

Digital Transformation Dialogues

Webinar

Greening the Future: Navigating Digital Transformation for Land Restoration

5 June 2024

14:00 - 15:00 CEST

[www.itu.int/cities/
digitaltransformationdialogues](http://www.itu.int/cities/digitaltransformationdialogues)



Navigating Digital Transformation for Land Restoration

June 5, 2024

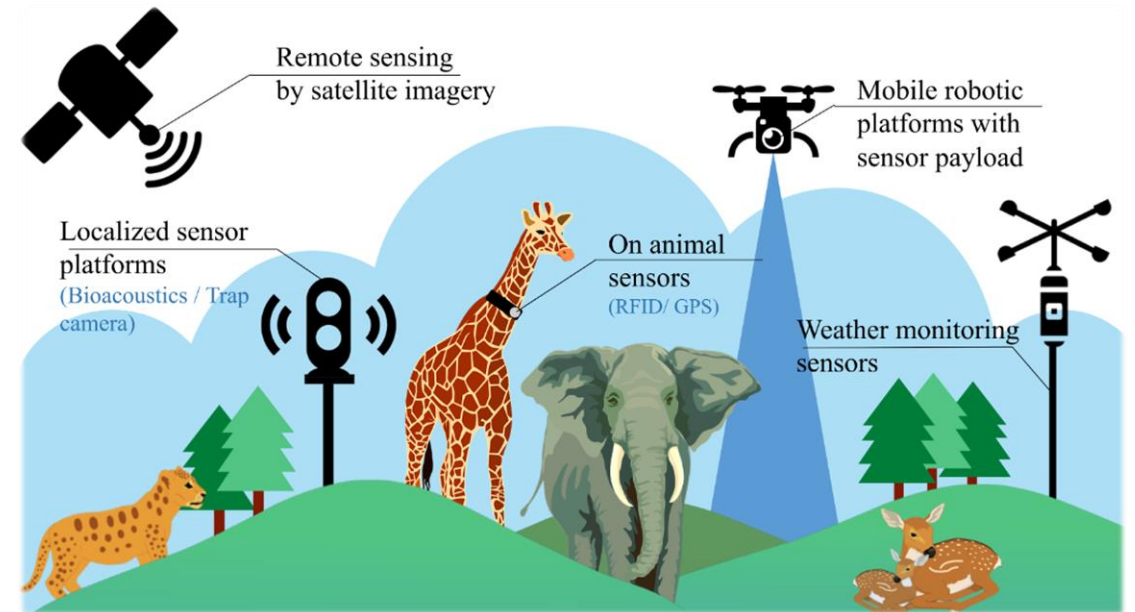
Jean-Manuel Canet, ITU-T SG5 Vice-Chairman

Senior Manager Climate Biodiversity, Orange CSR Group

ICT and digital technologies impact on land restoration

ICT helps on...

- Species identification, land and biodiversity monitoring
- Predictive modelling
- Habitat mapping and restoration
- Illegal activity detection
- Optimized planting and watering
- ...



Some examples by Orange



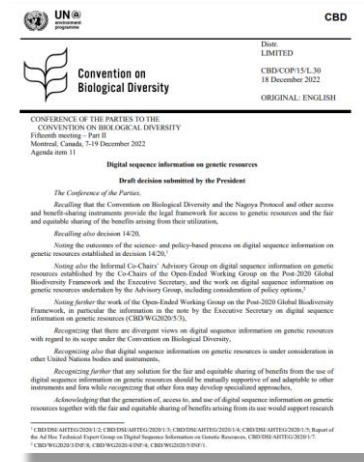
- In Cameroon, the ongoing CAMERR project with Sia Partners, to support Planète Urgence in a large-scale project to restore and sustainably manage mangroves
- In Madagascar, reforestation of degraded land with Canopy, using in particular Pongamia, in order to to combat soil depletion and erosion, improve the fertility of degraded soils, reproduce, conserve and enhance the status of endemic species and sequesterate carbon



