











## IAIA's Webinars

- Overview of Proposed Canadian Impact Assessment Act
- Lost in Time: The Black Hole Between ESIA Completion and Project Implementation
- Understanding Impacts on Vulnerable Populations through Psycho-Social Impact Assessment
- Health Considerations in Impact Assessment
- Resettlement and Impact Assessment Points of Intersection
- · And several more...

Visit http://www.iaia.org/webinars.php

@IAIAnetwork

#iaiawebinar





# Housekeeping

Recording?

1

Questions?



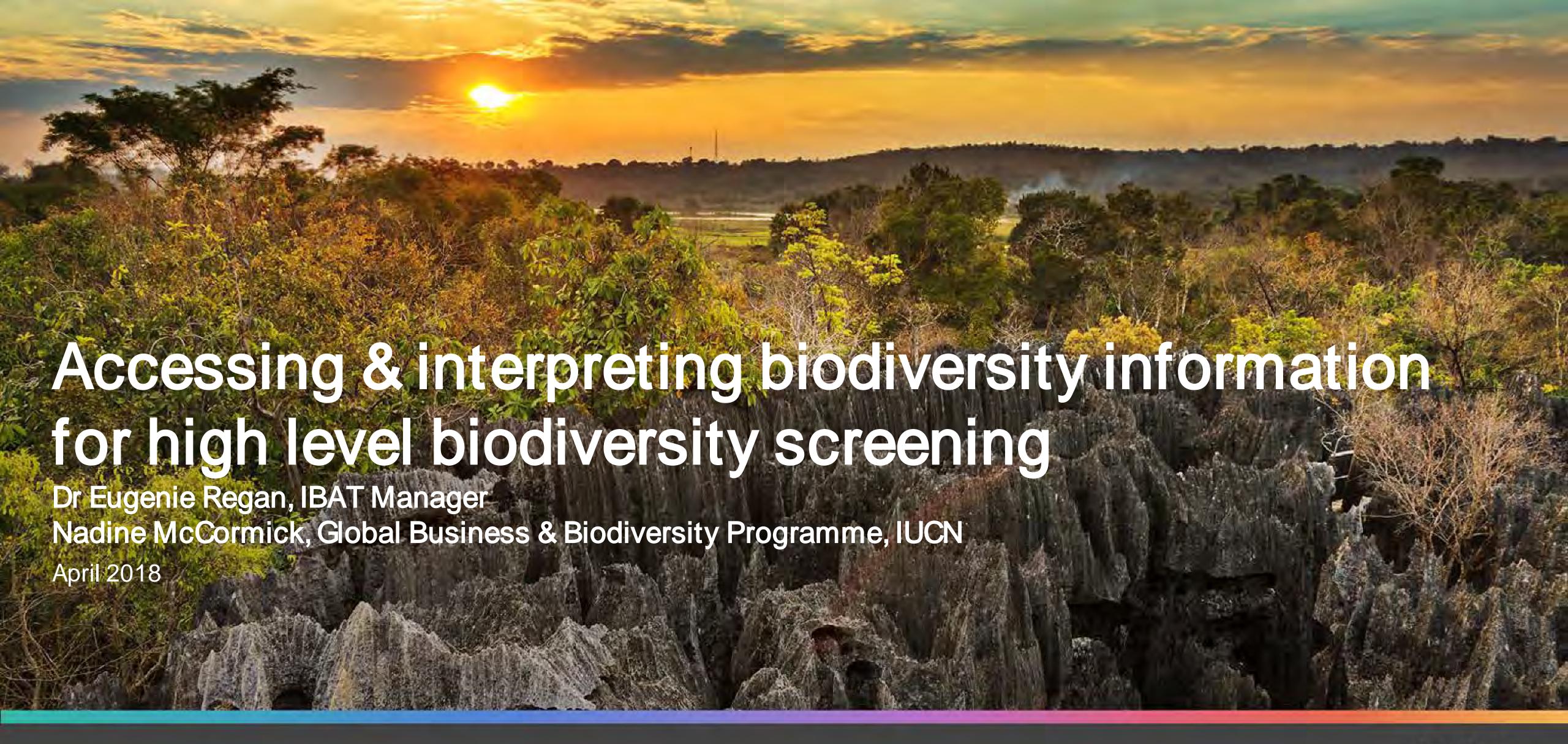
Slides available?











