









What is the Integrated Biodiversity Assessment Tool?

- A web-based map and reporting tool that provides fast, easy and integrated access to critical biodiversity information
- An alliance between:









- The source of the most globally authoritative biodiversity data:
 - The World Database on Protected Areas
 - The World Database of Key Biodiversity Areas
 - The IUCN Red List of Threatened Species
- An increasingly important interface between the private sector and biodiversity conservation



Bringing data to life





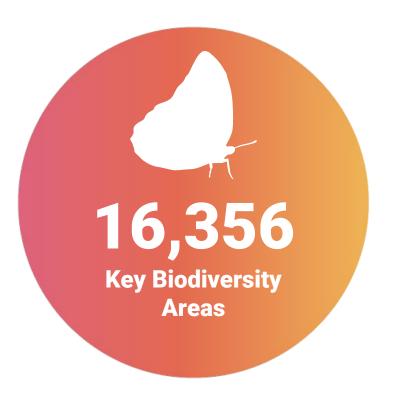
The World Database on Protected Areas

Updated monthly



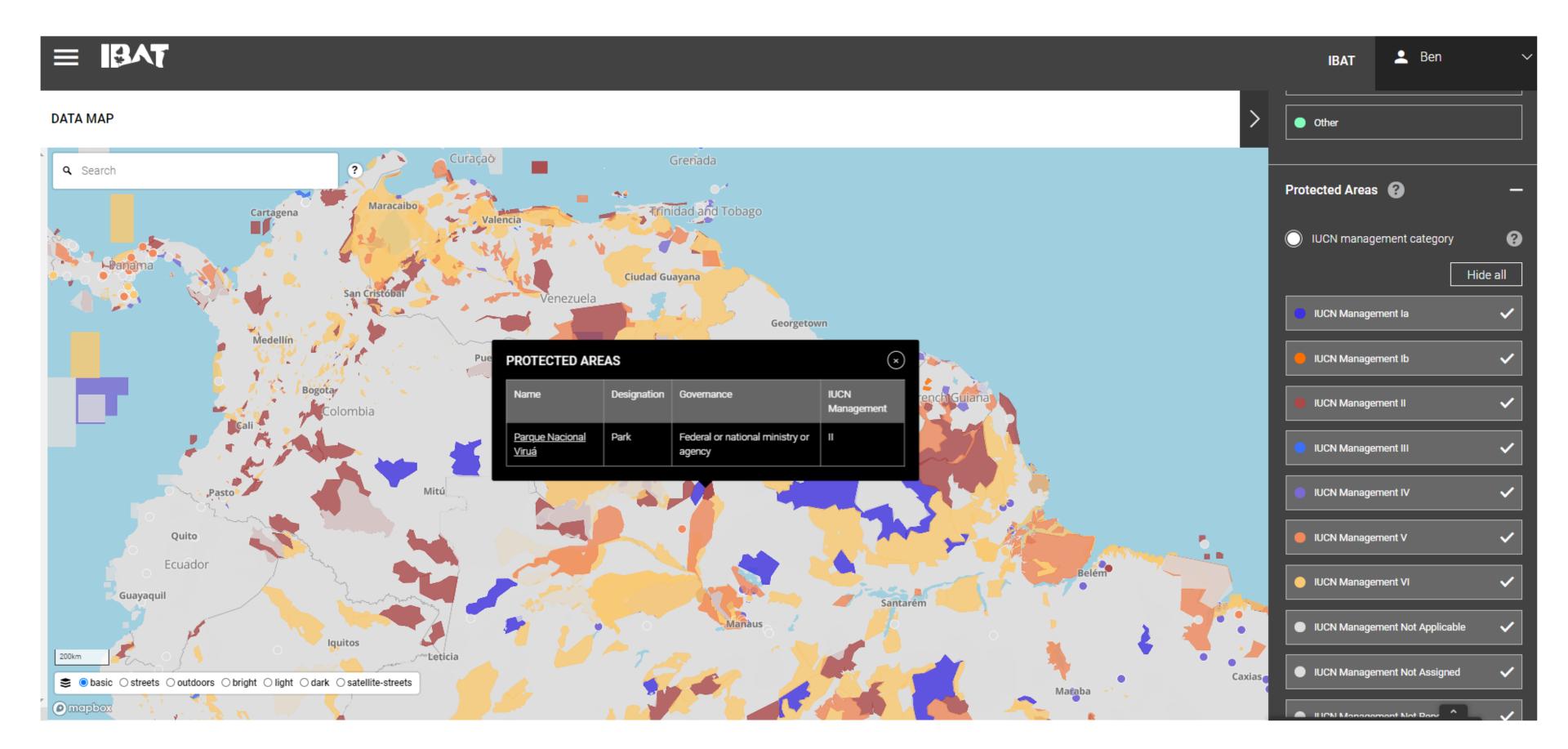
The IUCN Red List of Threatened Species

Updated ~3 times a year



The World Database of Key Biodiversity Areas

Updated ~3 times a year



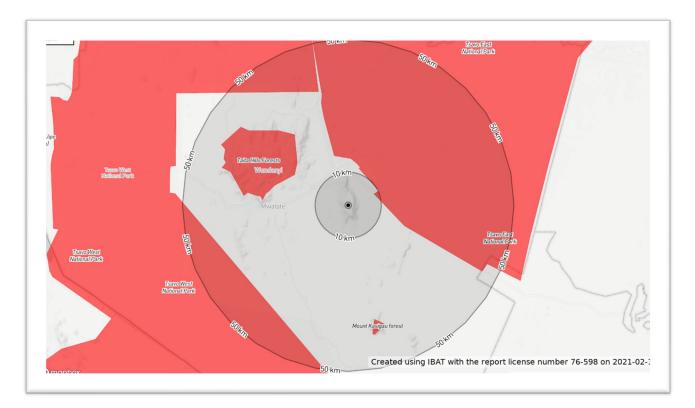
World Database on Protected Areas, WDPA

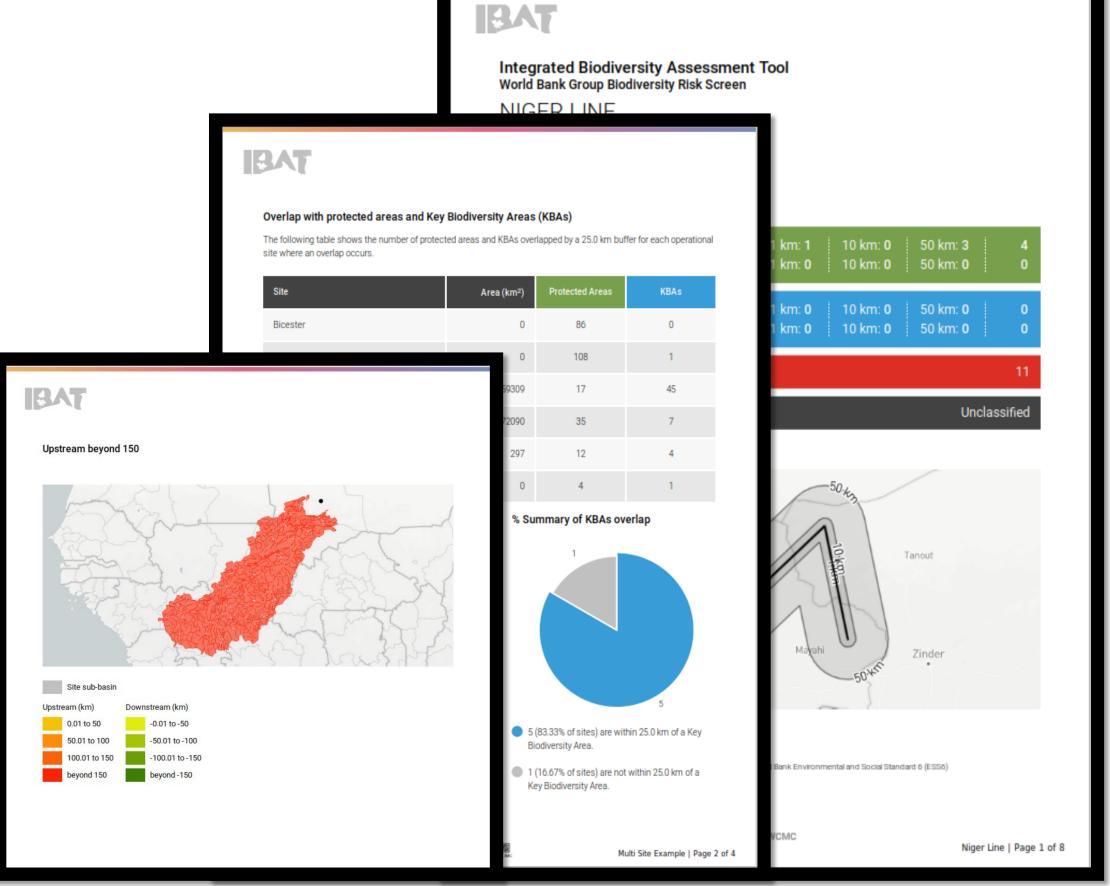
IBAT Risk Screening Reports

BAT

- Proximity analyses
- Critical Habitat identification
- Freshwater reporting
- Multi-site comparisons







