

# **Species Protection Platform**

April 2023

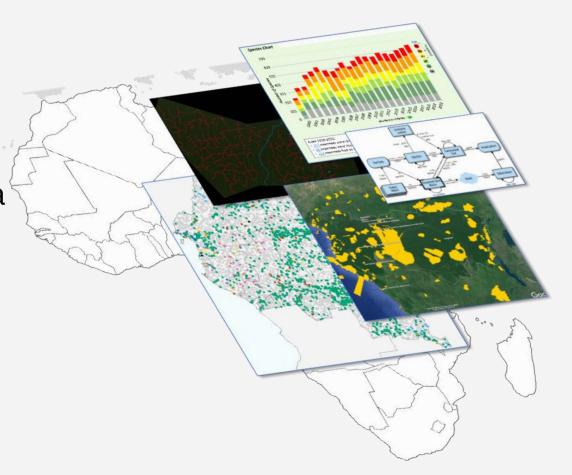


## Our unique approach to Congo Basin conservation

We use a threats-based framework

We integrate spatial and non-spatial data

We focus on helping local organizations

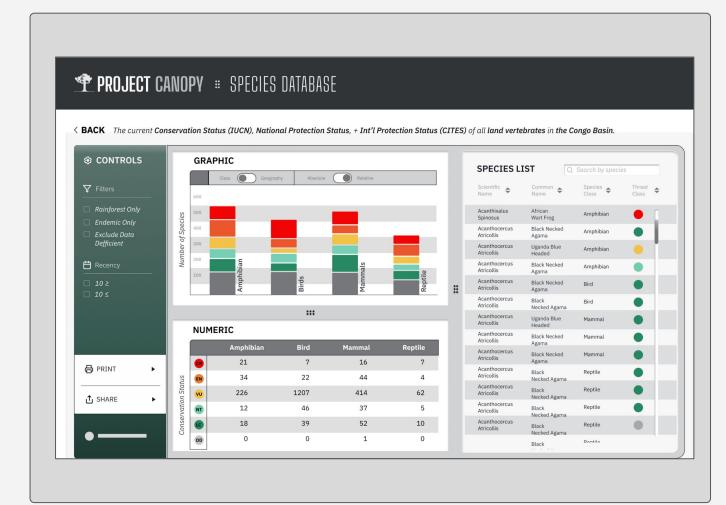


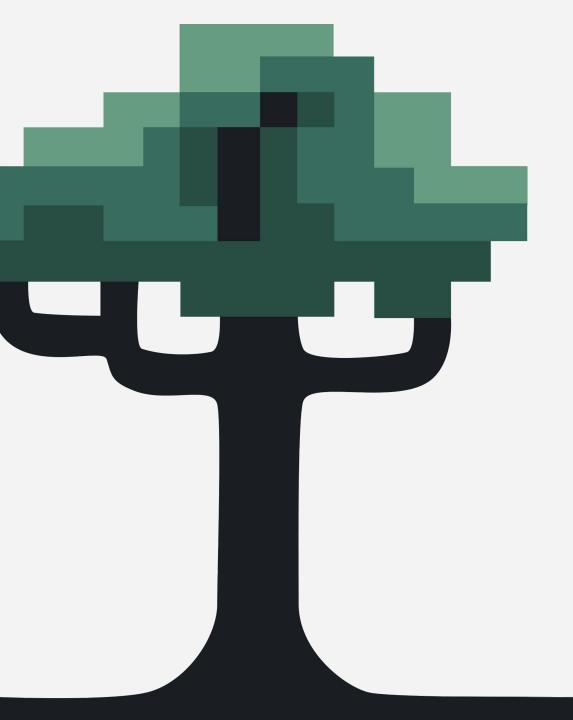
# What do we need to know about species protection?

- The gaps between scientific extinction risk, national species protection laws and international trade regulation are unknown
- This hinders the making of good policy, effective law enforcement, etc.
- By comparing IUCN Red List, national laws and CITES, we can ask questions like:
  - What are the exact species that are threatened but not protected by national laws?
  - How many are endemic to the Congo Basin, or its rainforest habitats?
  - For any Congo Basin country, what would an up-to-date species protection law look like?

