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World Wildlife Day 2024

GENEVA CELEBRATION

4 MARCH 2024 | 14:30 - 16:00 CET
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Juan Carlos VASQUEZ

Chief of Legal Affairs and Compliance,
CITES | Moderator

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Speakers

Doreen BOGDAN-MARTIN

Secretary-General, ITU

H.E. Amb. Bathsheba Nell CROCKER

Permanent Representative of the United States to the United Nations Office at Geneva

Mathias LÖRTSCHER

Head, CITES Management Authority, Switzerland

Dao NGUYEN

Senior Programme Manager, Conservation Action, IUCN

John DAVID

Information Systems Officer, Automated System for Customs Data, UNCTAD

Jean-Manuel CANET

Senior Manager, Climate and Biodiversity, Orange Group | Vice-chair of ITU-T SG5 "EMF, Environment, Climate action, Sustainable Digitalization, and Circular Economy

Simone HAYSOM

Director, Environmental Crime and Head, ECO-SOLVE, Global Initiative Against Transnational Organized Crime

Esther GITHINJI

East Africa Conservation Technology Coordinator, WILDLABS

Swabir ABDULREHMAN

Technical Director, Connected Conservation Foundation

Bourhan YASSIN

CEO, Rainforest Connection

Bertrand von ARX

Director, Biodiversity, Canton of Geneva

Julia NAKAMURA

Legal Officer, FAO

Juan Carlos VASQUEZ

Chief of Legal Affairs and Compliance, CITES | Moderator

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Welcome | Geneva World Wildlife Day Celebration

Exploring Digital Innovation in Wildlife Conservation

- Connecting Digital Technologies and Wildlife Conservation
- Advancing Digital Technologies for Wildlife Conservation
- Launch of CITES-Lex

Short Film Screening

Closing Remarks

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Doreen BOGDAN-MARTIN

Secretary-General, International Telecommunication Union (ITU)

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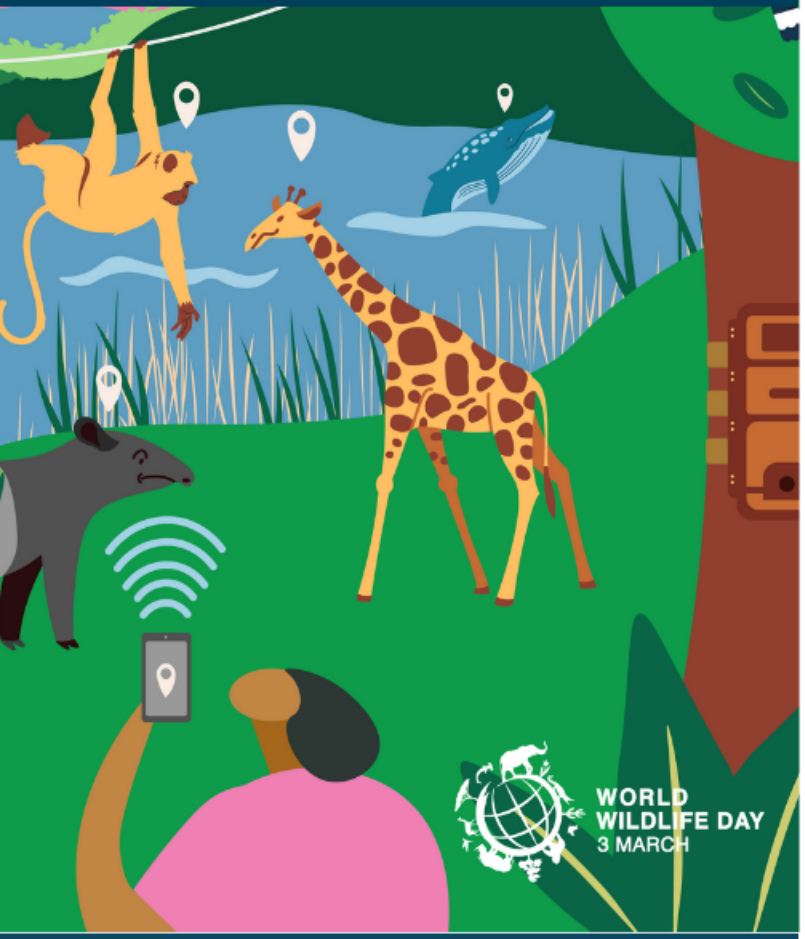

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Mathias LÖRTSCHER

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera

Head, CITES Management Authority, Switzerland

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Dao NGUYEN

Senior Programme Manager, Conservation Action,
International Union for Conservation of Nature
(IUCN)

IUCN

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Tech4Nature

Scaling up the use of digital technologies to drive the effective and equitable management of protected and conserved areas: Tech4Nature Initiative

World Wildlife Day 2024, 4 March 2024

Dao Nguyen, Senior Programme Manager, Conservation Action

Tech4Nature's Vision & Goal

Vision: To scale-up success in nature conservation through digital technology innovation.

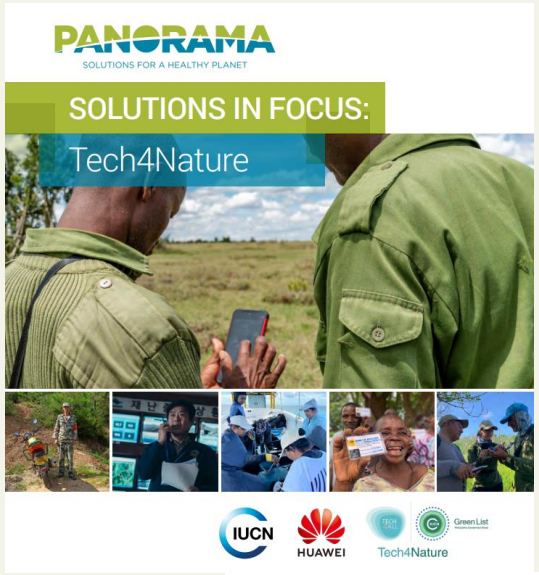
Goal: By 2026, the Huawei-IUCN Tech4Nature partnership will enable more than 300 global protected and conserved areas to use Technology to evaluate their nature conservation success.

- These 300 areas will successfully conserve species and ecosystems through fair and effective management and monitoring activities, using technology, as measured against the IUCN Green List.
- The IUCN Green List Standard will measure and certify impact and contribution of these 300 protected and conserved areas to nature conservation and the Sustainable Development Goals.

3 Years | 30+ Countries | Key species and ecosystem types | 6 Flagship conservation success cases | 300 Protected Areas

Tech4Nature's objectives

- Bridging the Gap Between Science and Conservation Action
- Identification and Protection of Critical Habitats
- Effective Management of Protected Areas
- Global Impact and Collaboration
- Supporting the Kunming-Montreal Global Biodiversity Framework
- Species Monitoring and Protection
- Community Involvement in Conservation
- Efficiency and Effectiveness in Conservation
- Transparency, Inclusivity, and Responsibility



5 Flagships - success stories for Tech4Nature

Tech4Nature

Species

China – *Acoustic monitoring and AI tech*

- 100K acoustic records compiled
- 4G signal **real-time transmission** from 5 acoustic devices
- A preliminary recognition model established to help develop **auto-recognition algorithm**

Marine

Mauritius – *Tech for community coral conservation*

- **20,000 coral fragments** have been transplanted in degraded reefs and attracting endemic species
- **Involvement of local fisher community** in coral farming through an ongoing awareness campaign
- Site proposed to government to be a marine PA
- **Underwater live cameras** installed to feed into new app help monitor corals and detect invasive species

Wetland

Mexico – *Camera + acoustic monitoring of key species and ecosystem*

- 20 camera traps + 70 AudioMoths installed
- 49 species identified, incl. 5 jaguar individuals using camera traps
- **Community-centred approach** and collaborations (local government and communities, university, NGO e.g., RFCx)
- **96% accuracy** of algorithm developed for jaguar ID
- Site started Green List journey

Mountain

Switzerland – *carbon measurement in PCAs*

- **Methodology developed** in Urnasch forest reserve based on the IUCN Green List
- **Global outlook**, can be an attractive complementary financing model for PCAs
- **Outcomes presented to the Swiss Parks Network**

Urban

Spain – *Digital solutions to monitor tourism impacts*

- **4 PAs studied** with recommendation in tech use
- **1 Pilot site** (peri-urban to Barcelona) using digital fencing to monitor key endangered bird (Bonelli's eagle) reaction to visitation
- Involves **local government** and **academia (University of Girona)** for algorithm development and data analysis

Impact to 300+ sites and beyond

Tech4Nature

Solutions and visibility

Web Hub

Visibility and international events

Flagship publications

Additional countries successes

Rwanda

- Country-wide Green List implementation
- Support ongoing tech implementation at Akagera NP to help achieve Green List

Seychelles

- Improve digital connectivity on Cousin Island to support conservation efforts
- Design and promote remote/virtual visitor engagement programme

Central Asia

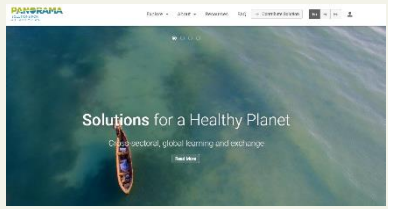
- Support *Western Tien-Shan* transboundary World Heritage site
- Harness tech solutions in the region

Asia

- The IUCN Green List in Asia is successfully promoted through various forums and events
- 10+ countries newly committed to the GL:
  - Bangladesh,
  - Cambodia,
  - India,
  - Maldives,
  - Mongolia,
  - Nepal,
  - Pakistan,
  - Sri Lanka,
  - Thailand, and
  - Timor Leste

Data management

- Digital Green List evaluation improved on the cloud-based IUCN database to support functions and interoperability with other platforms, i.e.:
  - IUCN GL website
  - World Database of PAs (WDPA)
  - PANORAMA



THANK YOU

www.tech4nature.iucngreenlist.org
www.iucngreenlist.org
greenlist@iucn.org
#iucngreenlist #Tech4Nature

dao.nguyen@iucn.org

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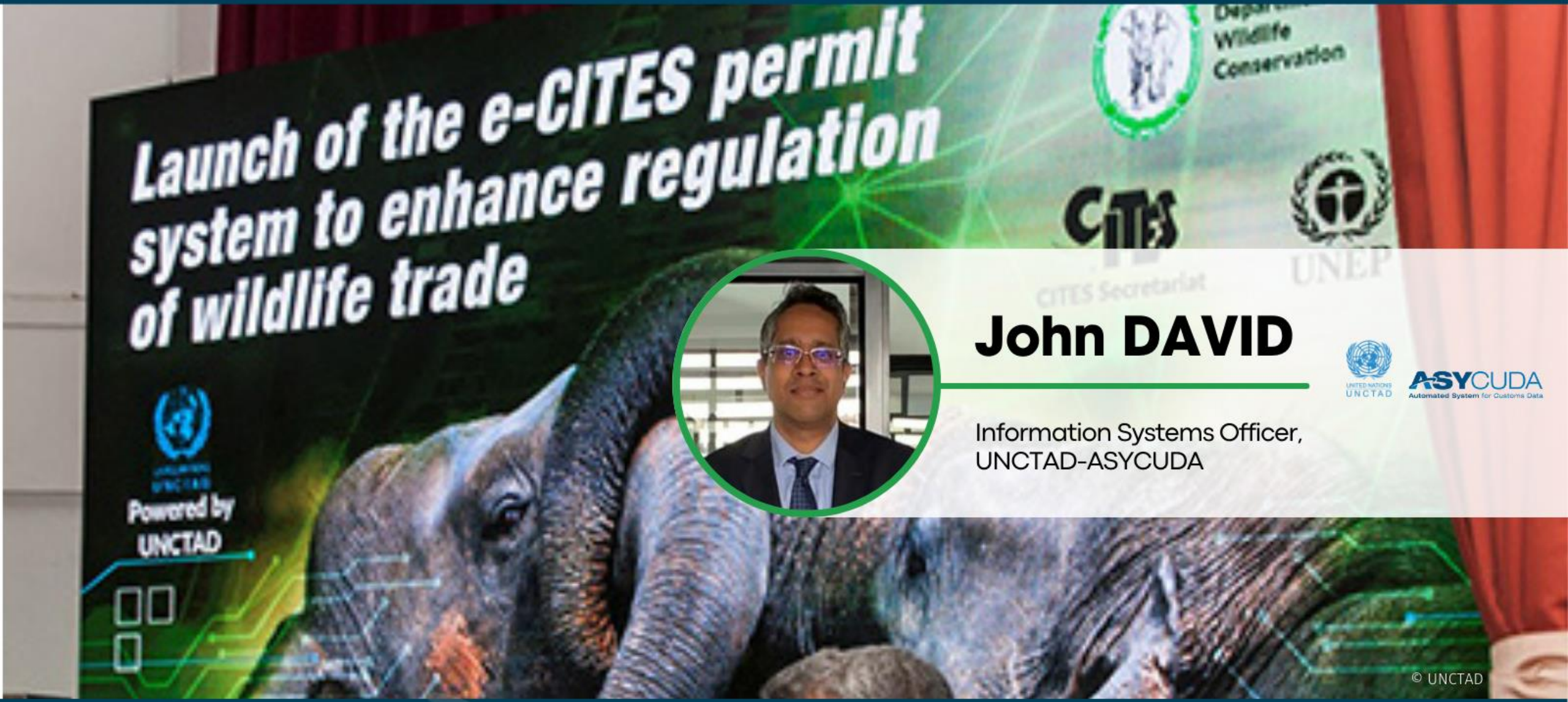

John DAVID

Information Systems Officer,
UNCTAD-ASYCUDA

UNCTAD

ASYCUDA Automated System for Customs Data

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ASYCUDA
Automated System for Customs Data

UNITED NATIONS
UNCTAD

eCITES
POWERED BY ASYCUDA

UNCTAD / March 2024

eCITES@asycuda.org

Context

eCITES@ASYCUDA

Using state of the art information technology and information management approaches to combat illegal trade in wildlife

March 2010

MOU signed between UNCTAD and its ASYCUDA Programme and the CITES Secretariat

December 2018

Signing of a project with the CITES Secretariat to develop the eCITES@ASYCUDA BaseSolution

April 2019

Signing of a project with the Sri Lanka Department of Wildlife Conservation (DWC) to deploy the eCITES@ASYCUDA in Sri Lanka

February 2020

Launch of UNCTAD's ASYCUDA eCITES system at the Department of Wildlife Conservation in Sri Lanka - live operations

Sep-Oct 2022

- eCITES v2
- Implementation & launch in Mozambique

February 2023

Meeting between the Secretaries-General of UNCTAD and CITES

- Decision to strengthen cooperation

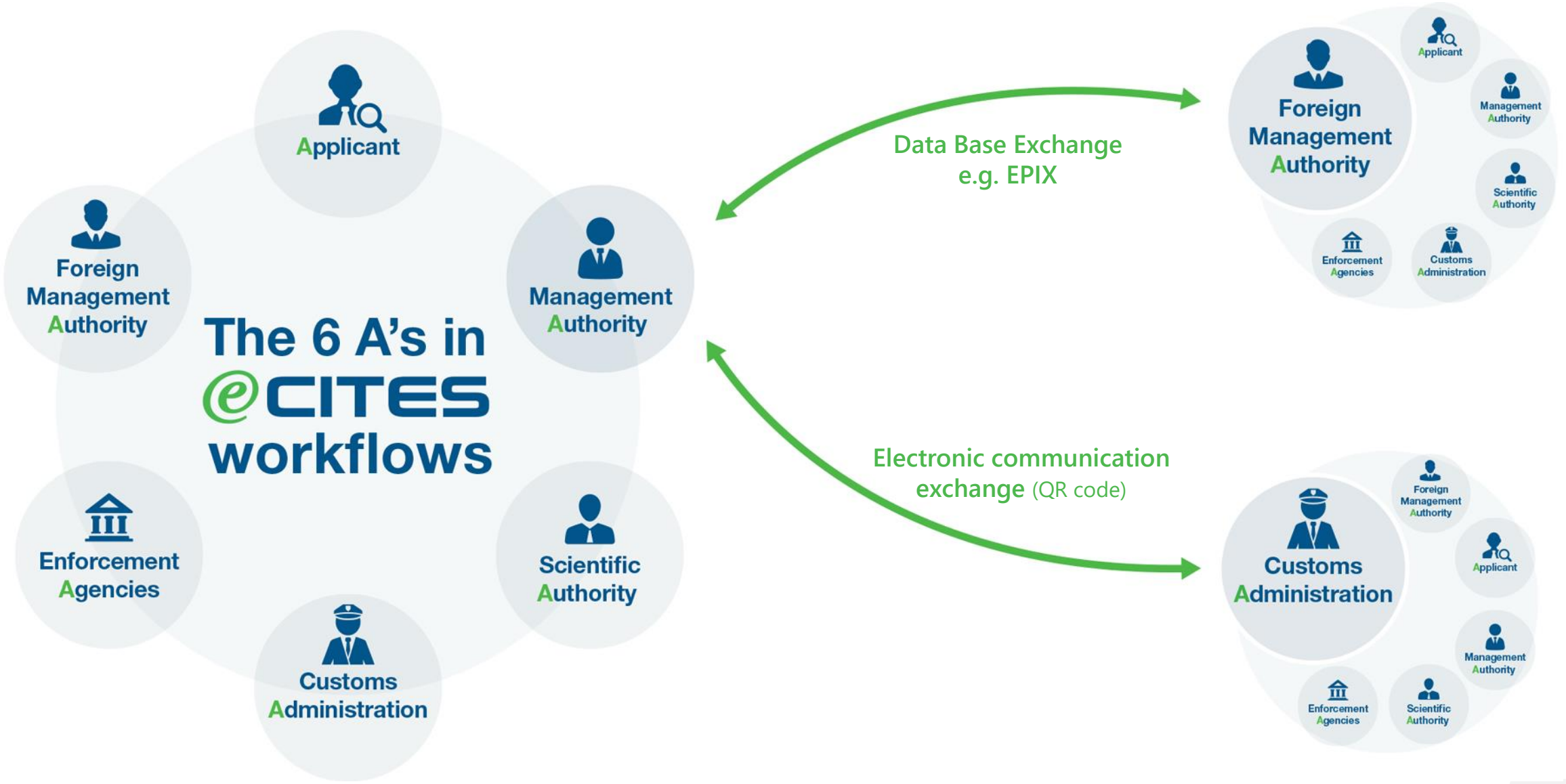
December 2023

- Integration with latest Species+ database
- Alignment with CITES Electronic Permitting Toolkit Version 3.0

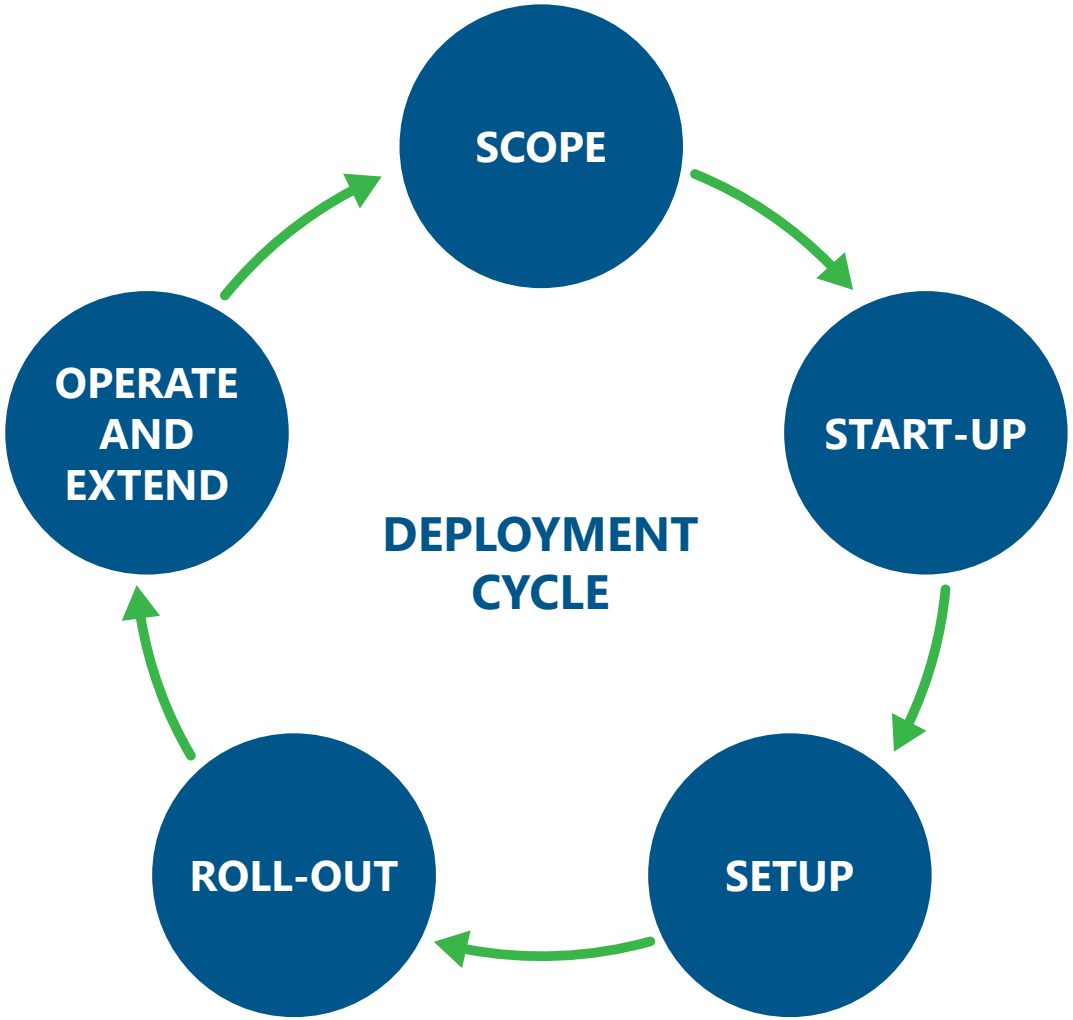
March 2024

- Development of EPIX completed
- EPIX testing with Swiss MA starting

Actors and Workflow



Implementation



AUTOMATION CYCLE

Electronic support for all the steps of the permitting business process

Phase 1 - ePermit

- Request and issuance of ePermits (paper and electronic)
- Management and storage of CITES trade data for CITES annual reporting and quota management
- Inspection / risk assessments
- Payments

Phase 2 - eControl

- Permit information exchange with Customs
- Risk management and validation of quantities exported
- Single Window integration

Phase 3 - eReport

- CITES annual reports required under the provisions of Article VIII, par. 7 (b)
- Customised reports

Phase 4 - eExchange

- Exchange of national permit data between countries
- Cross-border traceability of CITES permits

eCITES
POWERED BY ASYCUDA

THANK YOU!

