World Wildlife Day 2024

GENEVA CELEBRATION
4 MARCH 2024 | 14:30 - 16:00 CET
ITU HQ | Room C1

Connecting People and Planet: Exploring Digital Innovation in Wildlife Conservation

#WWD2024
Juan Carlos VASQUEZ

Chief of Legal Affairs and Compliance,
CITES | Moderator
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
Advancing Digital Technologies for Wildlife Conservation
Launch of CITES-Lex

Short Film Screening

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

Welcome | Geneva World Wildlife Day Celebration
- Doreen BOGDAN-MARTIN | Secretary-General, ITU
- Mathias LÖRTSCHER | Head of CITES Management Authority, Switzerland

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WELCOME
Geneva World Wildlife Day Celebration

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

tiny.cc/WWD24Geneva
World Wildlife Day 2024 Geneva Celebration

Doreen BOGDAN-MARTIN
Secretary-General, International Telecommunication Union (ITU)

4 MAR 2024 | 14:30 CET | ITU HQ | Room C1
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H.E. Amb. Bathsheba Nell CROCKER

Permanent Representative of the United States to the United Nations Office at Geneva
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4 Mar 2024 | 14:30 CET | ITU HQ | Room C1
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.
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

**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**

**Species**

**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

**Urban Mountain**

**Species**

**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

**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

**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

**Wetland**

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

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Impact to 300+ sites and beyond

### Solutions and visibility
- **Web Hub**
- **Visibility and international events**
- **Flagship publications**

### 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

---

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

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  - PANORAMA
THANK YOU

www.tech4nature.iucngreenlist.org
www.iucngreenlist.org
greenlist@iucn.org
#iucngreenlist #Tech4Nature
dao.nguyen@iucn.org
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Short Film Screening

Closing Remarks
Launch of the e-CITES permit system to enhance regulation of wildlife trade

John DAVID
Information Systems Officer, UNCTAD-ASYCUDA

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Context

**eCITES@ASYCUDA**

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

### Timeline

- **March 2010**: MOU signed between UNCTAD and its ASYCUDA Programme and the CITES Secretariat
- **December 2018**: Signing of a project with the Sri Lanka Department of Wildlife Conservation (DWC) to deploy the eCITES@ASYCUDA in Sri Lanka
- **April 2019**: Signing of a project with the CITES Secretariat to develop the eCITES@ASYCUDA BaseSolution
- **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**
  - Integration with latest Species+ database
  - Alignment with CITES Electronic Permitting Toolkit Version 3.0
- **December 2023**: Meeting between the Secretaries-General of UNCTAD and CITES
  - Decision to strengthen cooperation
- **March 2024**: Development of EPIX completed
  - EPIX testing with Swiss MA starting
The 6 A’s in @CITES workflows

Data Base Exchange e.g. EPIX

Electronic communication exchange (QR code)
Implementation

**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

**SCOPE**

**START-UP**

**OPERATE AND EXTEND**

**DEPLOYMENT CYCLE**

**SETUP**

**ROLL-OUT**

**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
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THANK YOU!
QUESTIONS & ANSWERS

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

Palais des Nations CH-1211 Geneva 10, Switzerland
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ecites@asycuda.org
asycuda.org
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Closing Remarks
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
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
- …
ICTs and Biodiversity

The Biodiversity plan related to the ICT sector

COP15 Goals

GOAL A
Protect and Restore

GOAL B
Prosper with Nature

GOAL C
Share Benefits Fairly

GOAL D
Invest and Collaborate

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 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

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

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

Email
tsbsg5@itu.int

Website
SG5: Environment, climate change and circular economy
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Short Film Screening

Closing Remarks
Why work on online illicit wildlife trade data?

Simone HAYSOM

Director, Environmental Crime and Head, ECO-SOLVE, Global Initiative Against Transnational Organized Crime
USING AI to TRACK CYBER WILDLIFE TRAFFICKING

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**.
DATA HUBS of the Global Monitoring System

- Hubs being established
- Hubs to be confirmed
- Hubs proposed by partners
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
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Exploring Digital Innovation in Wildlife Conservation

Advancing Digital Technologies for Wildlife Conservation
Driving Green Growth and Climate Finance Solutions for Africa

Esther GITHINJI
East Africa Conservation Technology Coordinator, WILDLABS
APPLICATION IN THE FIELD

#TECH4WILDLIFE

ESTHER GITHINJI
EAST AFRICA CONSERVATION TECHNOLOGY COORDINATOR, WILDLABS
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.
HOW ARE YOU USING #TECH4WILDLIFE?