# Introducing the Species Protection Platform

- We can identify in real time whether science, national and international laws are aligned
- Users can generate detailed lists of threatened and protected species
- Useful to local governments, capacity-building organizations, law enforcement, advocacy groups





# **Mockup Walk-through**

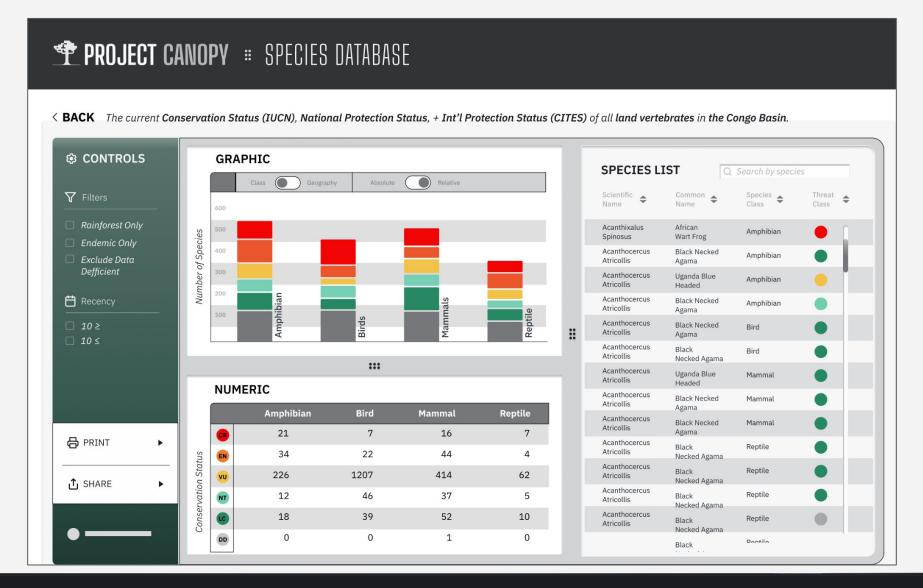
Visualizing the platform



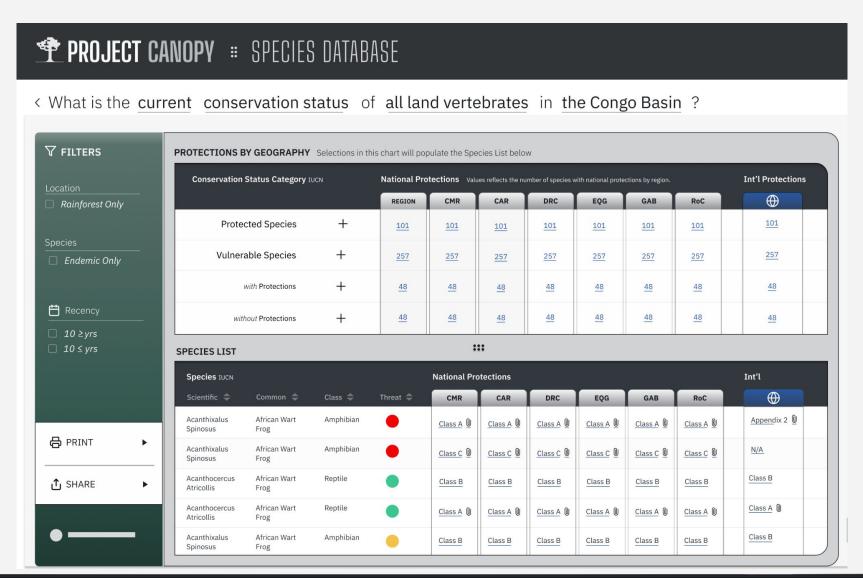
# Users can immediately focus their search...

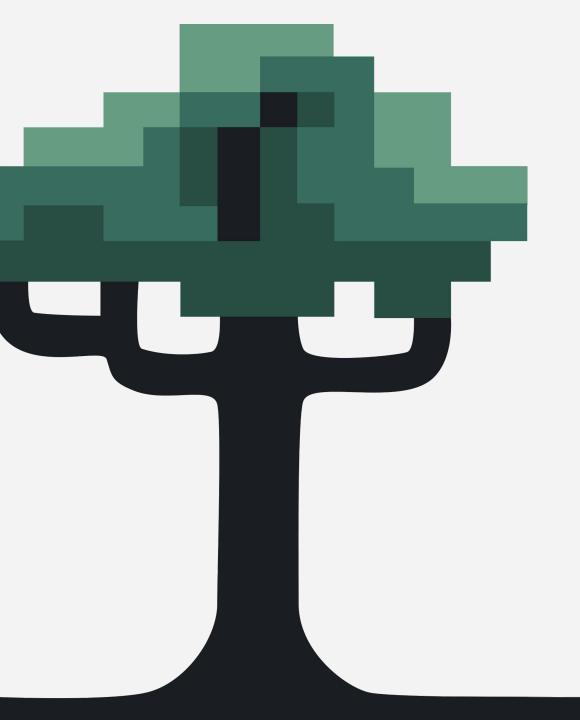
PROJECT CANOPY # SPECIES DA	ATABASE	
Tell Me,		
Which are the current endangered	select species	in the Congo Basin ?
ι	□ amphibians	
	☑ birds	
E	☑ mammals	
Answer	□ reptiles	
	OK ✓	