Global Biodiversity Framework



CBD COP15 Goals



COP15 Targets related to ICT:

- **TARGET 1: Plan and Manage all Areas To Reduce Biodiversity Loss**
- **TARGET 8: Minimize the Impacts of Climate Change on Biodiversity and Build Resilience**
- **TARGET 14: Integrate Biodiversity in Decision-Making at Every Level**
- **TARGET 15: Businesses Assess, Disclose and Reduce Biodiversity-Related Risks and Negative Impacts**

ICT and digital technologies impact on land restoration

more is needed on...

- Sufficient and accurate global land / biodiversity data
- Technical capabilities
- Enhanced data collection and shared visualization
- Government involvement and legal support
- ...



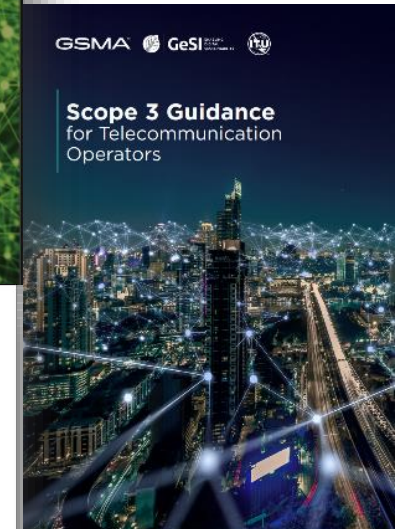
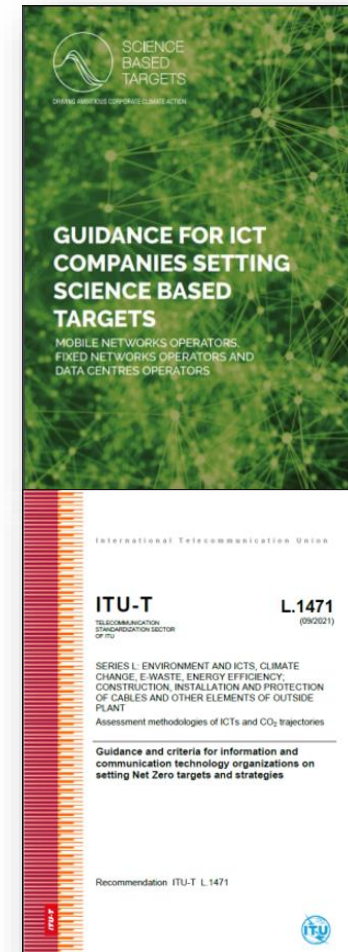
Together for Nature : How can ITU standards foster action ?



ITU-T Study Group 5

EMF, environment, climate action, sustainable digitalization, and circular economy

- ICTs related to the environment, energy efficiency, clean energy and sustainable digitalization for climate actions
- Impact on Biodiversity
- Circular economy and e-waste management
- Electromagnetic compatibility, resistibility and lightning protection, Human exposure to electromagnetic fields...



- **Empowering change: new standards to come for biodiversity conservation**

Two Recommendations are under development in ITU-T SG5:

L.biodiversity footprint

Methodology for the assessment of the footprint of an ICT organization on biodiversity
Taking into account the different frameworks: CBD, CITES, SBTN, TNFD, CSRD, GBS...
Analysis of pressure points on ecosystems, on site versus aggregated levels

L.biodiversity opportunities

Development of guidance on how to assess the second order effects of ICT solutions on biodiversity, including positive effects.

e.g. how to assess the impact of AI, earth observation, bioacoustics, collection and analysis of biodiversity data such as state of species, population sizes, habitat changes...



Call to Action

Help us continue assessing the impact of ICTs on biodiversity



Join us:

Next SG5 Meeting
17-21 June 2024
Wroclaw, Poland





Thank you!



Email

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Website

[SG5: Environment, climate change and circular economy](#)