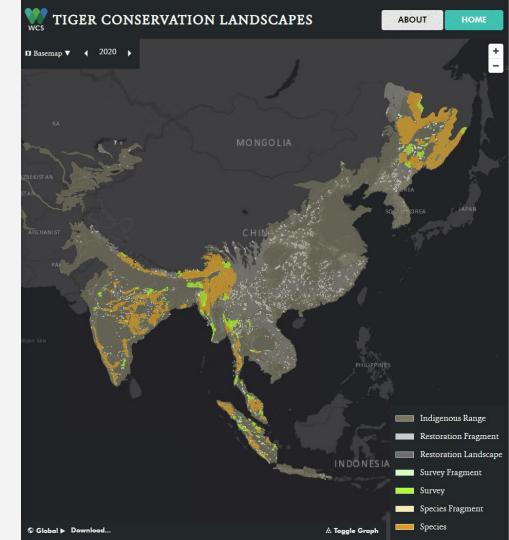


Tiger Conservation Landscapes

- Uses a hierarchical framework to delineate landscapes for tiger conservation
- Inputs include land cover, Human Impact Index, and landscape fragmentation patterns, plus species observations
- Produces a map of 'landscapes', classified as restoration and conservation





Act Green

Validating the Tiger Conservation Landscape Framework by extending the model to three species with different habitat requirements and geographies - American Bison (North America, grasslands, herbivore), Jaguar (Central-South America, largely forest, predator) and Lion (Africa, largely savanna, predator)