QUESTIONS & ANSWERS

CITES Secretariat, Palais des Nations CH-1211, Geneva 10, Switzerland
@cites
info@cites.org
cites.org

UNITED NATIONS UNCTAD
ASYCUDA Automated System for Customs Data

Palais des Nations CH-1211 Geneva 10, Switzerland
@asycudaprogram
ecites@asycuda.org
asycuda.org

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Together for Nature : How can ITU standards foster action ?

Geneva March 4, 2024

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

Together for Nature : How can ITU standards foster action ?

ITU-T Standardization Sector

Sets International Standards for Climate Action and Sustainable Digitalization

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

AI for Good Discovery

AI for Biodiversity

ICT Actions for Biodiversity Enabled by International Standards

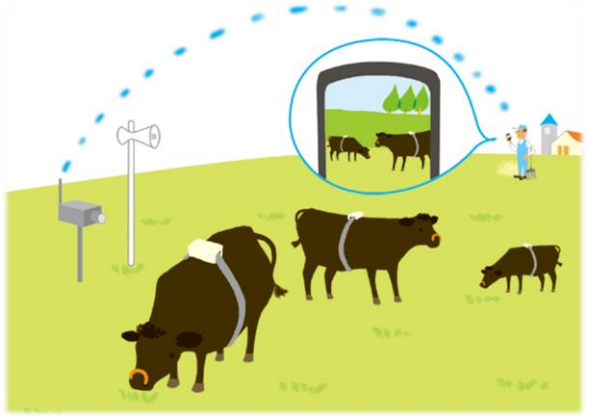
Annexes

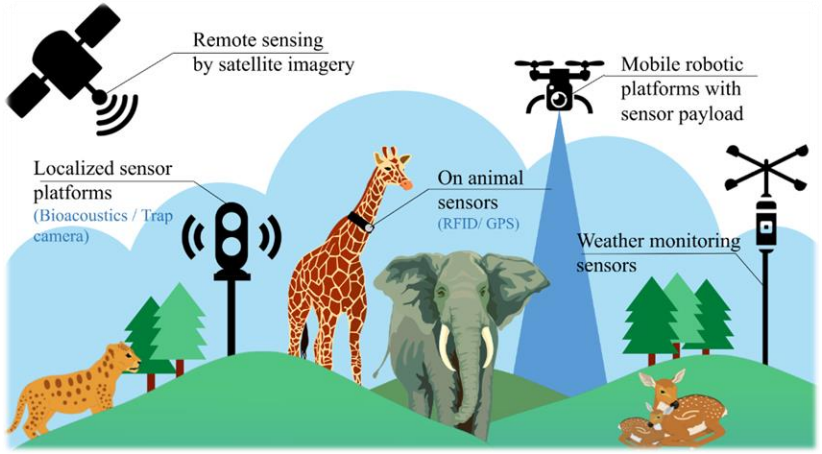
4 March 2024

ICT and digital technologies impact on biodiversity

ICT helps on…

- Species identification and biodiversity monitoring
- Predictive modelling
- Habitat mapping and restoration
- Illegal activity detection
- …





ICT and digital technologies impact on biodiversity

But more are needed on…

- Sufficient and accurate global biodiversity data
- Technical capabilities
- Standardized data collection procedures and operational environments
- Government involvement and legal support
- …

The Biodiversity plan related to the ICT sector

Convention on Biological Diversity

2020 UN BIODIVERSITY CONFERENCE
COP 15 - CP/MOP10 - NP/MOP4
Ecological Civilization-Building a Shared Future for All Life on Earth
KUNMING· CHINA

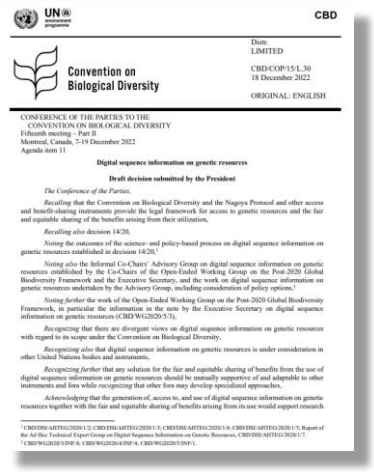
COP15 Goals

GOAL A
Protect and Restore

GOAL B
Prosper with Nature

GOAL C
Share Benefits Fairly

GOAL D
Invest and Collaborate


UN environment programme

CBD

Convention on Biological Diversity

Distr.: LIMITED
CBD/COP/15/L.30
18 December 2022
ORIGINAL: ENGLISH

CONFERENCE OF THE PARTIES TO THE CONVENTION ON BIOLOGICAL DIVERSITY
Fifteenth meeting – Part II
Montreal, Canada, 7-19 December 2022
Agenda item 11

Digital sequence information on genetic resources

Draft decision submitted by the President

The Conference of the Parties,

Recalling that the Convention on Biological Diversity and the Nagoya Protocol and other access and benefit-sharing instruments provide the legal framework for access to genetic resources and the fair and equitable sharing of the benefits arising from their utilization,

Recalling also decision 14/20,

Noting the outcomes of the science- and policy-based process on digital sequence information on genetic resources established in decision 14/20,[1]

Noting also the Informal Co-Chairs' Advisory Group on digital sequence information on genetic resources established by the Co-Chairs of the Open-Ended Working Group on the Post-2020 Global Biodiversity Framework and the Executive Secretary, and the work on digital sequence information on genetic resources undertaken by the Advisory Group, including consideration of policy options,[2]

Noting further the work of the Open-Ended Working Group on the Post-2020 Global Biodiversity Framework, in particular the information in the note by the Executive Secretary on digital sequence information on genetic resources (CBD/WG2020/3/3),

Recognizing that there are divergent views on digital sequence information on genetic resources with regard to its scope under the Convention on Biological Diversity,

Recognizing also that digital sequence information on genetic resources is under consideration in other United Nations bodies and instruments,

Recognizing further that any solution for the fair and equitable sharing of benefits from the use of digital sequence information on genetic resources should be mutually supportive of and adaptable to other instruments and fora while recognizing that other fora may develop specialized approaches,

Acknowledging that the generation of, access to, and use of digital sequence information on genetic resources together with the fair and equitable sharing of benefits arising from its use would support research

[1] CBD/DSI/AHTEG/2020/1/2; CBD/DSI/AHTEG/2020/1/3; CBD/DSI/AHTEG/2020/1/4; CBD/DSI/AHTEG/2020/1/5; Report of the Ad Hoc Technical Expert Group on Digital Sequence Information on Genetic Resources, CBD/DSI/AHTEG/2020/1/7.
[2] CBD/WG2020/3/INF/8, CBD/WG2020/4/INF/4, CBD/WG2020/5/INF/1.

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**

ITU standards supporting biodiversity

ITU-T Study Group 5 - EMF, environment, climate action, sustainable digitalization, and circular economy

- L.Biodiversity footprint: Methodology for the assessment of the footprint of an ICT organization on biodiversity

Scope 1 biodiversity:
Impacts generated in the organization's area of influence and caused directly by the company's activities.

Scope 2 biodiversity:
Indirect impacts from the of purchased energy, heat or steam consumed by the organization.

Scope 3 biodiversity:
Indirect biodiversity impacts, other than scope 2 impacts, which are a consequence of an organization's activities but arise from sources that are controlled by other organizations.

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

- How to assess?
- What are the ICT solutions in support of biodiversity protection and restoration?

Second Order Effect: *The impacts and opportunities created by the ongoing use and application of ICT.*

Thank you!

Email

tsbsg5@itu.int

Website

SG5: Environment, climate change and circular economy

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Closing Remarks

World Wildlife Day 2024 Geneva Celebration

>>> tiny.cc/WWD24Geneva

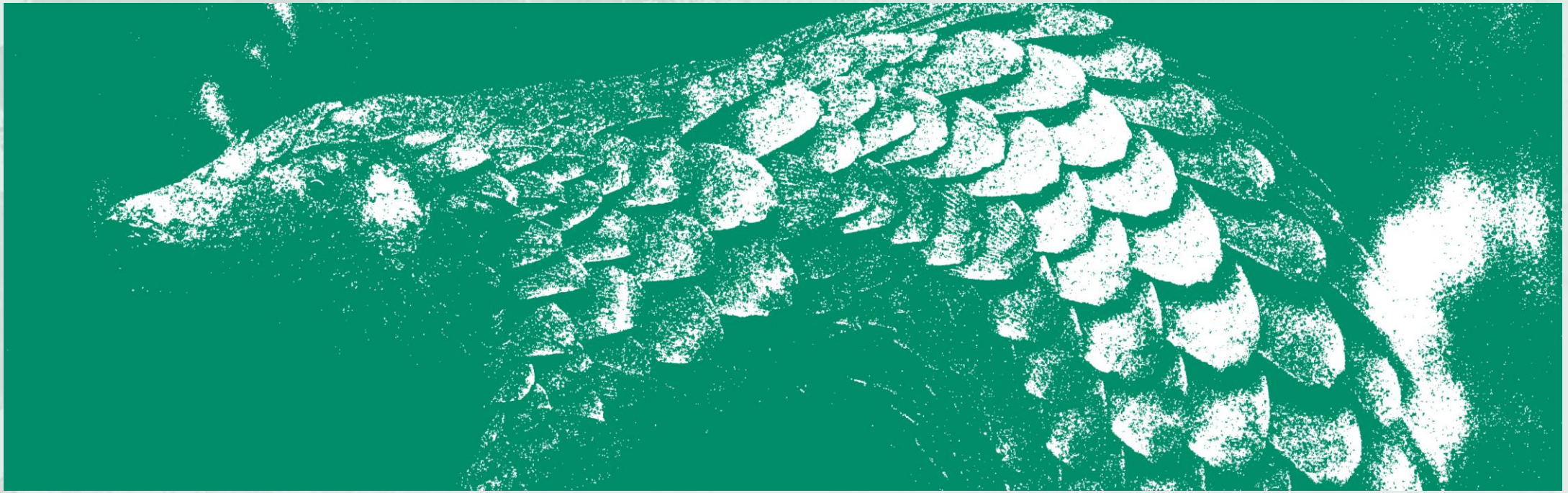
Simone HAYSOM

ECO SOLVE | GI-TOC

Director, Environmental Crime and Head, ECO-SOLVE, Global Initiative Against Transnational Organized Crime

4 MAR 2024 | 14:30 CET | ITU HQ | Room C1

WORLD WILDLIFE DAY 3 MARCH | CITES | ITU | GENEVA ENVIRONMENT NETWORK



SIMONE HAYSOM

USING AI to TRACK CYBER WILDLIFE TRAFFICKING

World Wildlife Day,ITU, Geneva, 04 March 2024

ECO SOLVE | GI-TOC | GIFP Global Illicit Flows Programme

Funded by the European Union

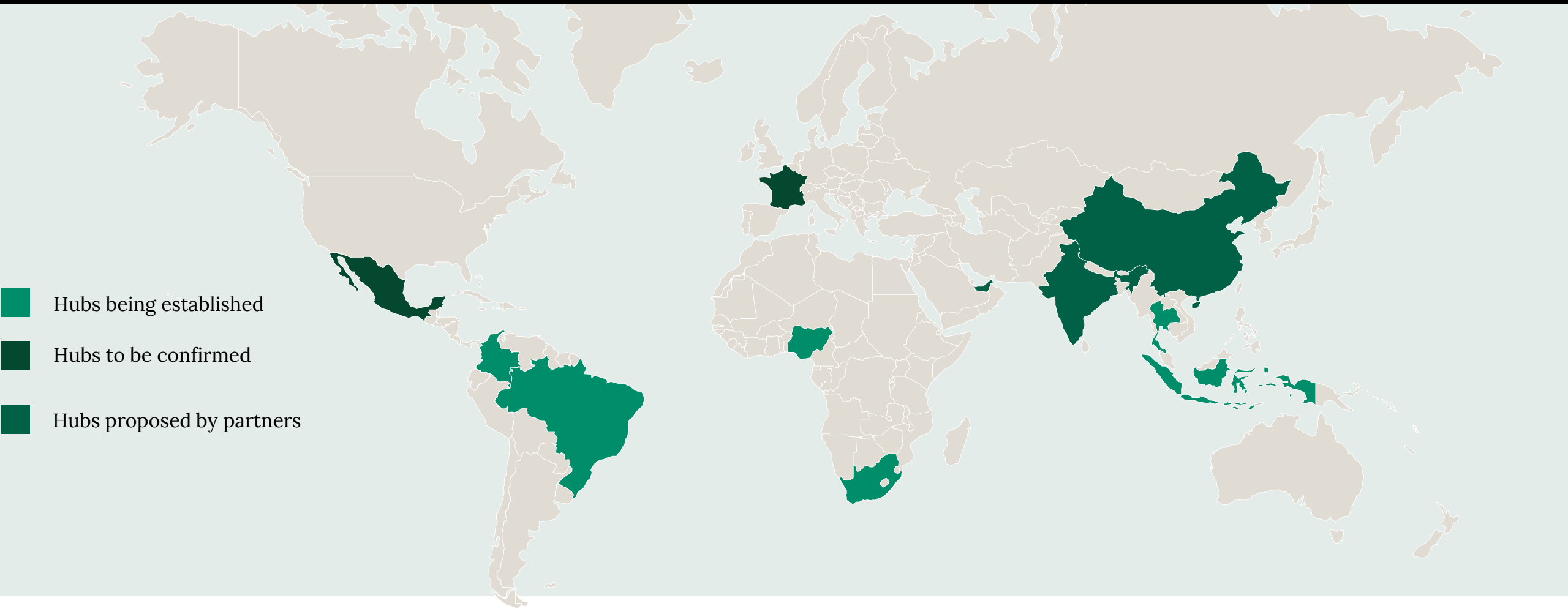
DATA COLLECTION

MIXED METHODOLOGY

Data extraction from e-commerce platforms, social media, closed forums and message group will be both **automated** (AI/ML) and **manual**.

ECO SOLVE | GI-TOC | GIFP Global Illicit Flows Programme | Funded by the European Union

DATA HUBS of the Global Monitoring System



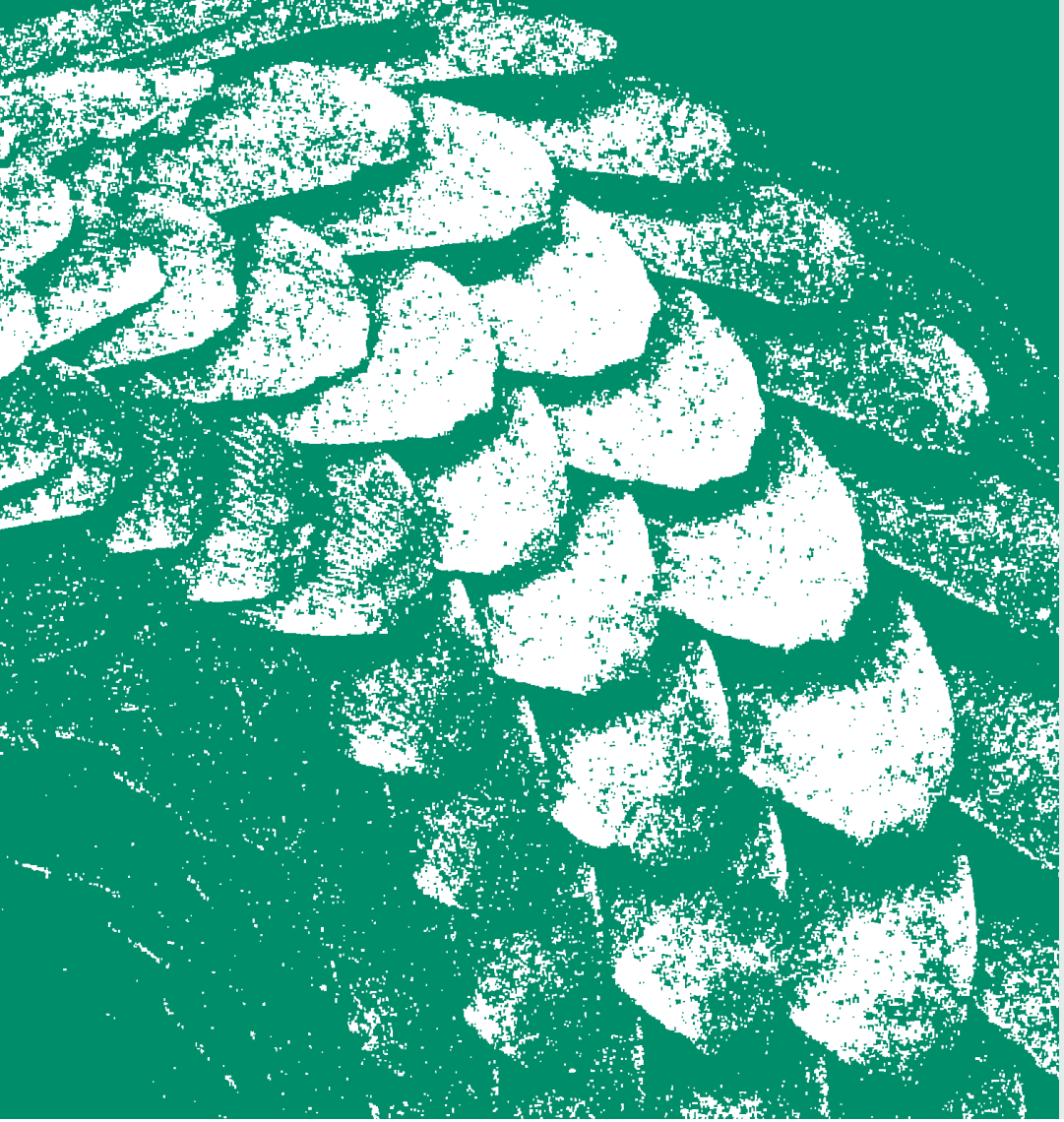
ECO SOLVE | GI-TOC | GIFP Global Illicit Flows Programme | Funded by the European Union

OBJECTIVES

WE WANT TO:

- Disrupt criminal networks
- Build technologically empowered networks of response
- Feed key data into global policy and shape debate
- Create global public goods – databases and algorithms

ECO SOLVE | GI-TOC | GIFP Global Illicit Flows Programme | Funded by the European Union



THANK YOU

ECO SOLVE

ENHANCED SOLUTIONS FOR TACKLING ENVIRONMENTAL CRIME

ECO SOLVE | GI-TOC | GIFP Global Illicit Flows Programme

Funded by the European Union

World Wildlife Day 2024

GENEVA CELEBRATION

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AGENDA

Moderated by Juan Carlos VASQUEZ | Chief of Legal Affairs and Compliance, CITES

Welcome | Geneva World Wildlife Day Celebration

Exploring Digital Innovation in Wildlife Conservation

Connecting Digital Technologies and Wildlife Conservation

- **Dao NGUYEN** | Senior Programme Manager, Conservation Action, IUCN
- **John DAVID** | Information Systems Officer, UNCTAD-ASYCUDA
- **Jean-Manuel CANET** | Senior Manager Sustainable Development, Orange Consulting | Vice-chair of ITU-T SG5 "Environment, EMF and Circular Economy"
- **Simone HAYSOM** | Director of Environmental Crime and Head of ECO-SOLVE, Global Initiative Against Transnational Organized Crime

