

WELCOME

Steffen Fritz

Ecosystem Services and Management

Group Leader:

Earth Observation Systems

HOME OF IIASA SINCE 1972



MAJOR GLOBAL CHALLENGES

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ENERGY



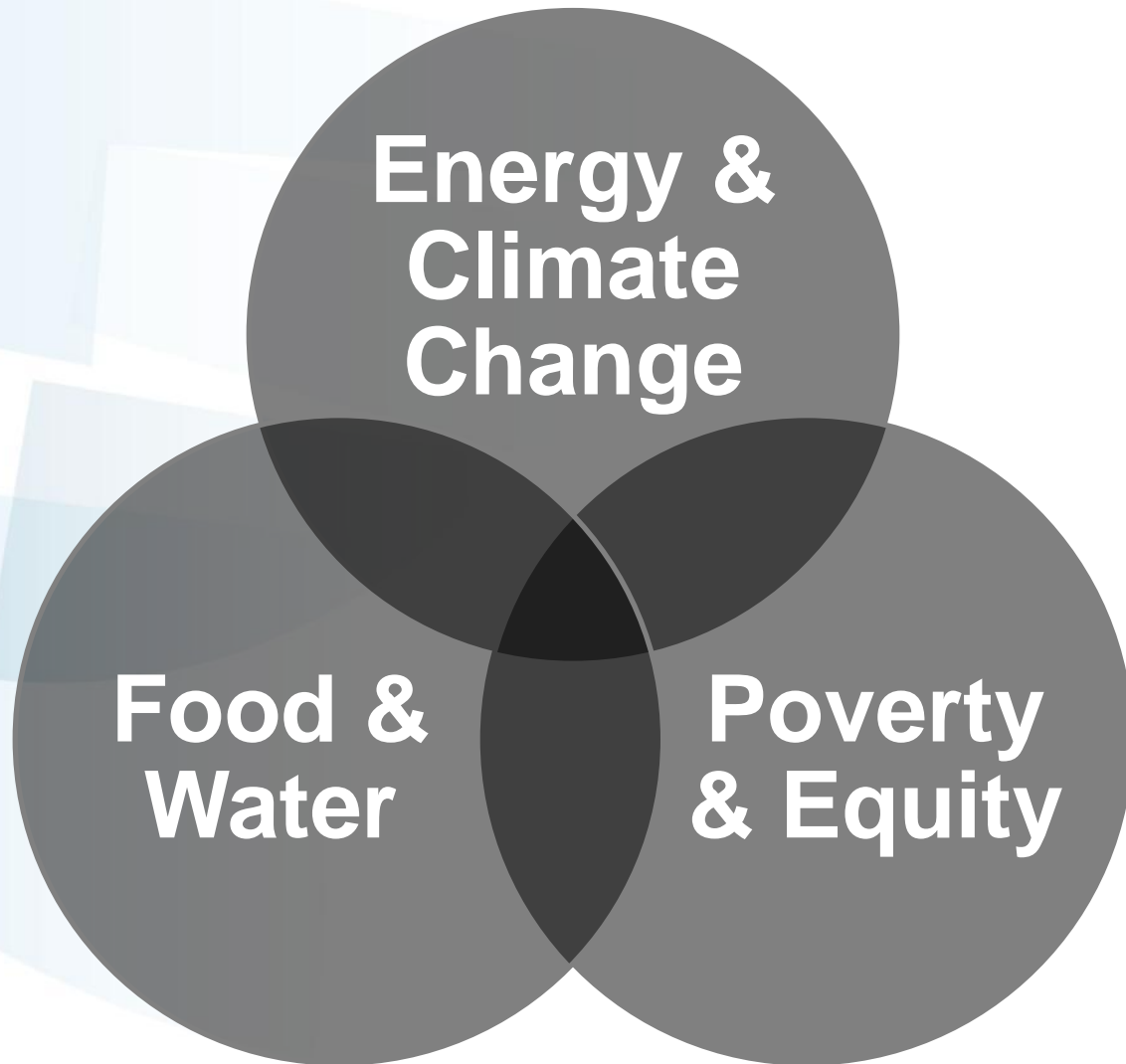
MAJOR GLOBAL CHALLENGES



MAJOR GLOBAL CHALLENGES



INEXTRICABLY LINKED



RESEARCHING GLOBAL CHALLENGES

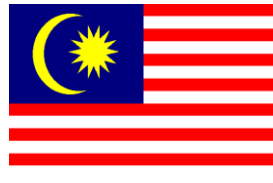
- Integrated
- Interdisciplinary
- International
- Independent
- Solution-oriented
- Long term
- Trade offs