IBAT Performance Standard 6 Report

IBAT PS6 / ESS6 Report focusses on Critical Habitat

Report highlights presence of:

- CR/EN species
- Restricted range and congregatory (migratory) species
- Sensitive protected areas UNESCO World Heritage, IUCN Management Categories Ia, Ib and II.
- Sensitive KBAs Alliance for Zero Extinction sites





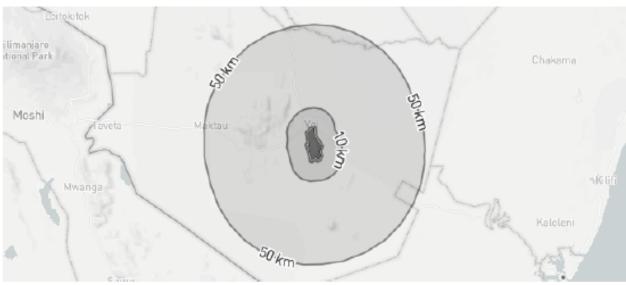
Integrated Biodiversity Assessment Tool World Bank Group Biodiversity Risk Screen

SAGALA HILLS

- · Country: Kenya
- Location: [-3.5, 38.6]
- · IUCN Red List Biomes: Freshwater, Terrestrial
- · Created by: Ben Jobson

Overlaps with:

Protected Areas	1 km: 0 10 km: 1 50 km: 7 8
World Heritage (WH)	1 km: 0 10 km: 0 50 km: 0 0
Key Biodiversity Areas	1 km: 0 10 km: 1 50 km: 3 4
Alliance for Zero Extinction (AZE)	1 km: 0 10 km: 0 50 km: 1 1
IUCN Red List	4
Critical Habitat	Likel



Displaying project location and buffers: 1 km, 10 km, 50 km



This report is based on IFC Performance Standard 6 (PS6) but applies to World Bank Environmental and Social Standard 6 (ESS6)











IBAT Multi-site Report

- IBAT Multi-site reports designed to help companies reporting for GRI/ SASB, and certification schemes
- Now including Total and Mean STAR Values per project