Advancing Digital Technologies for Wildlife Conservation

Launch of CITES-Lex

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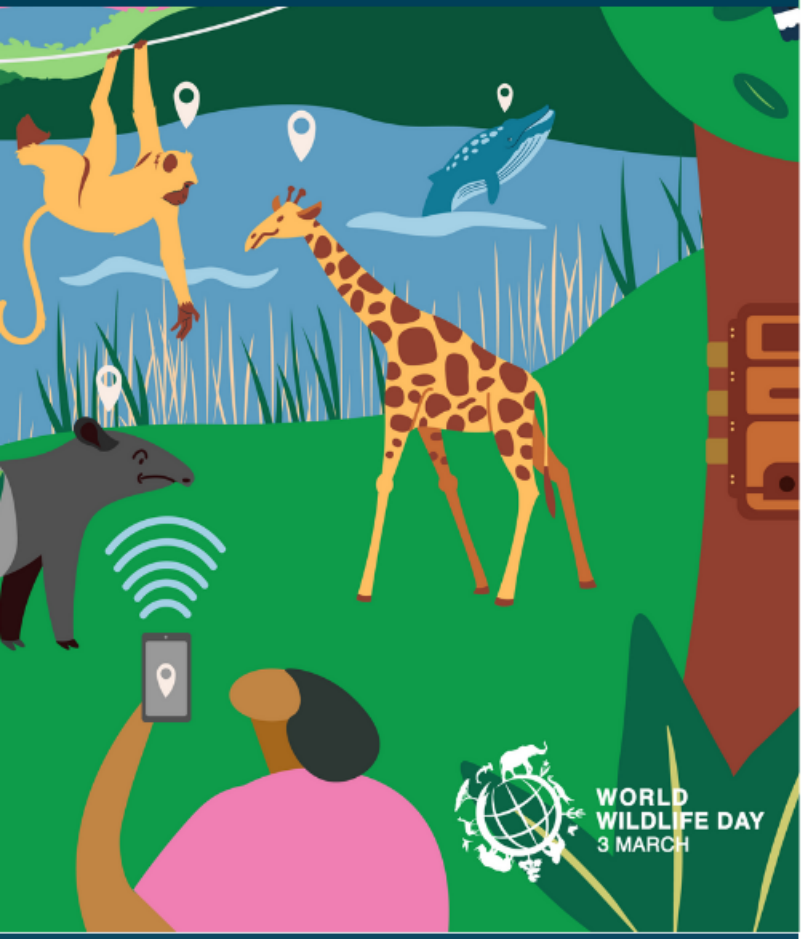

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- **Bourhan YASSIN** | CEO, Rainforest Connection
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WORLD WILDLIFE DAY 3 MARCH | CITES | ITU | GENEVA ENVIRONMENT NETWORK

Esther GITHINJI

WILDLABS.NET
[The conservation technology network]

East Africa Conservation Technology Coordinator,
WILDLABS

© WILDLABS.NET

APPLICATION IN THE FIELD

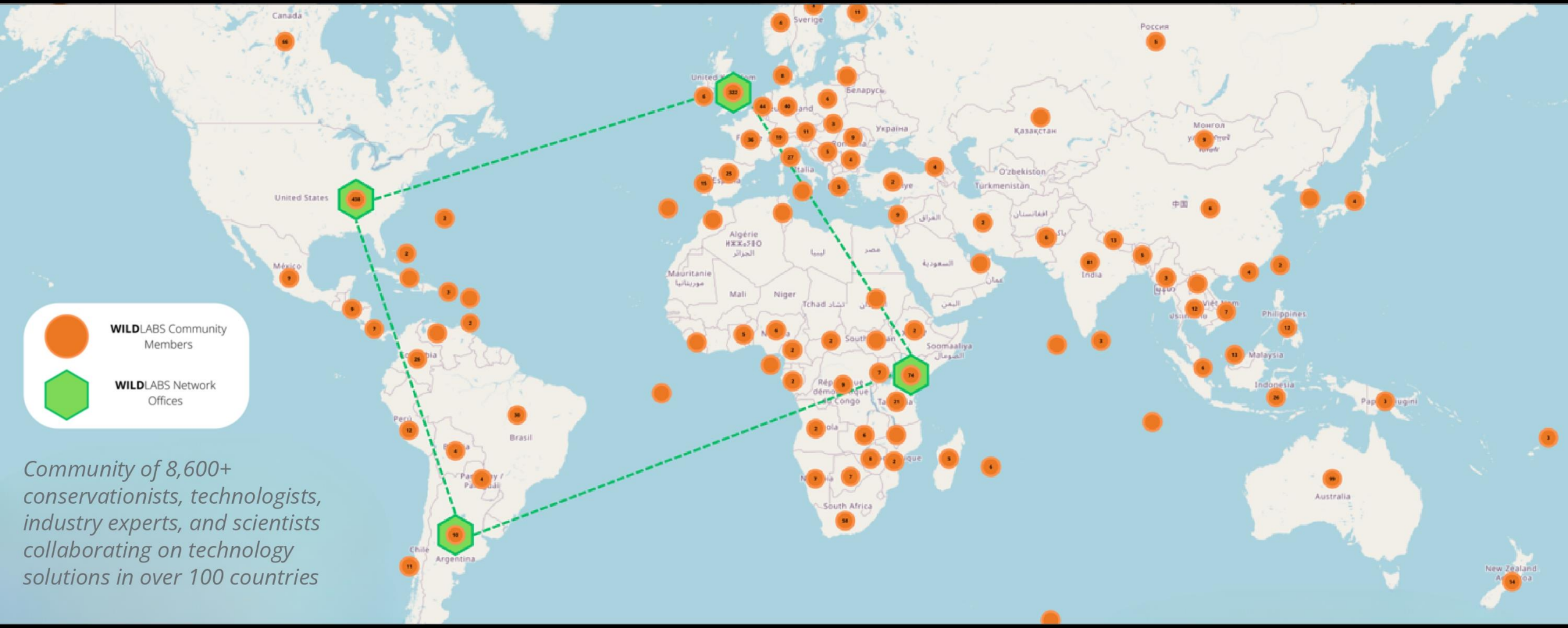
#TECH4WILDLIFE

ESTHER GITHINJI
EAST AFRICA CONSERVATION TECHNOLOGY
COORDINATOR, **WILD**LABS

WILDLABS.NET
[The conservation technology network]

PHOTO CREDIT: TWITTER: @EQUILIBRIOAZUL

WILDLABS is the first global, open online community dedicated to conservation technology



Community of 8,600+ conservationists, technologists, industry experts, and scientists collaborating on technology solutions in over 100 countries

WILDLABS.NET
[The conservation technology network]

CONSERVATION INTERNATIONAL

Fauna & Flora

WCS

WWF

Credit: Sol Milne, Kat Mason

Credit: Rainforest Connection, Guardian & Arbimon, Puerto Rico Project

Credit: Alyssa Bohart, Derek Ryder, DIY antenna for grizzly bear tracking

Credit: Sam Seccombe, Instant Detect 2.0, ZSL

HOW ARE YOU USING #TECH4WILDLIFE?

JOIN THE 8TH ANNUAL PHOTO CHALLENGE

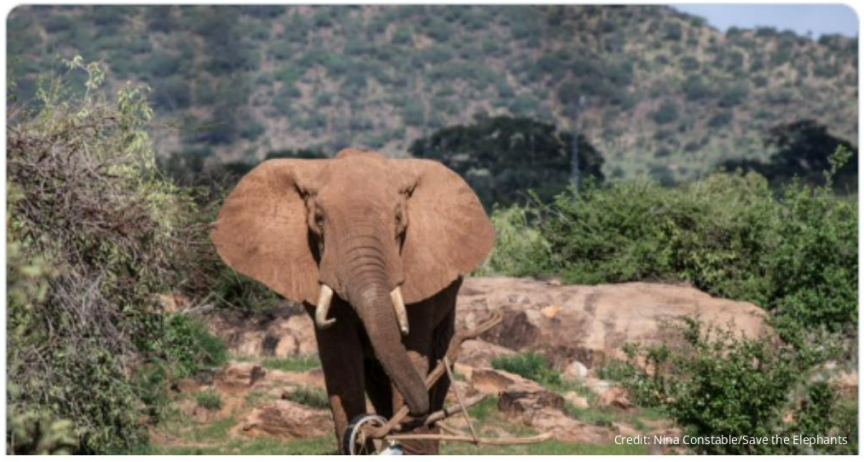
3 MARCH, WORLD WILDLIFE DAY

WILDLABS.NET
[The conservation technology network]

Credit: Icas - Wild Animal Conservation Institute, Giant Armadillo Project

Credit: vscc, DeepLabCut AI Residency 2022 Crew

Credit: RSPB Science, Miguel González, Lucy Williamson & Sophie Bennett


Credit: Nina Constable/Save the Elephants

#TECH4WILDLIFE

Save the Elephants
@ste_kenya

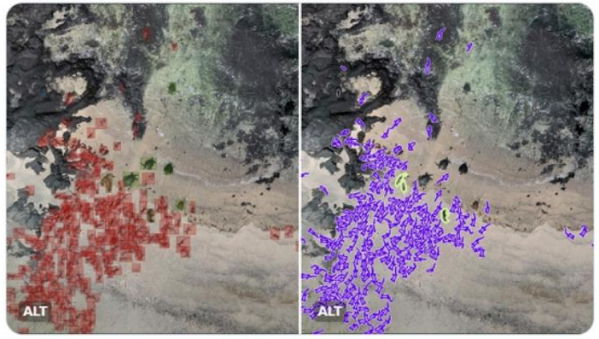
Today, STE's pioneering elephant tracking technology is being used in 12 countries to monitor over 400 elephants. The data from elephant collars helps us understand their behaviour so that we're able to help secure their future. #Tech4Wildlife @WILDLABSNET 📸 Frank af Petersens

Credit: Frank af Petersens/Save the Elephants

Iguanas from Above
@IguanasAbove

We are testing #AI as an accurate approach to identify and count #marineiguanas from #aerialimages. Our main objective is to estimate the population size of this species in a short time and help improving conservation efforts in the Galapagos Archipelago 🐊

#Tech4Wildlife



Credit: Andrea Varela, Iguanas from Above

Equilibrio Azul
@equilibrioazul

#Tech4Wildlife sometimes not so "high tech", like this homemade "turtle cam" with our friends @gscGalapagos that allows us to follow for 4 hours a critically endangered hawksbill (Claudio), see his behaviour, dive profile, route and more, to try to protect them from extinction.

Credit: Equilibrio Azul

Shawn F. McCracken
@ShawnFMcCracken

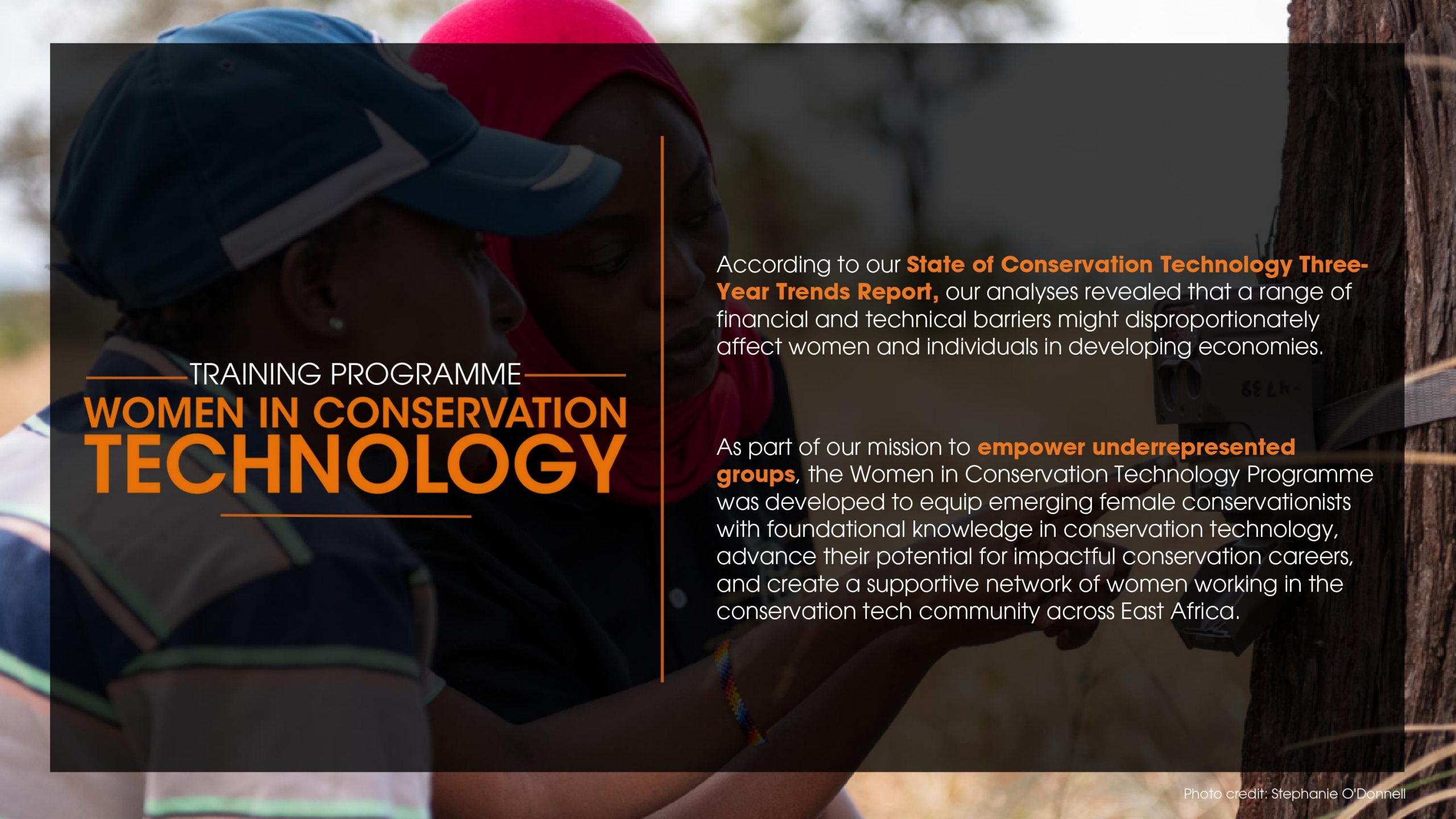
Tree canopy monitoring with @BrowningCams #cameratraps , @OpenAcoustics #AudioMoth and @KestrelWeather Drops to inform community-based conservation and restoration along a conservation corridor in the Tumbes-Chocó-Magdalena hotspot of western #Ecuador. #Tech4Wildlife @WILDLABSNET

Credit: Third Millennium Alliance/Shawn F. McCracken

Parker Levinson (she/her)
@PrkrLovesParks

My team uses a multi-#drone system to study Adelie penguins in #Antarctica! This #tech4wildlife allows us to survey hundreds of thousands of penguins in just a few hours to understand how the population is changing. @WILDLABSNET @PointBlueConSci

Credit: Parker Levinson & Point Blue Conservation Science



TRAINING PROGRAMME

WOMEN IN CONSERVATION TECHNOLOGY

According to our **State of Conservation Technology Three-Year Trends Report,** our analyses revealed that a range of financial and technical barriers might disproportionately affect women and individuals in developing economies.

As part of our mission to **empower underrepresented groups**, the Women in Conservation Technology Programme was developed to equip emerging female conservationists with foundational knowledge in conservation technology, advance their potential for impactful conservation careers, and create a supportive network of women working in the conservation tech community across East Africa.

Photo credit: Stephanie O'Donnell

CONNECT WITH OUR COMMUNITY

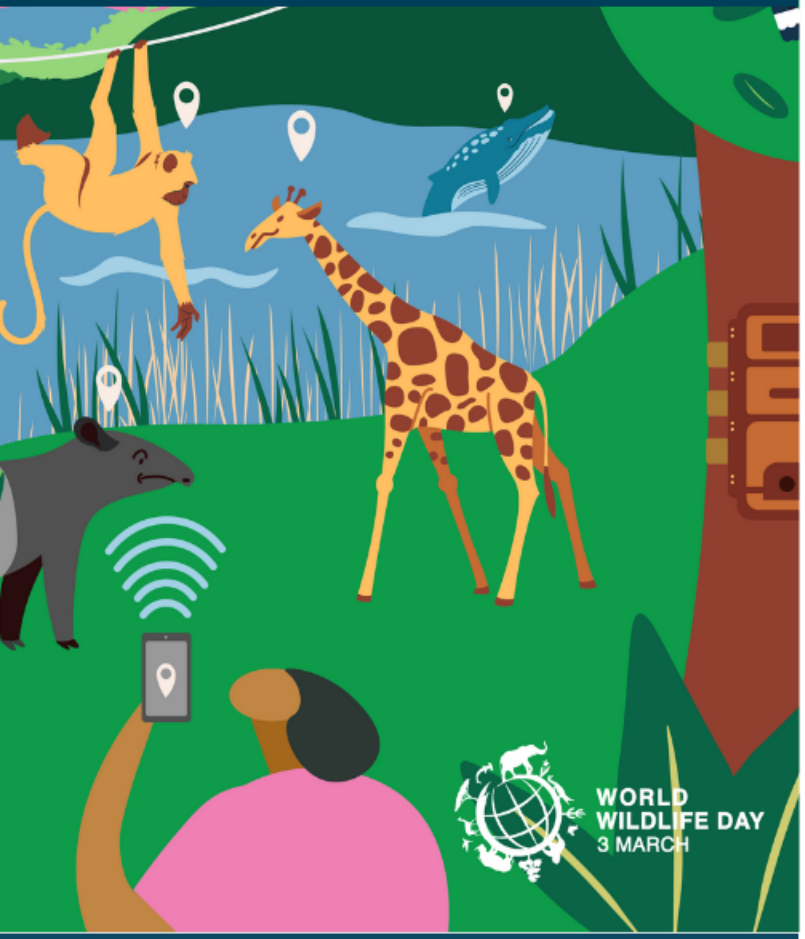
WILDLABS.NET
[The conservation technology network]

https://wildlabs.net/
#tech4wildlife

Photo credit: Stephanie O'Donnell

World Wildlife Day 2024

GENEVA CELEBRATION



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Swabir ABDULREHMAN

Technical Director, Connected Conservation Foundation

Connected Conservation FOUNDATION

© Connected Conservation Foundation

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WORLD WILDLIFE DAY 3 MARCH

CITES

ITU

GENEVA ENVIRONMENT NETWORK

Connected Conservation FOUNDATION

Connected Conservation

Protecting wildlife and natural ecosystems through technology

Uniting partners to save species.