= Systems
Analysis

YOUNG SCIENTISTS SUMMER PROGRAM





IIASA'S MEMBERS: NATIONAL ACADEMIES

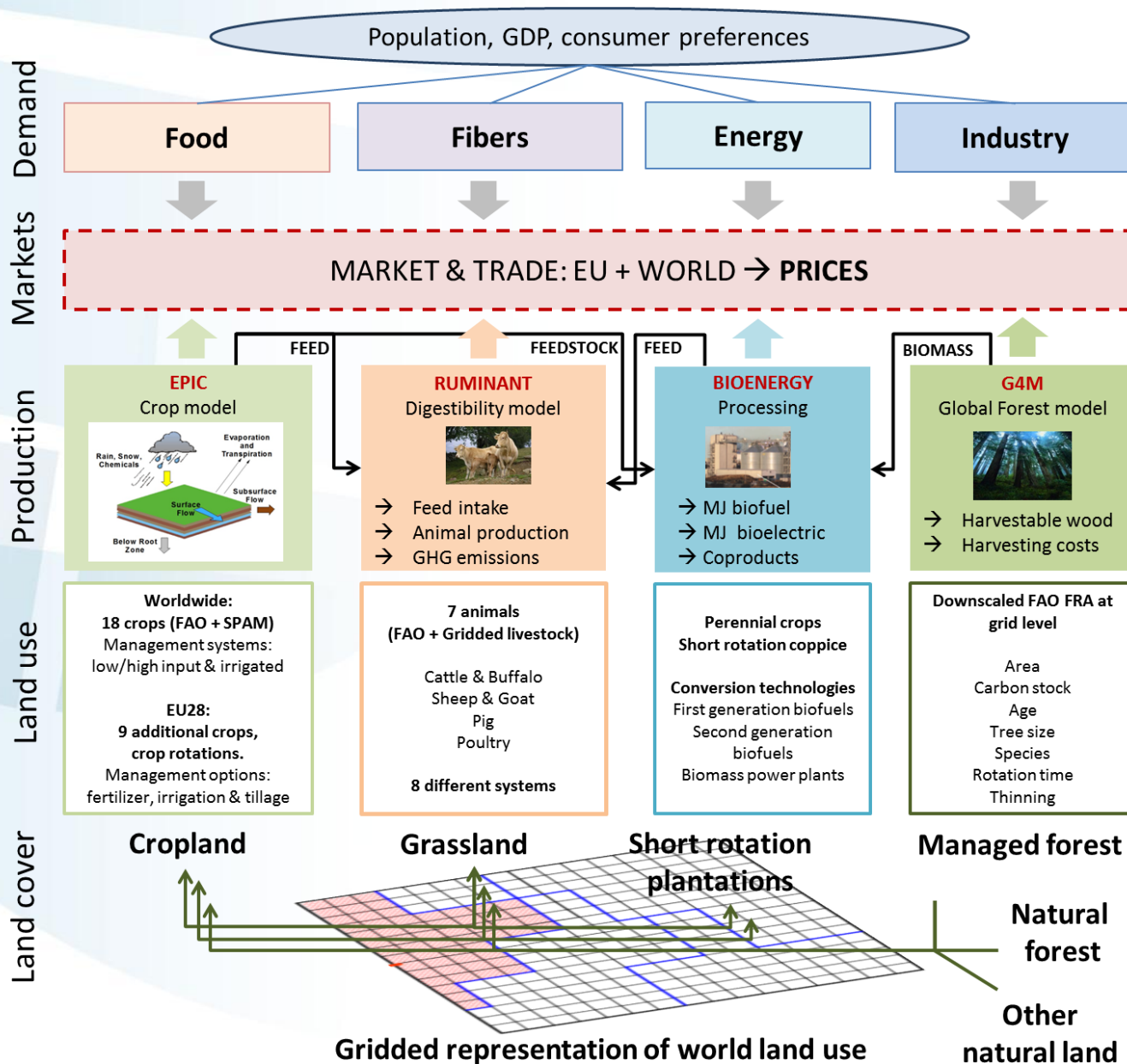
Biggest Program at IIASA

ECOSYSTEM SERVICES AND MANAGEMENT

