

Beyond The Dashboard

Ensuring Data Drives Real World Change



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World Resources Institute (WRI)



WORLD
RESOURCES
INSTITUTE

27th May, 2025

World Resources Institute

As an independent research organization, we leverage our data, expertise and global reach to influence policy and catalyze change across systems like food, land and water; energy; and cities. Our 2,000+ staff work on the ground in more than a dozen focus countries and with partners in over 50 nations.



WRI's Data & Platforms



15+ years

Of experience building interactive data applications

950,000

Annual users on our most established data tool Global Forest Watch

13+

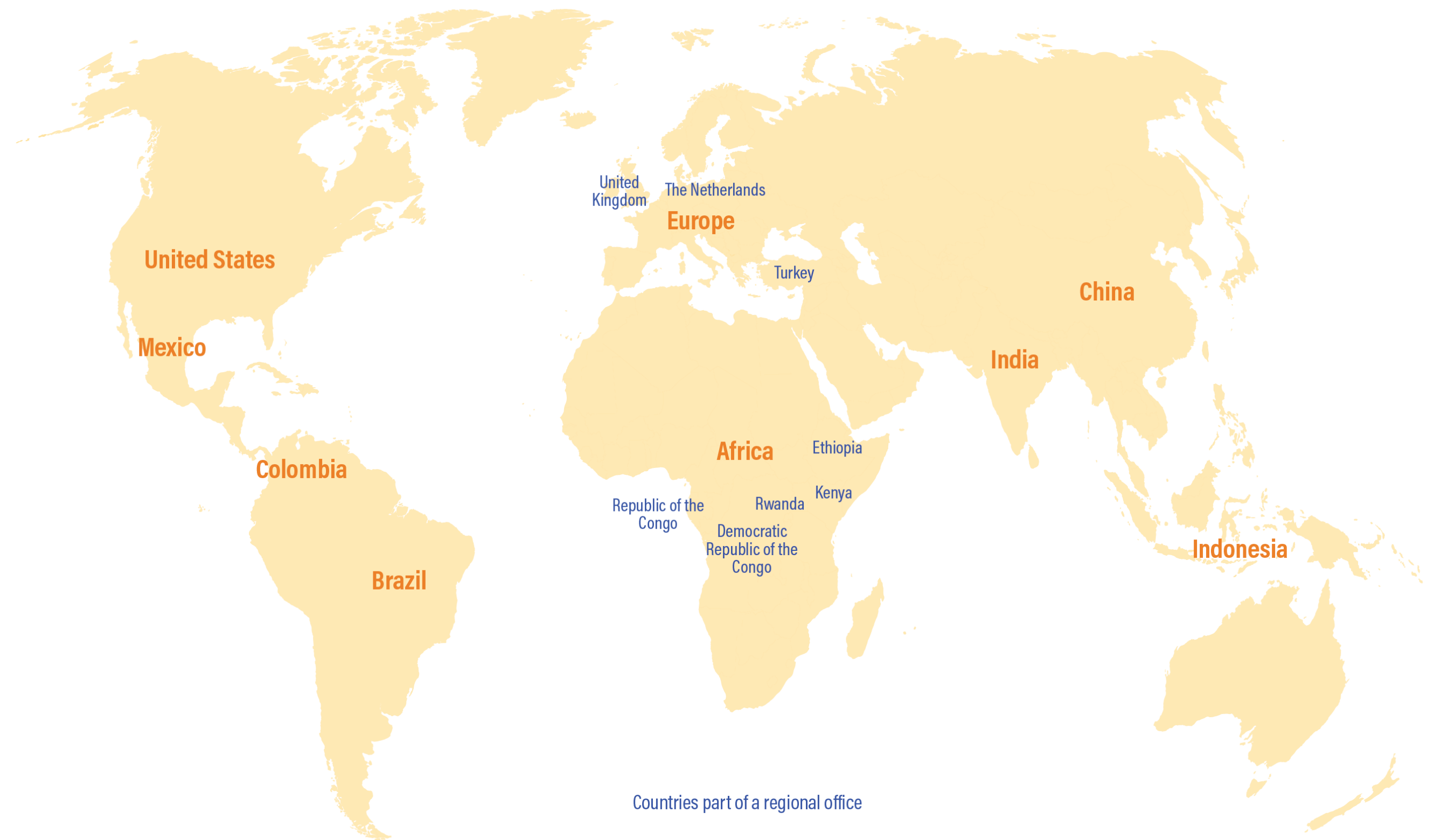
Established data platforms

≈40

Data products overall

Listening to Local Perspectives

- Brazil
- China
- Colombia
- Democratic Republic of the Congo
- Ethiopia
- India
- Indonesia
- Kenya
- Mexico
- Republic of the Congo
- Rwanda
- The Netherlands
- United Kingdom