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Bicester	GBR	Syresham Syresham Marshy Meadows	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140363	Site Of S	National	Not Appl	i Designate	1985 Fe	deral or r	nationalı	ministry or agend
Bicester	GBR	Cassingto Cassington Meadows	terrestrial	Site Of Special Scientific Interest (Uk)	IV	141031	Site Of S	National	Not Appl	i Designate	1993 Fe	deral or r	national	ministry or agend
Bicester	GBR	Magdalen Magdalen Grove	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140859	Site Of S	National	Not Appl	i Designate	1991 Fe	deral or r	nationalı	ministry or agend
Bicester	GBR	Helmdon Disused Railway	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140882	Site Of S	National	Not Appl	i Designate	1990 Fe	deral or r	nationalı	ministry or agend
Bicester	GBR	Salt Way, Ditchley	terrestrial	Site Of Special Scientific Interest (Uk)	IV	137076	Site Of S	National	Not Appl	i Designate	1988 Fe	deral or r	national i	ministry or agend
Bicester	GBR	Wytham V Wytham Woods	terrestrial	Site Of Special Scientific Interest (Uk)	IV	137175	Site Of S	National	Not Appl	i Designate	1986 Fe	deral or r	nationalı	ministry or agend
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0 Bicester	GBR	Sidling'S C Sidling'S Copse And College Pond	terrestrial	Site Of Special Scientific Interest (Uk)	IV	136498	Site Of S	National	Not Appl	i Designate	1986 Fe	deral or r	national	ministry or ageno
1 Bicester	GBR	Ardley Tra Ardley Trackways	terrestrial	Site Of Special Scientific Interest (Uk)	IV	5.56E+08	Site Of S	National	Not Appl	Designate	2010 Fe	deral or r	national	ministry or ageno
2 Bicester	GBR	Lobbingto Lobbington Hall Farm Meadow	terrestrial	Site Of Special Scientific Interest (Uk)	IV	169954	Site Of S	National	Not Appl	i Designate	1998 Fe	deral or r	national	ministry or ageno
3 Bicester	GBR	Ducklington Mead	terrestrial	Site Of Special Scientific Interest (Uk)	IV	137561	Site Of S	National	Not Appl	i Designate	1986 Fe	deral or r	national	ministry or agend
4 Bicester	GBR	Magdalen Magdalen Quarry	terrestrial	Local Nature Reserve	IV	93132	Local Nat	u National	Not Appl	i Designate	1988 Fe	deral or r	national	ministry or agend
5 Bicester	GBR	Crecy Hill Crecy Hill (Managed By Tackley Pari	s terrestrial	Local Nature Reserve	IV	193948	Local Nat	u National	Not Appl	Designate	1997 Fe	deral or r	national	ministry or ageno
6 Bicester	GBR	Wytham [Wytham Ditches And Flushes	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140233	Site Of S	National	Not Appl	Designate	1986 Fe	deral or r	national	ministry or ageno
7 Bicester	GBR	Buckingha Buckingham Sand Pit	terrestrial	Local Nature Reserve	IV	194391	Local Nat	u National	Not Appl	i Designate	2001 Fe	deral or r	national	ministry or agenc
8 Bicester	GBR	Muswell Hill	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140941	Site Of S	National	Not Appl	Designate	1992 Fe	deral or r	national	ministry or ageno
9 Bicester	GBR	Upper Che Upper Cherwell At Trafford House	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140825	Site Of S	National	Not Appl	i Designate	1992 Fe	deral or r	national	ministry or agenc
Bicester	GBR	Stonesfiel Stonesfield Slate Mines	terrestrial	Site Of Special Scientific Interest (Uk)	IV	136522	Site Of S	National	Not Appl	Designate	1986 Fe	deral or r	national	ministry or agenc
1 Bicester	GBR	Long Hant Long Hanborough Gravel Pit	terrestrial	Site Of Special Scientific Interest (Uk)	IV	138294	Site Of S	National	Not Appl	Designate	1986 Fe	deral or r	national	ministry or agenc
2 Bicester	GBR	Middle Ba Middle Barton Fen	terrestrial	Site Of Special Scientific Interest (Uk)	IV	140730	Site Of S	National	Not Appl	Designate	1990 Fe	deral or r	national	ministry or ageno
3 Bicester	GBR	Otmoor Otmoor	terrestrial	Nature Reserve	IV	5.56E+08	Nature R	e National	Not Appl	Designate	1997 Joi	int govern	nance	· -
4 Bicester	GBR	Horsehay Horsehay Quarries	terrestrial	Site Of Special Scientific Interest (Uk)	IV	138138	Site Of S	National	Not Appl	Designate	1987 Fe	deral or r	national	ministry or ageno
Bicester	GBR	New Mars New Marston Meadows		Site Of Special Scientific Interest (Uk)	IV	141017	Site Of S	National	Not Appl	Designate	1993 Fe	deral or r	national	ministry or ageno
Bicester	GBR	Wendlebu Wendlebury Meads And Mansmoor	terrestrial	Site Of Special Scientific Interest (Uk)	IV	137061	Site Of S	National	Not Appl	i Designate	1987 Fe	deral or r	national	ministry or ageno
7 Bicester	GBR	Woodeatc Woodeaton Quarry	terrestrial	Site Of Special Scientific Interest (Uk)	IV	137119	Site Of S	National	Not Appl	i Designate				ministry or ageno
Bicester	GBR	Kirtlington Kirtlington Quarry	terrestrial	Site Of Special Scientific Interest (Uk)	IV	138184	Site Of S	National	Not Appl	i Designate	1986 Fe	deral or r	national	ministry or ageno
Bicester	GBR	Holly Cour Holly Court Bank	terrestrial	Site Of Special Scientific Interest (Uk)	IV	139976	Site Of S	National	Not Appl	i Designate				ministry or ageno
Bicester	GBR	Farnborou Farnborough Hall		Nature Reserve	V					i Designate		n-profit		
Bicester	GBR	Stanton G Stanton Great Wood	terrestrial	Site Of Special Scientific Interest (Uk)	IV					i Designate		•		ministry or ageno
	GBR	Tingewick Tingewick Meadows		Site Of Special Scientific Interest (Uk)	IV					i Designate				ministry or ageno
	GBR	Boarstall [Boarstall Duck Decoy		Nature Reserve	V					i Designate		n-profit		
	GBR	Sarsgrove Sarsgrove Wood	terrestrial	Site Of Special Scientific Interest (Uk)	IV					Designate		•		ministry or ageno
	GBR	Ardley Cu Ardley Cutting And Quarry		Site Of Special Scientific Interest (Uk)	IV					i Designate				ministry or ageno
	GBR	Shabbingt Shabbington Woods Complex		Site Of Special Scientific Interest (Uk)	IV					i Designate				ministry or agenc
7 Bicester	GBR	Adderbur Adderbury Lakes		Local Nature Reserve	IV					i Designate				ministry or agenc
	GBR	Sturt Cops Sturt Copse	_	Site Of Special Scientific Interest (Uk)	IV					i Designate				ministry or agenc
	GBR	Stonesfiel Stonesfield Common, Bottoms & Ba			IV					i Designate				ministry or agenc
	GBR	Pixey And Pixey And Yarnton Meads		Site Of Special Scientific Interest (Uk)	IV					i Designate				ministry or agenc