ECONOMIC MODELLING



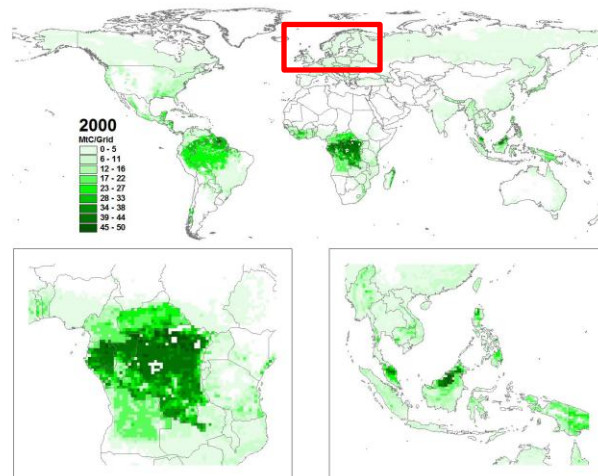
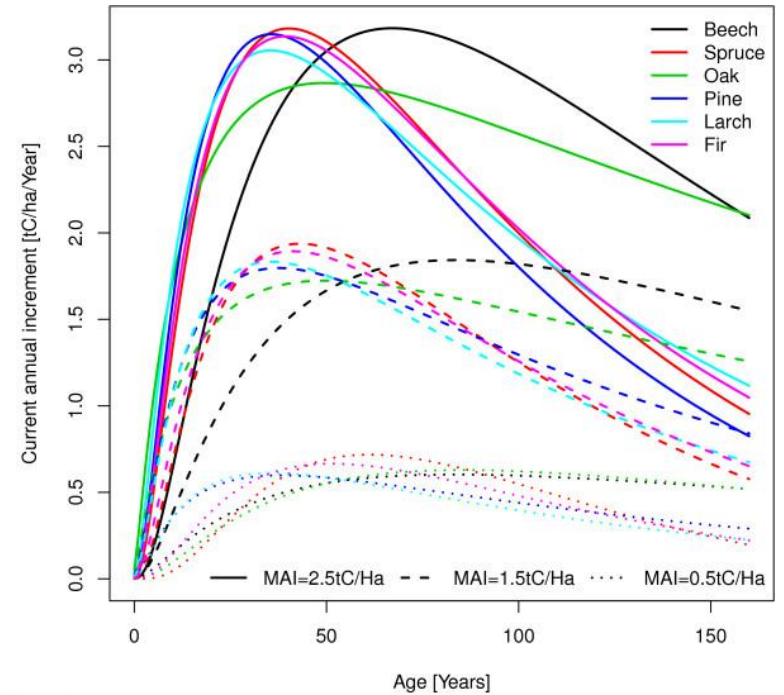
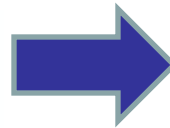
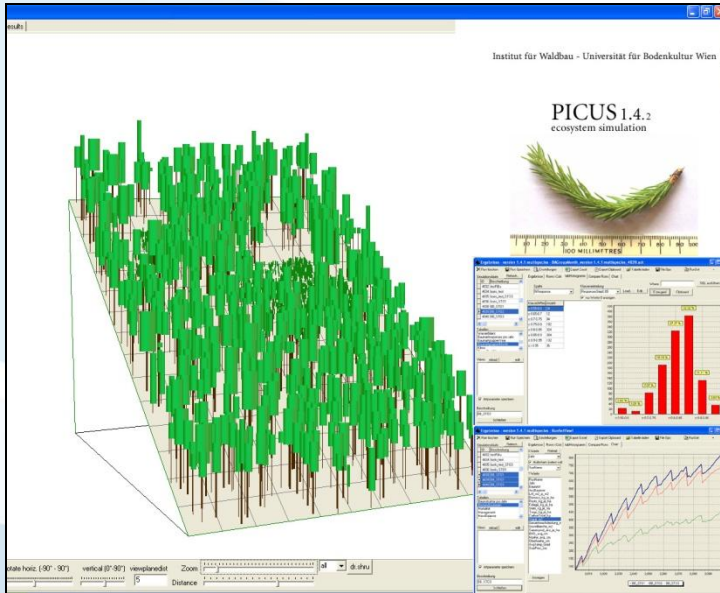
Modelling with GLOBIOM