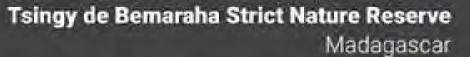
















@ IBAT 2018

## e ilgar 20

### Our questions & your answers:

268 respondents as of yesterday. Thank you!

- 1. As part of your work, you include information on protected areas, Key Biodiversity Areas, & Red List of Species.
- 2. The tools you use to access these data include: IUCN, government databases, Protected Planet, Google Earth, GBIF, CONABIO, & SANBI
- 3. How familiar are you with IBAT? 58% not at all familiar with IBAT, 32% limited familiarity, 10% quite or very familiar





### Agenda

- 1. WHY is biodiversity important to consider
- 2. HOW to consider biodiversity in project developments
- 3. ABOUT the new IBAT portal
- 4. Q&A





Impacts to biodiversity and ecosystem services pose risks to business, including regulatory & reputational.

Over half of delays to oil & gas projects are attributed to non-technical issues, with social conflict over environmental resources being the single biggest factor.









### Twenty years of delays in Costa Rica

- A series of delays & mine closures over 20 years were the result of public outcry over impacts to biodiversity at Infinito Gold's Las Crucitas gold mine.
- Protestors were angry about impacts to biodiversity, such as macaws, while successive Costa Rican governments issued and then withdrew open pit mining licences.
- Company losses in investment alone were estimated around USD\$94 million.





## - 119.AT 2011

### Sustainable companies outcompete their competitors

- The Dow Jones Sustainability World Index comprises global sustainability leaders.
- For investors, the DJSI is one of the most significant benchmarks for measuring the development of the world's most sustainable companies.
- Companies with strong sustainability scores outperform other companies listed on the DJ World Index.
- 'Protection of biodiversity' is one of the DJSI criteria.





Good practice risk management creates many positive opportunities

Securing a license to operate Increasing Maintaining market access to capital access Improving productivity & Reducing operating staff morale costs Enhancing reputation & brand





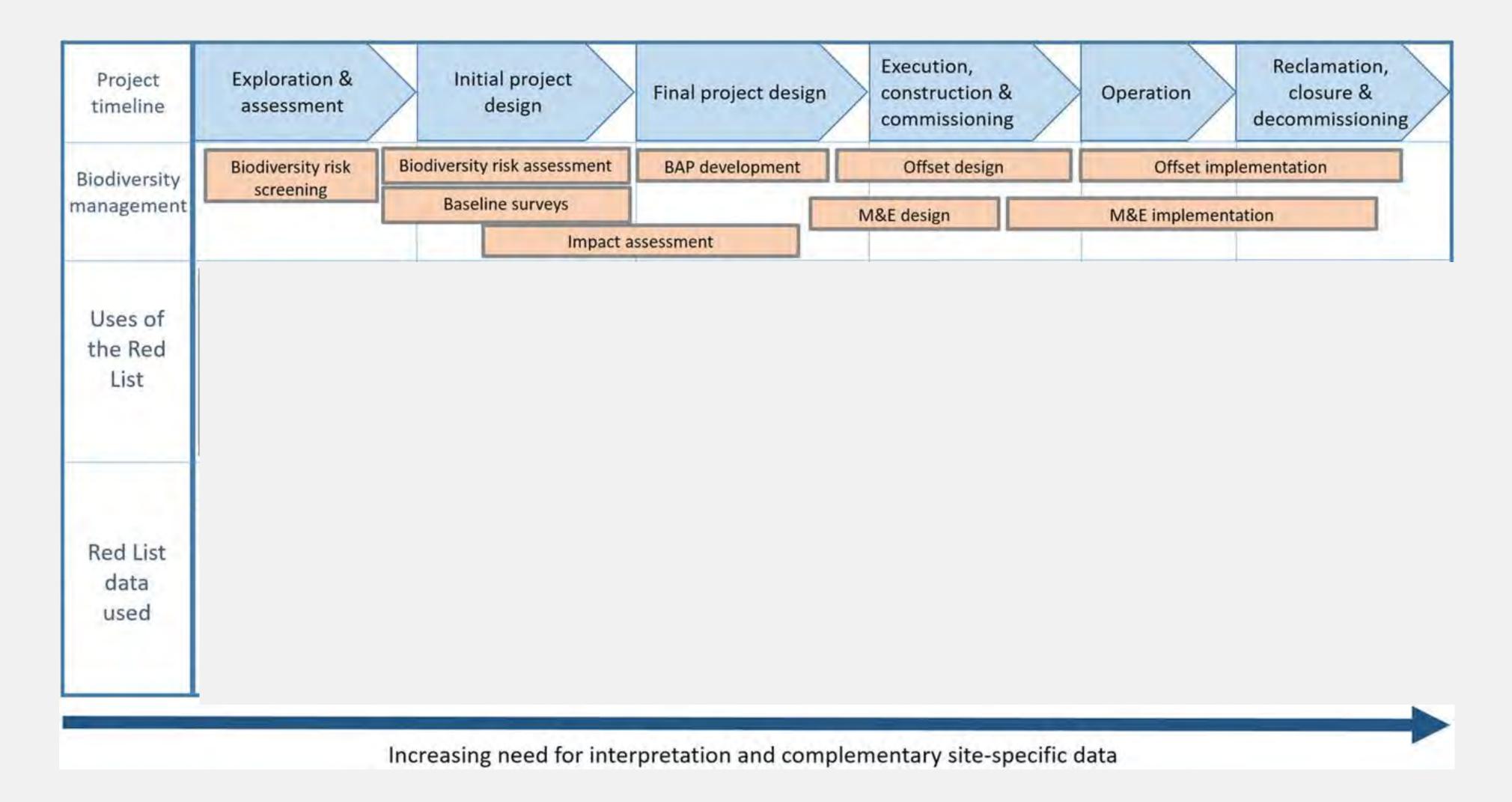
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### Agenda