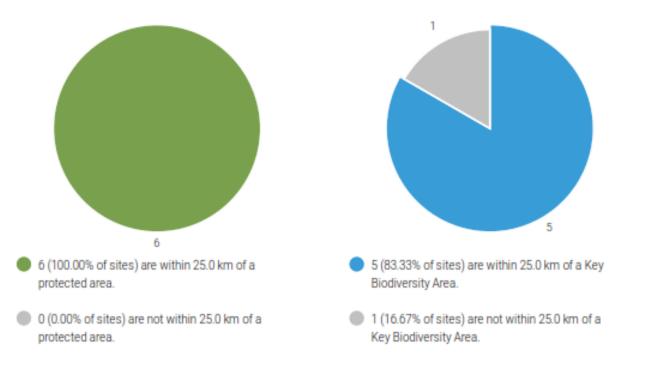
Overlap with protected areas and Key Biodiversity Areas (KBAs)

The following table shows the number of protected areas and KBAs overlapped by a 25.0 km buffer for each operational site where an overlap occurs.

Site	Area (km²)	Protected Areas	KBAs
Bicester	0	86	0
Cambridge	0	108	1
Madagascar	159309	17	45
Mozambique	72090	35	7
San Cristobal	297	12	4
South Luangwa	0	4	1

% Summary of protected areas overlap

% Summary of KBAs overlap













Multi Site Example | Page 2 of 4





Responsible Gold Mining Principles

Biodiversity 9.1 We will implement biodiversity management plans. At a minimum, we will seek to ensure that there is no net loss of critical habitat. Where opportunities arise to do so, we will work with others to produce a net gain for biodiversity. We will incorporate both scientific and traditional knowledge in designing adaptation strategies in ecosystem management and environmental assessment.

World Heritage Sites 9.2: We will not explore or seek to develop new mining operations in an area designated as a **World Heritage Site**.





