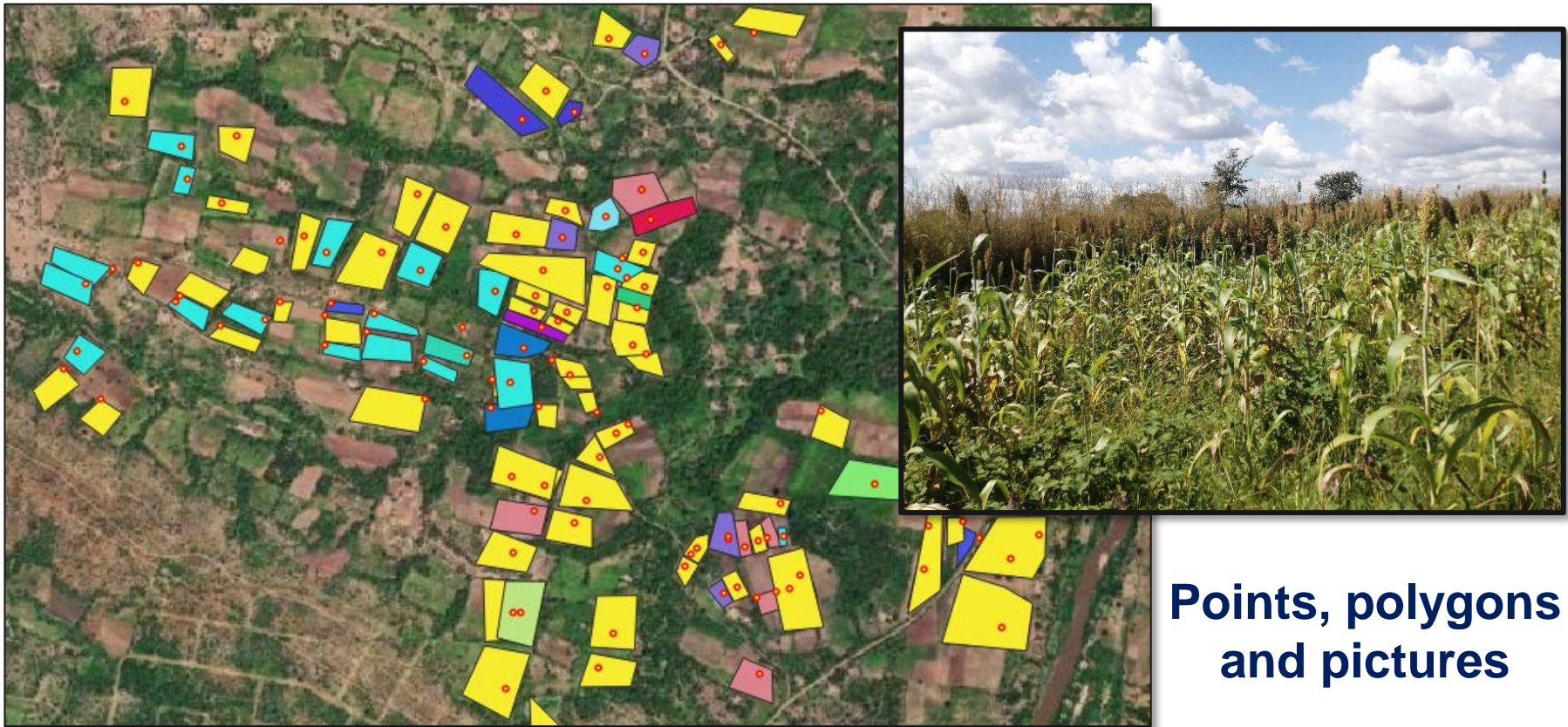
Crop Capture is designed to capture spatial and temporal crop information of the field.



Example of data collected: Zambia and Zimbabwe (CIMMYT collaboration)



Example of data collected: Zambia and Zimbabwe (CIMMYT collaboration)



**Points, polygons
and pictures**

Featured quest: Tree-Quest



(a)



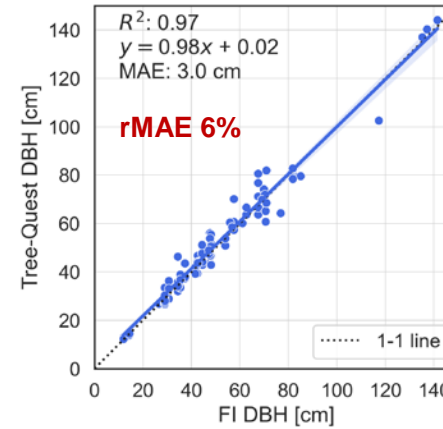
(b)