BIOPHYSICAL MODELLING



Forest Modelling (G4M)



Kindermann (2013), CBM

DATA: EARTH OBSERVATION SYSTEMS



Geo-Wiki Engagement Platform

<http://www.geo-wiki.org/>



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Games

- » Picture Pile
- » FAQ

Get involved now!

Participate in these ongoing projects and join the citizen science movement to help us address global land cover issues



Picture Pile

Sort pictures and win great prizes! You can help us tackle global issues like deforestation.



FotoQuest Austria

Join FotoQuest Austria and explore the outdoors! Help us monitor changes in land use and land cover.



Geo-Wiki pictures

Capture different landscapes using your smartphone and share with others through Geo-Wiki.



LACO-Wiki

Discover the new web portal to validate your map products from local to global scales.

Visualize and provide feedback!

Engage in global environmental monitoring and collaborate with leading scientists



Land Cover



SIGMA



Livestock



Biomass



AusCover



Risk

Login

Email

Password

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[I've lost my password](#)

[Register here!](#)

Try Geo-Wiki

Administration

- » Smartphone Legends

Tweets

Follow



Already over 25,000 pictures have been sorted! This is a picture pile higher than an average room (2.43 meters)! Unbelievable! Thank you!

Retweeted by IIASA Geo-Wiki

Expand



#PicturePile has started! Sort picture piles to win great prizes and to tackle global issues like deforestation!

geo-wiki.org/games/picturep...

Tweet to @Geo_Wiki

Like Share 453

+32 Recommend this on Google

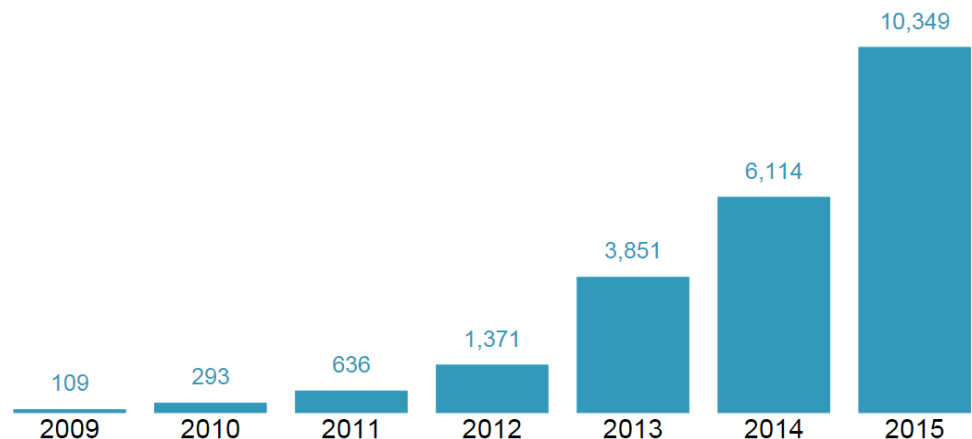
Geo-Wiki Engagement Platform

Crowdsourcing campaigns

1. Human Impact → 53,000+ points
 - Validation of land availability for biofuel production, field size mapping
2. Wilderness → 32,000+ points
 - Collection of LC and human impact to assess global wilderness
3. Hotspots of Disagreement → 30,000+ points
 - Validation points in the areas of disagreement between GLC2000, MODIS, GlobCover
4. Global Validation Dataset → 35,000+ points
 - Collection of data at same location as GlobeLand30