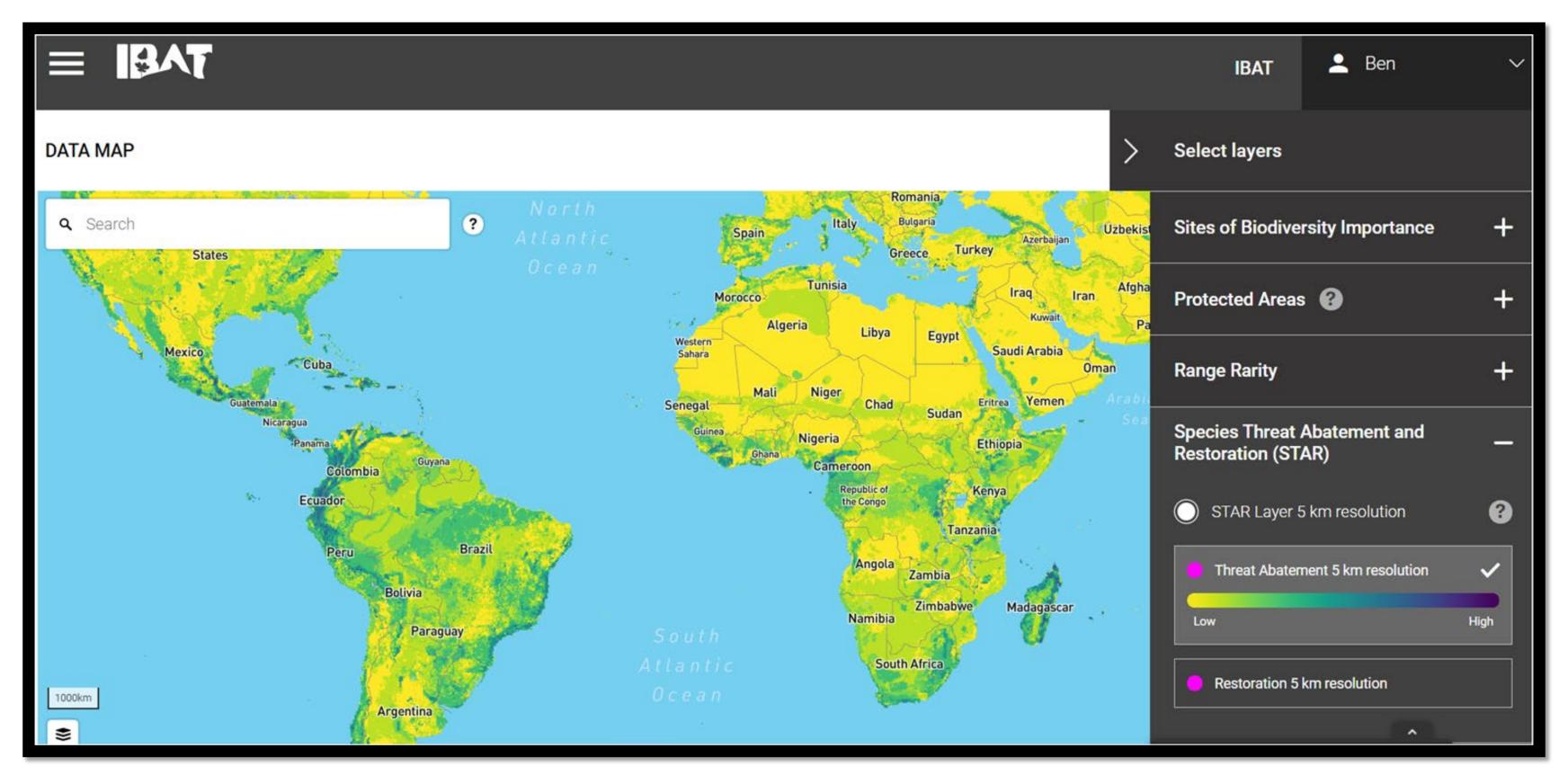


Through IBAT, ICMM Members can access the World Database on Protected Areas, which currently contains 271,131 protected areas including 250 World Heritage Sites (WHS), 2,352 Ramsar Wetlands of International Importance, and 544 UNESCO Man and the Biosphere Reserves (MAB).

7.1 - Avoid World Heritage Sites and Respect Legally Designated Protected Areas

7.2 – Apply Mitigation Hierarchy with Ambition of No-Net-Loss





Species Threat Abatement and Restoration (STAR Metric)

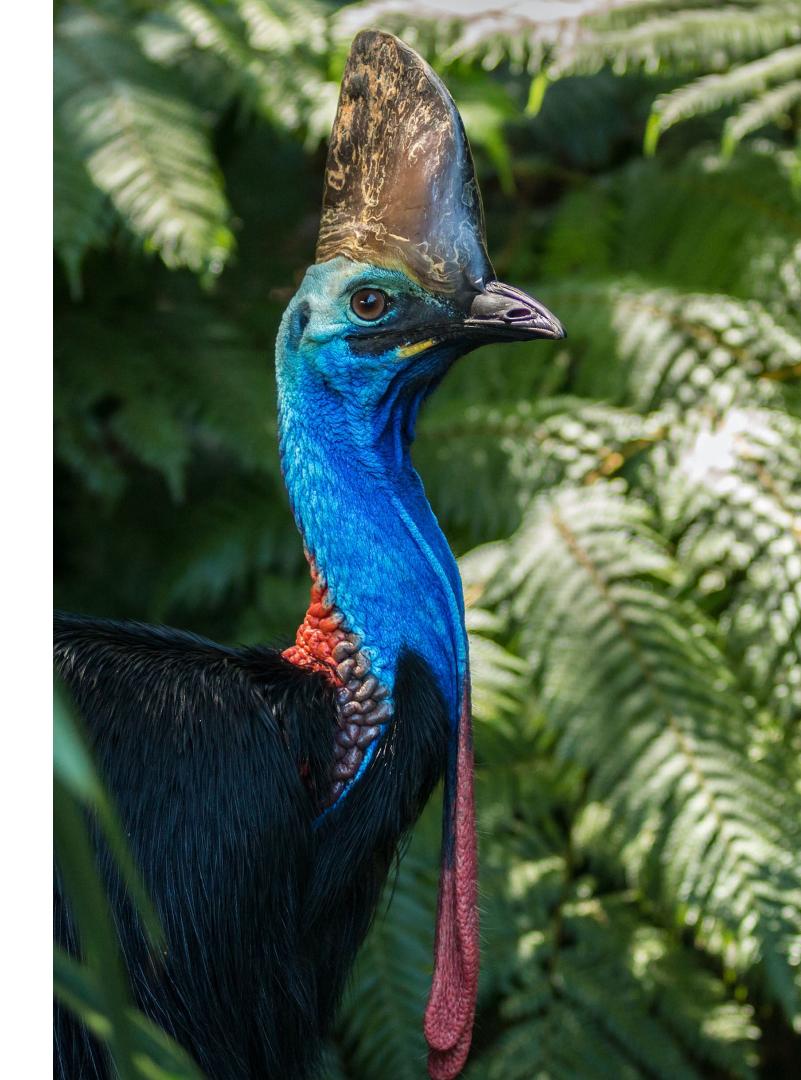
What is STAR?