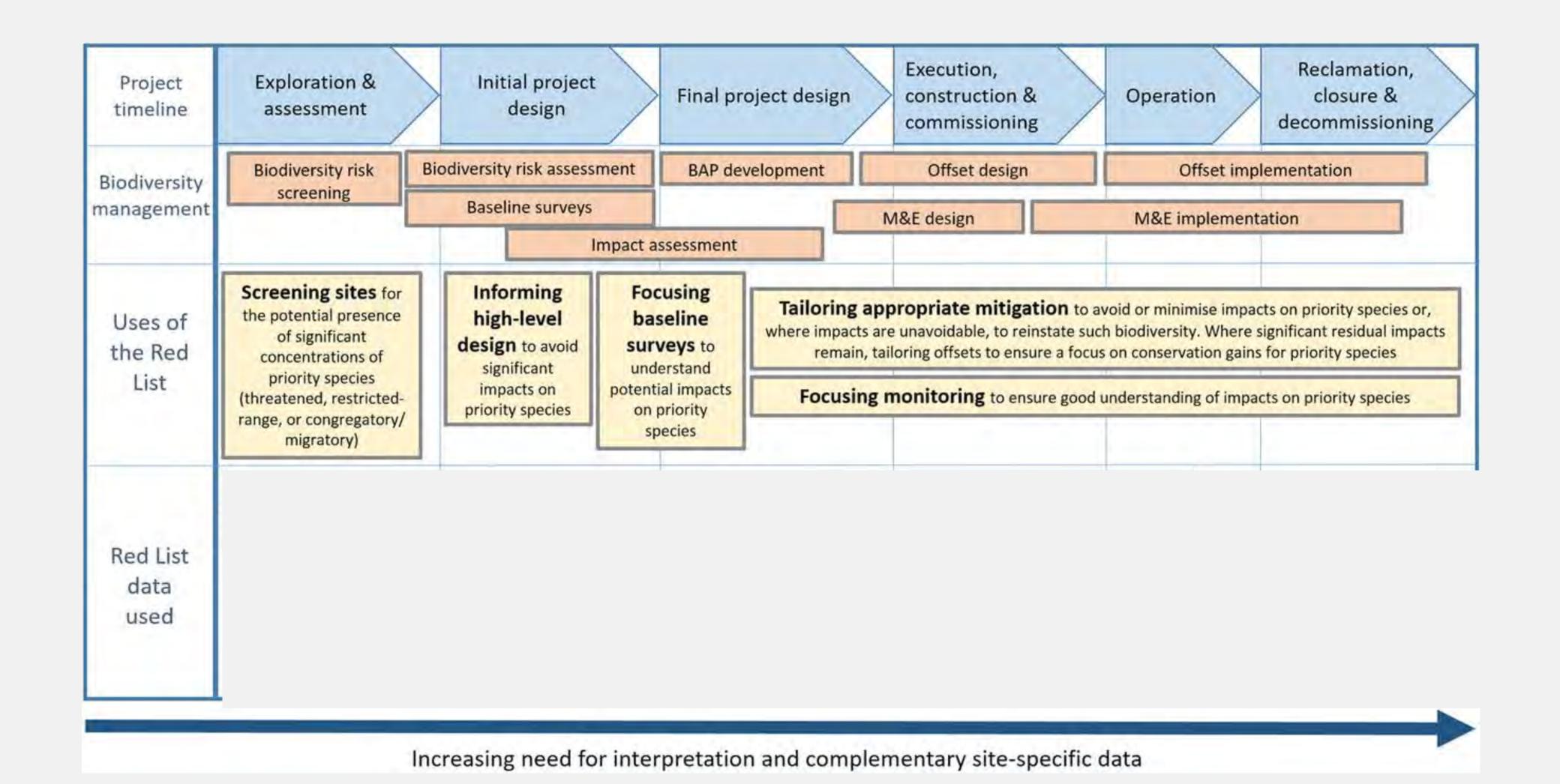
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