(c)



(d)



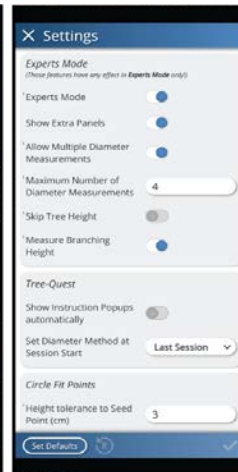
(e)



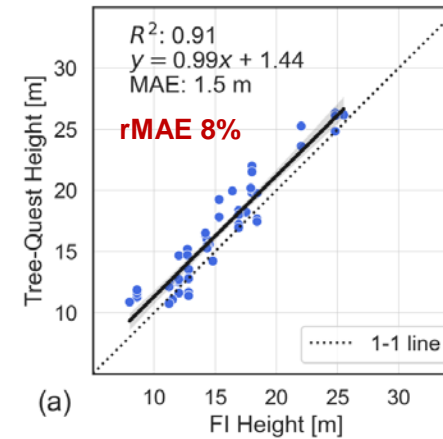
(f)



(g)



(h)



(a)

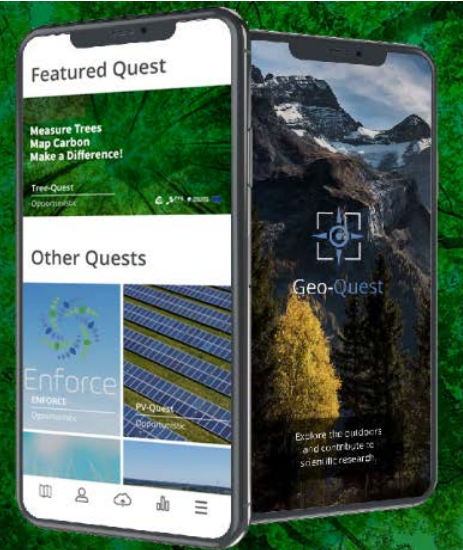


<https://geoquest.iiasa.ac.at/>

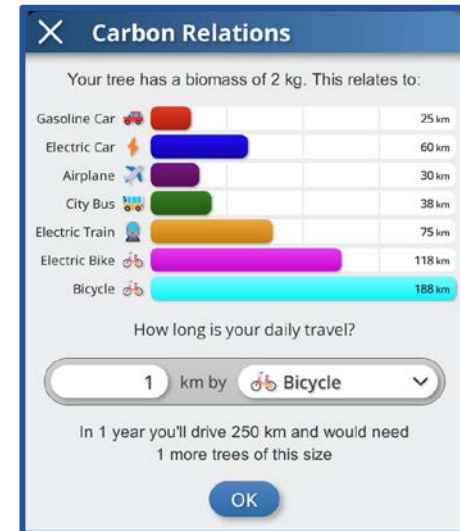
Featured quest: Tree-Quest

Measure Trees. Map Carbon. Make a Difference!

Join the Tree-Quest citizen science campaign with the free Geo-Quest app! Help measure trees, learn how much carbon they store, and support climate science from your own neighbourhood.



Login →



Supporters of the Campaign



<https://geoquest.iiasa.ac.at/>



Featured quest: Tree-Quest

<https://geoquest.iiasa.ac.at/>

Submissions
900

Images
7250






Users
74

Tree Locations

Data Download



6. Below is the list of prizes that could be won at the end of each Period:

First Price	A certificate in the name of the Winner for land purchase (100 m ²) for protecting the biodiversity of the COBIGA Biological Corridor in Costa Rica – more info here –	
Second Price	A certificate in the name of the Winner for species protection purchase for protecting the survival of the ocelot (Leopardus pardalis) in Costa Rica – more info here –	
Third Price	A certificate in the name of the Winner for CO ₂ credits purchase (3000 kg) for the regional forest climate protection of <u>Stand Montafon</u> forests in Austria – more info here –	
Fourth Price	A certificate in the name of the Winner for CO ₂ credits purchase (2000 kg) for the regional forest climate protection of the <u>Stand Montafon</u> forests in Austria – more info here –	
Fifth Price	Goodie bag containing a reusable water bottle with the Geo-Quest logo and swag/merchandise from IIASA and sponsor partners Note: Please read Paragraph 15 for additional regulations of this price	



Featured quest: **Tree-Quest**

LIVE DEMONSTRATION OF TREE-QUEST

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