- United States





“If you don't understand, **ask questions.**
If you're uncomfortable about asking questions, say you are
uncomfortable about asking questions, and then ask anyway...

Then listen some more”

*Chimamanda Ngozi Adichie,
Americanah*

Beyond The Dashboard

Ensuring Data Drives Real World Change

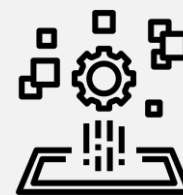
People won't use data when they:

- 1 Can't find it
- 2 Can't understand it
- 3 Can't trust it

So we:



Data- Make accurate, impactful data available

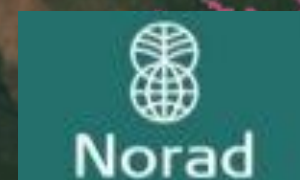


Delivery- Provide the tools to make it usable in context



People- Engage deeply & respond to feedback

Global Forest Watch



Global Tree Cover Loss

The Tree Cover Loss data represents the **removal of tree canopy** at a given location, measured annually at 30 x 30m resolution.

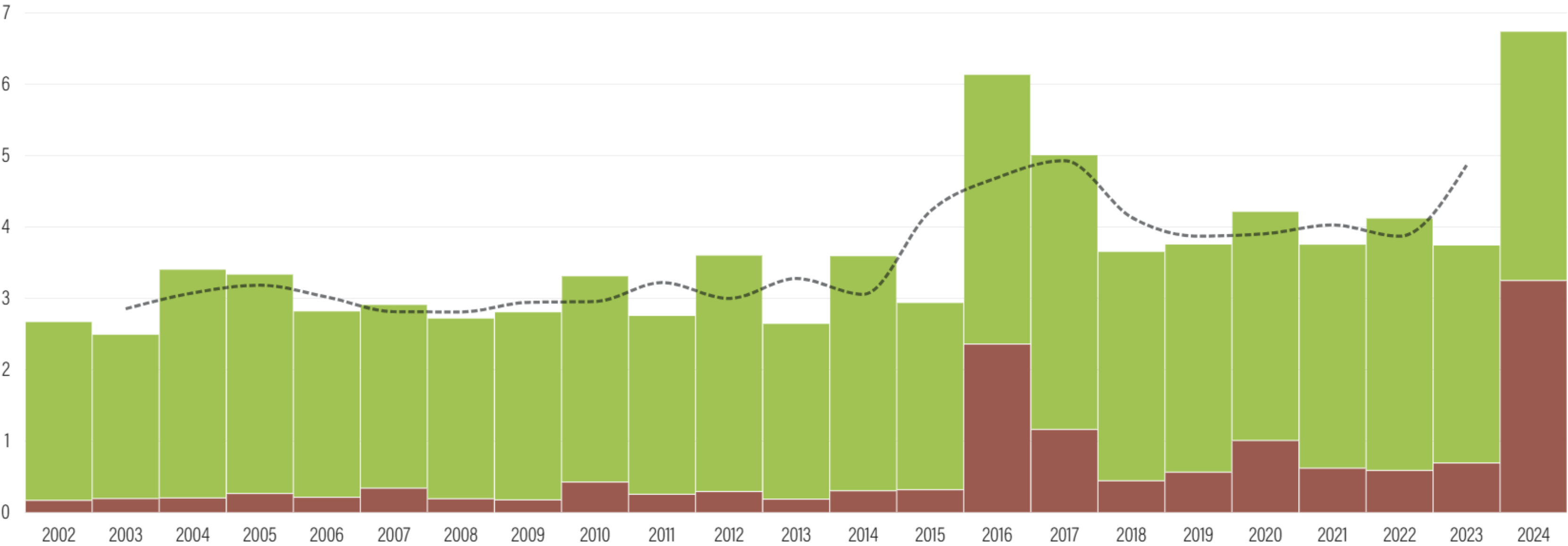
It reflects areas where trees have been cleared or lost due to disturbances such as logging, fire, disease, or land use change.

