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Citizen enforcement in the forest sector: examples and experiences

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WRI's MISSION | To move human society to live in ways that protect Earth's environment and its capacity to provide for the needs and aspirations of current and future generations.

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WRI's WORK | We work with governments, companies, and civil society to build solutions to urgent environmental and development challenges.

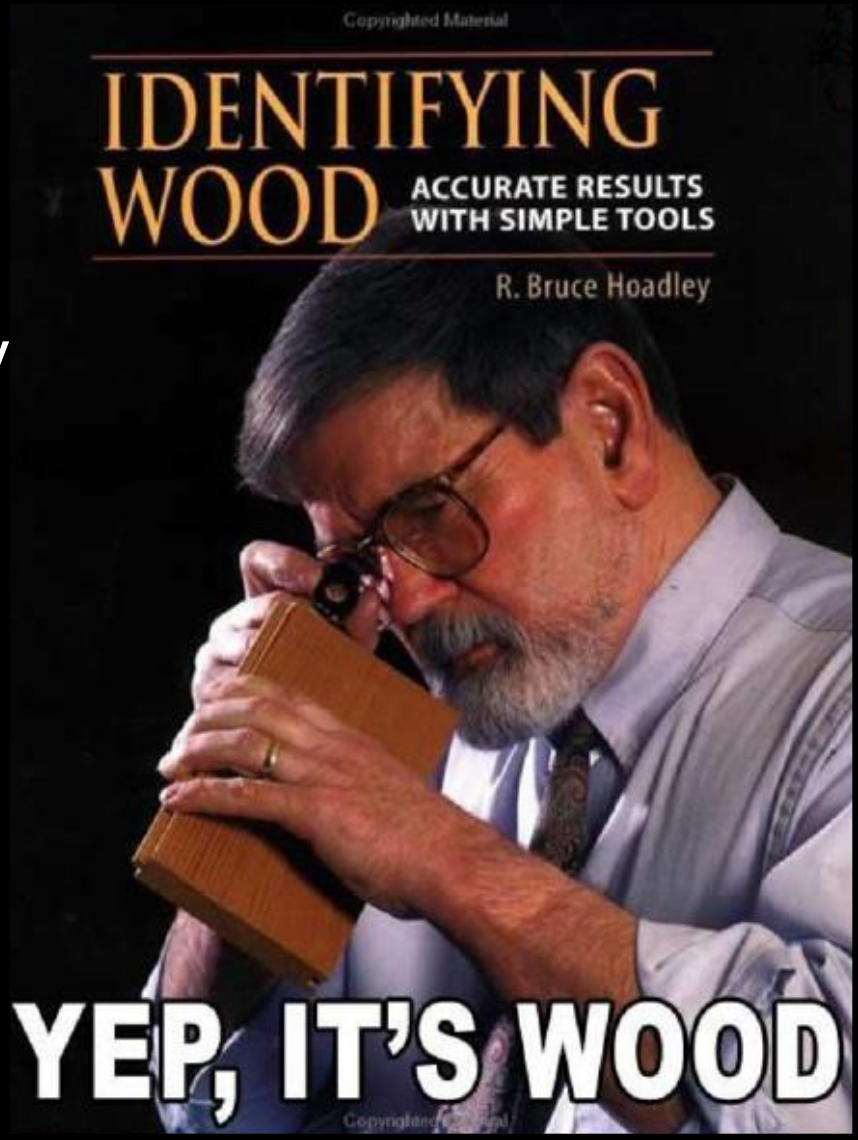
WRI's Forest Program

Wood Identification

Reference databases:

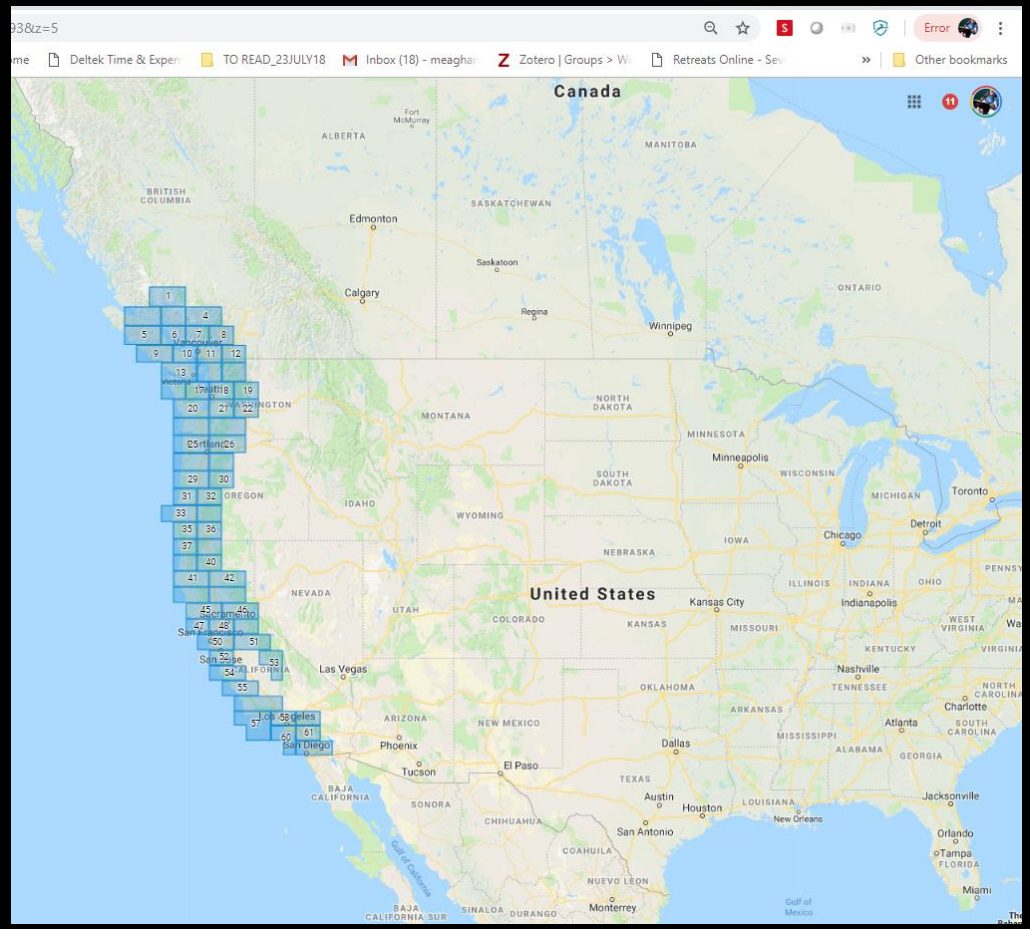
- For each species for each given technology (with the exception of stable isotope data)
- Georeferenced data from across the species entire range
- Requires herbarium vouchers for verification

