



Geospatial Technology, Land Rights, and the Circular Economy

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Geospatial World Forum
Amsterdam, October 21, 2021

 **CADASTA**

A Sustainable Circular Economy creates economic, social, and natural capital by:

1.



Designing out
waste and pollution

2.



Keeping products
and materials in use

3.



Regenerating
natural systems

And leads to:

Circular Bioeconomy: Replaces industrial sources to renewable biological resources to produce **food, materials, and energy.**



THE PROBLEM: 1 billion tenure-insecure people globally

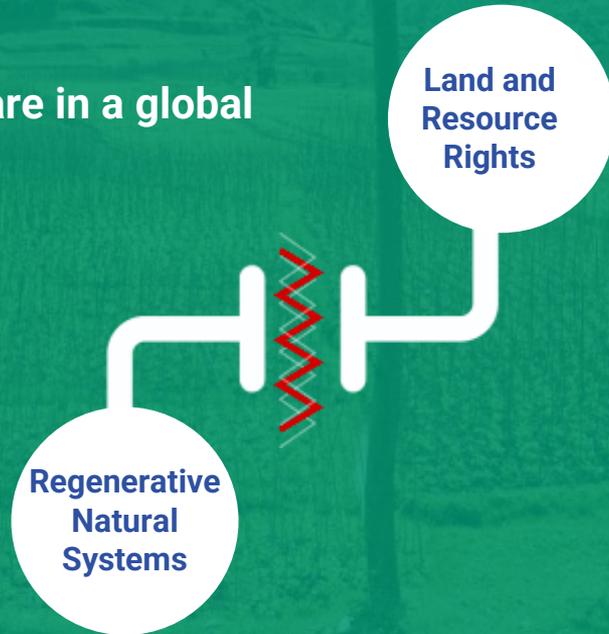
70% of land in emerging economies is unregistered.



Insecure land tenure affects the ability of people, communities, and organizations to make changes to land that can advance adaptation and mitigation (IPCC 2019).

**There is no circular economy
or bioeconomy without the
sustainable and equitable use
of land and natural resources.**

**Yet today, we are in a global
land crisis.**



Evictions

Displacement

Deforestation

Pollution

Land grabs

Loss of habitat

Loss of biodiversity

Loss of livelihoods, history, culture

Gender inequality

Unregistered rights



**Protection
of Forests**



Conservation



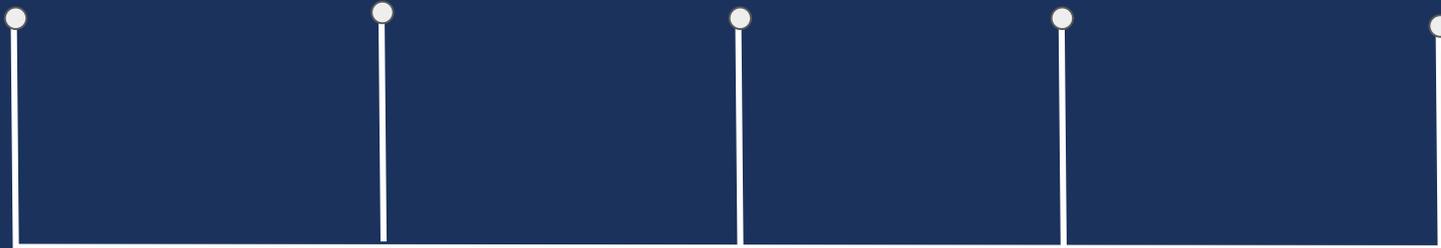
Biodiversity



**Sustainable
Land Use**



**Climate-Smart
Ag**



Land Tenure Security

underpins the success of many SDGs and
environmental policy initiatives

Land & the SDGs

Land is foundational to most of the SDGs.

 13 Goals

 59 Targets

 65 Indicators

1 NO
POVERTY



2 ZERO
HUNGER



5 GENDER
EQUALITY



11 SUSTAINABLE CITIES
AND COMMUNITIES



15 LIFE
ON LAND



Cadasta is the world's leading global land technology and services platform.

Our tools empower vulnerable communities to affordably and easily document, map, and secure inclusive land and resource rights at scale for a more sustainable and equitable planet.



Select Partners & Donors



By strengthening land and property rights, Cadasta empowers communities to:



Improve forest and land
conservation with better
climate outcomes



Improve access, rights,
and opportunities for
women, youth, Indigenous
People and Local
Communities (IPLCs)



Spur sustainable food,
energy, and resource
systems for a circular
economy



Create more transparent
land governance and
enabling economic
environments



Land Rights for a Sustainable Circular Economy

With Cadasta's technology, tools, and training:



Local Communities

can map, document, and manage their land claims and advocate for strengthened land rights.