15 LIFE ON LAND

13 CLIMATE ACTION

4 QUALITY EDUCATION

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

Actility

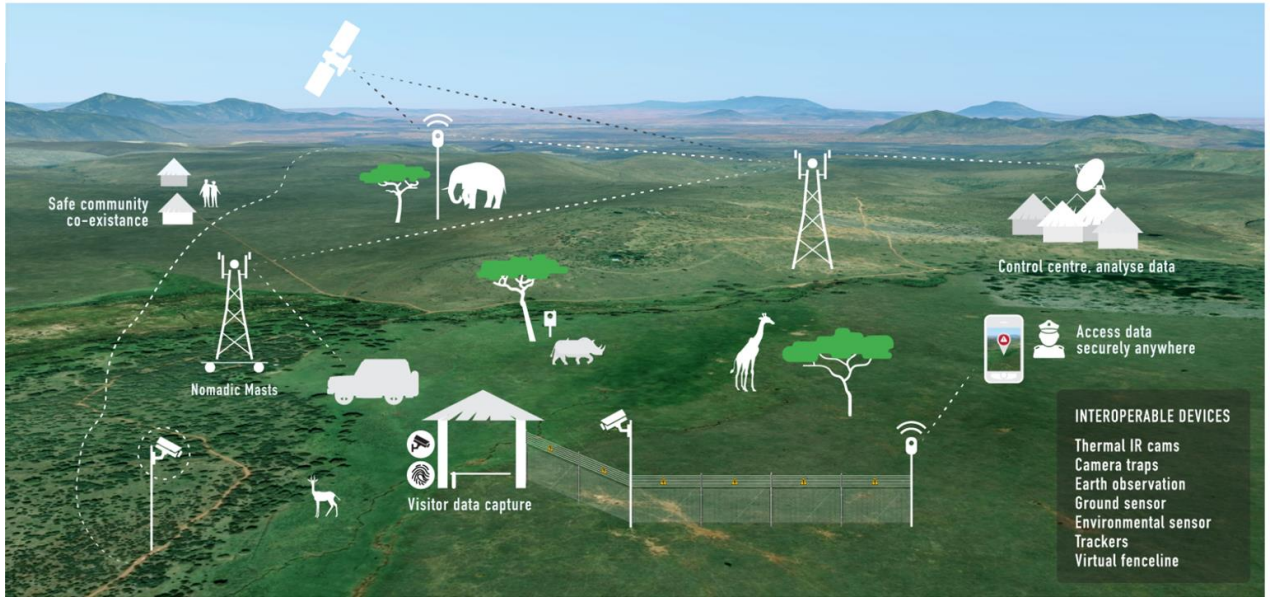
cisco

AIRBUS FOUNDATION

dimension data

EARTHRANGER
A product of AI2

“ Technology has a critical role to play to protect:
30%
of the planet by
2030 ”
To verify credits and save 1,000,000 species facing extinction
YaleEnvironment360
UN IBES Report: Species extinctions accelerating



CUTTING EDGE SINCE 2015, INFASTRUCTURE FOR NATURE

Proven landscape wide technology solutions and infrastructure

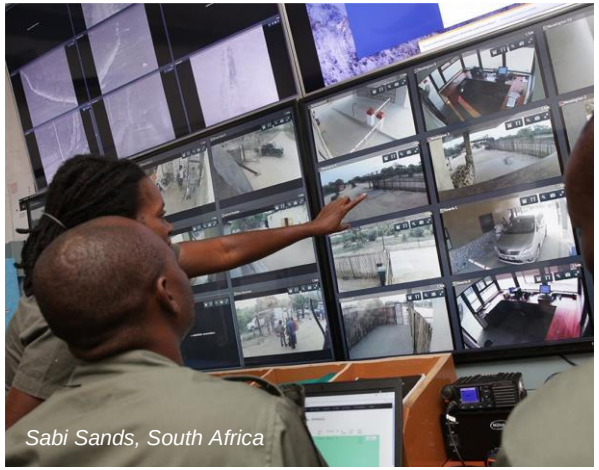
Harnessing AI, IOT remote sensing and Satellite Earth Observation

Years of research, with established field-based testing

Wealth of leading conservation partnerships

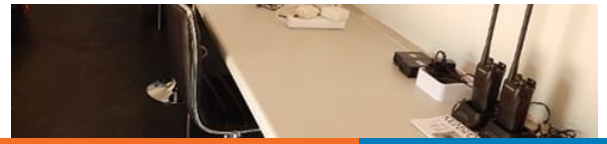
Sera Wildlife Conservancy

Madikwe, South Africa


Sabi Sands, South Africa

Kafue Zambia

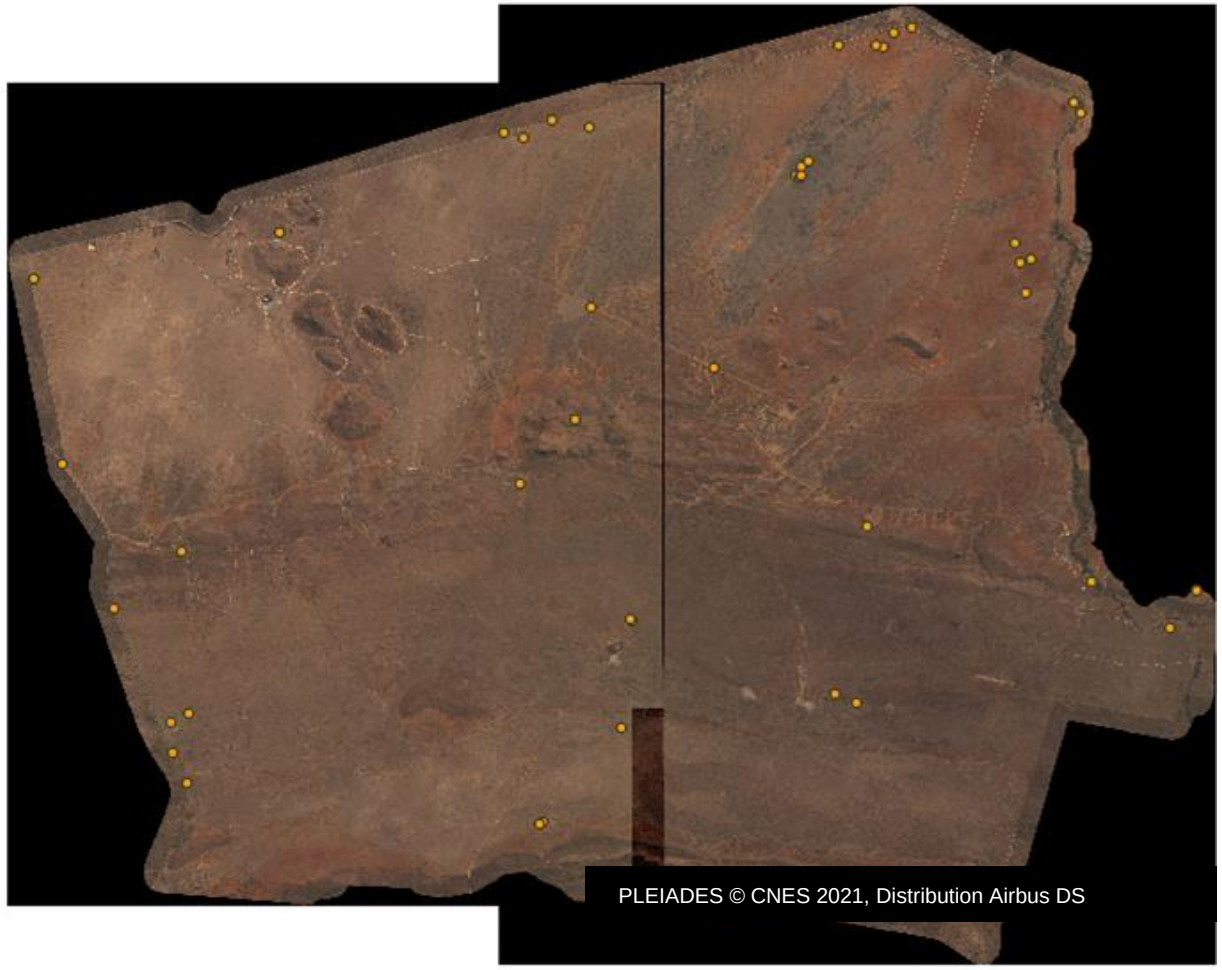
Lewa, Kenya

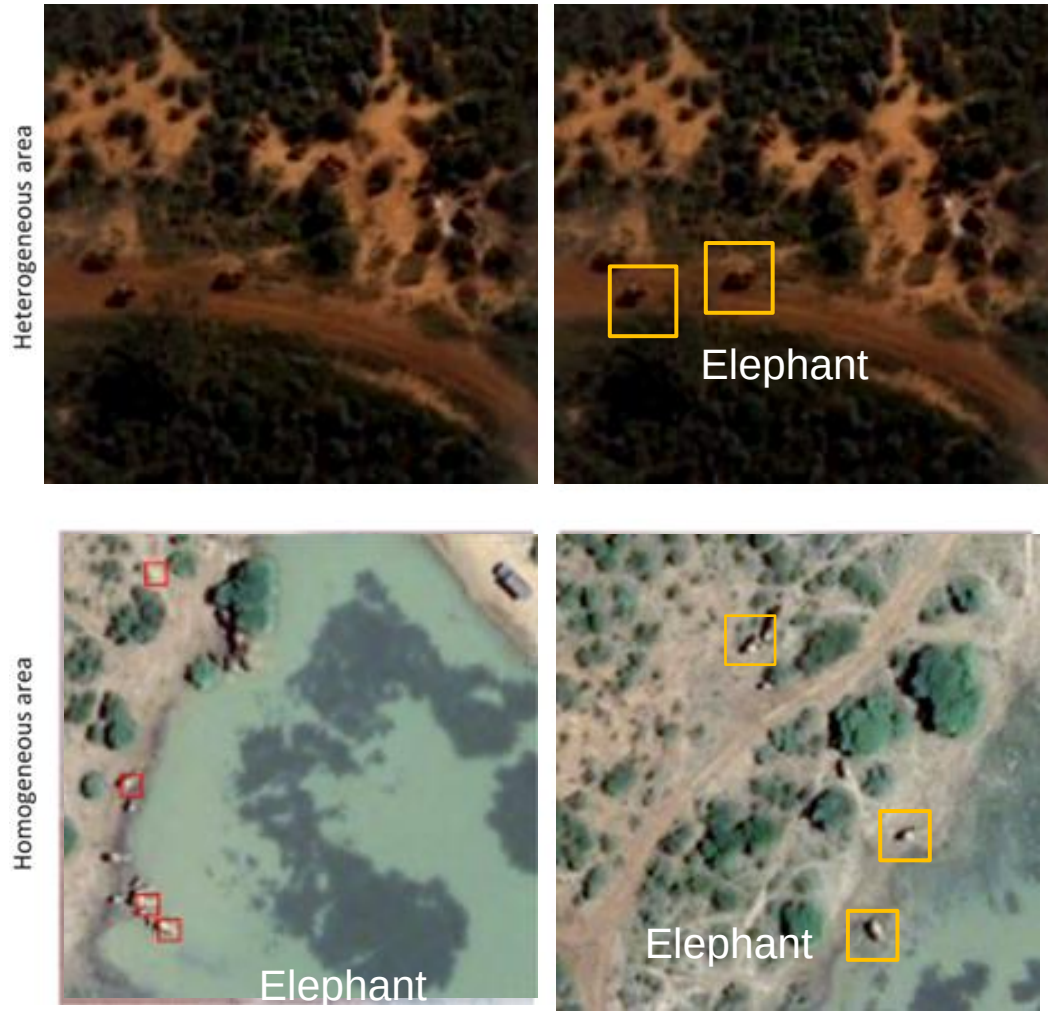


COLLABORATION SCALES MONITORING TO THE SKY

AI-enabled innovation and research paper (here)

AIRBUS FOUNDATION





ROAD TO 10 MIL HA BY 2030

29

sites and **5,600,000** hectares secured

Across Kenya, Zambia, South Africa

250+

Rangers equipped and trained

With tools, connectivity and new technical capabilities

35+

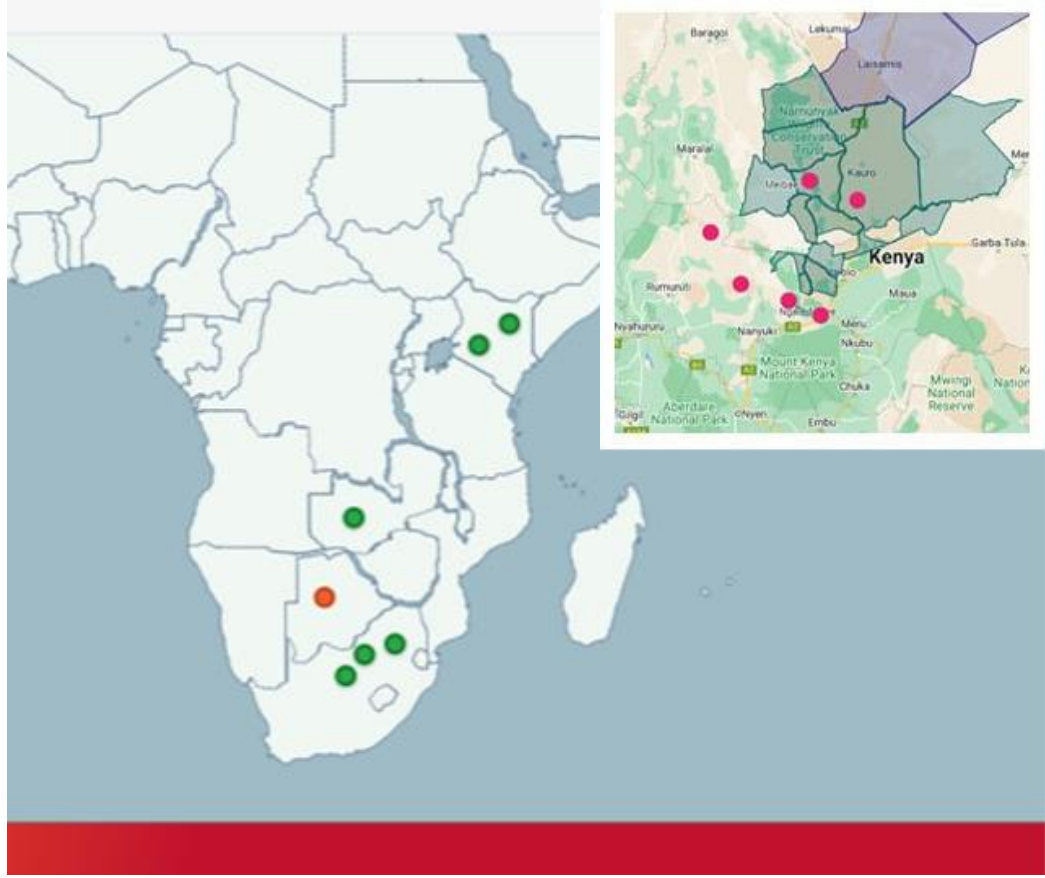
Threatened species protected

Including : Black Rhino, African Elephant, Pangolin, Lion, Wild dog, Cheetah and Giraffe

6

New operation centres

Established as hubs for real time data and analysis, supporting management, research, and innovation



SABI SAND NATURE RESERVE

NRT

SERA WILDLIFE CONSERVANCY

Kafue National Park Zambia

Madikwe FUTURES COMPANY

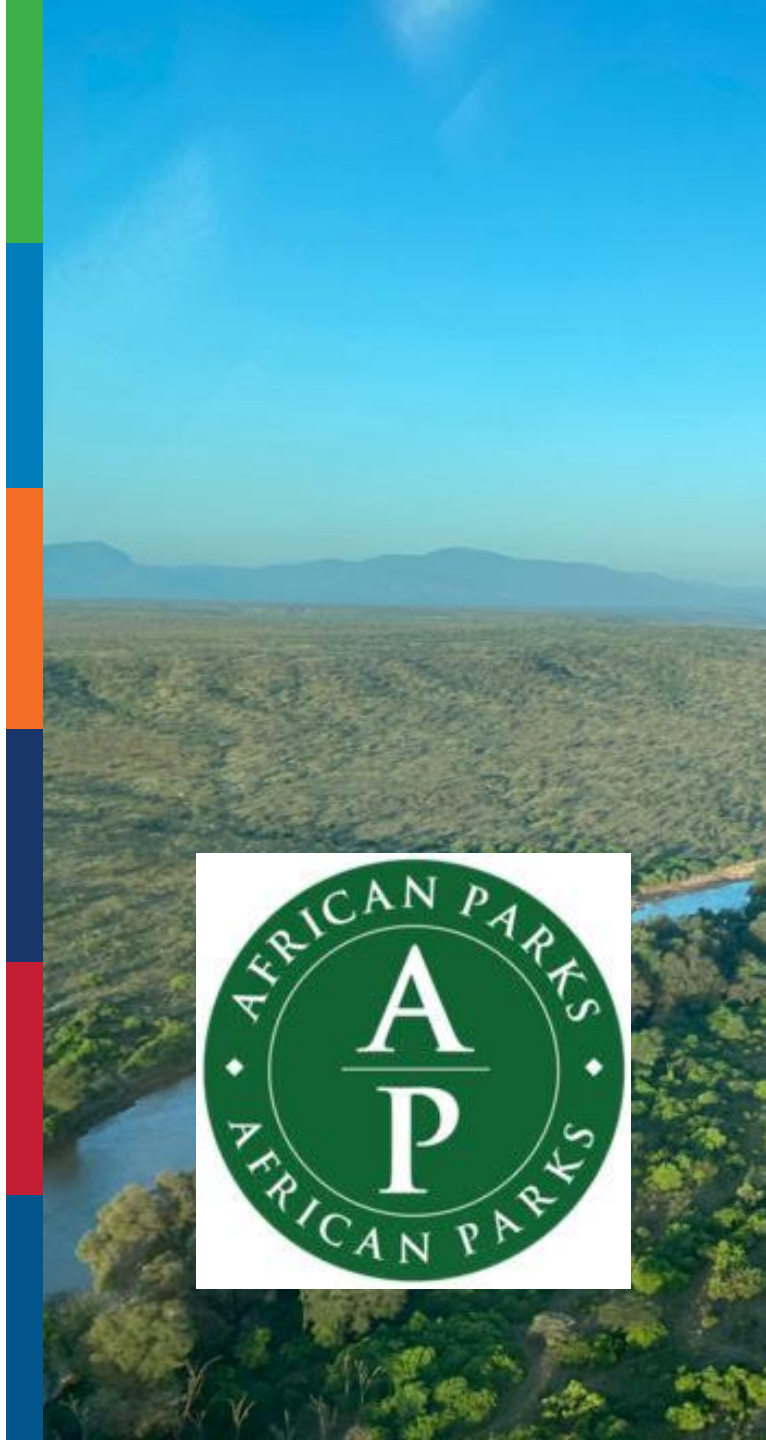
KENYA WILDLIFE SERVICE

AFRICAN PARKS

SECURED CONNECTIVITY FOR 19 AFRICAN PARKS

$500K of vital, reliable connectivity equipment to conservation efforts in remote locations

Site Name	Country	Class	Priority	Average Users	Suggested Meraki Device
Bazaruto	Mozambique	C	3	25	MX60 series
Majete	Malawi	C	3	35	MX60 series
Liwonde	Malawi	C	3	30	MX60 series
Nkhotakota	Malawi	C	3	25	MX60 series
Iona	Angola	B	1	25	MX60 series
Kafue	Zambia	A	3	Growing from 30. Up to 100 in future	MX75
Liuwa Plain	Zambia	A	2	40	MX60 series
Bangweulu	Zambia	A	3	25	MX60 series
Akagera	Rwanda	C	2	30	MX60 series
Nyungwe	Rwanda	C	3	20	MX60 series
Odzala - Mbomo	Congo	A	1	30	MX60 series
Odzala - Mbalanga	Congo	A	1	20	MX60 series
Odzala - North	Congo	A	3	10	MX60 series
Garamba	Democratic Republic Congo	B	1	150	MX75
Chinko - Kocho	Central African Republic	B	1	80	MX75
Chinko - Bangui	Central African Republic	A	1	30	MX60 series
Chinko - North Base	Central African Republic	B	3	10	MX60 series
Zakouma - HQ	Chad	B	1	50	MX75
Siniaka Mania	Chad	B	1	15	MX60 series
Ennedi	Chad	B	1	30	MX60 series
Chad - Ndjamena	Chad	A	2	20	MX60 series
Pendjari	Benin	A	1	50	MX75
Parc W	Benin	A	1	50	MX75
Benin - Cotonou	Benin	C	3	10	MX60 series



NRT Community Conservation

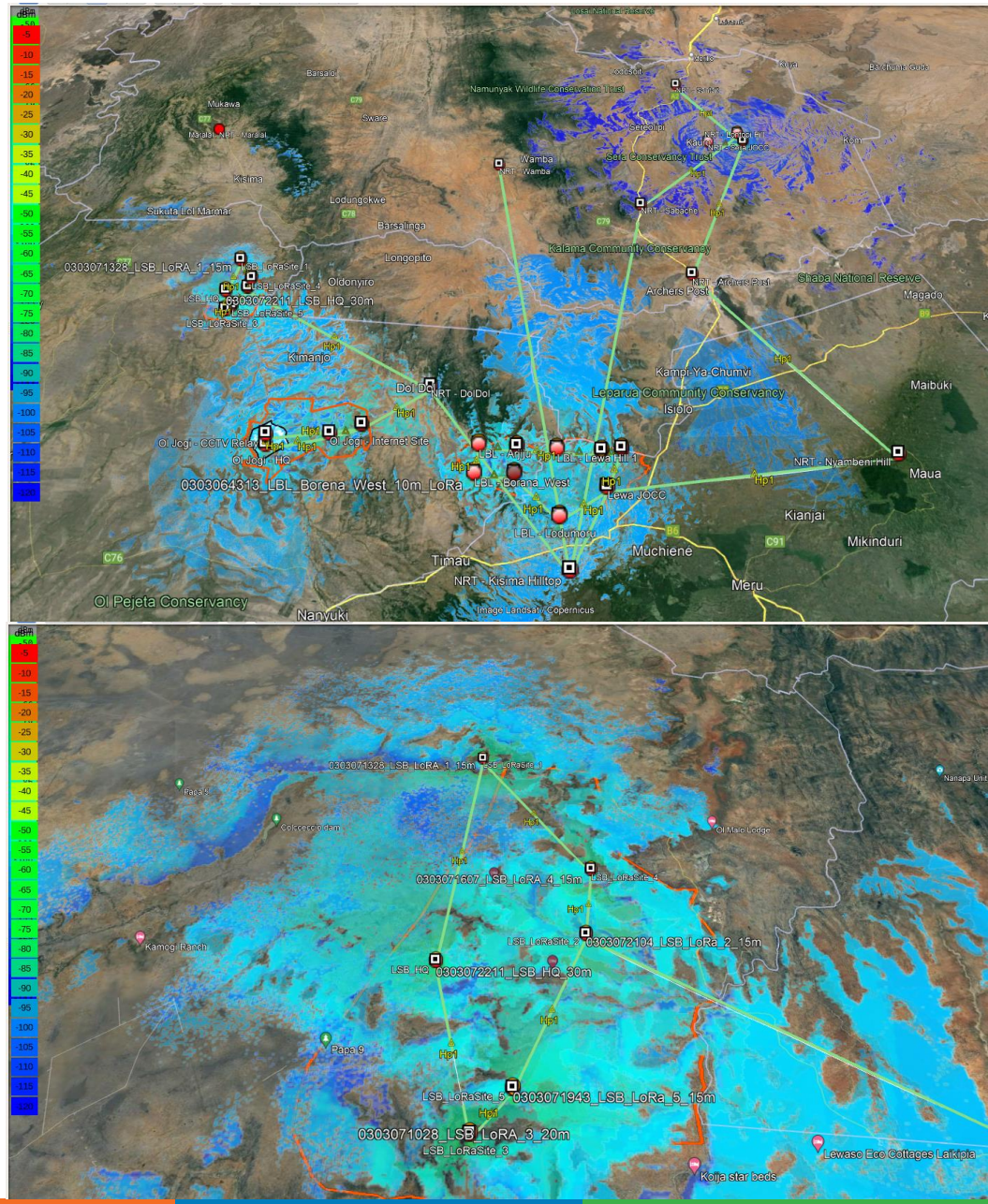
- 22 NRT conservancies and 4 private reserves marking significant steps to a nationwide IoT conservation network in Kenya.