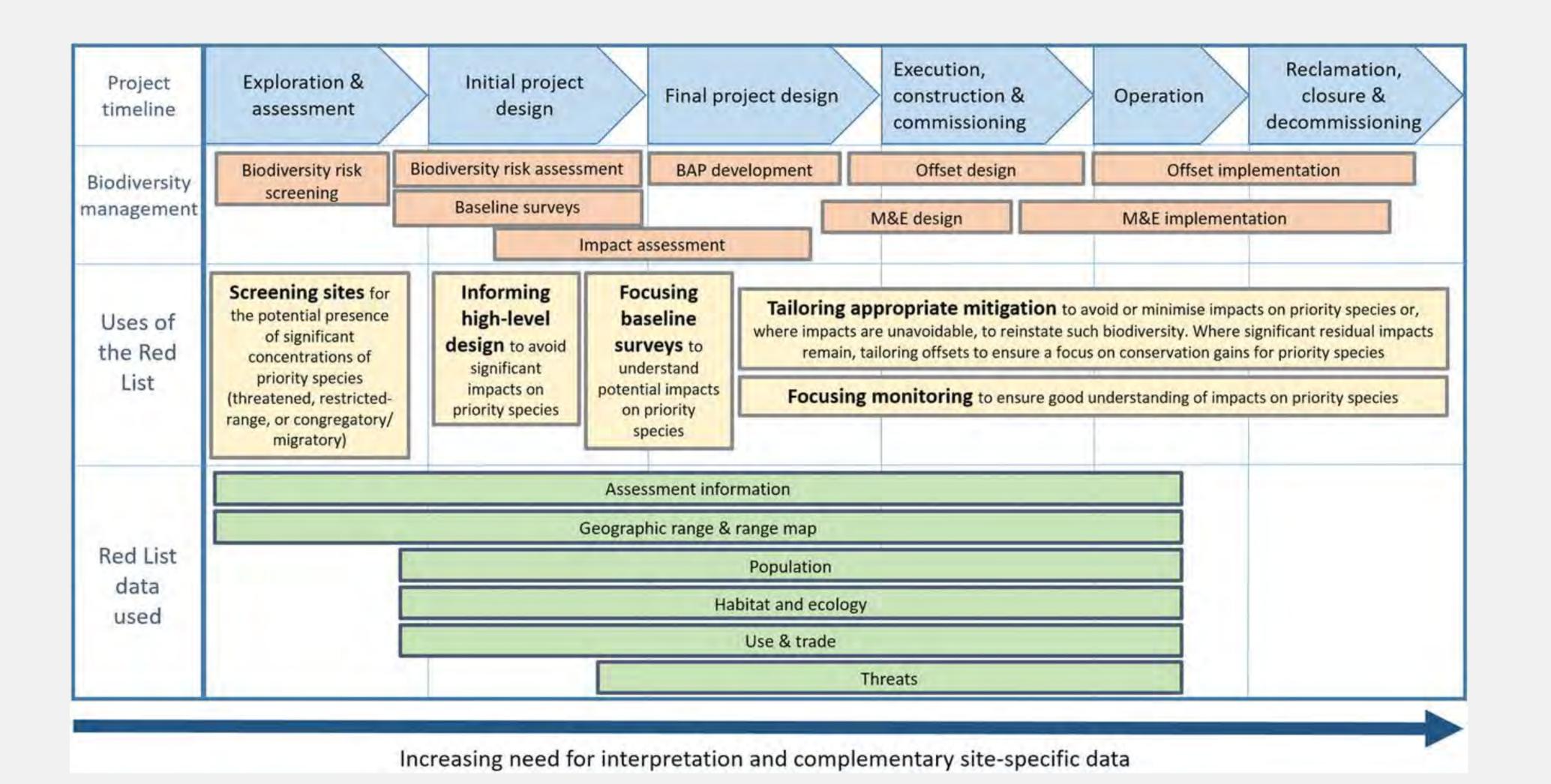