2024 showed more tropical forest lost to fire

Tropical Primary forest cover (2001): 1,000 Mha

■ Moving average ■ Loss to fires ■ Loss to other drivers

Primary forest loss (Mha)



Non-fire related loss can occur from mechanical clearing for agriculture and logging, as well as natural causes such as wind damage and river meandering. The three-year moving average may represent a more accurate picture of the data trends due to uncertainty in year-to-year comparisons. This figure is calculated with a 30 percent minimum tree cover canopy density.



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The age of extinction

Deforestation

The age of extinction is supported by

the guardian.org

About this content

Patrick Greenfield

Wed 21 May 2025 05:01 BST

Share

Fires drove record loss of world's forests last year, 'frightening' data shows

Burning, worsened by global heating, overtook farming and logging as biggest cause of destruction of tropical forests



The Americas | A losing battle

Wildfires devastated the Amazon basin in 2024

They wiped away all progress governments had made to curb deforestation in recent years

Burning up

Primary-forest loss in Brazil, Bolivia, Colombia and Peru, '000 km²



Year	Fire ('000 km ²)	Other causes ('000 km ²)
2002	15	15
2003	15	15
2004	20	15
2005	20	15
2006	15	15
2007	15	15
2008	15	15
2009	15	15
2010	15	15
2011	15	15
2012	15	15
2013	15	15
2014	15	15
2015	15	15
2016	30	15
2017	25	15
2018	15	15
2019	15	15
2020	20	15
2021	15	15
2022	20	15
2023	15	15
2024	45	15

Source: Global Forest Watch

CHART: THE ECONOMIST

CHINADAILY.com.cn

Global Edition

May 22, 2025

HOME | EUROPE

'Red alert': Fires drive tropical forest loss to record high

Updated: 2025-05-22 09:23

NewScientist

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News Features Newsletters Podcasts Video Comment Culture Crosswords | This week's magazine

Health Space Physics Technology Environment Mind Humans Life Mathematics Chemistry Earth Society

Environment

Tropical forest loss doubled in 2024 as wildfires rocketed

A record 67,000 square kilometres of primary rainforest was lost from the tropics in 2024, with global warming and El Niño contributing to a massive jump in fire-driven damage

By Luke Taylor

21 May 2025

EXCELSIOR

Portada Impreso Tv Radio Imagen Tv Últi

Los 10 países con mayor pérdida de bosques tropicales primarios cambiaron ligeramente de 2023 a 2024, con Bolivia subiendo al segundo lugar

2023: 3.74Mha

2024: 6.73Mha



Brasil

Bolivia

República Democrática del Congo

Indonesia

Perú

Laos

Colombia

Cameroon

Nicaragua

México

Otros países tropicales

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THE ECONOMIC TIMES

News

English Edition | Today's ePaper

India lost 18,200 ha of primary forest in 2024: Data

PTI • Last Updated: May 21, 2025, 04:47:00 PM IST

Synopsis

India's primary forest loss increased to 18,200 hectares in 2024, up from 17,700 hectares in 2023, according to Global Forest Watch data. Since 2001, the country has lost 2.31 million hectares of tree cover, resulting in significant carbon emissions. Humid primary forest loss accounted for 15% of the total tree cover loss between 2002 and 2024.