All of the above amounts to a significant amount of time and money

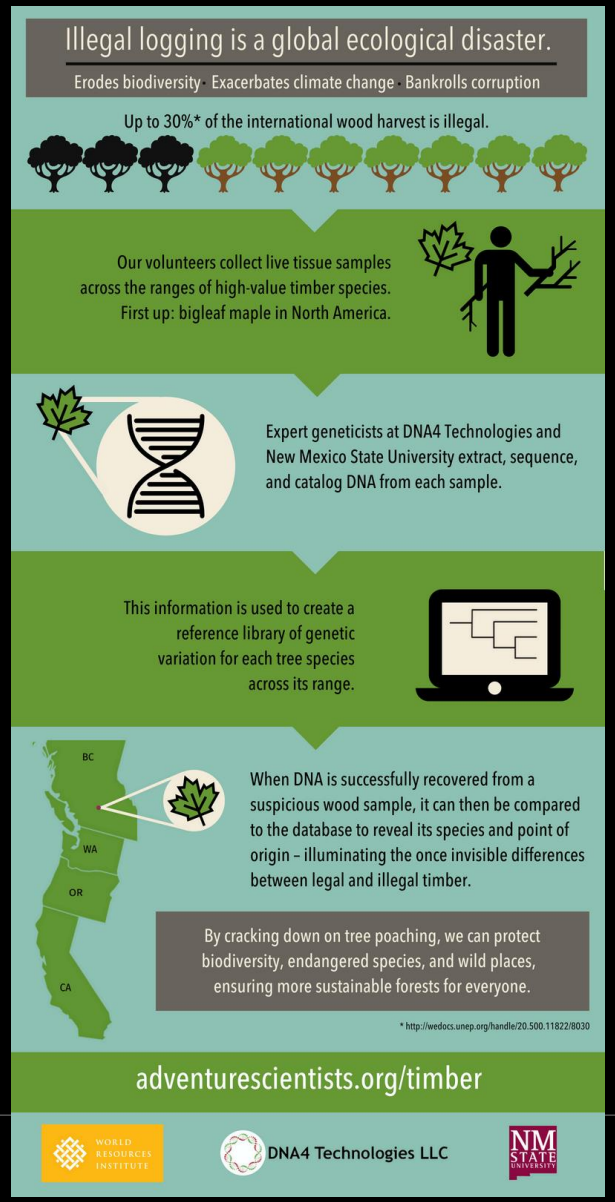


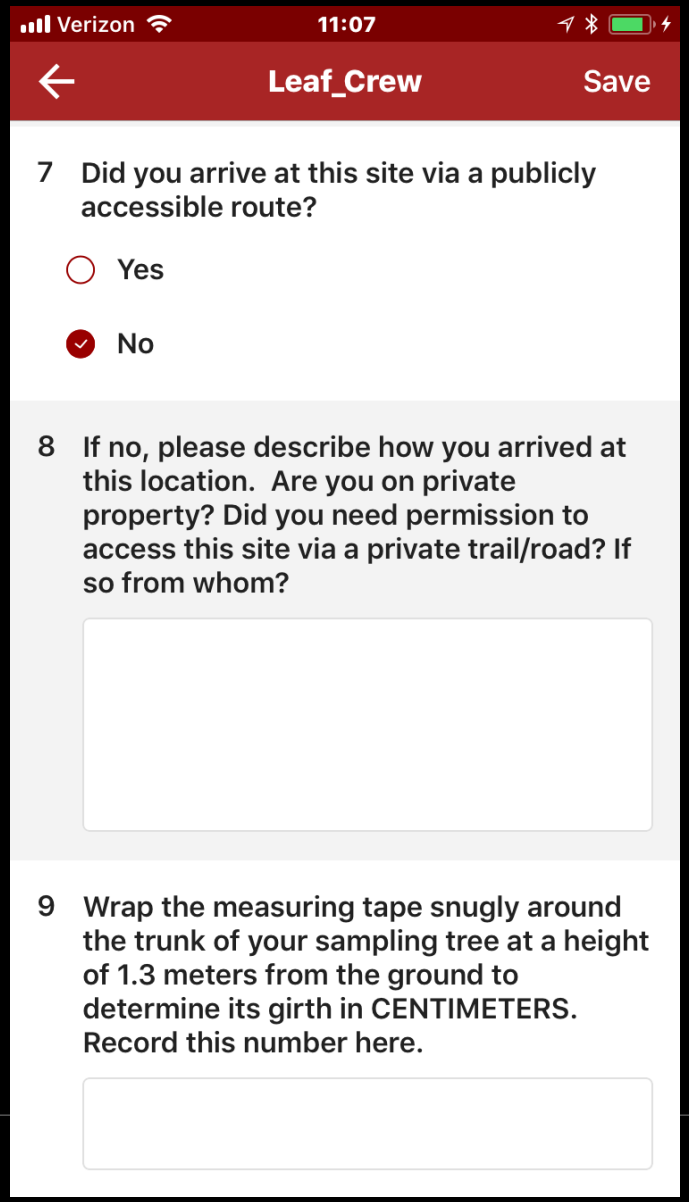
Wood Identification

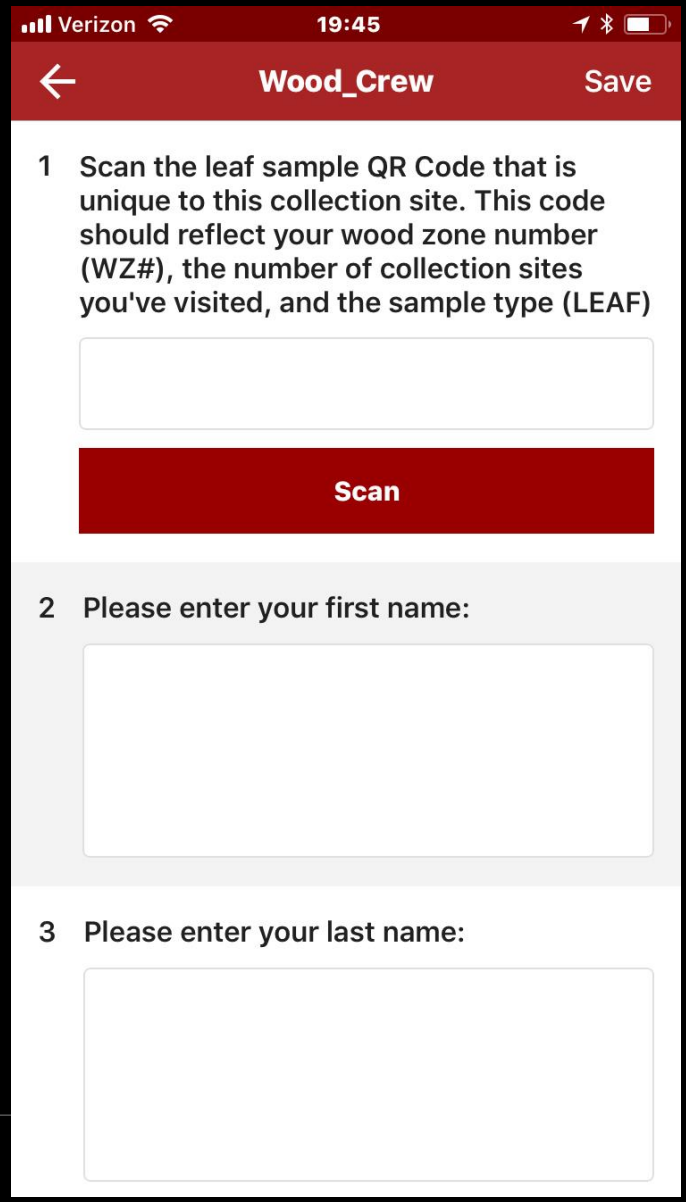
- Partners: Adventure Scientists, New Mexico State University and DNA4Technologies
- Developed sampling strategy
- Recruited volunteers using social media
- Developed online training and a mobile application
- Let the volunteers loose!



Wood Identification







Wood Identification

Tracking Timber Project - Wood Crew Protocol

III. Taking a tree core

Step 1: Assemble the increment borer

- Untwist and remove the extractor from the drill bit and the handle.
- Don't put the extractor on the ground!
- Remove the bit from inside the handle, and lift the small latch on the handle.
- Insert the square end of the bit into the hole on the opposite side of the handle from the latch.