The Value of the IUCN Red List for Business Decision-Making, Volume: 11, Issue: 1, First published: 09 February 2017, DOI: (10.1111/conl.12353)



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## F 18:4T 207

### Poll question 1:

### What is your background?

- Consultant
- Government
- Academia or research institution
- NGO or civil society organisation
- Private sector/business
- Other





## 198T 201

### Poll question 2:

Is accessing biodiversity information a challenge for you?

- Very challenging
- Somewhat challenging
- A little challenging
- Not at all challenging
- Not relevant





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## - 118AT 201

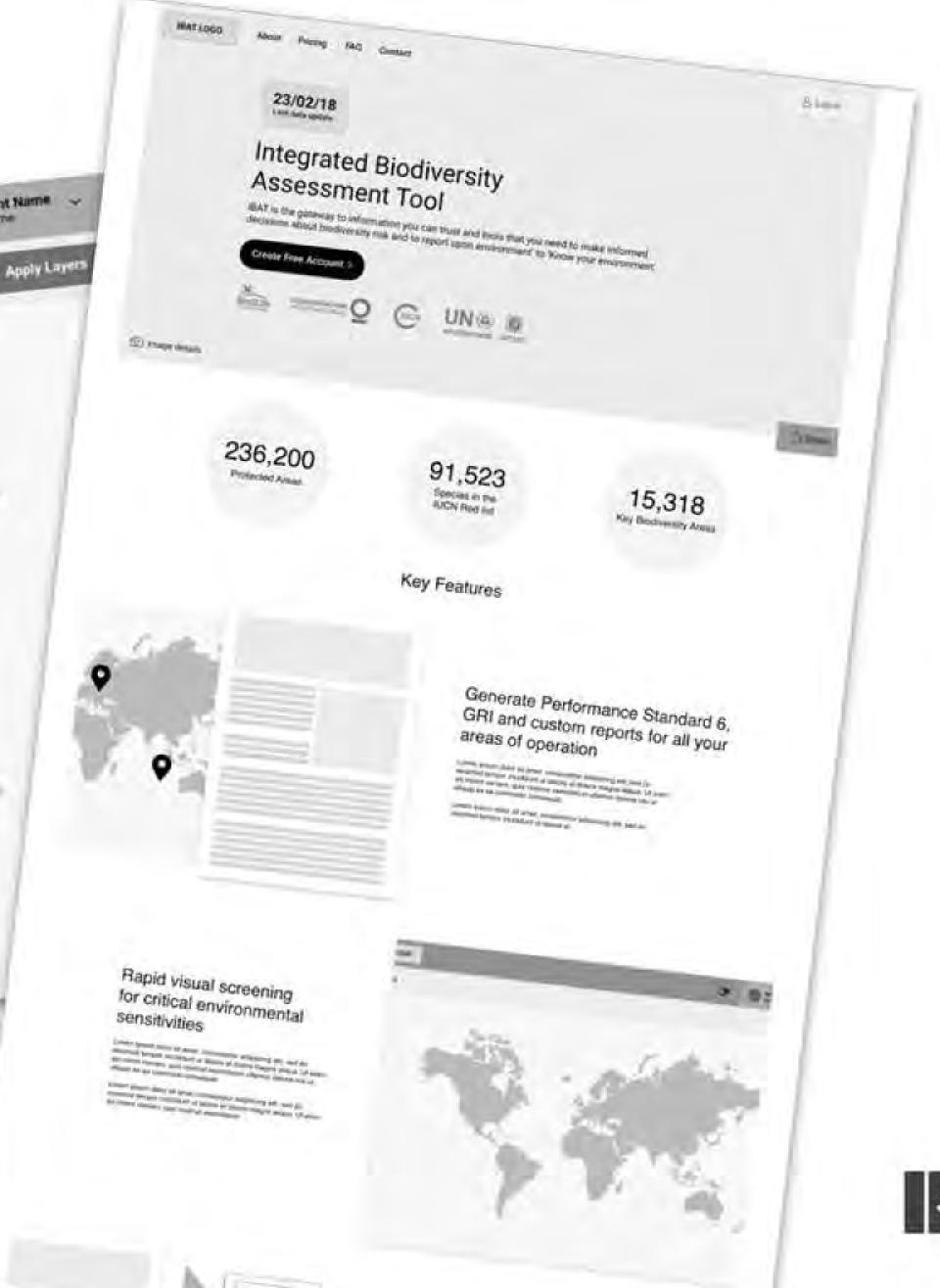
# Pre-webinar question - What key improvements would you like to see in biodiversity data dissemination?