Indigenous Groups

can map their community boundaries and defend their claims to resources such as land, water, forests, and spiritual sites.



NGOs

can document, analyze, and monitor environmental changes, such as deforestation, and support communities and indigenous groups to defend their rights.



Governments

can use the maps and data collected on Cadasta's tools to formalize community and indigenous land claims.

Cadasta works in:



Cities



Farms



Forests

And promotes:



Women's
Equality



Climate
Sustainability



Youth
Development

Cadasta Uniquely Combines:



Technology
& Tools



Training &
Advisory
Services



Sustainable
Development
Expertise



Welcome to the Cadasta Impact Dashboard!

The map in the center shows **all of the countries** in which Cadasta is working. Click on any country to see the list of projects and click on the link to each project to see more details. Please note that some projects have undisclosed information due to partner privacy settings.



HOUSEHOLDS



PEOPLE

5,380,694

* Estimated based on number of households and an average of 4 people per household. See Filters tab for more details.

PARTNERS

85

PROJECTS

103

LAND DOCUMENTS ISSUED

100,033

COUNTRIES



38

PARCELS

352,849

NUMBER OF GOVERNMENTS



23

HECTARES

19,684,838

GENDER OF HOUSEHOLD



Men 47%
Women 53%

COMMUNITIES

2,030

[Click image to go to live dashboard](#)

What We Offer



**Land Administration
Expertise**



**Maps & Land
Document Creation**



**Data Visualization
& Analytics**



**Community Support
& Empowerment**



**Training &
Technical Support**



**Government
Engagement**



Partners in the Field



Odisha and Jharkhand States, India **PRADAN**

Need: Tools and training to document forest rights in accordance with the Indian Forest Rights Act.

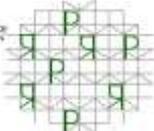
Solution: Bringing skills and systems that help women, families, and communities establish forest rights and use data to manage their natural resources

Outcome: Documentation that supports the forest communities to claim their rights and livelihoods and create forest and land use plans.

To date, more than **8,720 individuals** and **332,545 hectares** have been captured on the platform.

प्रदान
Pradan

PROFESSIONAL ASSISTANCE
FOR DEVELOPMENT ACTION



PRADAN Collector Map - JAN 20

cadasta.maps.arcgis.com/home/webmap/viewer.html?webmap=bfc6bdf9f4154a6794f0cb1435bde8d1

Apps Google Accounts Google :.BHULEKH || ODISH... Digital India LR Mo... Cadasta Foundation FRA Atlas Other bookmarks

Home PRADAN Collector Map - JAN 2021 Open in new Map Viewer New Map Ranjan

Details Add Edit Basemap Analysis Save Share Print Directions Measure Bookmarks Find address or place

About Contents

Contents

- PRADAN 2021 JAN - points
- PRADAN 2021 JAN - points
- PRADAN 2021 JAN - 2019 S123 final
- VILLAGE BOUNDARY THAKURMUNDA
- CADASTRAL MAP THAKURMUNDA
- PATHAR REVENUE M
- VILLAGE BOUNDARY RAYAGADA

Trust Center Contact Us

Cadasta Dark Relief	Cadasta Green World Street	Cadasta Local Language World
Cadasta New Canvas	Dark Gray Canvas	Imagery
Imagery Hybrid	Imagery with Labels	Light Gray Canvas
National Geographic	National Geographic	Navigation
Oceans	Oceans	OpenStreetMap