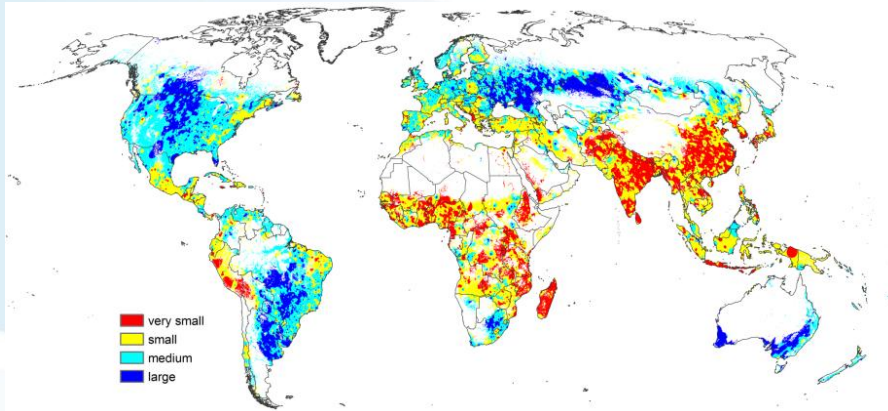


10,000+
Registered users



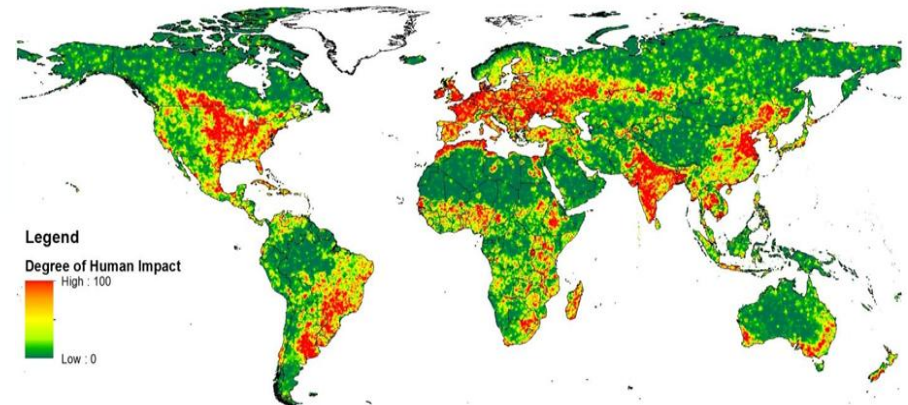
Geo-Wiki Engagement Platform

Field Size



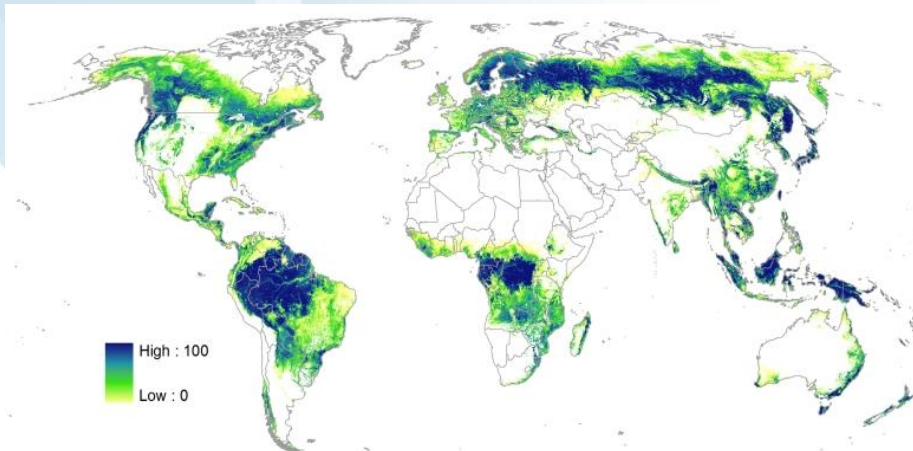
Fritz et al. (2015) in Global Change Biology