- Needs to be trustworthy
- Open source
- Regularly updated
- Link with environmental & social safeguards
- Accessibility for consultancy work
- Measurement of change
- Consistency & transparency
- Classification & analysis of impact
- Bigger number of datasets available in one tool
- Minimising the misinterpretation of data
- More affordable & easily available for commercial users











**KNOW YOUR** 

**ENVIRONMENT** 

## E IBAT 201

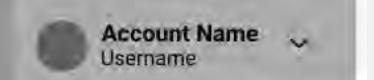
### Key features:

- One-stop-shop for protected areas, Key Biodiversity Areas, & Red List of Species data
- The only place to access these data for commercial use
- Generate IFC PS6, GRI & custom reports
- Create portfolio of sites
- Download data direct from source









### Username, account name









My sites	Overlap with Protected Areas \$	IUCN Redlist \$	Overlap with Key Biodiversity Areas \$	
Lorem ipsum conteur	0%	CR 20	0%	View details >
Lorem ipsum conteur	0%	CR 20	0%	View details >
Lorem ipsum conteur	0%	CR 20	0%	View details >

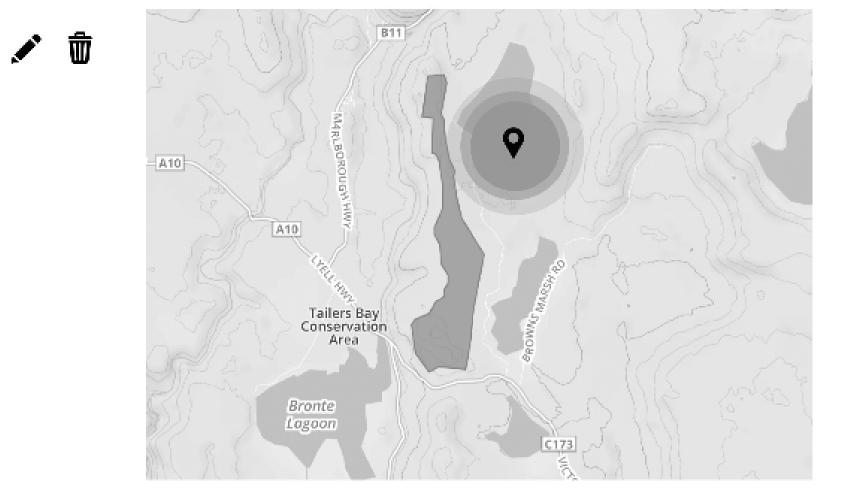




Status: Operation: Tags:

Create New Report

Create a Report to view full list



#### IUCN RED LIST (within 50km)

228 Species

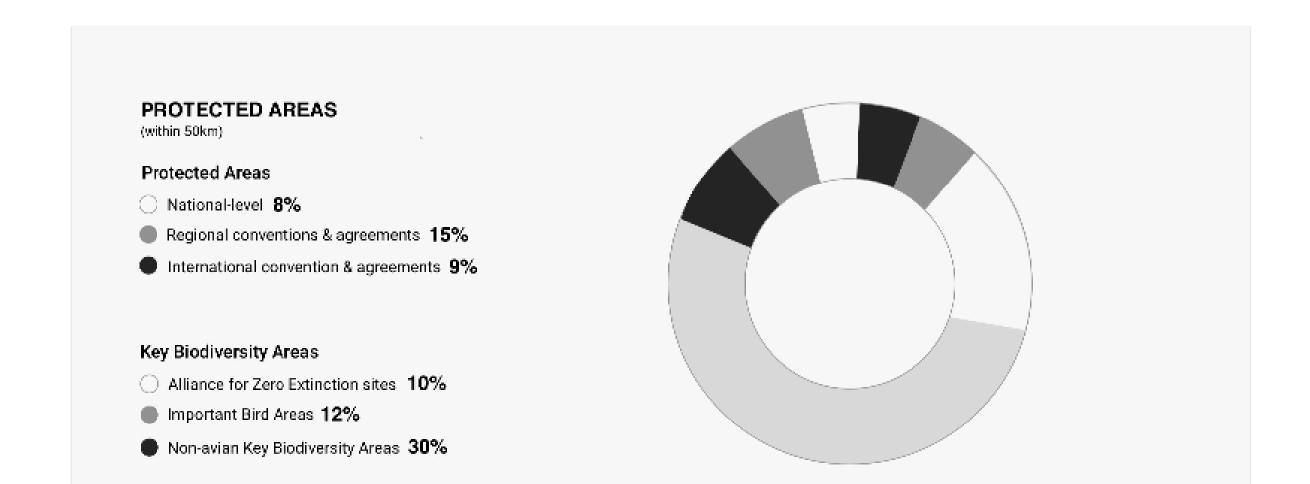
5 Critically Endangered

10 Endangered

25 Vunerable

145 Near Threatened

103 Data Deficient



#### Data Downloads

As an annual subscriber, you can download complete global spatial data sets in shape file format (for use with, for example, ESRI's suite of GIS applications):

Download All Data

#### Custom data download

Data downloads are included in some IBAT subscriptions but can also be paid for on a PAYG basis. If you are a PAYG user, please select your polygon and the area and cost will be automatically be calculated.

Select the Polygon tool to draw a shape file on the map.

Draw Polygon

Download

Cancel



#### **Global Spatial Data**

As an annual subscriber, you can download complete global spatial data sets in shape file format (for use with, for example, ESRI's suite of GIS applications):

#### World Database of Protected Areas

The World Database on Protected Areas (WDPA) is the most comprehensive global database on terrestrial and marine protected areas. It is a joint project between the United Nations Environment Programme (UNEP) and the International Union for Conservation of Nature (IUCN), managed by UNEP World Conservation Monitoring Centre (UNEP-WCMC). Data for the WDPA is collected from international convention secretariats, governments and collaborating NGOs. The WDPA uses the IUCN's definition of a protected area as the main criteria for entries to be included in the database.



#### World Database of Key Biodiversity Areas

The World Database of Key Biodiversity
Areas is managed by BirdLife International
on behalf of the KBA Partnership. It hosts
data on global and regional Key Biodiversity
Areas (KBAs), including Important Bird and
Biodiversity Areas identified by the BirdLife
International Partnership, Alliance for Zero
Extinction sites, KBAs identified through
hotspot ecosystem profiles supported by
the Critical Ecosystem Partnership Fund,
and a small number of other KBAs. The
database was developed from the World
Bird and Biodiversity Database (WBDB)
managed by BirdLife International.



#### IUCN Red List Spatial Data

The IUCN Red List of Threatened Species contains global assessments for just over 88,000 species, of which about two-thirds have spatial data. This spatial data provided in this download is for comprehensively assessed taxonomic groups. It is important to note that some species such as those listed as Data Deficient are not mapped and subspecies are mapped within the parental species. The data is available as ESRI shapefiles format and contains the known range of each species. Ranges are depicted as polygons, except for the freshwater HydroSHED tables.

**View Fact Sheet** 







### Pricing

#### FREE

### \$0

- Access to Country Profiles
- Visual Data Map displaying:
- Protected Areas
- Key Biodiversity Areas
- IUCN Red List Species
- Download reports using pay as you go
- Download data using pay as you go
- Save sites

Create Account

#### BASIC

\$5,000

- · Everything in Free plan:
- Access to Site Catalogue
- Upload & save points to Visual Data Map
- \*Unlimited proximity reports

\*Limited time offer

**Create Account** 

#### PRO

\$15,000

- · Everything in Basic plan:
- Limited Protected Areas
   & Key Biodiversity Areas
   data downloads
- \*Unlimited PS6 & Critical Habitat reports
- \*Unlimited Freshwater Connectivity reports