- Three new location for 2024 (Watch this Space).

- IoT is growing in conservation CCF know of 80 sites using this tech globally.

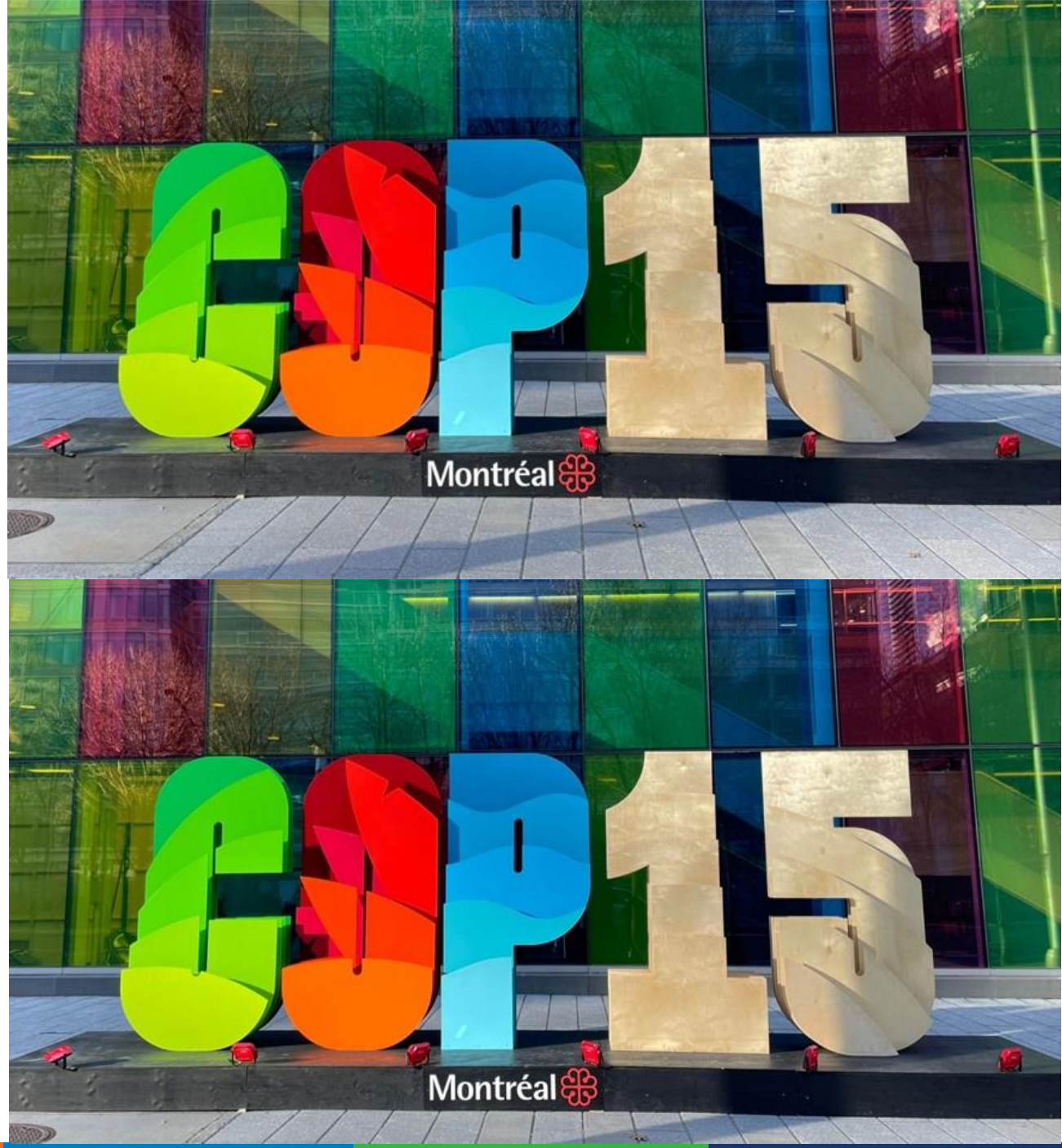
Key Applications

- Tourism Management
- Animal Behavior Monitoring
- Asset Monitoring
- Water Management
- Electricity Management
- Weather Monitoring
- Livestock Monitoring



REGULATORY CHANGES BRINGING TRANSFORMATION

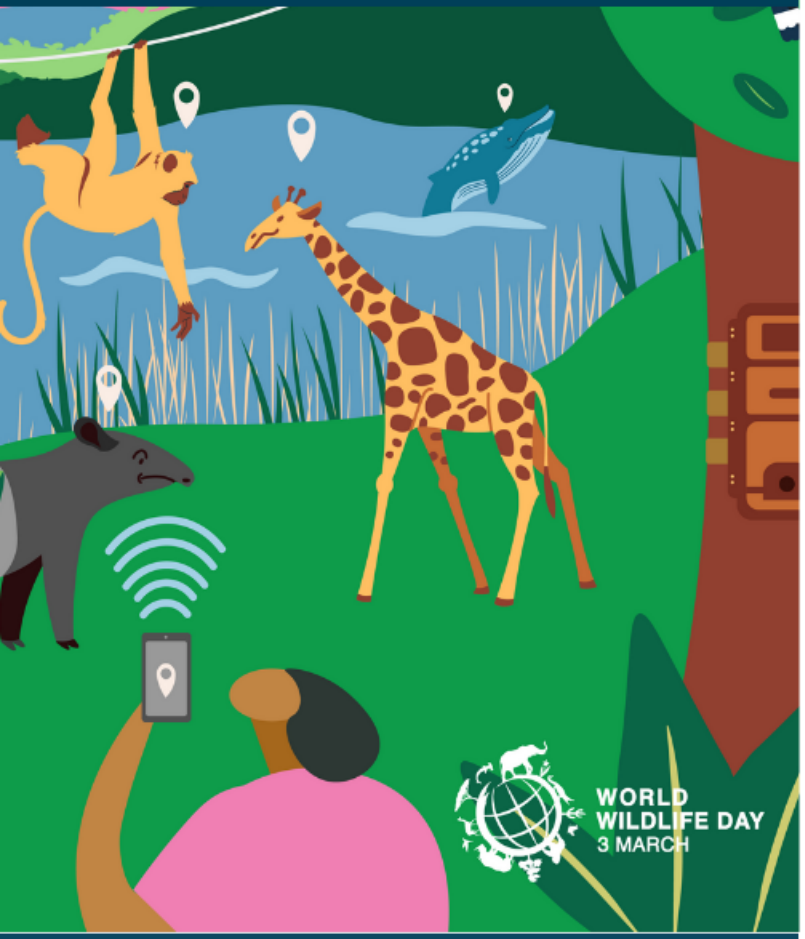
- Protect 30% of the planet by 2030.
- Restore 30% of the planet's degraded terrestrial and marine ecosystems
- Creation of a new £510 million fund within UN / GEF. With commitments for future $30 billion for biodiversity by 2030.
- Governments tasked to show scheduled progress against their national biodiversity contribution plans
- Finance takes centre stage, natural capital markets and innovative solutions
    - Rise of 'Super Carbon credits' of higher value when also benefiting biodiversity and community development



FUTURE PLEDGE
Can you support 30 protected areas by 2030

World Wildlife Day 2024

GENEVA CELEBRATION



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Bourhan YASSIN

RAINFOREST CONNECTION

CEO, Rainforest Connection

©Rainforest Connection

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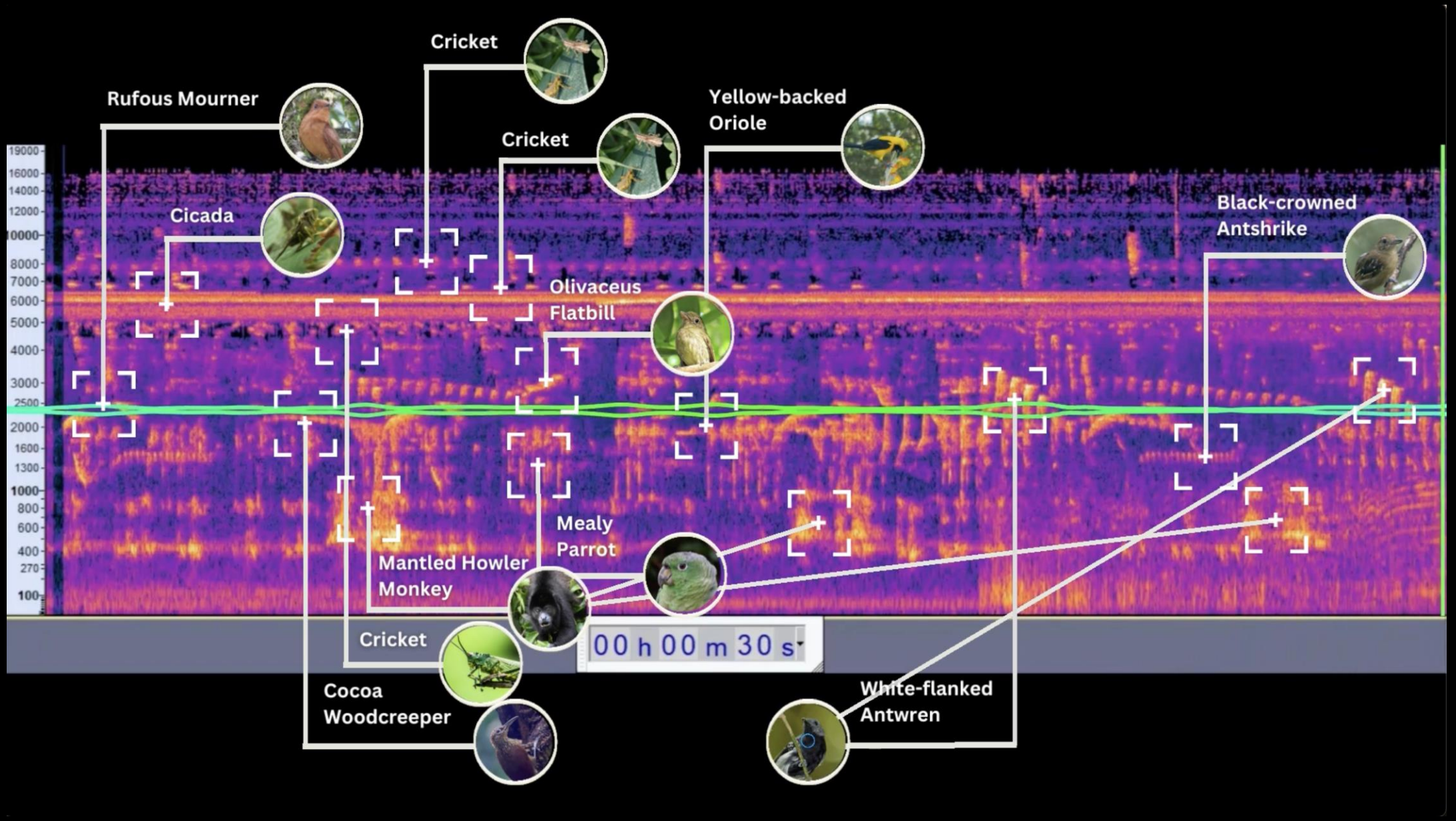
ARBIMON

RAINFOREST CONNECTION


Cricket
Rufous Mourner
Cricket
Yellow-backed Oriole
Cicada
Black-crowned Antshrike
Olivaceus Flatbill
Mealy Parrot
Mantled Howler Monkey
Cricket
00 h 00 m 30 s
Cocoa Woodcreeper
White-flanked Antwren
19000
16000
14000
12000
10000
8000
7000
6000
5000
4000
3000
2500
2000
1600
1300
1000
800
600
400
270
100

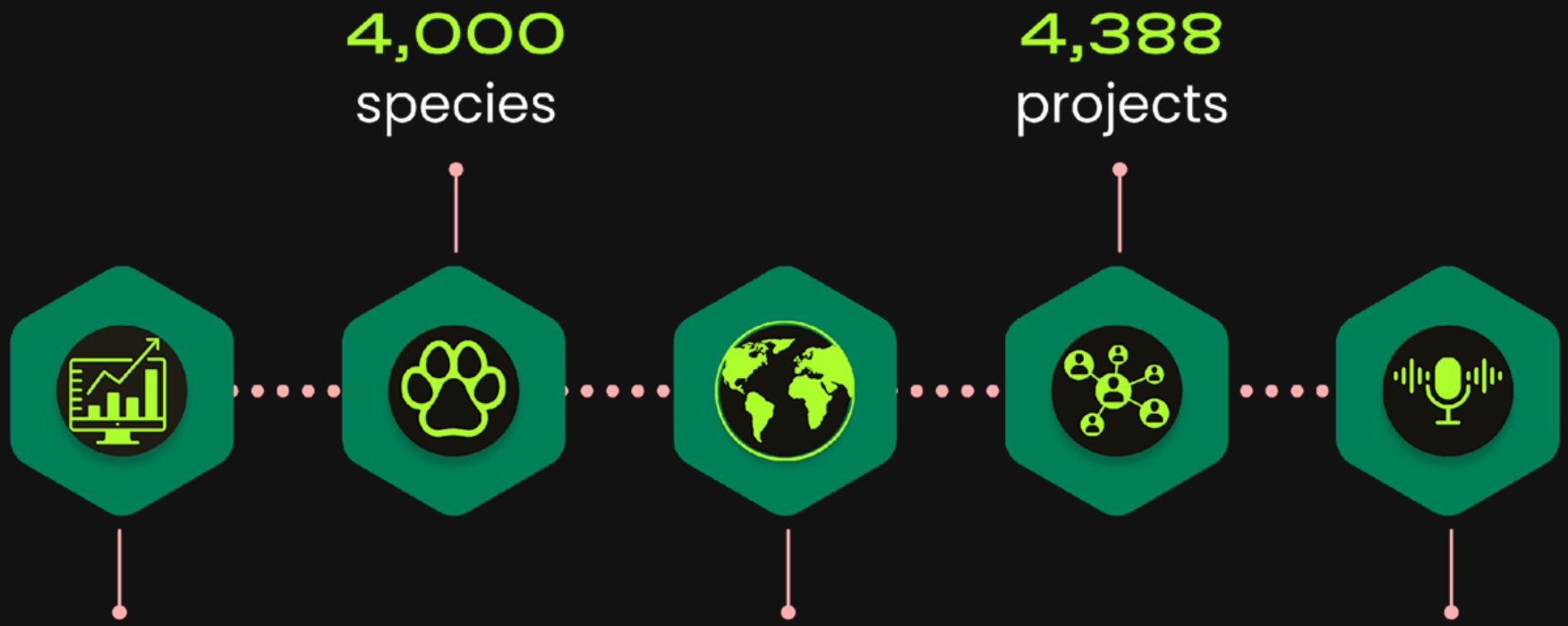
ARBIMON

Benefits of Passive Acoustic Monitoring

Decreased on-the-ground effort, time & cost

- Less invasive
- Covers large areas (360°)
- Long, continuous time frames
- Survey multiple species simultaneously
- Permanent audio archive

ARBIMON At a Glance



ARBIMON

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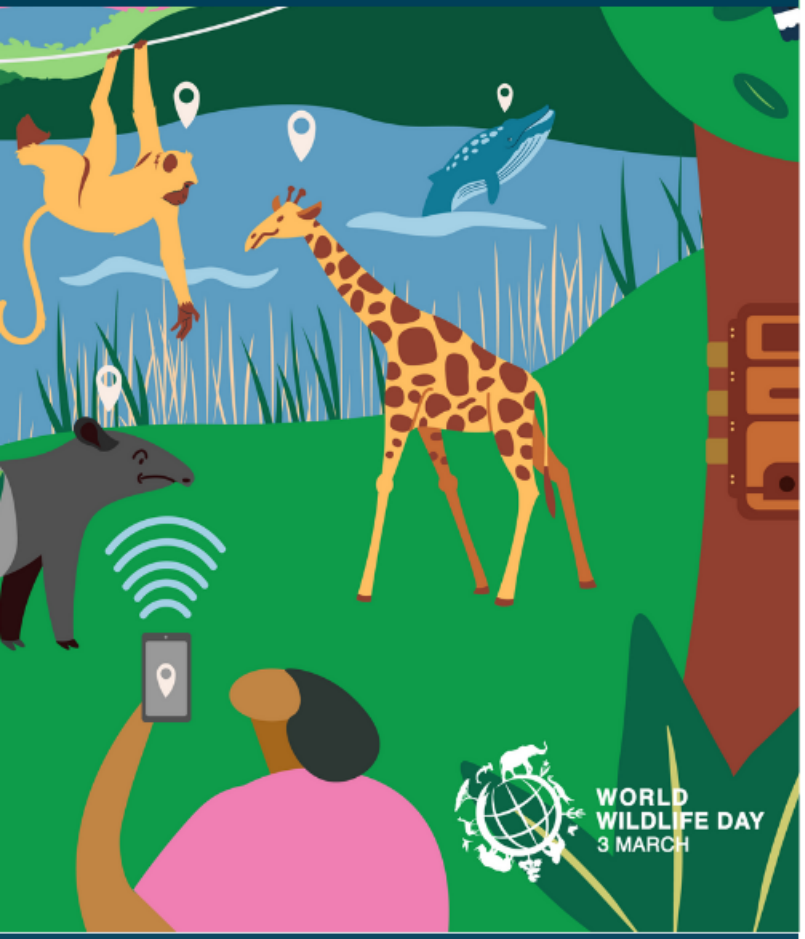

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Bertrand von ARX

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REPUBLIQUE ET CANTON DE GENEVE

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WORLD WILDLIFE DAY 3 MARCH

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WORLD WILDLIFE DAY 2024
GENEVA BIODIVERSITY STRATEGY 2030

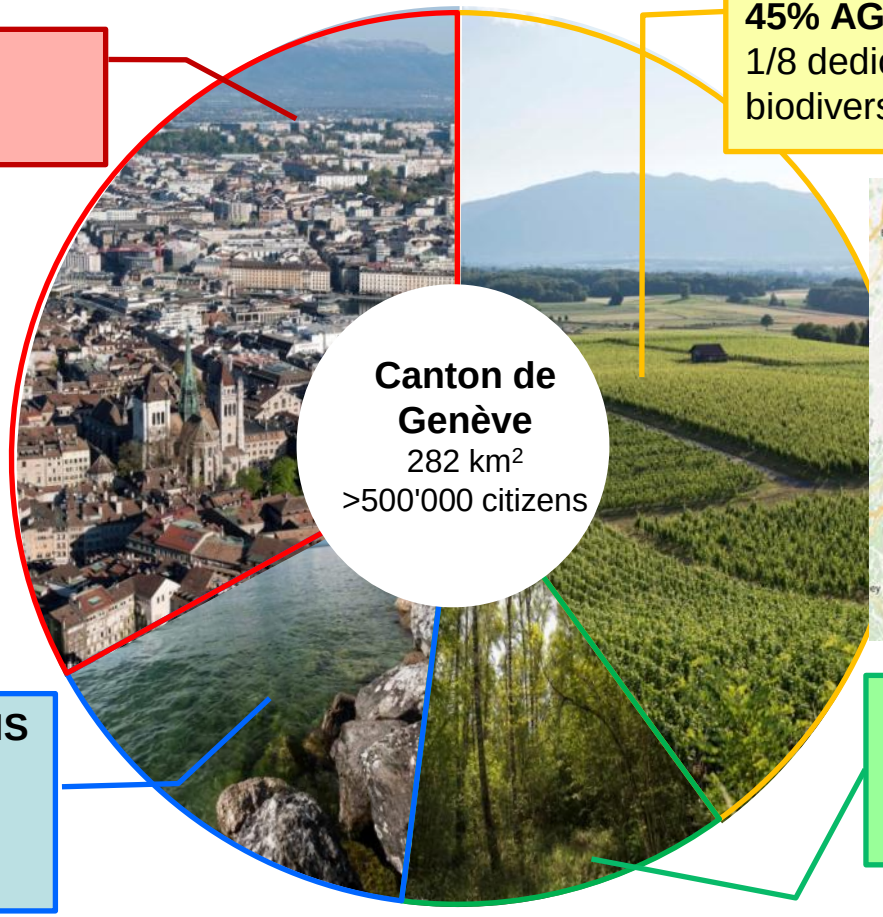
EXPERIENCE IN USING DIGITAL TECHNOLOGIES TO SUPPORT WILDLIFE CONSERVATION

Bertrand von Arx
4.3.2024

Biodiversity a main asset for our **territory**
Canton of Geneva is an openair lab!