Wilderness



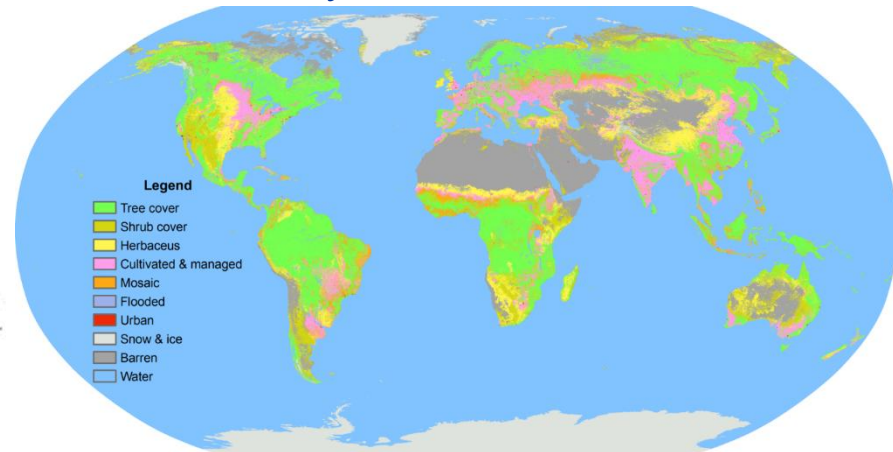
See et al. (2015) in Technological Forecasting and Social Change

Forest Cover



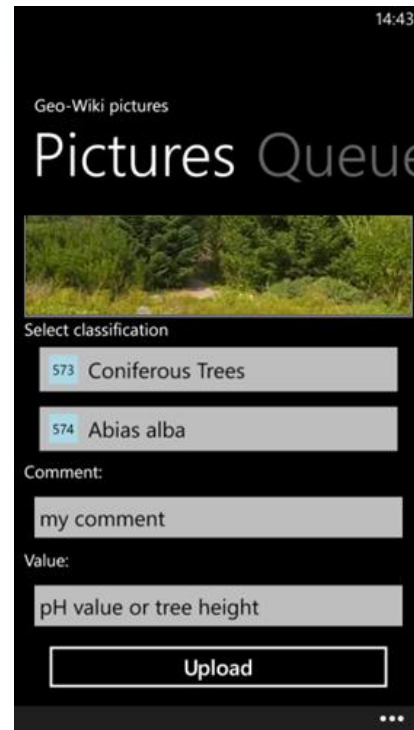
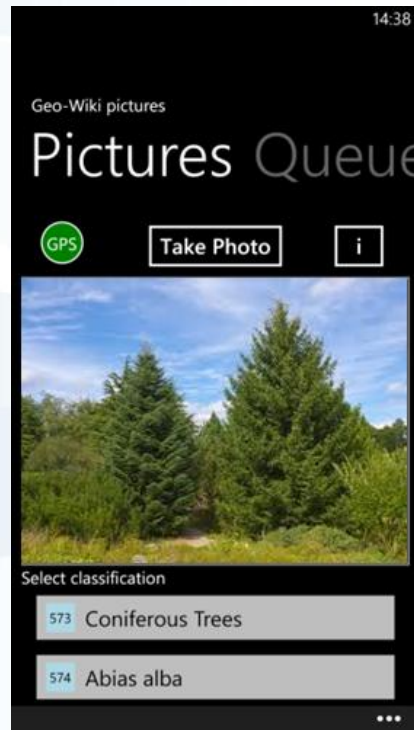
Schepaschenko et al. (2015) in Remote Sensing of Environment

Hybrid Land Cover



See et al. (2014) in ISPRS Photogrammetry and Remote Sensing

Geo-Wiki Pictures



Picture Pile

<http://geo-wiki.org/games/picturepile>



Current focus: Deforestation Pile

Picture Pile

Total Score: 11403
Weekly Score: 11403

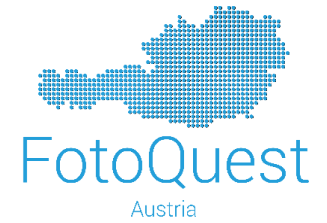
Sorted: 0.56929%
Week 1 ends in 3 days, 9 hours, 43 minutes.