STAR is a **biodiversity metric** based on The IUCN Red List of Threatened Species.

Identifies the potential to reduce species extinction risk

The STAR methodology has been applied to produce two complementary global data layers:

- **1.Threat abatement (STAR** $_{\mathsf{T}}$) actions to address threats.
- **2.Restoration (STAR_R)** actions to restore species habitat.
- STAR is completely scaleable.
- It enables quantitative comparison between sites.
- The STAR global layers are currently based on threatened and near-threatened terrestrial mammals, birds and amphibians.

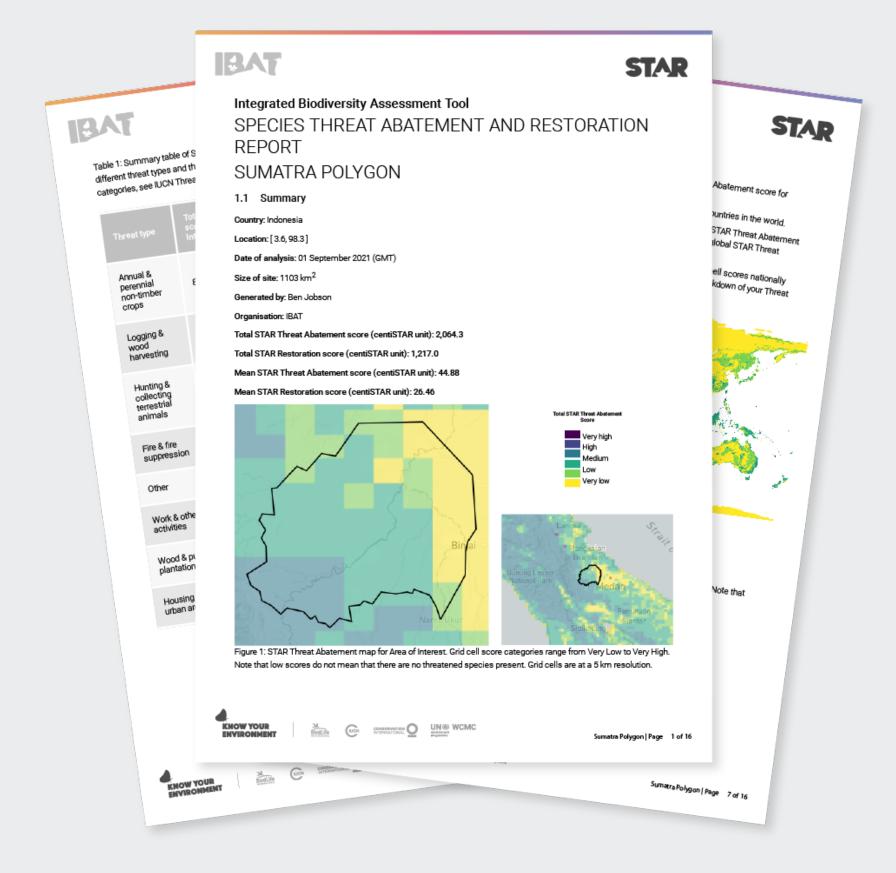


STAR Report

Define your Area of Interest (project site)

IBAT generates bespoke STAR report for your chosen location

Report provides a detailed breakdown of the STAR values, threats and their relative significance at national and global scales







How mining companies use IBAT to avoid environmental impacts



- 1. Access up-to-date, standardised and authoritative biodiversity data
- 2. Generate an understanding of your exposure to biodiversity risk and opportunities for nature positive biodiversity contributions aligned with corporate or global targets.
- 3. Download project-level/global geospatial data for internal GIS platforms or query via APIs
- 4. To prospect new sites or merger & acquisition risk
- 5. Corporate biodiversity assessment and disclosure