JOIN THE 8TH ANNUAL PHOTO CHALLENGE
3 MARCH, WORLD WILDLIFE DAY

WILDLABS.NET
Save the Elephants
@kile_kanyi

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

Equilibrio Azul
@equilibrioazul

#Tech4Wildlife sometimes not so “high tech”, like this homemade “turtle cam” with our friends @gicGalapagos 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.

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

Shawn F. McCracken
@ShawnFMcCracken

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

Parker Levinson (she/her)
@ParksLoveParks

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: Frank af Petersens/Give the Elephants

Credit: Andrin van der Iguanas from Above

Credit: Equilibrio Azul

Credit: Shawn F. McCracken

Credit: Parker Levinson & Point Blue Conservation Science
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.
CONNECT WITH OUR COMMUNITY

https://wildlabs.net/
#tech4wildlife
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Closing Remarks
Swabir ABDULREHMAN
Technical Director, Connected Conservation Foundation
Connected Conservation

Protecting wildlife and natural ecosystems through technology

Uniting partners to save species.
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.
CUTTING EDGE SINCE 2015, INFRASTRUCTURE 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
COLLABORATION SCALES MONITORING TO THE SKY

Al-enabled innovation and research paper (here)
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
## SECURED CONNECTIVITY FOR 19 AFRICAN PARKS

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

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Country</th>
<th>Class</th>
<th>Priority</th>
<th>Average Users</th>
<th>Suggested Meraki Device</th>
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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
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

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
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

- 4,000 species
- 4,388 projects
- 1,682,380,780 analyses
- 119 countries
- 151,720,020 recordings
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Bertrand von ARX
Director, Biodiversity, Canton of Geneva

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

- Altitude 330 - 516 m.
- 95% border with France
- 2'237 hab. / km²

Canton de Genève
282 km²
>500'000 citizens

30% URBAN Area
1/20 Green

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

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

LIDAR (light detection and ranging)

Multispectral

Field Data

Land Use

Field checking
Natural Habitat Map

Based on air photo or satellite images.
Geneva’s Green Infrastructure

4 GI pillars

1. Composition

2. Ecological connectivity

3. Structures

4. Ecosystem services

Species landscape resistance map

Species habitat suitability maps

Natural capital distribution maps

Integrated valuation of ecosystem services

InVEST

CIRCUITSCAPE

MARXAN

Alpha diversity (hotspots)

Diversity network
Geneva's Green Infrastructure

13% more to link core habitats (CBD)

17% of the most interesting areas, including existing protected areas. This is in line with the CBD's core habitats and Aichi targets.
Landscape 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

Map showing natural habitats and connections for deer.
Geneva’s Green Infrastructure
Non-Native invade species controlling

Tracking individuals to their hidden nests

Asian Hornet

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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  • Julia NAKAMURA | Legal Officer, FAO

Short Film Screening

Closing Remarks
Exploring Digital Innovation in Wildlife Conservation

Launch of CITES-Lex

4 MAR 2024 | 14:30 CET | ITU HQ | Room C1
Partnerships for effective implementation of CITES-listings

Julia NAKAMURA
Legal Officer, FAO
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.
The new small-scale fisheries policy and legal database

https://citeslex.fao.org

An information system that provides national catalogues and comprehensive search capabilities of legislation and policies relevant to the implementation of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)

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
THANK YOU

For more information, please contact:

julia.nakamura@fao.org / deleuil@cites.org
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Closing Remarks
Click here to watch one of the World Wildlife Day 2024 Film Showcases
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Closing Remarks
• 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
CLOSING REMARKS
World Wildlife Day 2024

Geneva Celebration

4 March 2024 | 14:30 - 16:00 CET
ITU HQ | Room C1

Connecting People and Planet: Exploring Digital Innovation in Wildlife Conservation

#WWD2024