EnviroNews

nigeria

LAND DEGRADATION

Global forest loss, fueled by massive fires, shatters 2024 records

MAY 22, 2025 115 0

10

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**This impact
is cumulative**



Corporations improving their supply chains



Indigenous groups and local communities fighting for their land



National and subnational governments implementing policy



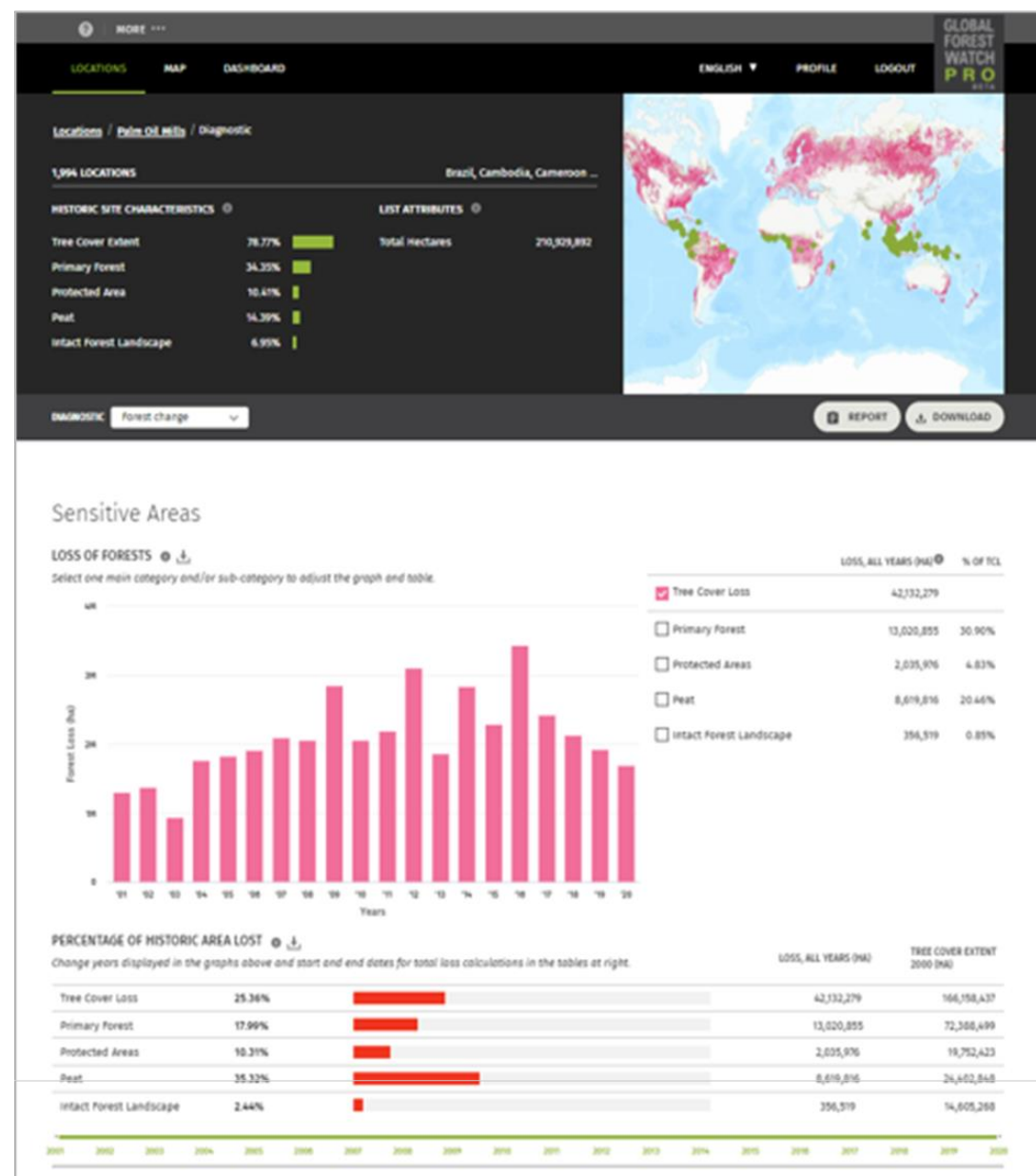
Local police and forest rangers enforcing policies