30% URBAN Area
1/20 Green

- Altitude 330 - 516 m.
- 95% border with France
- 2'237 hab. / km^2

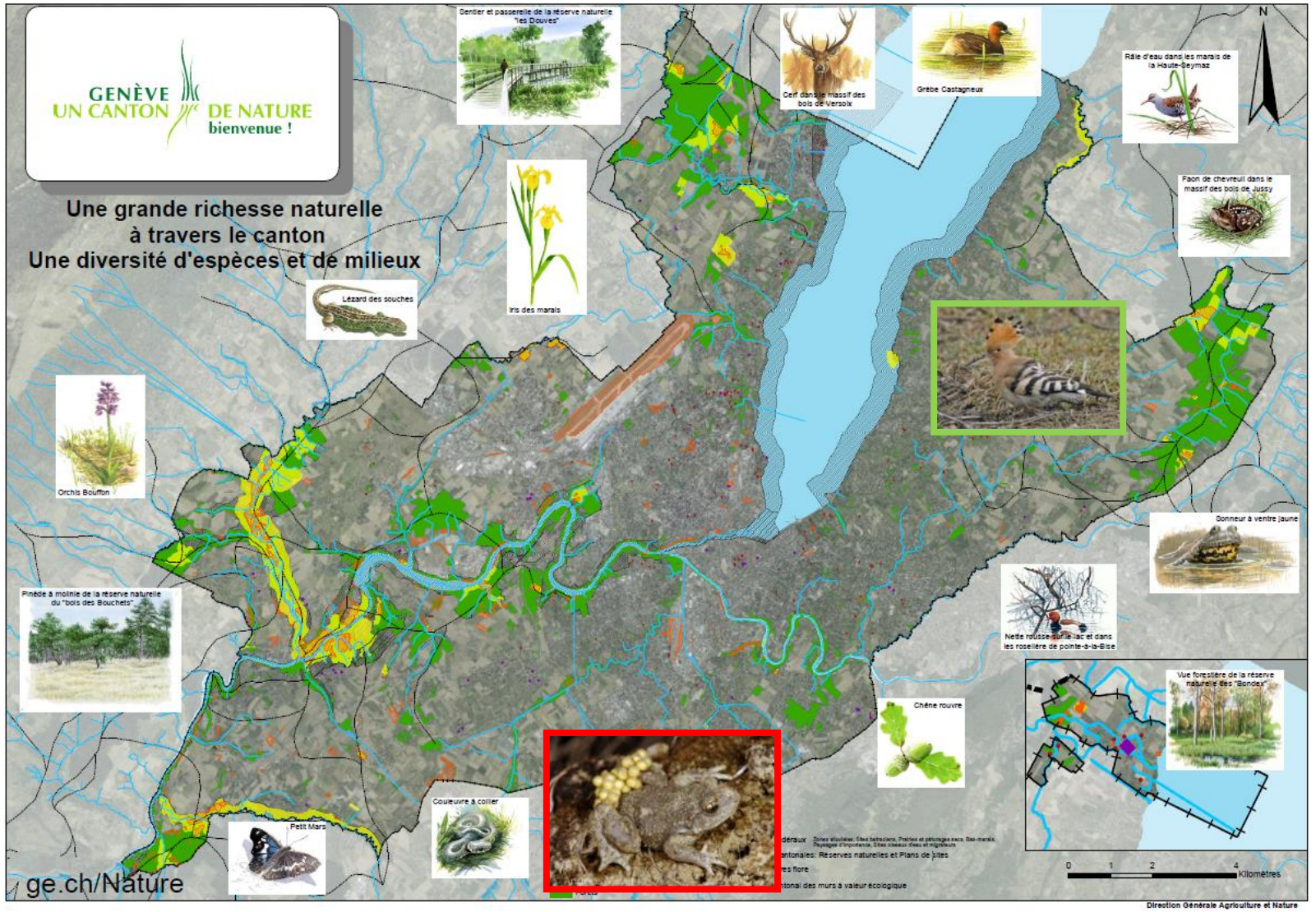


45% AGRICULTURE Land
1/8 dedicated to biodiversity

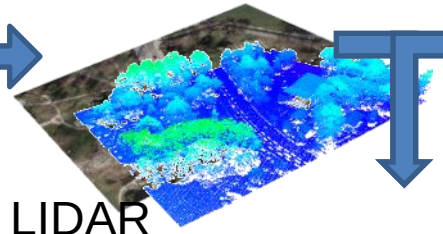
13% LAKE & STREAMS
1/10 of the streams renaturated

12% FOREST
1/4 natural reserves

Biodiversity in Geneva: rich and diverse

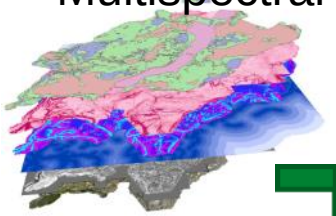


Geneva's Natural Habitat Map



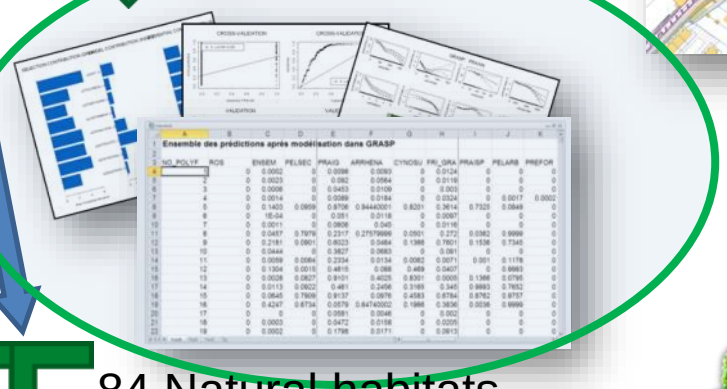
LIDAR
(light detection and ranging)

Multispectral



Field Data

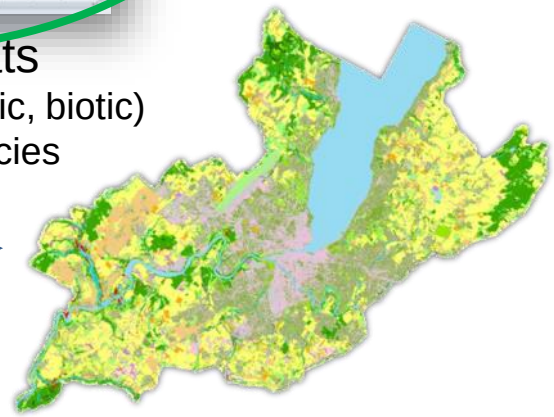
Land Use



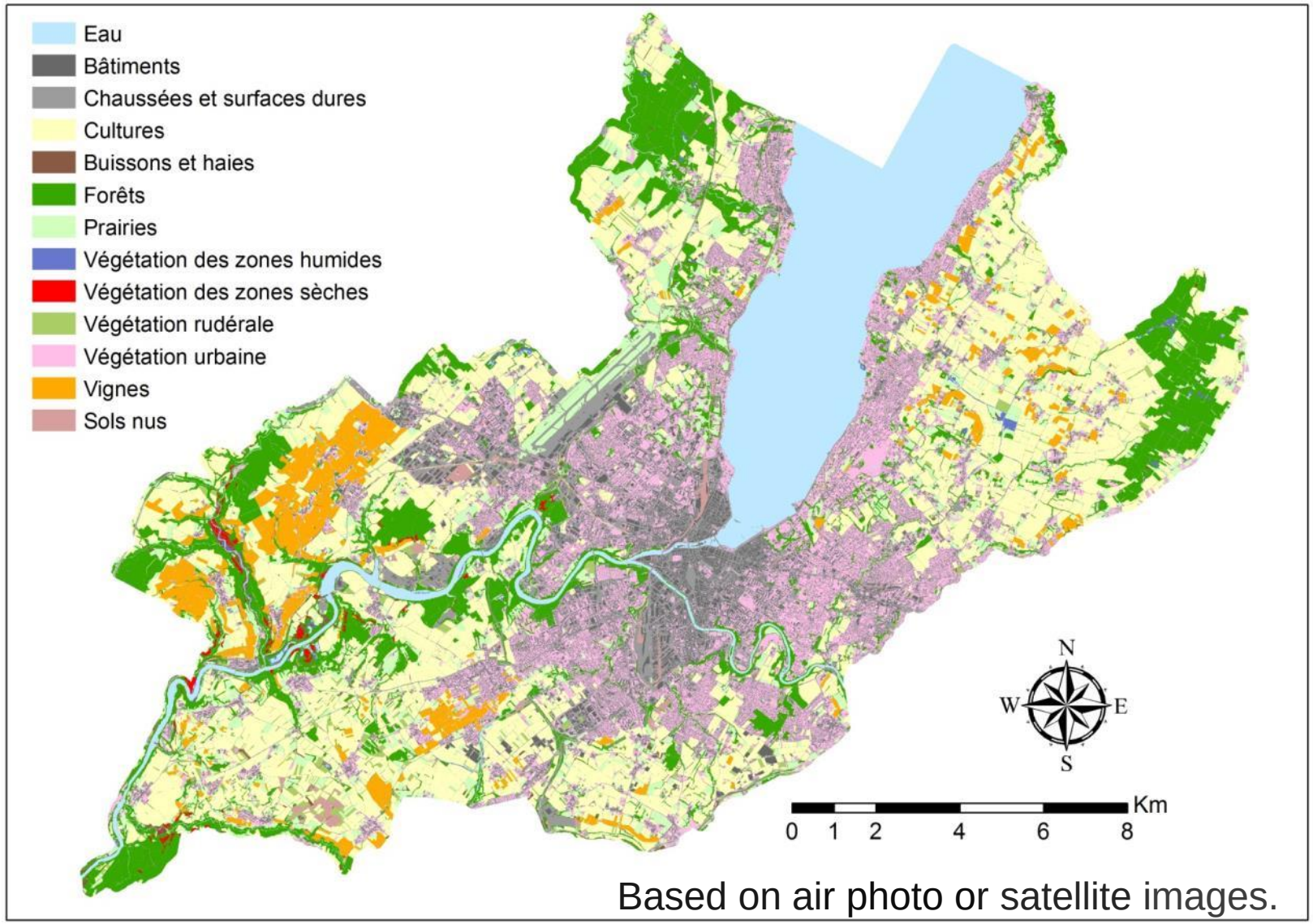
Field checking

SYSTEME EXPERT
DEFINIENS
Understanding Images

84 Natural habitats
- Specificities (abiotic, biotic)
- Habitat linked species

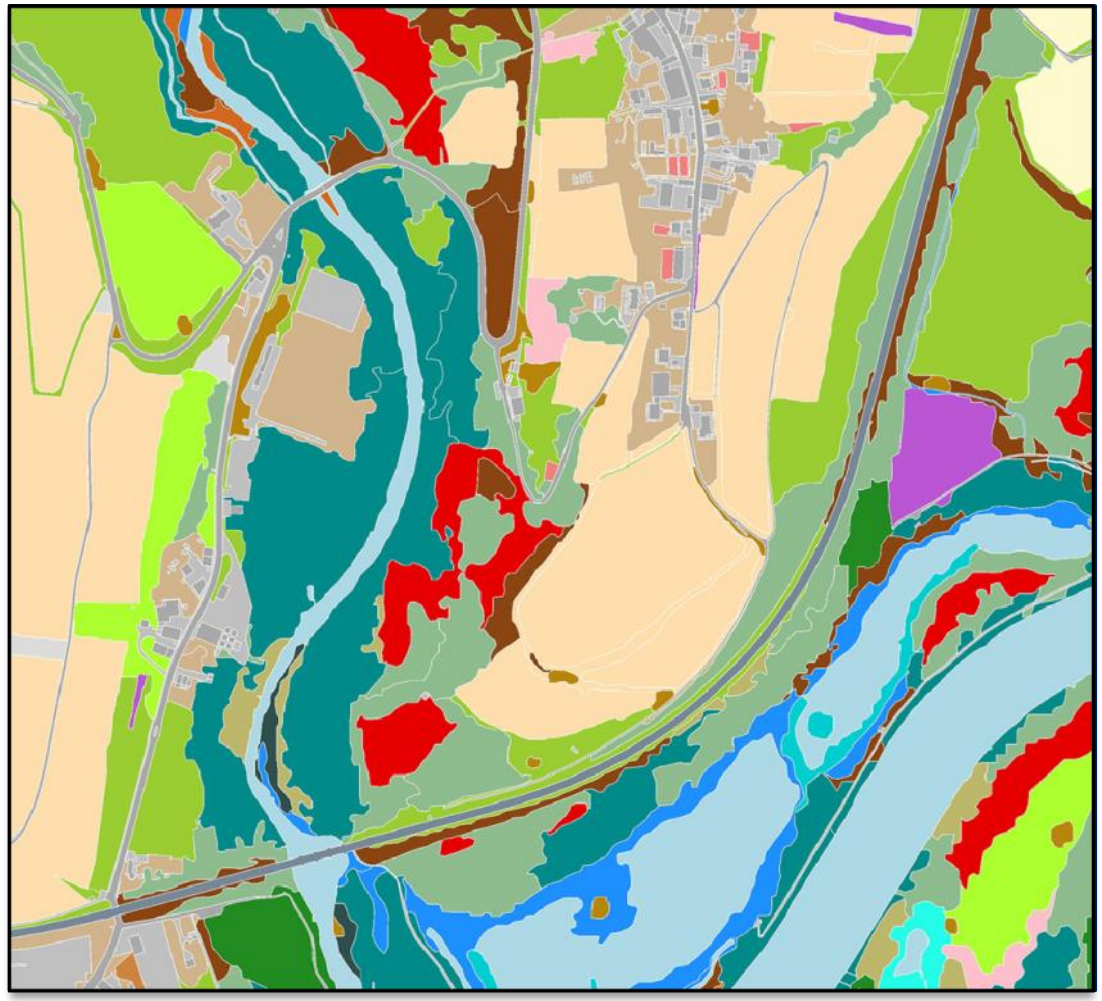


Natural Habitat Map



Based on air photo or satellite images.

Natural Habitat Map



Map 1/100’000
7 categories

Map 1/25’000
14 categories

Map 1/10’000
32 categories

Map 1/5’000
85 categories
35 colors

Geneva's Green Infrastructure 4 GI pillars

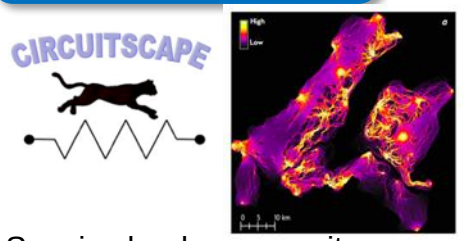
4. Ecosystem services

2. Ecological connectivity

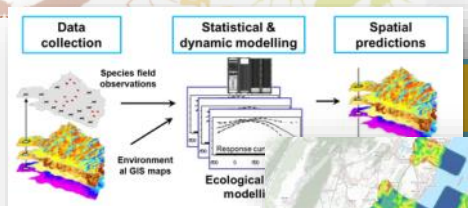
1. Composition

3. Structures

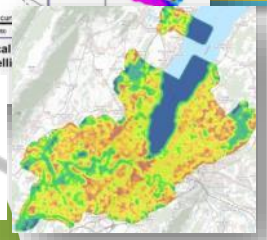
Natural capital distribution maps



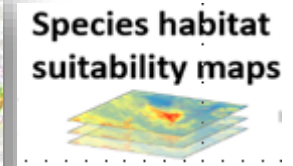
Species landscape resitance map



Species core areas



Species habitat suitability maps



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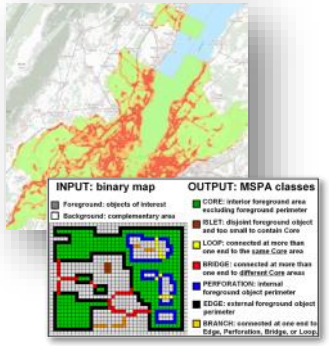
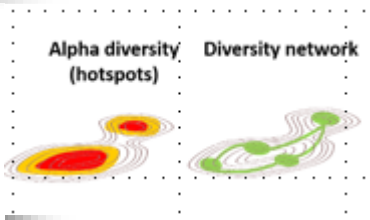
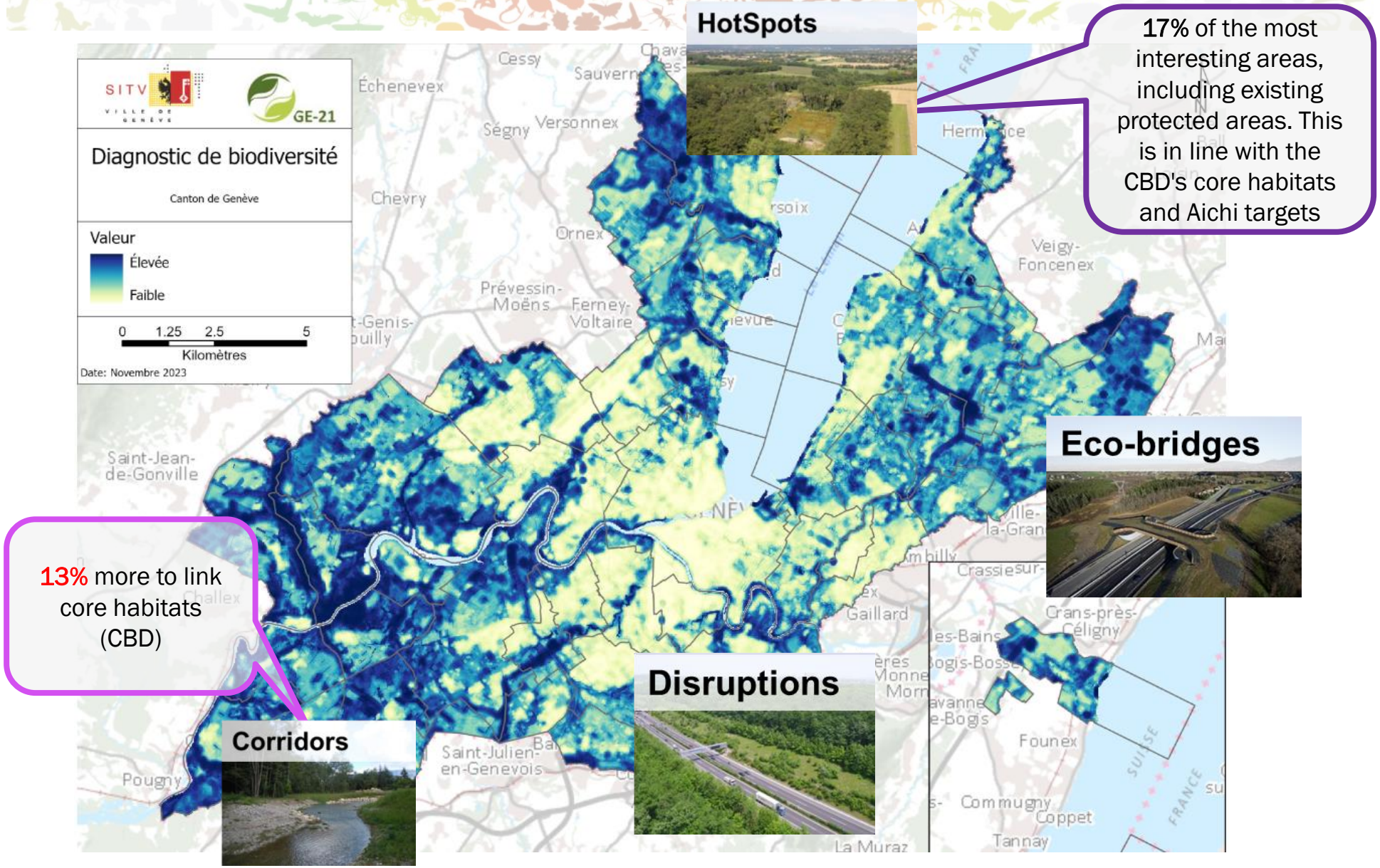




