

Science with a Heart

Science is at the core of Dr. Jane Goodall's story and at the heart of the Jane Goodall Institute's mission. Our Conservation Science team partners with and supports global JGI offices, local communities, and governments to continue Jane's trailblazing research on chimpanzees, combat threats to species and habitats, improve people's livelihoods, and inspire hope.

The JGI Conservation Science program integrates cutting-edge technology with community-led action across our programs to develop effective, scalable solutions for urgent conservation challenges.

Science and technologies are fundamental to the JGI's Tacare community-led approach, serving as tools for empowerment, transparency, and effective, data-driven decision making. They bridge the gap between global conservation priorities and local needs, supporting communities to actively manage their own natural resources. Satellite imagery, GIS, and mobile app technologies provide transparent, visual data. When combined with traditional ecological knowledge through participatory mapping, communities gain insight to collaboratively design and implement their own village land-use plans and establish forest reserves, giving local people the tools to secure their own futures.

"Only if we understand, will we care. Only if we care, will we help. Only if we help shall all be saved."

DR. JANE GOODALL, DBE | Founder, Jane Goodall Institute, UN Messenger of Peace

Science Impact



1,679

local champions trained in community-led conservation in 2024

165,000+

hours of chimpanzee observation at Gombe Stream Research Center

300+

peer reviewed journal publications, and over 500 reader articles on research from Gombe

Science Program Objectives

- **Advance Understanding Through Monitoring:** Continuously expand the understanding of chimpanzee behavior, habitats, and threats using long-term research and innovative technologies.
- **Inform and Accelerate Conservation:** Use data and scientific insights to develop and implement effective, data-driven conservation strategies that address the convergence of climate change, biodiversity loss, and people's livelihoods.
- **Support Local Stewards:** Infuse science into community-led efforts, enabling local people to make informed, compassionate decisions about their natural resources and development needs.
- **Innovate and Scale Solutions:** Explore and develop tools with cutting-edge technologies such as AI and remote sensing to solve the world's toughest conservation challenges at scale.

Collaborative Science

Our Science & Knowledge Platform along with technology advancements, apps, satellite data, expertise, and best practices are shared across JGI's global network to ensure consistent and cost-effective monitoring and conservation efforts globally. We integrate scientific data and technology with Indigenous knowledge, values, and needs, creating more effective and locally relevant conservation strategies. We work closely with local governments to build science and technology capacity and strengthen the ability to implement national government policies and strategies. We collaborate with academic partners to advance new discoveries and integrate scientific research findings into conservation strategies and impact on the ground. We partner with private sector and technology companies to adopt, leverage, and use advanced technologies, resources and expertise to scale our operations and impact.



Cutting-Edge Innovations

Geospatial Technology & Tools: We use a combination of high-resolution satellite imagery, drones, and geographic information systems (GIS) technologies to map chimpanzee range and movements, monitor forest health, and observe human impacts on wildlife habitats.

Citizen Science: We train a variety of conservation stakeholders — including local community monitors, government employees, and partners — to use smartphones and other mobile data collection tools and apps to collect real-time information on threats, allowing for rapid response.

Biomonitoring & AI: We are pioneering the use of bioacoustics and camera traps to monitor wildlife in key chimpanzee habitats. Non-invasive sensors record images and soundscapes, and AI algorithms monitored by our experts analyze these to gain insight into biodiversity and behaviors.

AI Chimpanzee Face & Behavior Recognition: We are expanding machine learning and generative AI models to analyze vast datasets going back over 65 years, identifying individual chimpanzees and complex social behaviors for quicker analysis and deeper insights.

Advanced Disease Detection (One Health): Our Gombe Stream Research Center lab houses cutting-edge equipment for on-site DNA analysis and pathogen screening. This allows for the precise detection and monitoring of disease-causing agents in wildlife, domesticated animals, and humans, helping to predict and manage potential zoonotic disease outbreaks.