## ...Which reveals a data-rich but well-organized display...



## ...With instant identification of species – and legal – gaps





### **National Laws**

Initial reading & Findings



### National laws are crucial but difficult to work with

- Laws first have to be found, then read, then understood
- Only after the correct names of species have been identified can they be 'mapped' to IUCN and CITES
- This is the missing link
- Without this work, gaps cannot be identified...and the data is dirty

#### **Manual transcription required (DRC)**

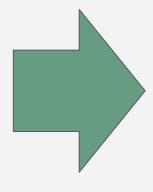
C. aethiopis (Linnaeus, 1758)	Singe vert
E. patas (Schreber, 1775)	Patas
L. a/bigena (Gray, 1850) "	Mangabey à gorge blanche
M. talapoin (Scrhreber, 1774)	Talapoin
Papio anubis (J.B. FISCHER, 1829)	Babouin
E. elegantulus (LE CONTE, 1857)	Galago élégant
G. matschiei (LORENZ, 1917)	Galage du Conge
G. moholi (A. Smith, 1836)	Galago moholi
G. senegalensis (E. Geoffroy, 1796)	Galage du Senegal

#### **Taxonomic errors and ambiguities (Gabon)**

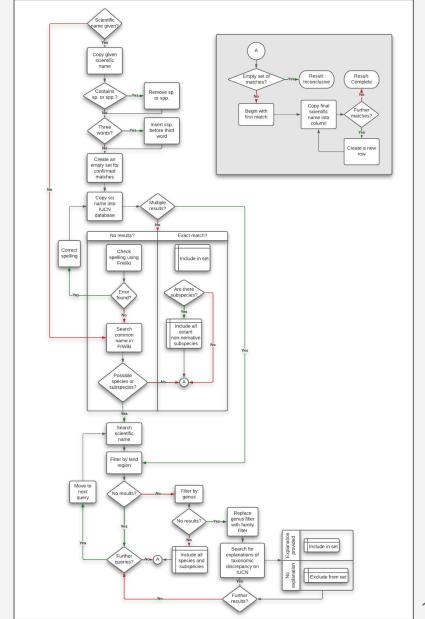
Cobe des roseaux	Kobus redunca arundinum	Redunca redunca
Daman des arbres	Dendrohyrax arboreus	Dendrohyrax arboreus
Galago spp	Galago spp	Galagoides thomasi
Galago spp	Galago spp	Galagoides demidoff
Potto spp	Potto spp	Perodicticus edwardsi
Potto spp	Potto spp	Arctocebus aureus
Oryctérope	Orycteropus afer	Orycteropus afer
Céphalophe de grimm	Sylvicapra grimmia	Sylvicapra grimmia

## Methodology

 We created a rigorous decision tree, to take the species named in laws and map them to what actually exists in IUCN\*



- In many cases, the laws are unclear about which species they are actually claiming to protect
  - We catalogued 11 types of errors, and many species had more than one!
- Our results are preliminary and we welcome expert input



## Our three key findings: Accuracy, age and utility

- These laws contain extremely high error rates
  - Cameroon is the most accurate, achieving only 57%
- Many laws are old and this compromises accuracy (eg, CAR's is from 1984)
- Correct common names are an afterthought
  - o This limits accessibility and utility to non-specialists such as local communities, journalists
- Our <u>brief</u> has much more detail on these issues

## Overall accuracy of national species protection laws is low...

	Cameroon	Republic of Congo	Gabon	DRC	CAR	Totals / Avg accuracy
Given # of species	393	102	44	306	105	950
Final # of species	396	105	46	326	210	1083
Total # errors	176	57	33	166	221	653
Date of adoption	1 Apr 2020	21 Apr 2011	19 Jan 2011	20 May 2006	1984	N/A
Accuracy	57.32%	48.57%	34.78%	53.37%	0.00%*	38.81%

<sup>\*</sup> CAR law only gives common names

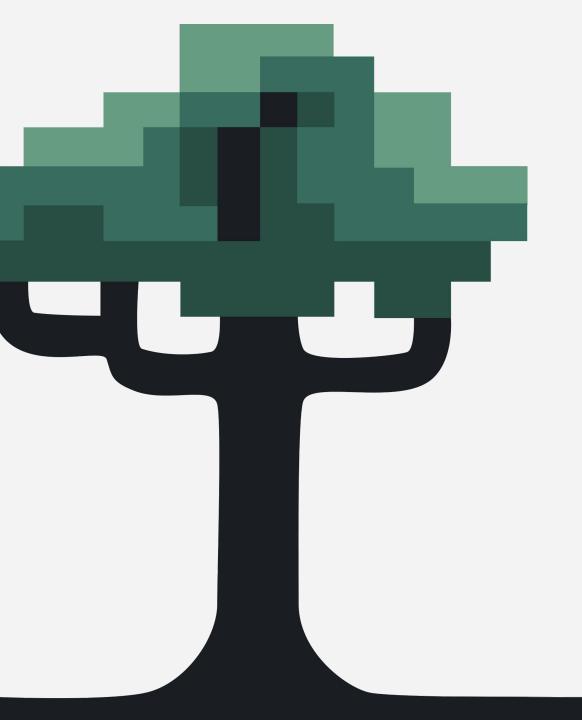
...and is partly a consequence of the age of legislation