Green / Ecological Infrastructure

GE-21

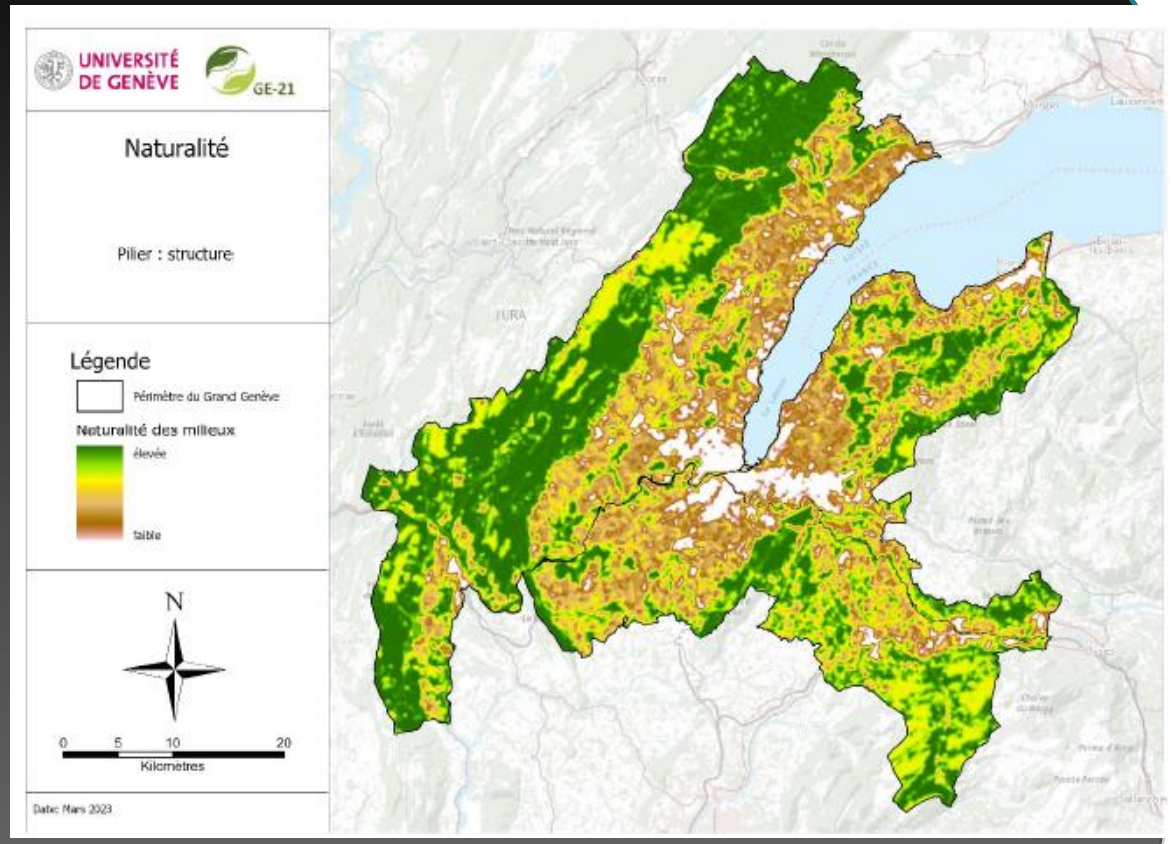
Geneva's Green Infrastructure



Lanscape structure of the Greater Geneva

- Fragmentation (or continuity) index of natural habitats
- Permeability of land use classes
- Naturalness of the territory
- Diversity of green environments (Shannon index)
- Central zone indicator

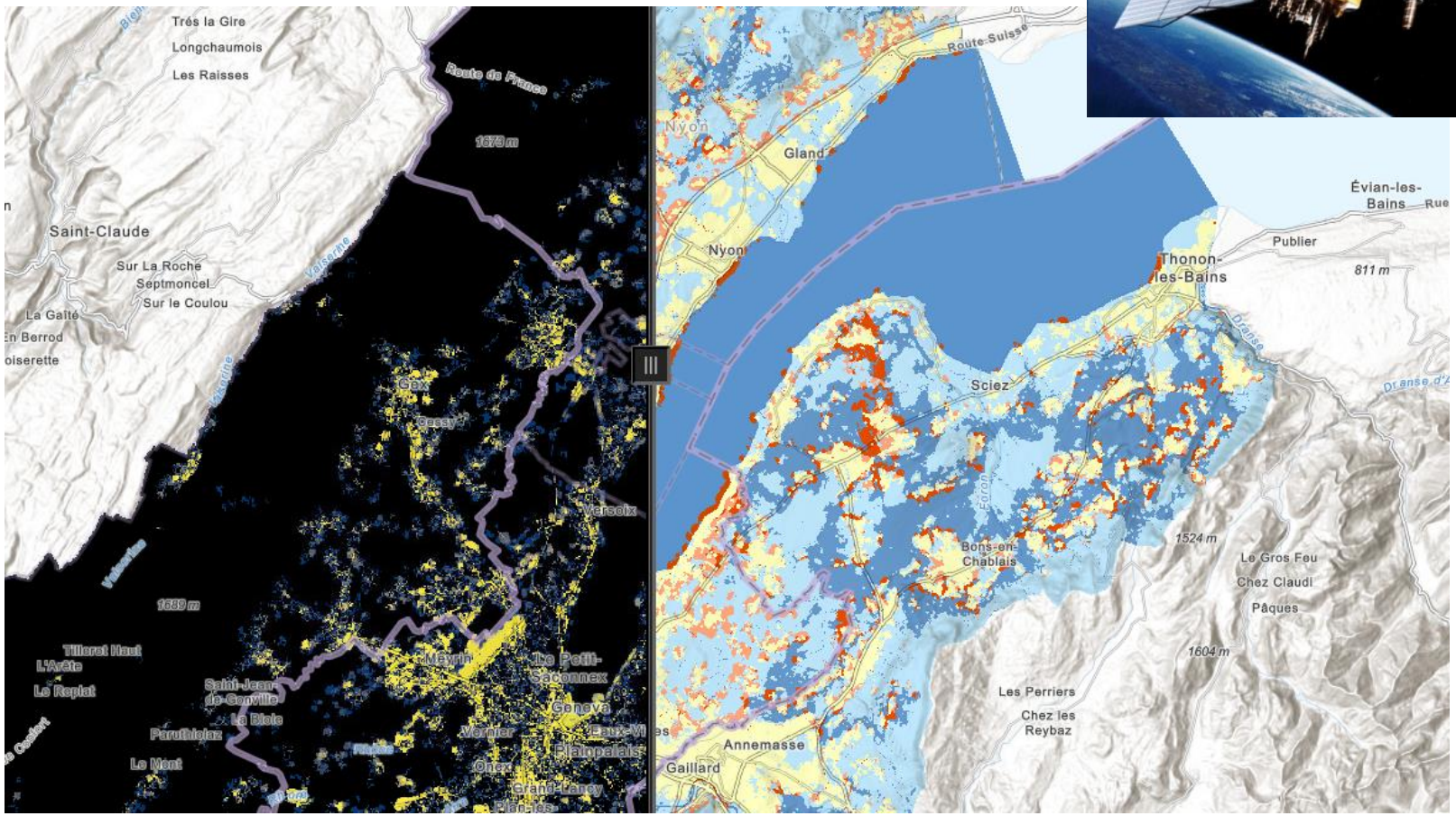
FragStats



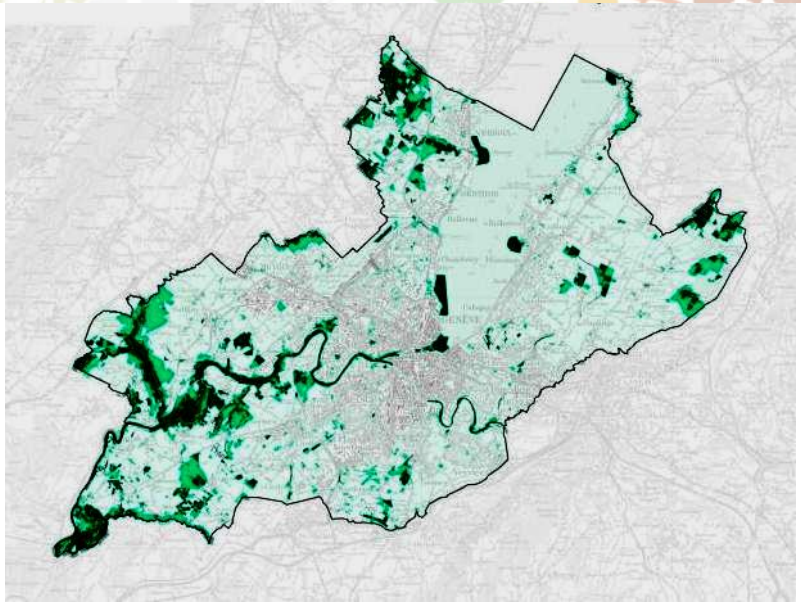
Sanguet et al. 2023

Geneva's DARK Infrastructure

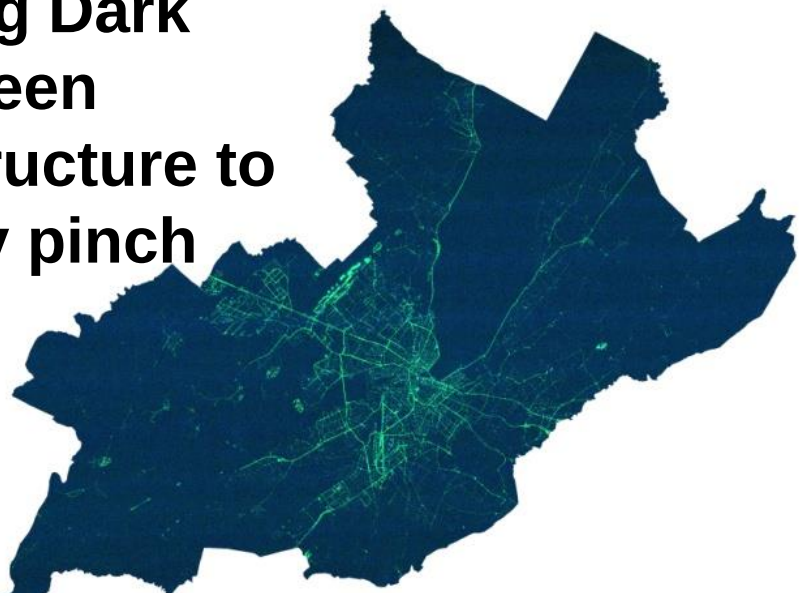
To reduce light pollution
Over 60% of the biodiversity need darkness, humans too!



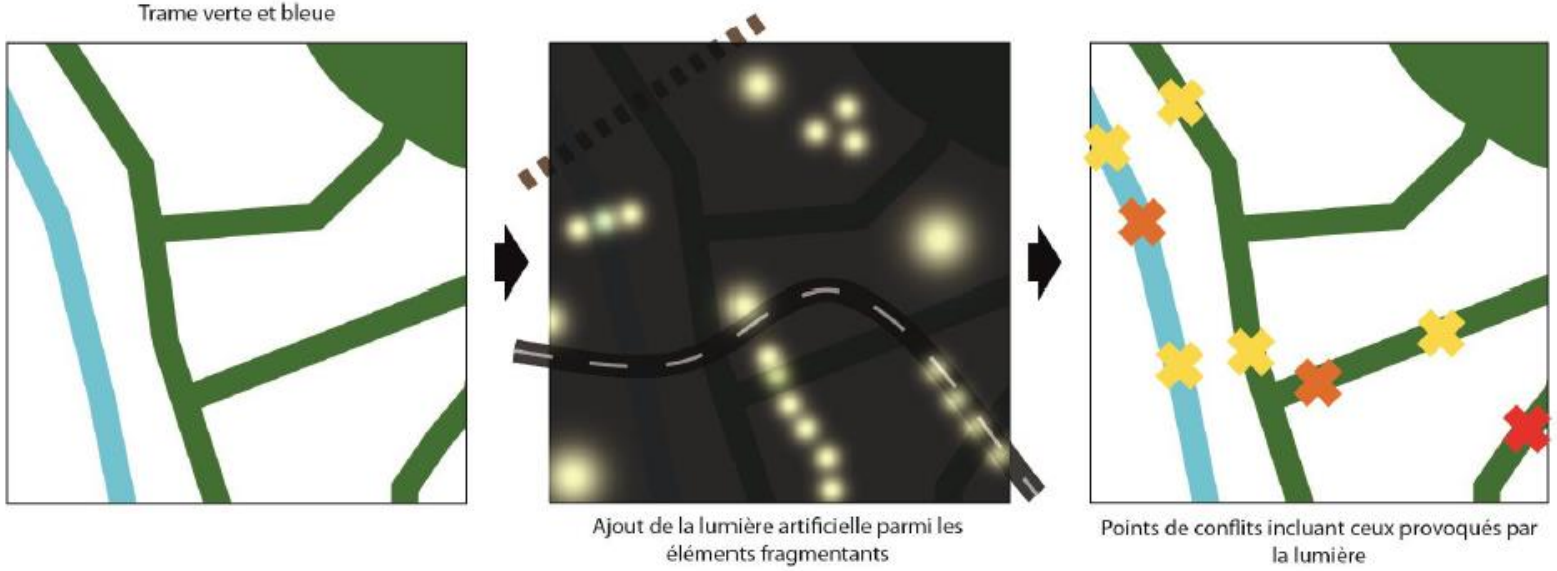
Geneva's DARK Infrastructure



Merging Dark and Green infrastructure to identify pinch points



To identify conflicts zones reducing connectivity



Wild Fauna management – camera traps

Counting of populations, proof or reproduction, etc.

And some surprises…

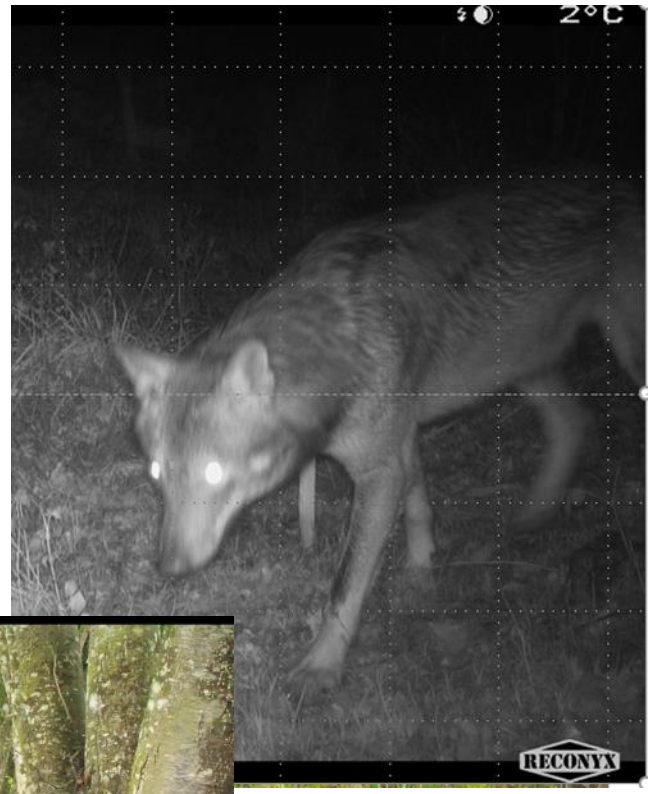
(Cannabis smuggler)

Wild Fauna management – camera traps

Proof of presence or new arrivals

Eurasian golden jackal
Canis aureus

Wild Cat
Felis silvestris



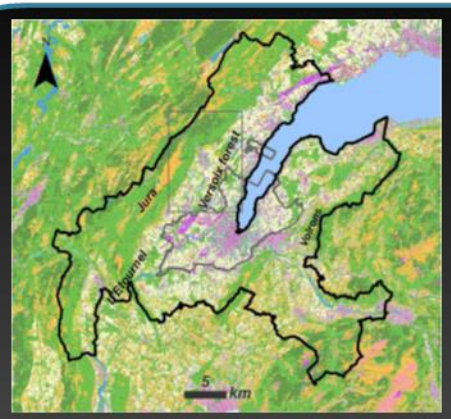
European Wolf
Canis lupus

Geneva’s Green Infrastructure - connectivity

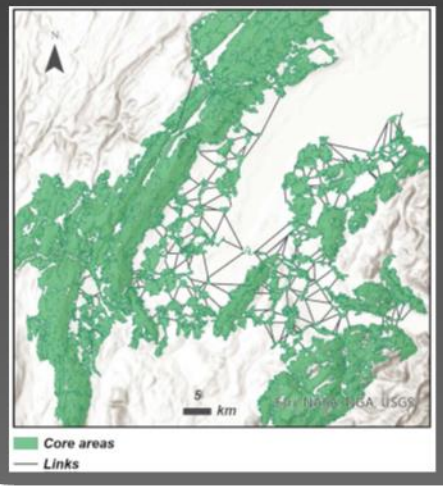
Geneva's Green Infrastructure - connectivity

Connectivity for Deer

Natural Habitats

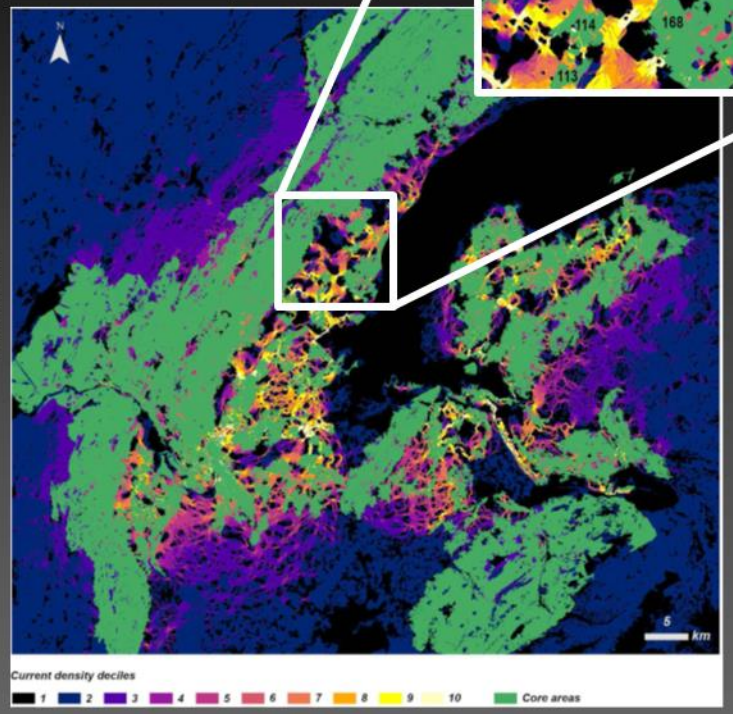


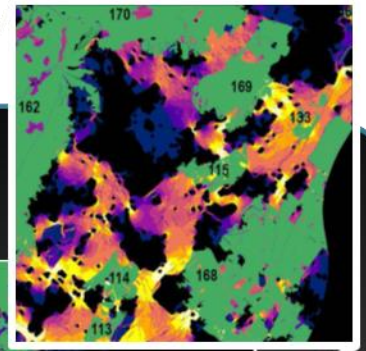
Connections



"Current"