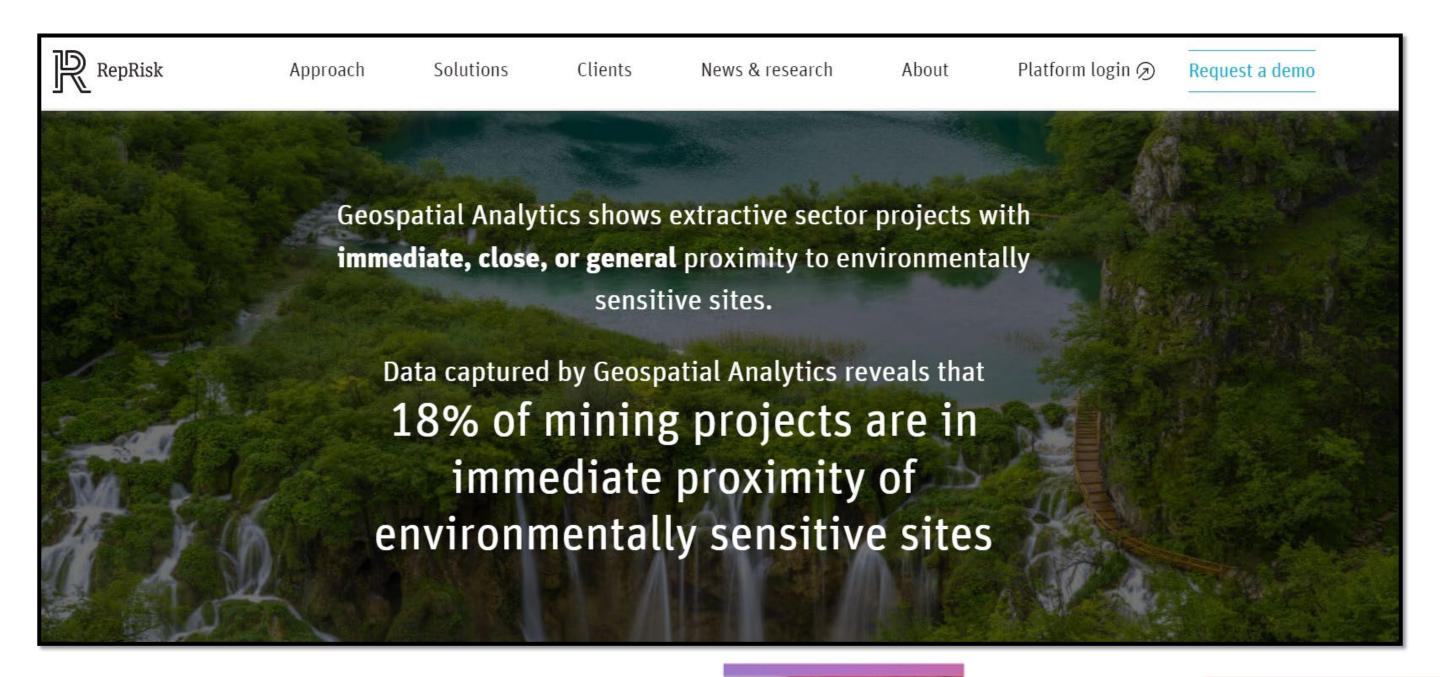
- 6. Inform application of the mitigation hierarchy
- 7. Inform corporate biodiversity strategies and targets in line with best practice of the world's leading mining organisations (in terms of size and ESG credentials).
- 8. To support reassessment of sites for expansion applications

In a dynamic world with rapidly changing ecosystems and protected area networks, IBAT can offer consistency to help organizations manage risk



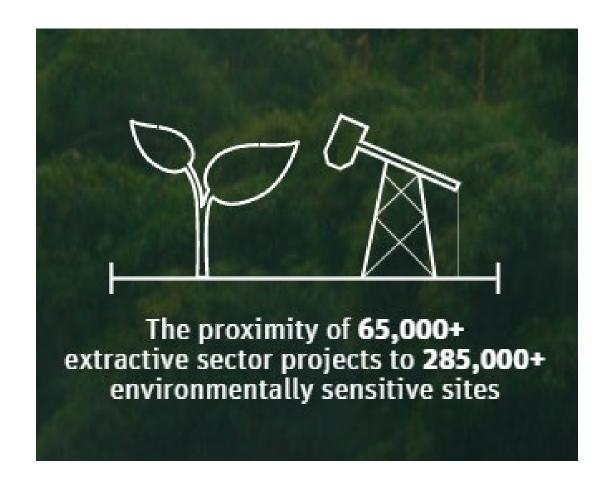
IBAT and RepRisk Collaborate





Insights through RepRisk









https://www.reprisk.com/campaigns/geospatial



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