# For example, a preliminary analysis of gaps for Gabon...

Gaps in Gabonese law as written	
Threatened (CR/EN/VU) species in final list	17
Species listed in law but not extant in Gabon	4
Extant threatened species in final list *	15
Extant threatened species (Aves, Mammalia, Reptilia, and Amphibia), by IUCN	53
Extant threatened species not covered by law	38

<sup>\*</sup> includes two additional extant subspecies

...found that 72% of threatened species are not covered



# **Next Steps**

Stakeholder feedback

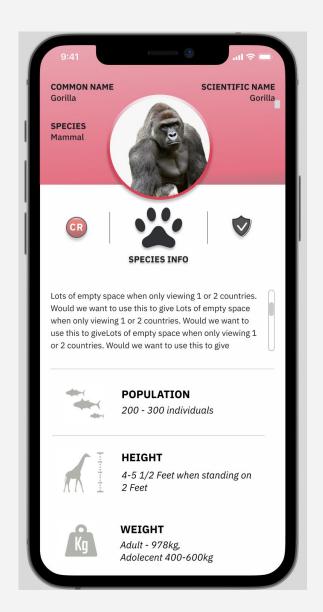


### Benefits of a fully operational platform

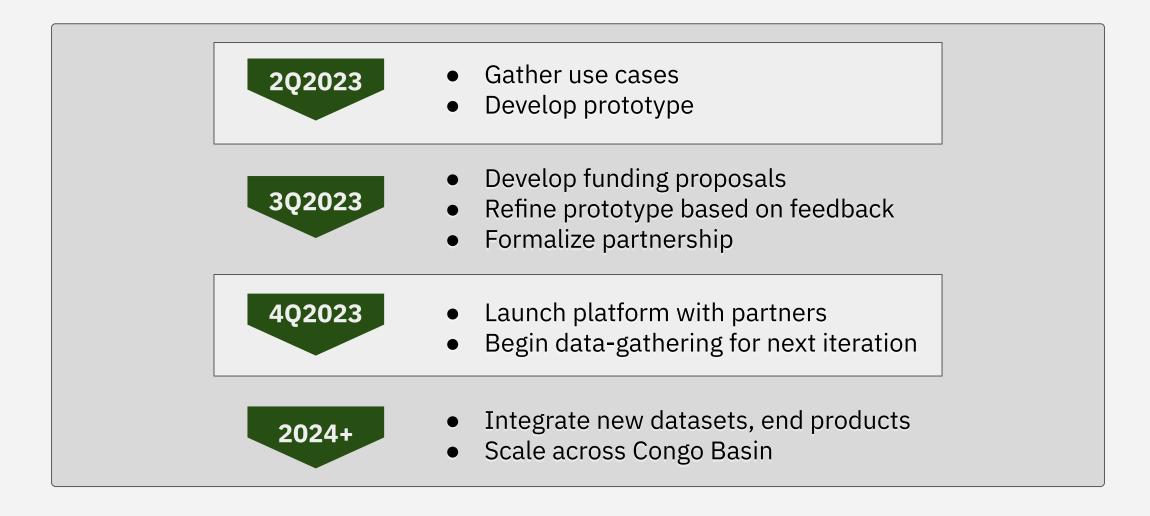
- This will be an evergreen resource
  - Fully automated updates of Red List and CITES
  - Project Canopy will monitor laws, updating as needed
- Can be extended/repurposed to include applications such as species ID cards for LEAs, CSOs



 We are continuing development with volunteers but now we need your help!



### Current roadmap for continued development



### Stakeholders: How can this help your work?

- What kind of work would you use this platform for?
- What other datasets would you like to see integrated into this platform?
- Can you think of anybody else who would find this information useful?
- Can you help us come up with a better name for the platform?

For example, we can use the same approach to

- Expand the database to include Congo
   Basin tree species, especially those
   involved in ISL, incorporating key insights
   such as the minimum felling diameter, and
   amount of C/m³ or C/ha.
- Go beyond the Congo Basin to include land vertebrates for all of sub-Saharan Africa.