esri

Image Credit: PRADAN

Select IFR, CFR, or CFR Management Plan

IFR CFR

CFR Management Plan

INFORMATION FOR LAND MAPPING UNDER IFR

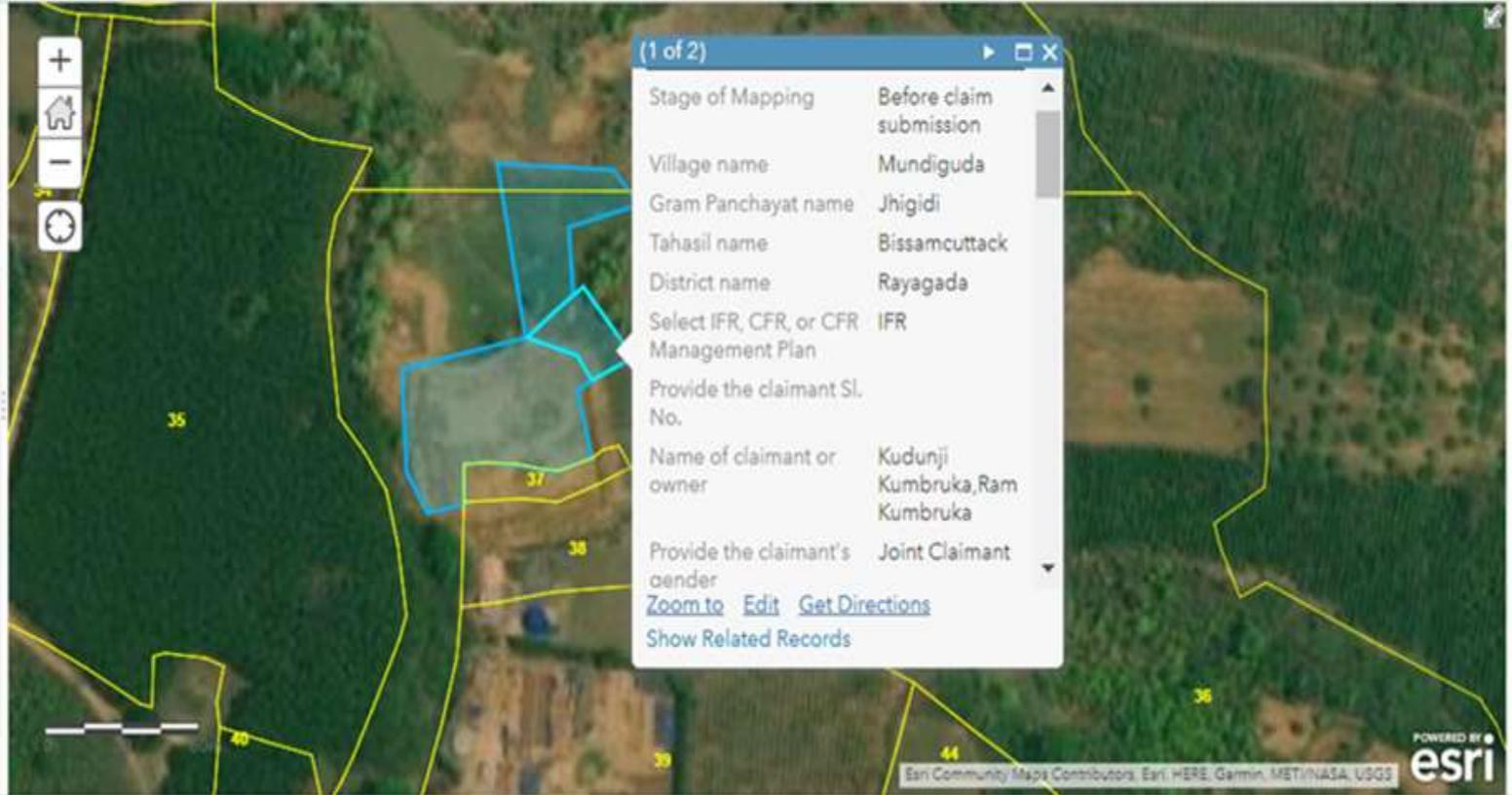
Please take a picture of the location with the claimant(s)

Take a picture



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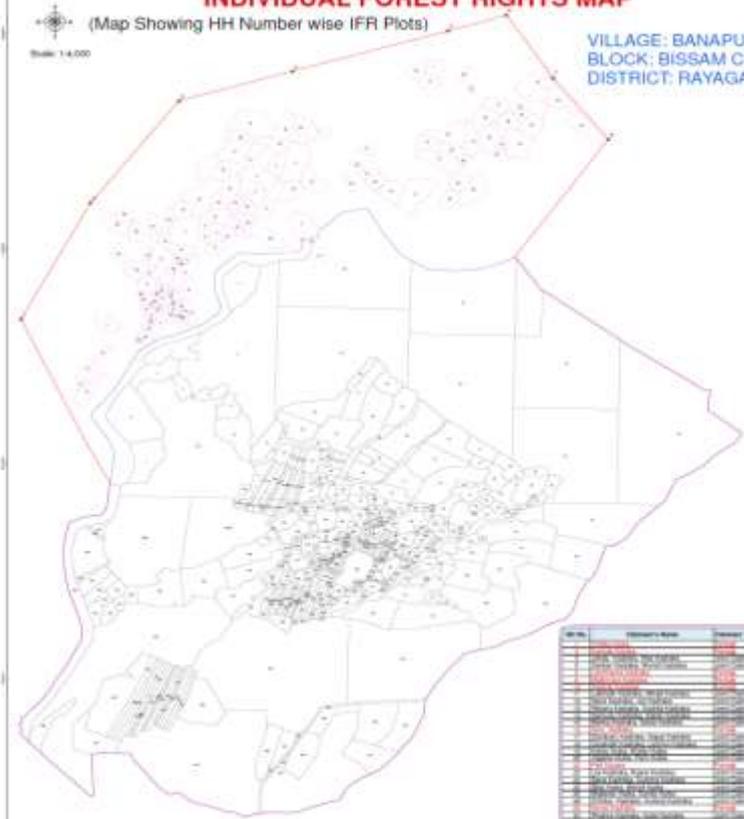