Do you see tree loss
over time?






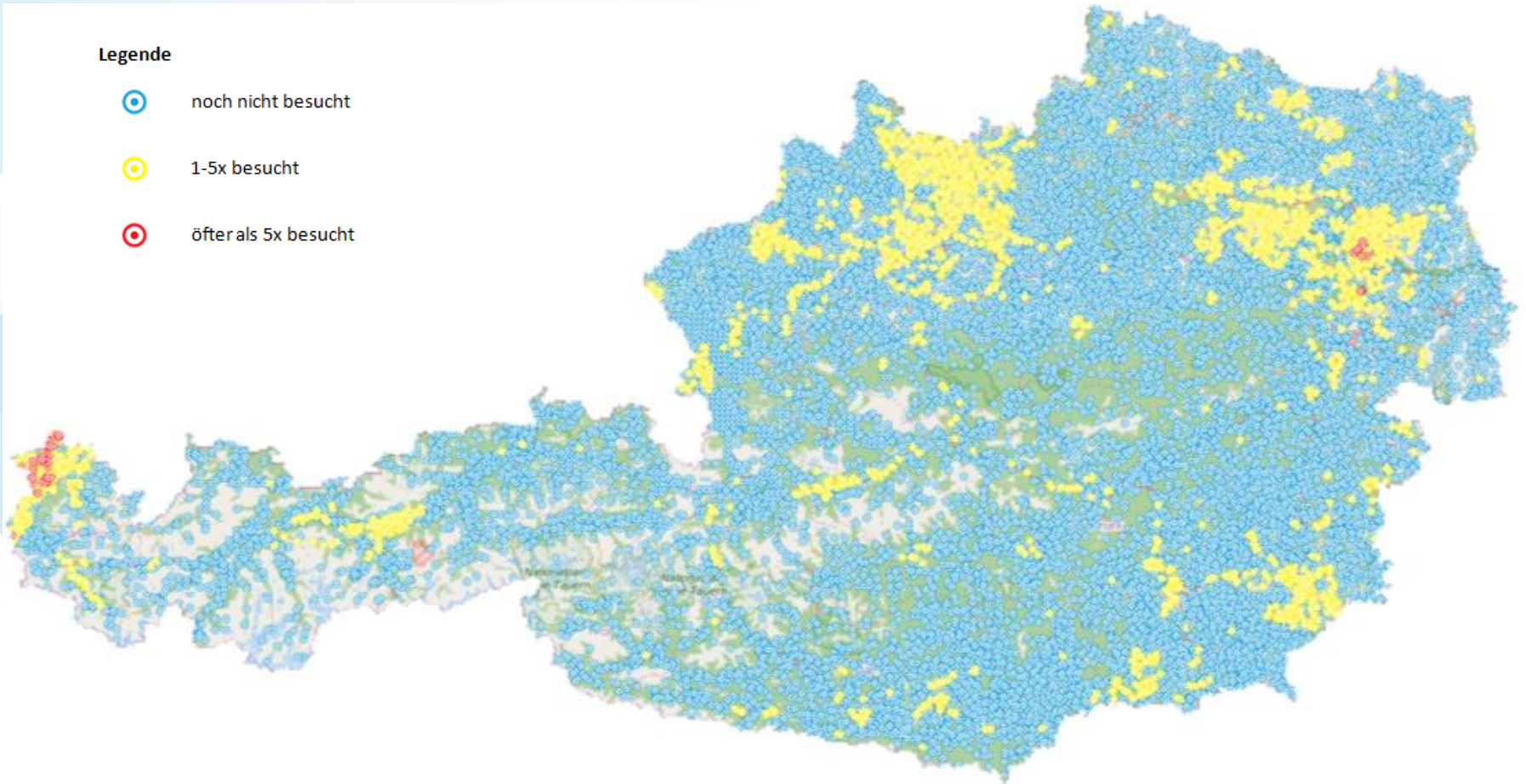
FotoQuest Austria

FotoQuest.at



Legende

-  noch nicht besucht
-  1-5x besucht
-  öfter als 5x besucht



Enjoy the workshop!