Circuitscape

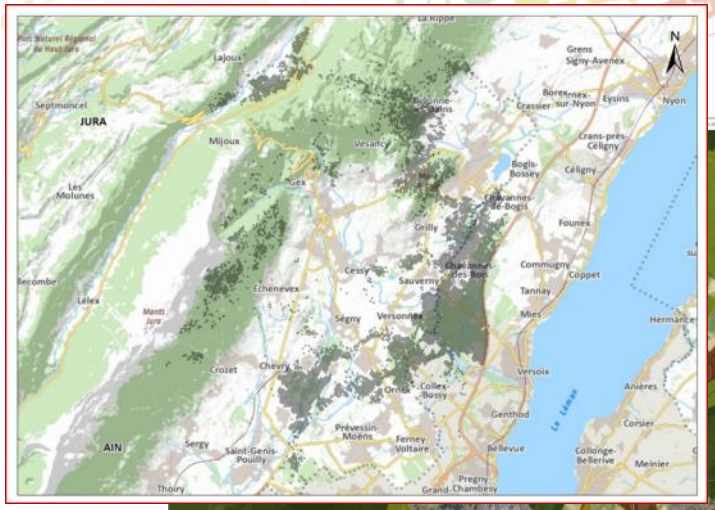




hepia

Haute école du paysage, d'ingénierie et d'architecture de Genève

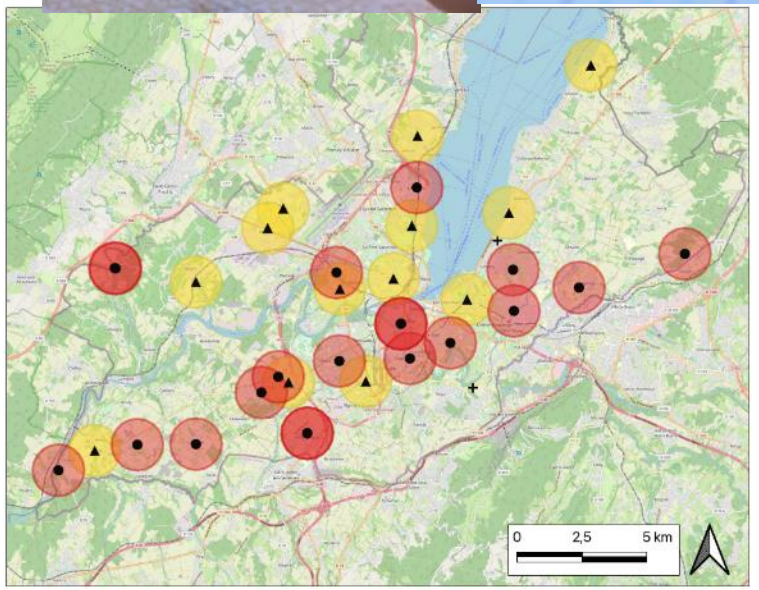
Geneva's Green Infrastructure



Non-Native invase species controlling

Asian Hornet

Tracking individuals to their hidden nests



Allows nest destruction
To limit progression of the populations

Insects biomass collapse

… but sometimes it doesn't need great technology to identify an issue

Thank for your attention

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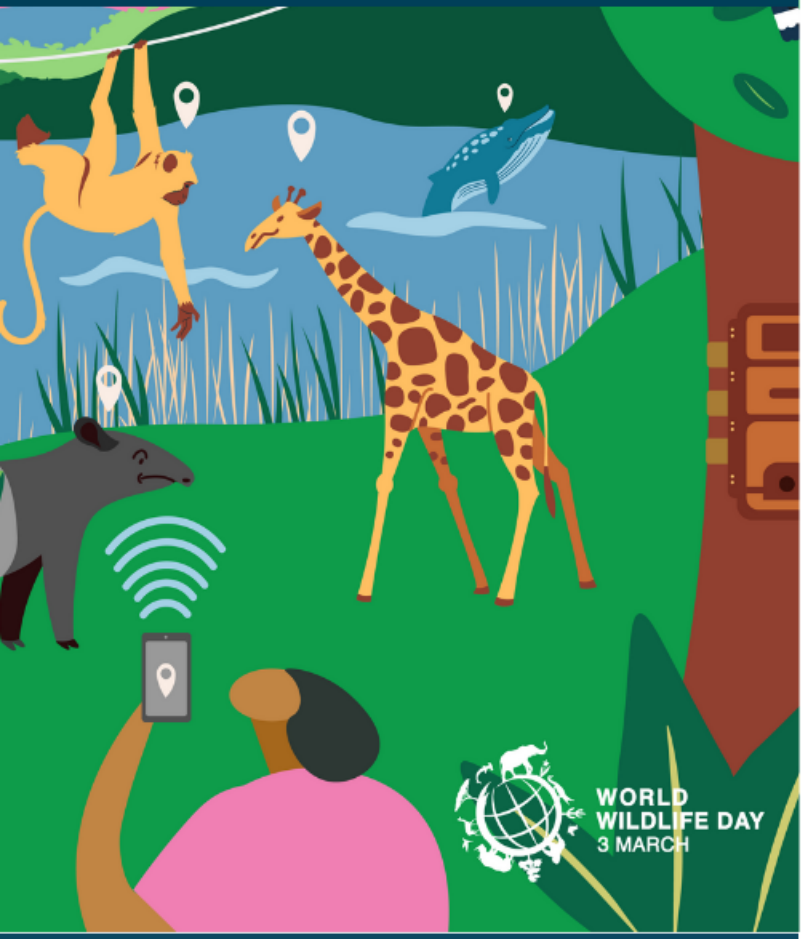

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Moderated by Juan Carlos VASQUEZ | Chief of Legal Affairs and Compliance, CITES

Welcome | Geneva World Wildlife Day Celebration

Exploring Digital Innovation in Wildlife Conservation

Connecting Digital Technologies and Wildlife Conservation

Advancing Digital Technologies for Wildlife Conservation

- **Esther GITHINJI** | East Africa Conservation Technology Coordinator, WILDLABS
- **Swabir ABDULREHMAN** | Technical Director, Connected Conservation Foundation
- **Bourhan YASSIN** | CEO, Rainforest Connection
- **Bertrand VON ARX** | Director, Biodiversity, Canton of Geneva

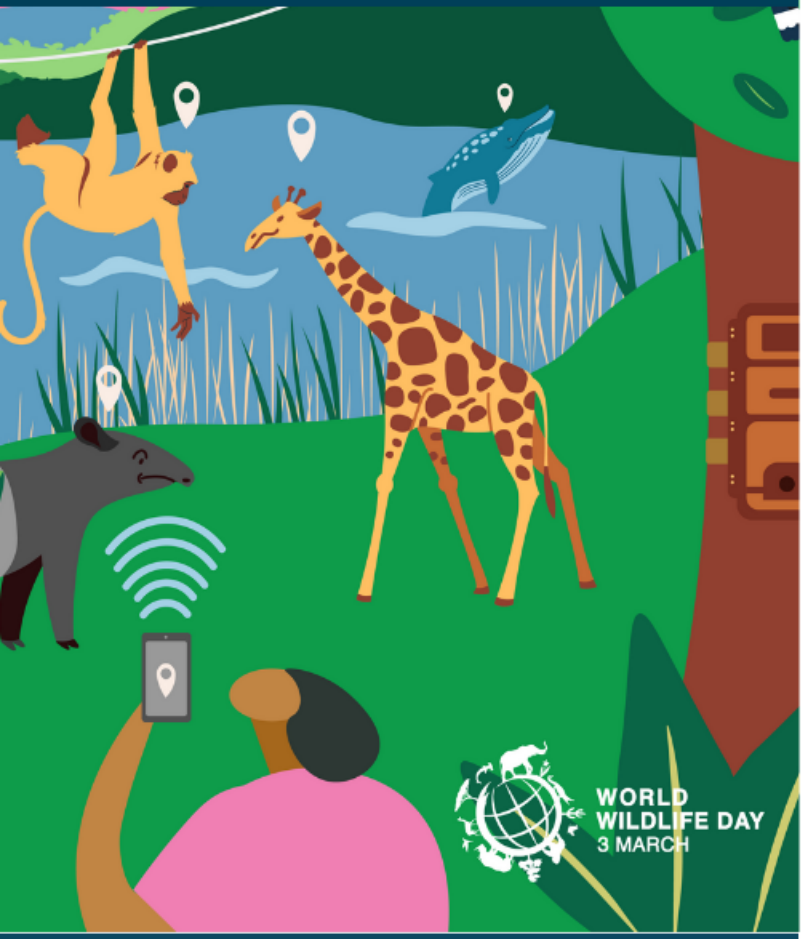
Launch of CITES-Lex

Short Film Screening

Closing Remarks

World Wildlife Day 2024

GENEVA CELEBRATION



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WORLD WILDLIFE DAY 3 MARCH

CITES

ITU

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Julia NAKAMURA

Legal Officer, FAO

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WORLD WILDLIFE DAY 3 MARCH

Food and Agriculture Organization of the United Nations

CITES-LEX

Julia Nakamura

Development Law Service, FAO Legal Office

World Wildlife Day 2024 Geneva Celebration

Connecting People and Planet: Exploring Digital Innovation in Wildlife Conservation

4 March 2024

Mandate to develop CITES-LEX

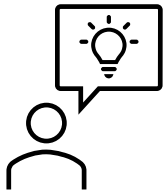
(Decision **19.62**) … in the provision of legal assistance, cooperate with the legal programme of FAO

(Decision **19.130**) … develop digital solutions to automate relevant parts of the Rapid guide for making LAFs, and maintain a dedicated webpage regarding the verification of legal acquisition for different taxa and specimens on the CITES website and update it regularly

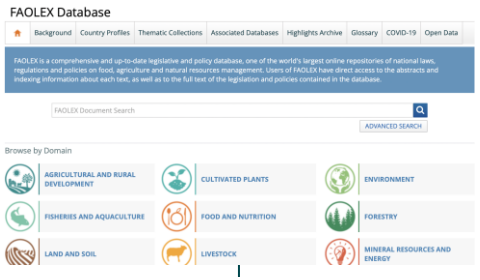
Development

FAOLEX Team

Available to public



International Workshop on Legal Acquisition Finding (Oxford, UK)



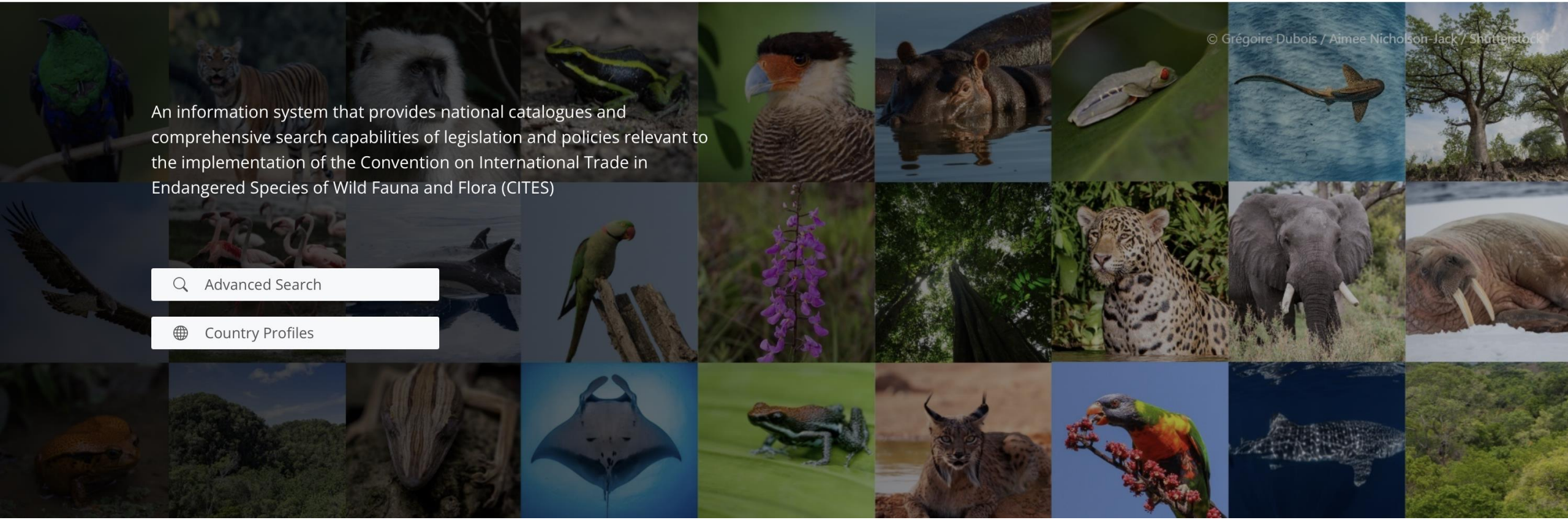
2022 **2023** **2024**

Food and Agriculture Organization of the United Nations

CITES-LEX

https://citeslex.fao.org

ENGLISH



HOMEPAGE

- Information about CITES, partnership with FAO
- Methodology
- Related websites
- Related resources
- Contact us

ADVANCED SEARCH

- By region, country
- Period
- Keywords
- Type of text

COUNTRY PROFILES

- Constitutional provisions
- CITES-specific legislation
- CITES-related legislation
- Additional legislation
- International commitments
- CITES-related policies

Next steps

Dissemination

- Video to promote and facilitate the use of CITES-LEX

Improvement

- Notification to the Parties to request review of country profiles
- Incorporate technical inputs received

Fundraising

- Maintenance
- Further develop CITES-LEX into a more comprehensive system for assisting States in the making of LAFs

2024

GreenLaw Foundation

THANK YOU

For more information, please contact:

julia.nakamura@fao.org / deleuil@cites.org

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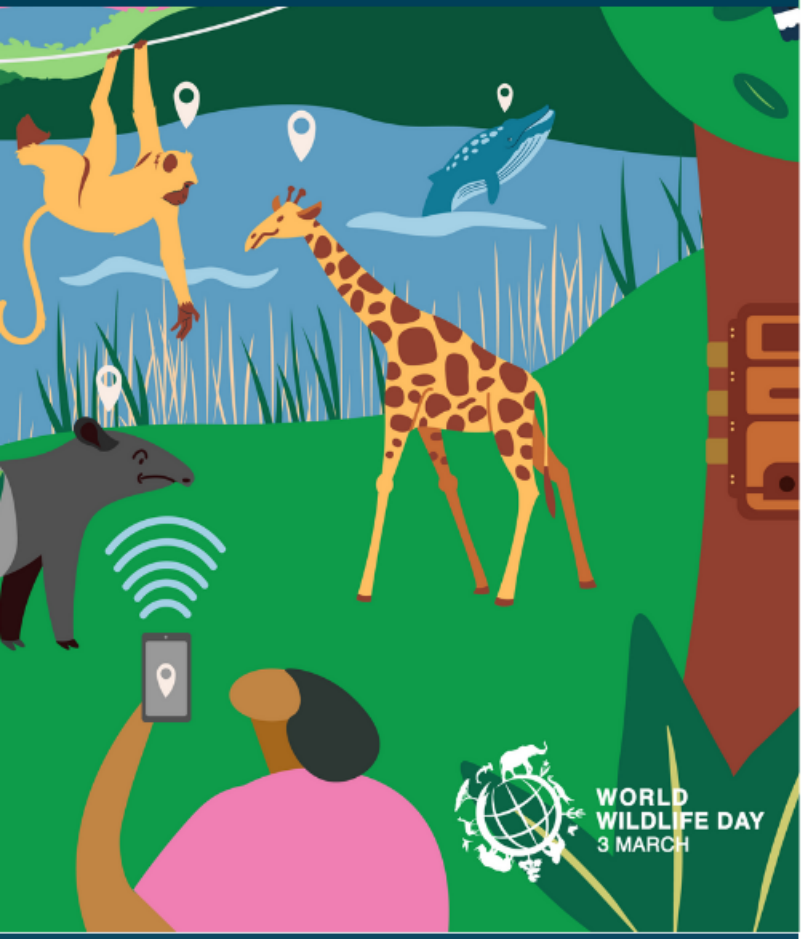

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Closing Remarks

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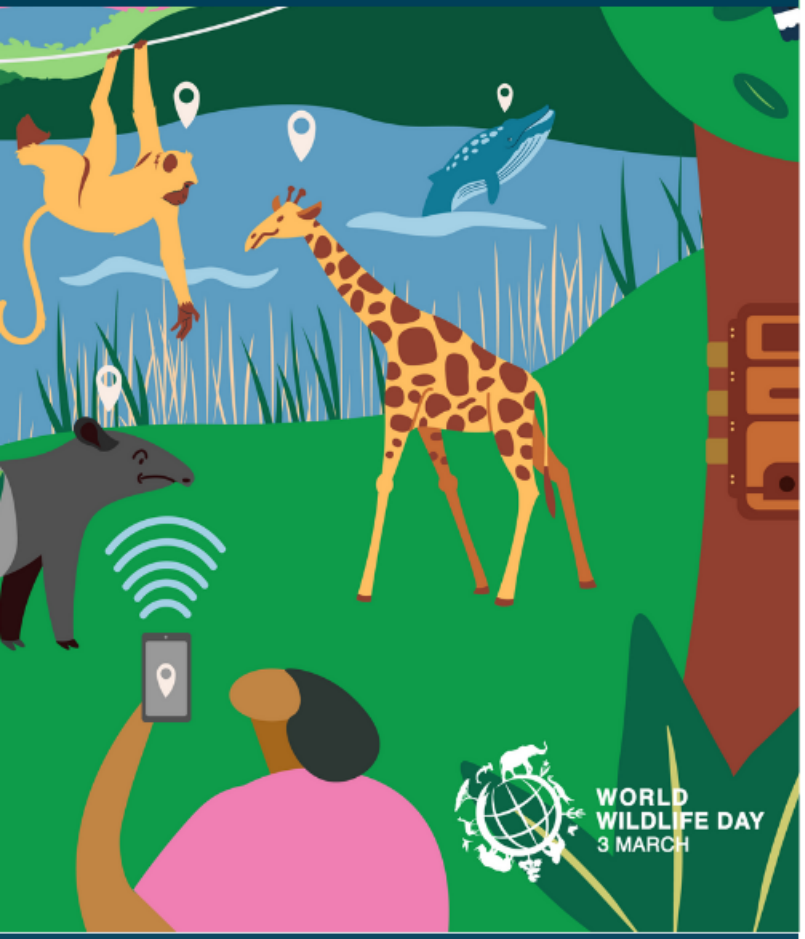

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Film Screening

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Click here to watch one of the World Wildlife Day 2024 Film Showcases

World Wildlife Day 2024

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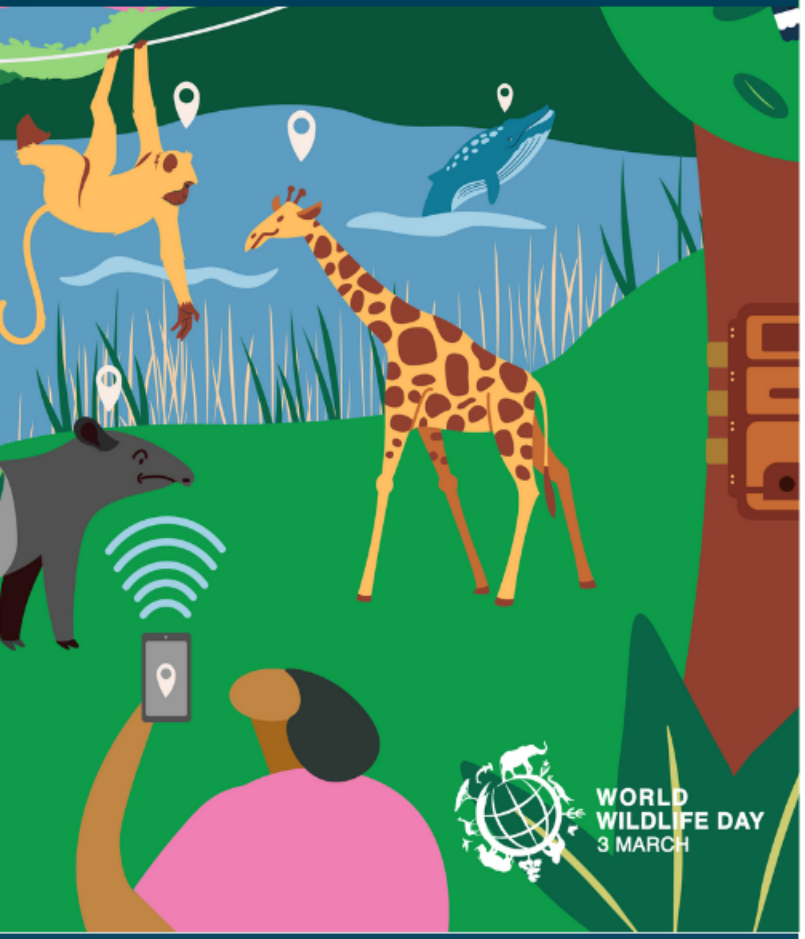

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- **H.E. Amb. Bathsheba Nell CROCKER** | Permanent Representative of the United States to the United Nations Office at Geneva
- **Mathias LÖRTSCHER** | Head of CITES Management Authority, Switzerland

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CLOSING REMARKS

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Thank You!

Doreen BOGDAN-MARTIN

Secretary-General, ITU

H.E. Amb. Bathsheba Nell CROCKER

Permanent Representative of the United States to the United Nations Office at Geneva

Mathias LÖRTSCHER

Head, CITES Management Authority, Switzerland

Dao NGUYEN

Senior Programme Manager, Conservation Action, IUCN

John DAVID

Information Systems Officer, Automated System for Customs Data, UNCTAD

Jean-Manuel CANET

Senior Manager, Climate and Biodiversity, Orange Group | Vice-chair of ITU-T SG5 "EMF, Environment, Climate action, Sustainable Digitalization, and Circular Economy

Simone HAYSOM

Director, Environmental Crime and Head, ECO-SOLVE, Global Initiative Against Transnational Organized Crime

Esther GITHINJI

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Chief of Legal Affairs and Compliance, CITES | Moderator

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