INDIVIDUAL FOREST RIGHTS MAP

(Map Showing HH Number wise IFR Plots)

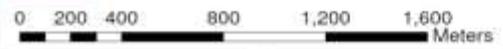
Scale: 1:4,000

VILLAGE: BANAPUR
BLOCK: BISSAM CUTTACK
DISTRICT: RAYAGADA

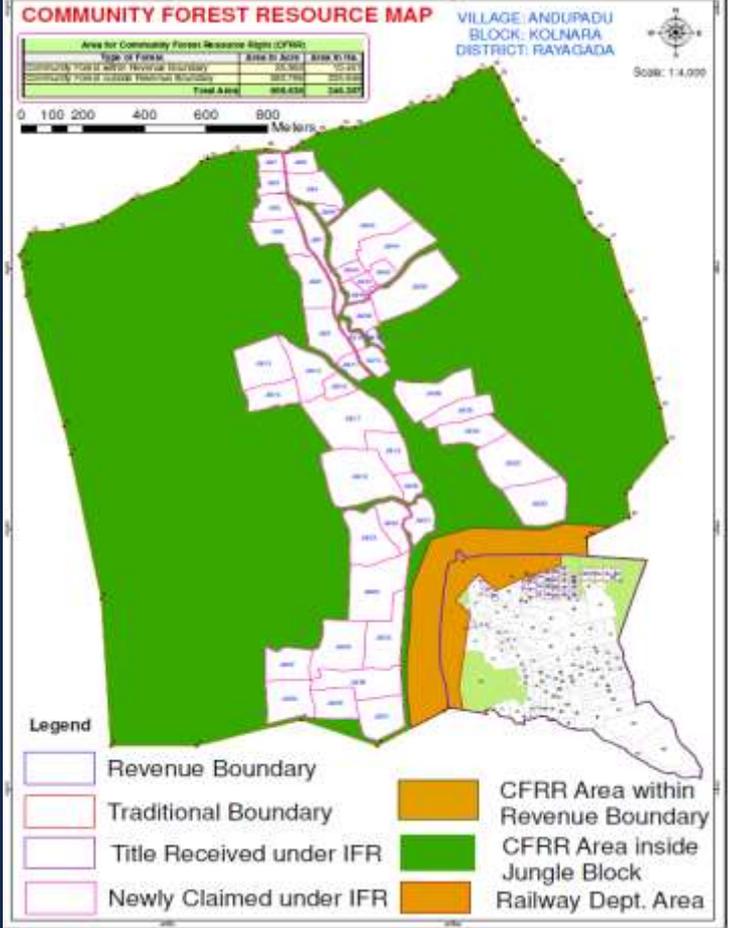


Legend

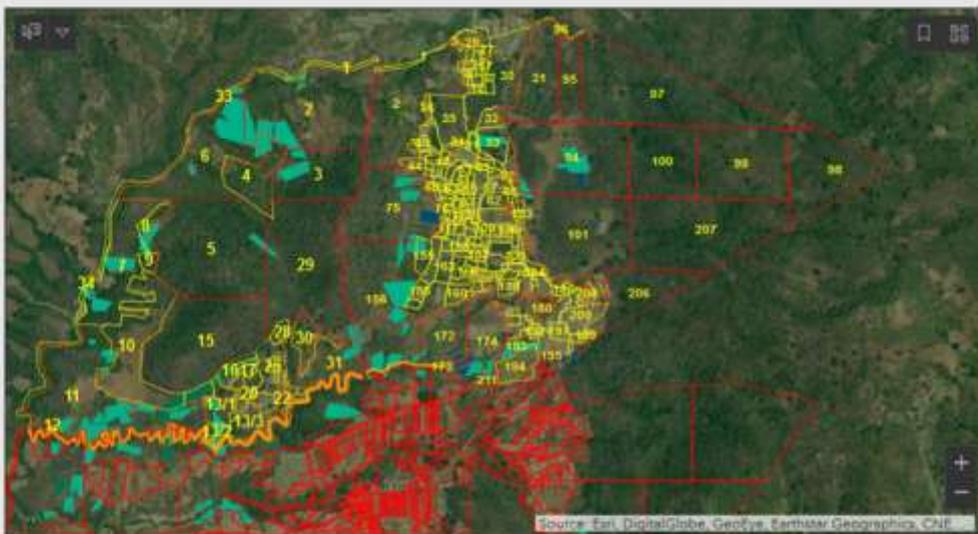
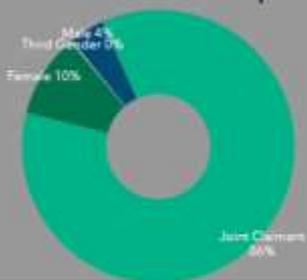
-  Traditional Boundary
-  Revenue Boundary
-  Area Claimed under IFR