Journalists and news media holding powerful interests to account

Global Corporations- Olam Agri

- Assess risk in supply chains
- Monitor portfolios of locations across the globe



“Olam Food Ingredients uses Global Forest Watch Pro for active monitoring of roughly 400,000 farms... it was the most efficient, publicly trusted, and effective method for us”

Benjamin Wielgosz
Geospatial Development Manager
Olam Food Ingredients

Global Land Analysis and Discovery (GLAD) alerts

GLAD uses imagery from NASA's Landsat satellites to **automatically flag areas** where the forest canopy has been disturbed.

Each alert indicates a 30x30m area which has experienced a **disturbance in forest canopy**, and alerts responders of the **need to investigate**

Source: Pickens, A.H., Hansen, M.C., Adusei, B., and Potapov P. 2020. Sentinel-2 Forest Loss Alert. Global Land Analysis and Discovery (GLAD), University of Maryland



Subscriptions to GLAD alerts in 22 tropical countries decreased the probability of deforestation in Africa by 18%

Local Forest Rangers- Madagascar

- GLAD alerts delivered through Forest Watcher
- Unique research into Andrefana Dry Forests
- Deep engagement with local communities



Moving Beyond Forests

But taking the same approach:

1. **Data-** Make accurate, impactful data available
2. **Delivery-** Provide the tools to make it usable in context
3. **People-** Engage deeply & respond to feedback

Aqueduct 4.0

The baseline of water stress measures the **competition for water resources**.

It is the relationship between **water demand** and the **available renewable water supply** in a basin.

BASELINE WATER STRESS

Extremely high
(>80%)

High
(40-80%)

Medium-high
(20-40%)

Low-medium
(10-20%)

Low
(<10%)

Arid and low
water use

Source: wri.org/aqueduct

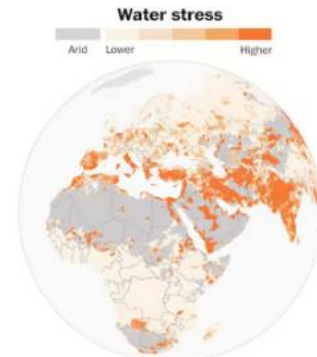
Making Headlines

The Washington Post
Democracy Dies in Darkness

Here's where water is running out in the world — and why

New research shows that by 2050 an additional one billion people will live in areas with high levels of water stress. See where water is scarcest in the world.

By Veronica Penney and John Muyskens




(John Muyskens/The Post)

E

Weekly edition The world in brief War in the Middle East War in Ukraine

International | Too much, too little. Too late?
The poisonous global politics of water
Polarisation makes it harder to adapt to climate change



Los Angeles Times

Sections

WORLD & NATION

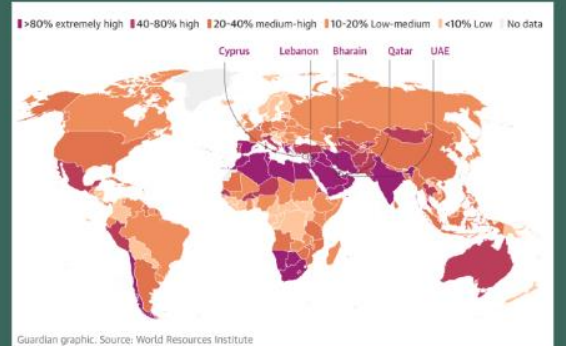
Colorado River Basin ranks among the world's most water-stressed regions, analysis finds



Parker Dam holds back the Colorado River between Arizona and California and creates Lake Havasu. From the reservoir, water is pumped to the Colorado River Aqueduct and flows to Southern California's cities. (Brian van der Brugg / Los Angeles Times)

The Guardian

WRI's Aqueduct water risk map reveals demand for water is increasing around the world and has more than doubled since 1960.