- Close latch onto the notch in the bit.

Step 2: Select your coring location

- Choose a location on the tree at the height of 1.3 meters (4.5 feet) from its base.
- If your sampling tree has multiple trunks, sample from **the trunk that was directly connected to your sampling leaf.**
- **Aim the bit at the very center of the tree.**
- **Place the bit tip between two furrows in the bark to help stabilize the borer.**

Step 3: Insert the increment borer

- Hold the stem of the bit steady with your non-dominant hand while slowly twisting the handle clockwise with your dominant hand.
- Keep the bit as stable as possible, while using your bodyweight to lean into the borer.
- A field partner can help by holding the bit steady.

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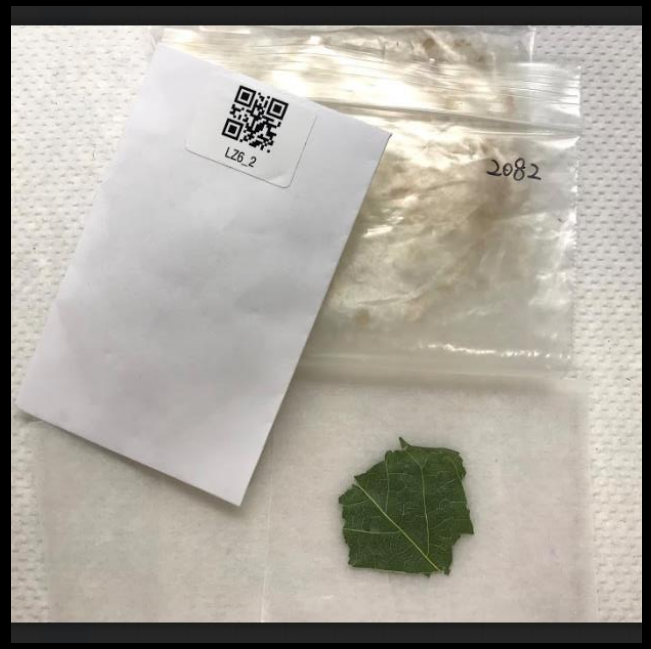