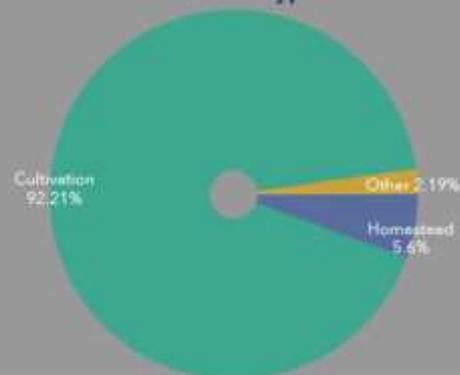
HH No.	Household Name	Plot Area (sq.m)	Area (sq.m)
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100



Gender Ownership



Land Use Type



1,744

Total Parcels Collected

Total Individuals Captured

8.72k

Out of 1,400 Target

332.545

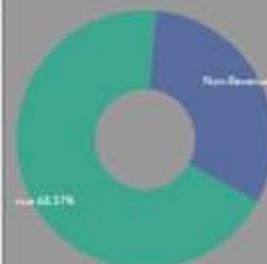
Total Hectares

Last updated: 10 Nov 2020 10:45 AM

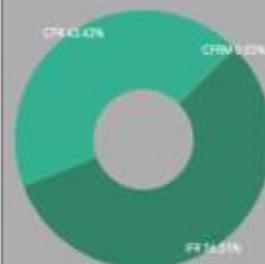
Survey Collection Frequency Distribution



Percentage of Revenues to Non-Revenue Forest



Information for IFR, CFR/R and CFR Management Planning



Insights from the Field: Assessing Cadasta's Impact on Community Land Holders

Net Promoter Score

Cadasta received a Net Promoter Score of **69** which is classified as excellent and higher than the global average of **41**.

“Comparing Cadasta's results to 60dB's benchmarks highlights the organization's impressive impact. Cadasta's Net Promoter Score (NPS) of 69 outperforms 60dB's NPS benchmark (41, across 280+ companies) by a large margin.”
-60 Decibels

Quality of Life

83% of respondents report an improved quality of life because of Cadasta

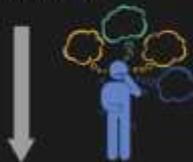


26% said their quality of life had "very much improved."

Perception of Tenure Security



Before mapping, **75%** of community landowners were 'very worried' and 'slightly worried' about losing their property.

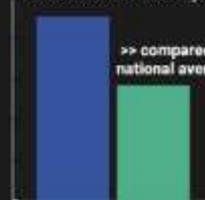


However, after documentation, **74%** report this worry has decreased.

Inclusivity Index

Another area that stood out was the high proportion of low-income landholders Cadasta is reaching.

91% of individuals they work with live below India's national poverty line.



>> compared to the national average of **57%**

Of Data Collectors:

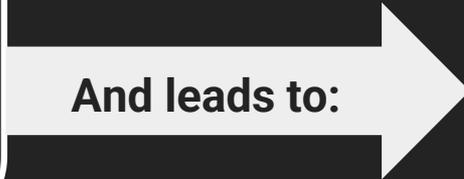
95% report not having access to a good alternative suggesting that Cadasta is filling a large market gap

Perceived Quality of Work Change:

92% Cite Improved Accuracy, Efficiency, and Workflows



Geospatial, Land Rights, and the Circular Economy



Vision 2040

Cadasta and our partners will catalyze land systems change, leading to inclusive land and resource rights for half the world's one billion tenure-insecure people.

Build a better future for 500 million people by 2040:

cadasta.org/donate

Thank you!

**Help Us Achieve Cadasta's
Audacious Vision!**

Networks | Funding | Expertise
Channels | Influence | Partnerships

Contact me at acoughenour@cadasta.org or on
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