Guardian graphic. Source: World Resources Institute

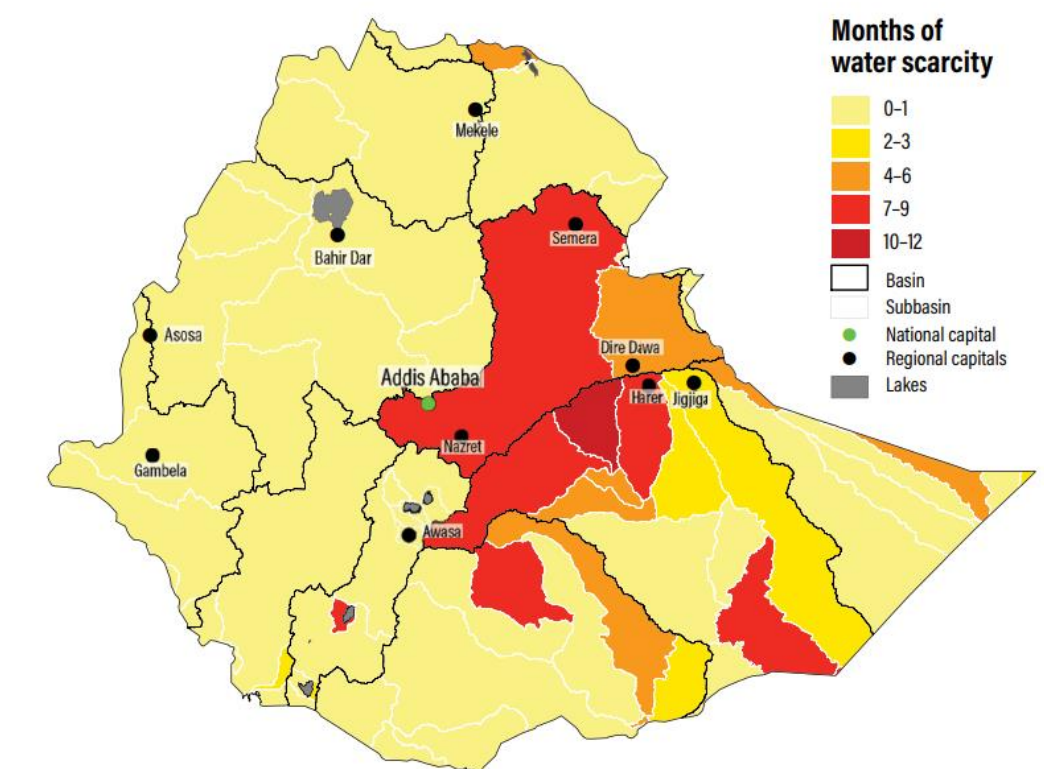
By 2050, water demand around the world is projected to increase by between 20% and 25%.

Managing Supply Chains- The Aqueduct Alliance



National and Subnational Governments- Ethiopia

- The Aqueduct Water risk model, downscaled and inclusive of local government data
- Additional mapping capacity and expertise
- Consultations for enhanced nature based solutions
- Co-developed, granular datasets for national and regional level planning