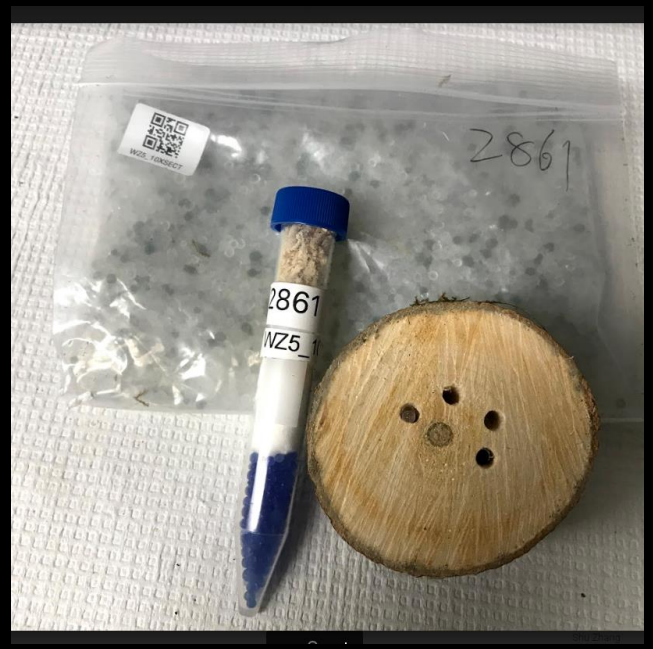

Wood Identification

- Over 100 volunteer for field collections
- Acquired over 1000 reference samples in 5 months from CA to BC
- A genome-wide reference database for big leaf maple is under development
- Laying groundwork for Indonesia project