\*Limited time offer

Create Account

#### **ENTERPRISE**

### Contact Us

- Everything in Pro plan:
- Unlimited Protected Areas
   & Key Biodiversity Areas
   data downloads
- Unlimited IUCN Red List Species data downloads

Contact





### How consultants can access IBAT?

#### FREE

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#### **ENTERPRISE**

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   data downloads
- Unlimited IUCN Red List Species data downloads

Contact





### Why a cost for some of the IBAT services?

Estimated annual cost of maintaining & updating global datasets is \$6.5 to \$14m



RESEARCH ARTICLE

#### Assessing the Cost of Global Biodiversity and Conservation Knowledge

Diego Juffe-Bignoli<sup>1</sup>\*, Thomas M. Brooks<sup>2,3,4</sup>, Stuart H. M. Butchart<sup>5,6</sup>, Richard B. Jenkins7, Kaia Boe8, Michael Hoffmann1,2, Ariadne Angulo9, Steve Bachman10, Monika Böhm11, Neil Brummitt12, Kent E. Carpenter13, Pat J. Comer27, Neil Cox14, Annabelle Cuttelod7, William R. T. Darwall7, Moreno Di Marco15,16, Lincoln D. C. Fishpool5, Bárbara Goettsch<sup>7</sup>, Melanie Heath<sup>5</sup>, Craig Hilton-Taylor<sup>7</sup>, Jon Hutton<sup>1,17</sup>, Tim Johnson<sup>1</sup>, Ackbar Joolia7, David A. Keith 18.29, Penny F. Langhammer 19, Jennifer Luedtke9, Eimear Nic Lughadha 10, Maiko Lutz 10, Ian May 5, Rebecca M. Miller 8.20, María A. Oliveira-Miranda<sup>21</sup>, Mike Parr<sup>28</sup>, Caroline M. Pollock<sup>7</sup>, Gina Ralph<sup>13</sup>, Jon Paul Rodríguez<sup>2,21,22</sup>, Carlo Rondinini<sup>23</sup>, Jane Smart<sup>2,24</sup>, Simon Stuart<sup>1,2</sup>, Andy Symes<sup>5</sup>, Andrew W. Tordoff<sup>25</sup>, Stephen Woodley26, Bruce Young27, Naomi Kingston



\* diego.juffe-bignoli@unep-wcmc.org

#### Abstract





Citation: Juffe-Bignoli D, Brooks TM, Butchart SHM, Jenkins RB, Boe K, Hoffmann M, et al. (2016) Assessing the Cost of Global Biodiversity and Conservation Knowledge, PLoS ONE 11(8): e0160640. doi:10.1371/journal.pone.0160640

Editor: RunGuo Zang, Chinese Academy of Forestry,

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Data Availability Statement: All relevant data are within the paper and its Supporting Information files.

Funding: This work was supported by the MAVA. foundation: http://en.maya-foundation.org/ (TMB). Integrated Biodiversity Assessment Tool (IBAT): https://www.ibatforbusiness.org/ (DJ), National Science Foundation's Dimensions of Biodiversity program: http://www.nsf.gov/r.award 1136586 (BY), the Rufford Foundation: http://www.rufford.org/ (MB)





## FILESAT 2007

### Our users

- "A must for any project on biodiversity conservation" Mott MacDonald
- "IBAT gives us access to experts on data and biodiversity that we can't get anywhere else" Conrad Savy, IFC
- "making a real contribution to the management of biodiversity issues within our oil and gas operations worldwide." Paola Maria Pedroni, eni
- "..invaluable to us and our projects for optimal biodiversity management." Steven Dickinson, Total





## QUESTIONS?





### ibat-alliance.org



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## Thank you!

### Other biodiversity resources from IAIA

#### www.iaia.org/publications.php

- Key Citations on Biodiversity 6 separate topic areas
- FasTips:

No. 5: Biodiversity Assessment

No. 13: Ecosystem Services in SEA for Spatial Planning

- Best Practice Principles Series:

Biodiversity in Impact Assessment

Publishing EIA-Related Primary Biodiversity Data: GBIF Best Practice Guide

#### conferences.iaia.org/wdc2017/presentations.php

 Presentations from IAIA's 2017 biodiversity symposium on "Mainstreaming the Mitigation Hierarchy in Impact Assessment"