Source: Adane, Z., T. Gelassie, and E.L. Swedenborg. WRI. 2021

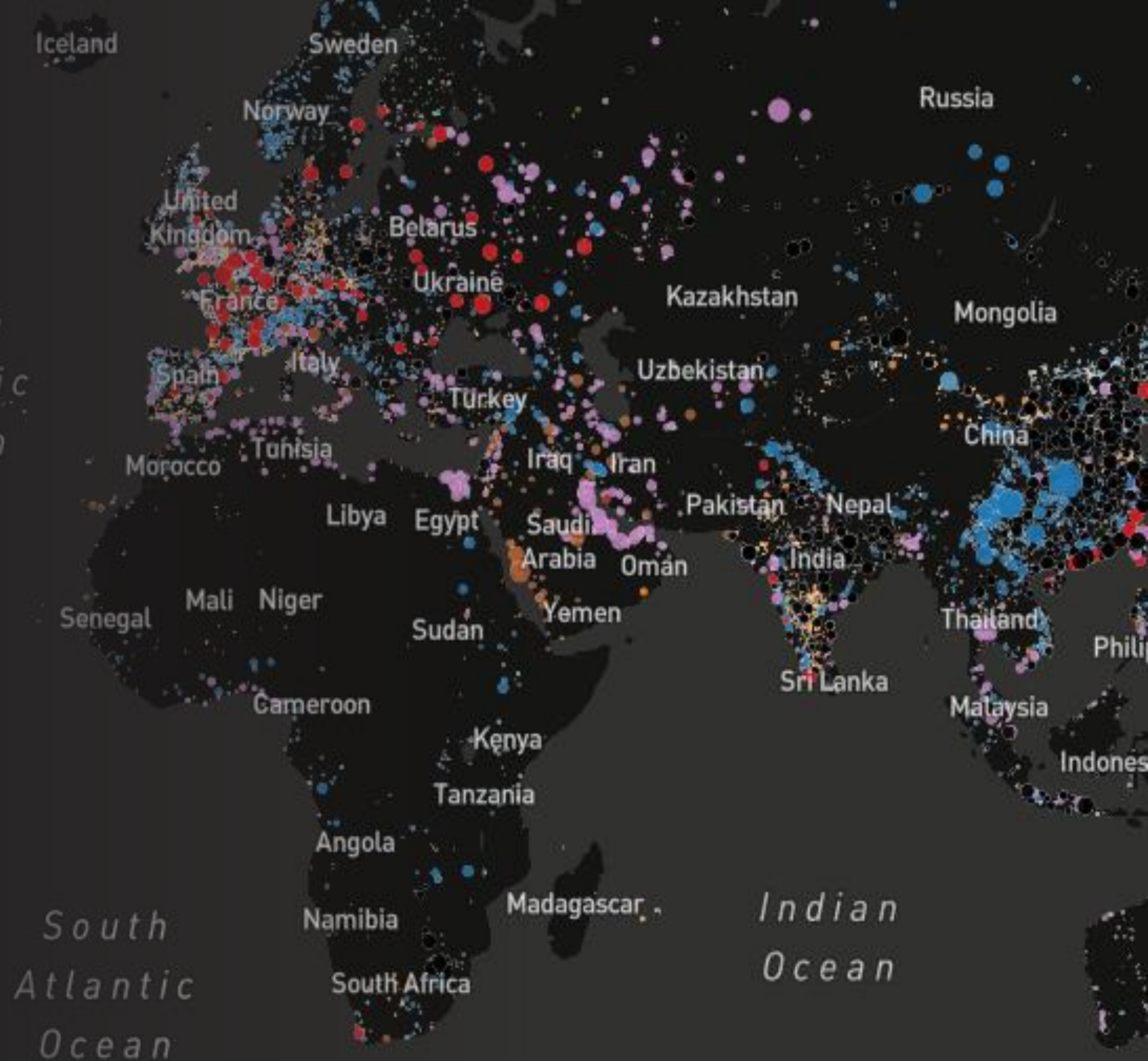


Ethiopia is committed to taking action on climate change, and WRI's expertise and experience are invaluable in helping the country achieve its goals.

Her Excellency Minister Dr. Fitsum Asefa

Global Power Plant Database

Open, global dataset of the geolocations of the world's power plants, and covers approximately 30,000 power plants from 164 countries