WRI's Forest Program

FOREST LEGALITY INITIATIVE

GLOBAL FOREST WATCH


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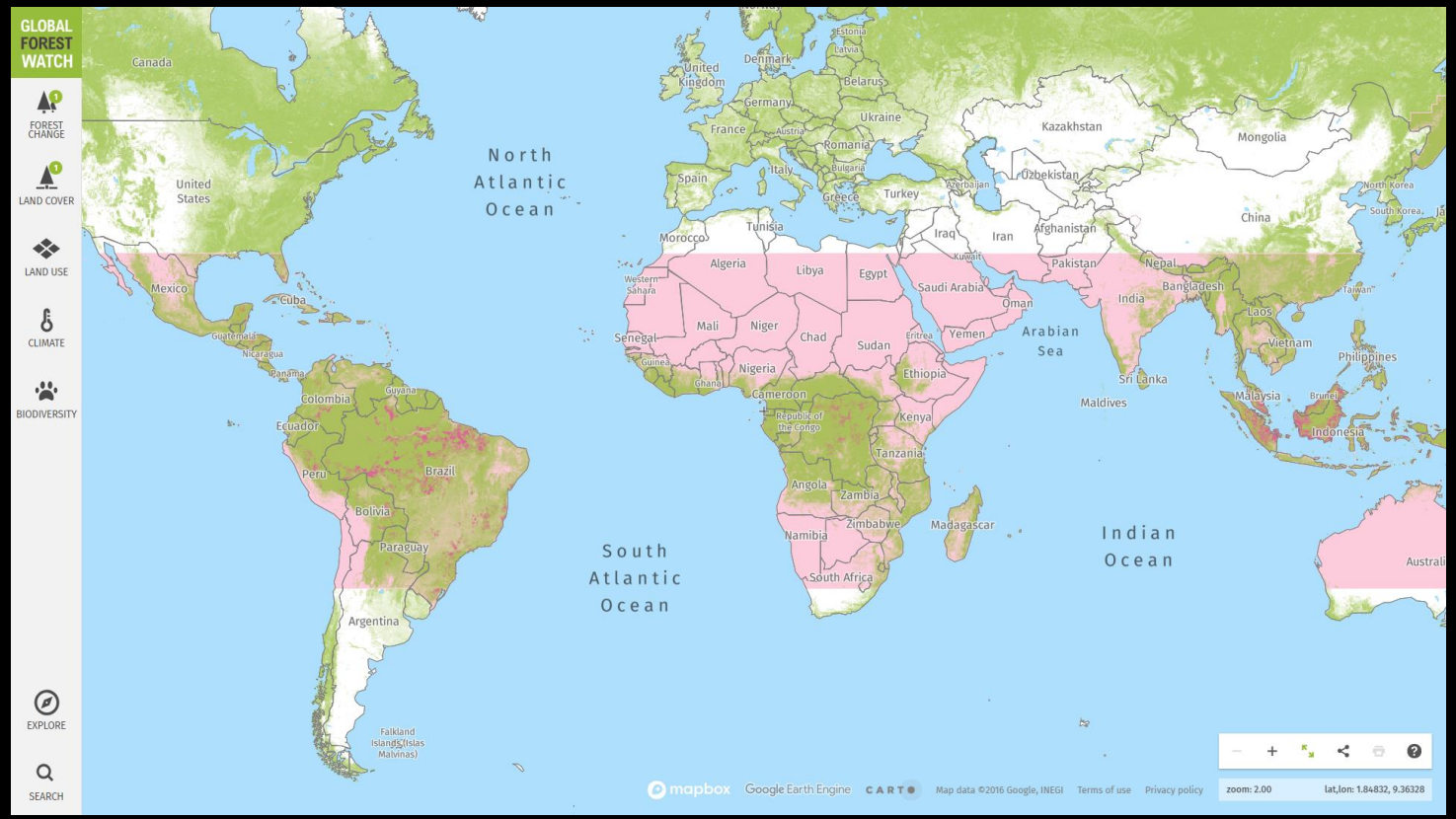
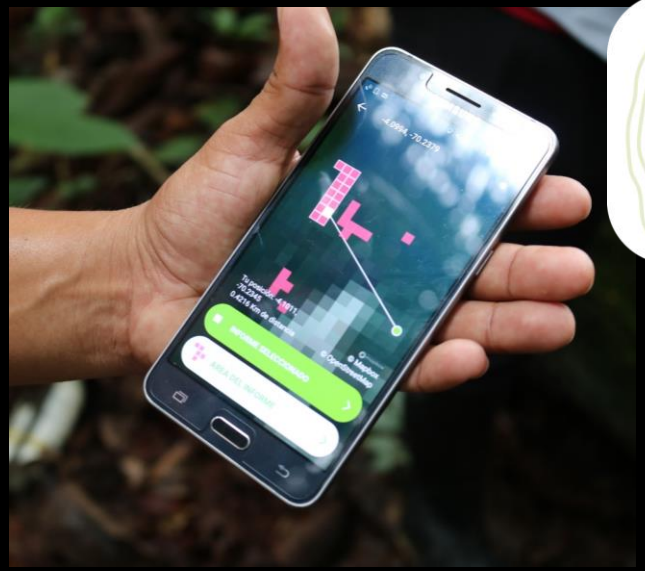
WATCH

Community monitoring





FOREST WATCHER

A mobile solution for low connectivity


MAPA DE ALERTAS TEMPRANAS DE DEFORESTACION - GLAD
SITIOS DE MONITOREO, MEDICION, REPORTE Y VERIFICACION COMUNITARIO INDIGENA DE ALERTAS TEMPRANAS DE DEFORESTACION Y DEGRADACION DEL BOSQUE
COMUNIDADES NATIVAS DE NUEVO RAPOSOA Y PATRIA NUEVA DE MEDIACION CALLERIA
PARQUE NACIONAL SIERRA DEL DIVISOR

"The satellites allow us to make decisions in real time, and deliver this information to State institutions for them to take immediate action."

-Jorge Perez of ORPIO, representing 15 indigenous ethnic groups in Peru

Photo: RFUS

Lessons and challenges

- Training
- The role of intermediaries
- Risks
- Governance

Thank you!

www.forestlegality.org
www.globalforestwatch.org

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