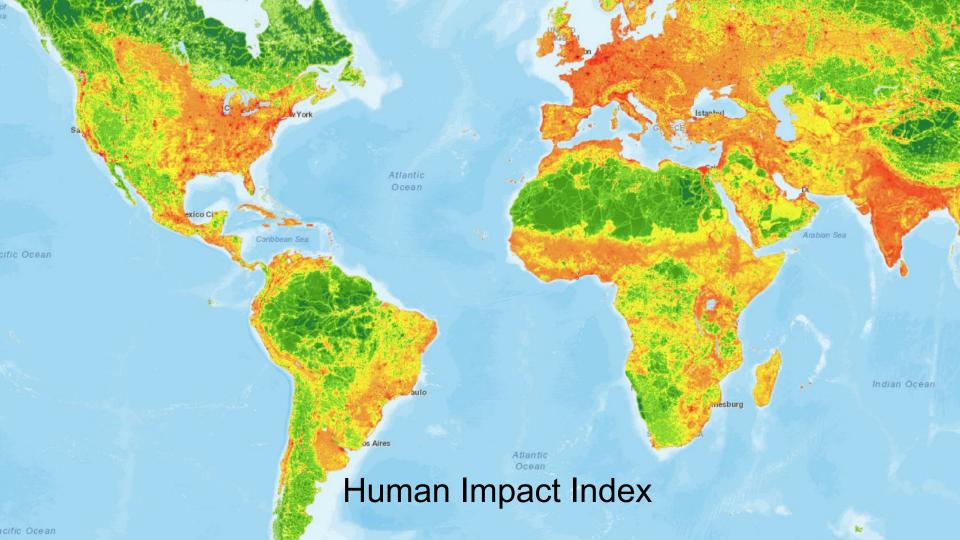


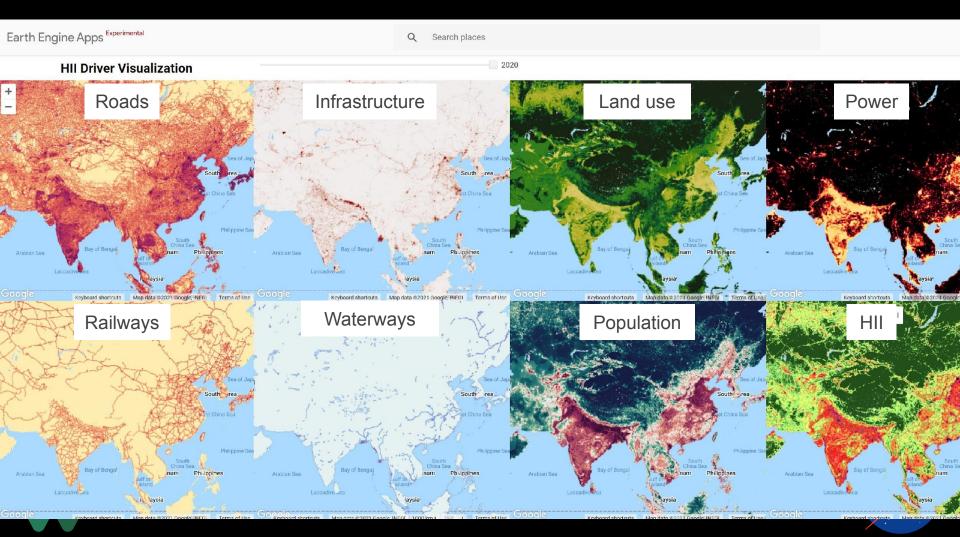
Act Green

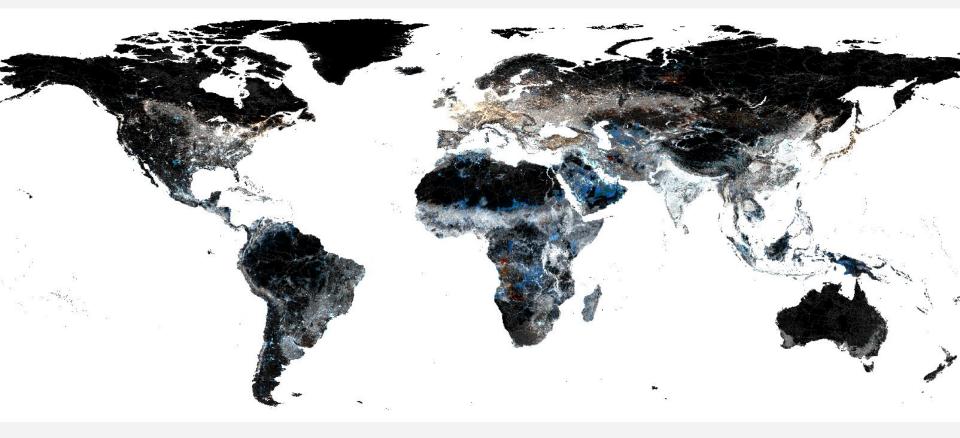
Validating the Tiger Conservation Landscape Framework by extending the model to three species with different habitat requirements and geographies - American Bison (North America, grasslands, herbivore), Jaguar (Central-South America, largely forest, predator) and Lion (Africa, largely savanna, predator)...but also more:

- Updating and forecasting the Human Impact Index to 2050
- Integrating remotely-sensed information on fences into American Bison landscape delineation
- Extending the modelling framework to produce future predictions of habitat availability for all three species
- Pushing the usage of these models in end-user decision-making processes













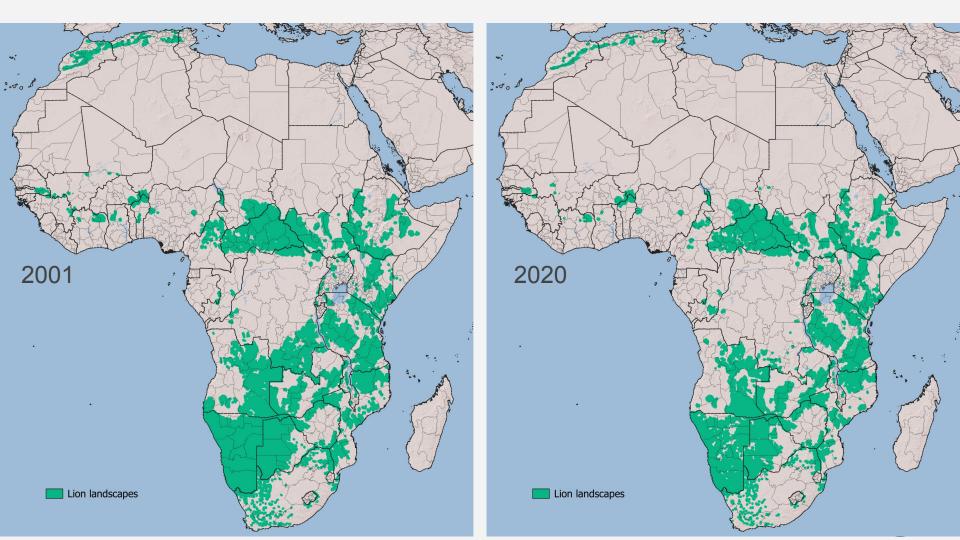
Model differences

- Bison only use grassland pixels to determine patch size, but allow forests to provide habitat and connectivity
 - Threshold ratio
- Jaguar create a minimum patch size to include areas below a certain density
- Lion treat protected areas separately

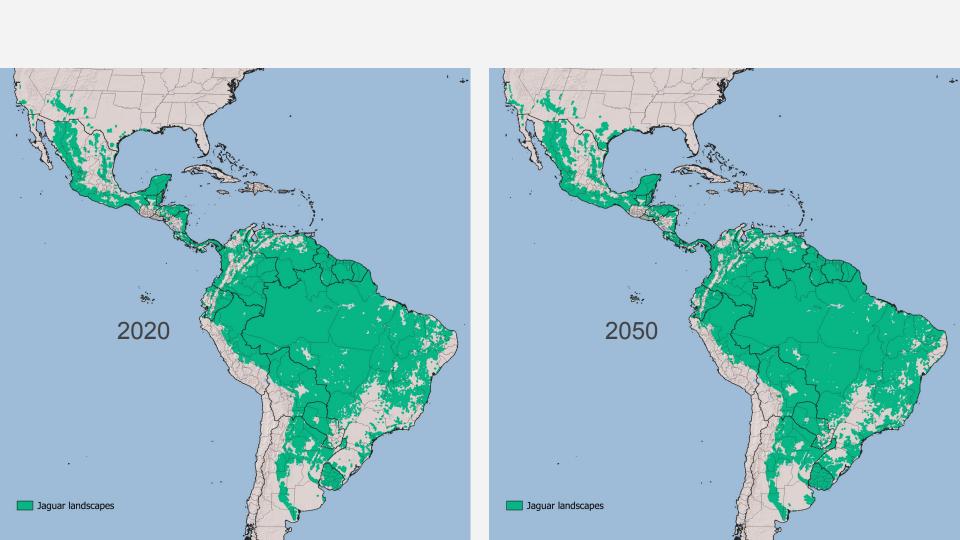












End-user engagement

Tigers:

Tiger Conservation Coalition is using these results to inform management and fundraising

TCL form part of the UNEP-WCMC Critical Habitat screening layer

TCL part of the SCeNe Coalition screening tool for carbon markets





End-user engagement

Bison:

Bison models to be utilized by IUCN Bison Specialist Group

Bison models presented to multiple potential users, including Parks Canada, American Prairie

Work to be presented at America's Grasslands meeting next month

Jaguar:

Currently engaged with IUCN Cat Specialist Group (also for lions)

Jaguar models presented to World Bank Global Wildlife Program forum

Lion:

Act Green models to be utilized by WCS country teams in quantifying changes in available habitat





This is a collaborative effort



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Formerly associated: Eric Sanderson, Kim Fisher, Nathaniel Robinson, Haqiq Rahmani, Elizabeth Bennett