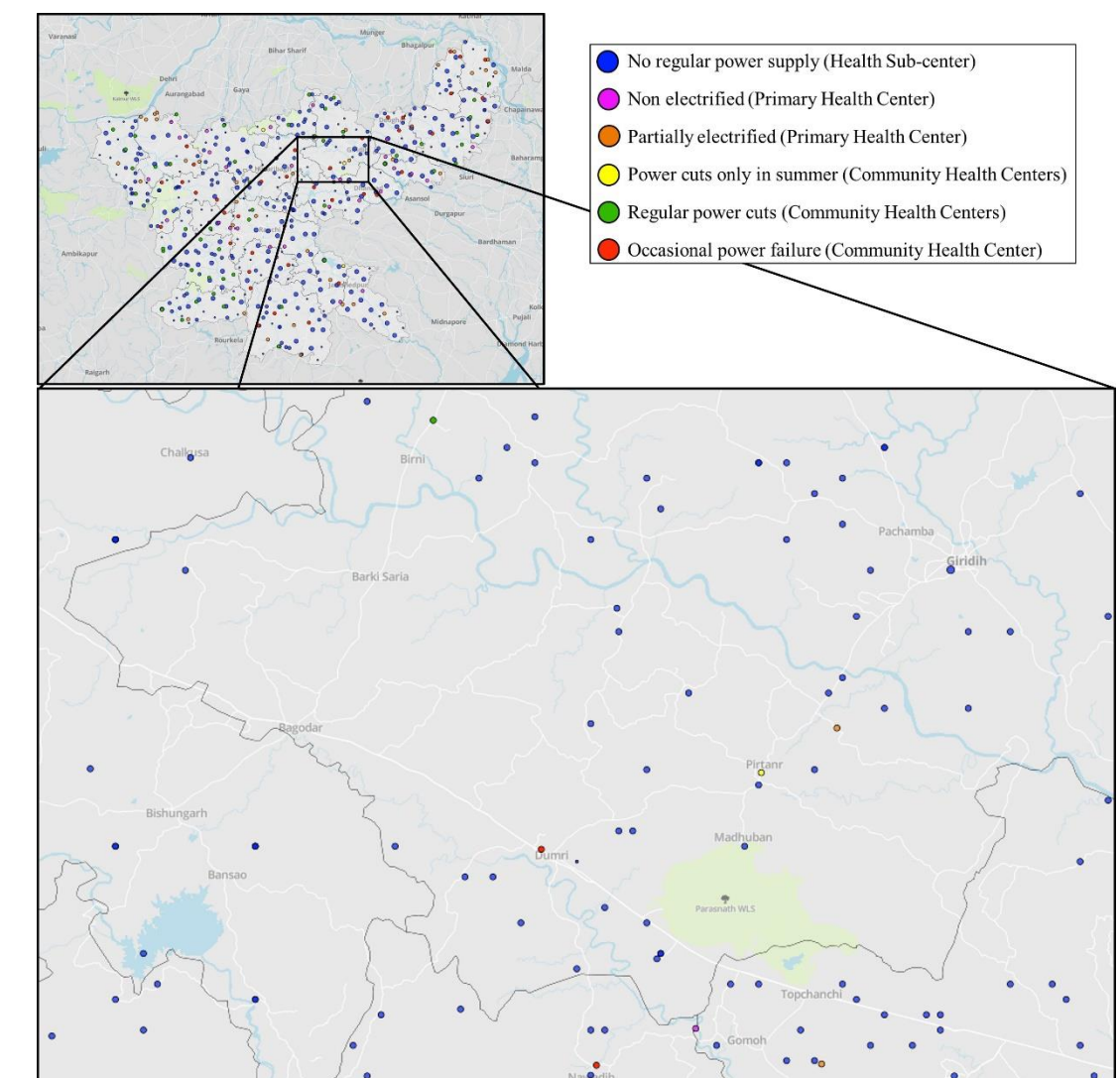
Energy Planning Agencies-India

Energy Access Explorer allows:

- **Layered data:** Combines energy, environment, and population data to reveal gaps and opportunities.
- **Custom uploads:** Lets users add and visualize their own data for localized insights.

This is paired with:

- **Local engagement** to build trust
- **Tailored research** where needed



Health facilities in government-owned buildings, Jharkhand.

Source: WRI

Listening to identify:

- 1 The right data-** What accuracy at what frequency?
- 2 The right delivery-** What are people trying to do with the data?
- 3 For the right people-** Who is making decisions which lead to change?



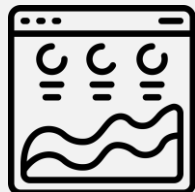
Accurate, impactful data



Reliable infrastructure and data management



Platforms, apps and tools



Custom data analyses



Working together and building trust



Thank You.

STAY IN TOUCH



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