
This... is NOT Haiti


This is...
Grand Bois, Haiti

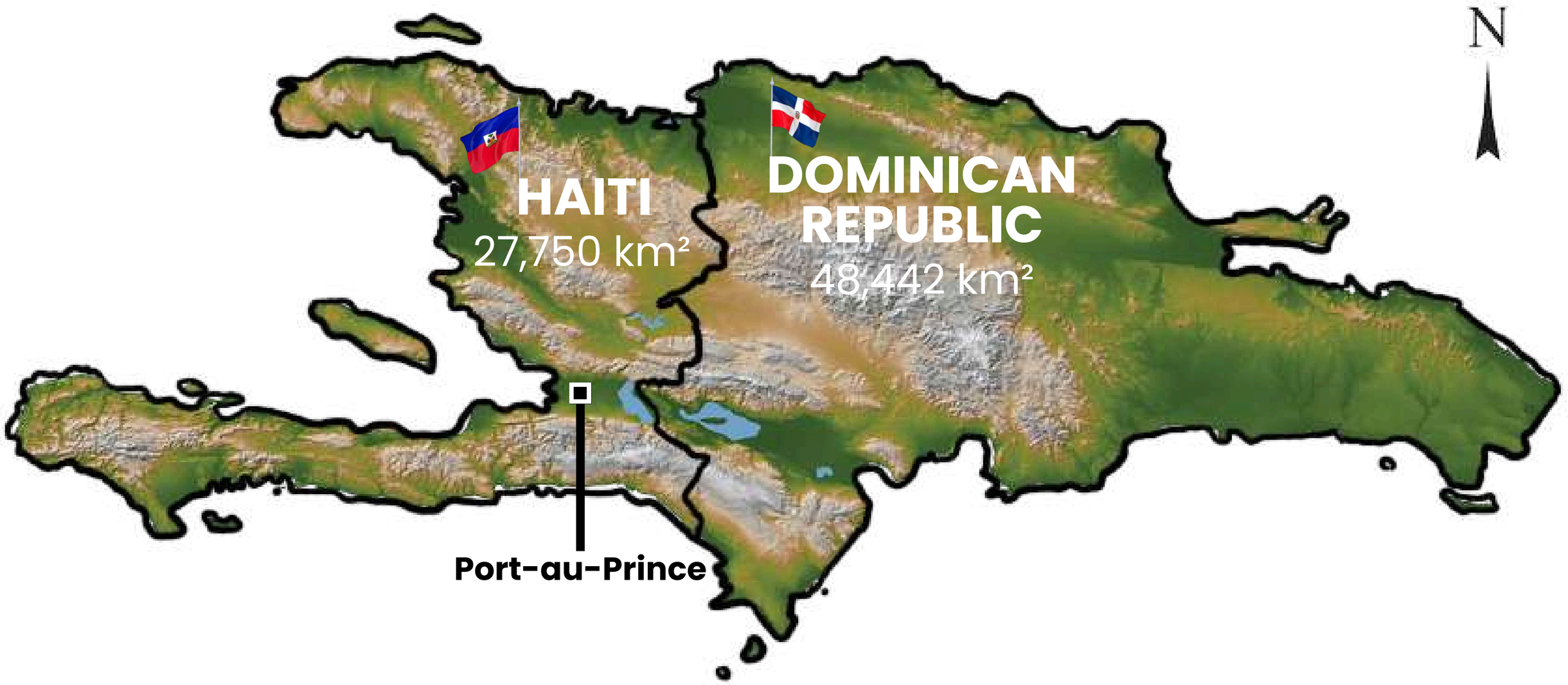
HAITI NATIONAL TRUST

ECOSYSTEM RESTORATION & INNOVATIVE STRATEGIES FOR PA MANAGEMENT

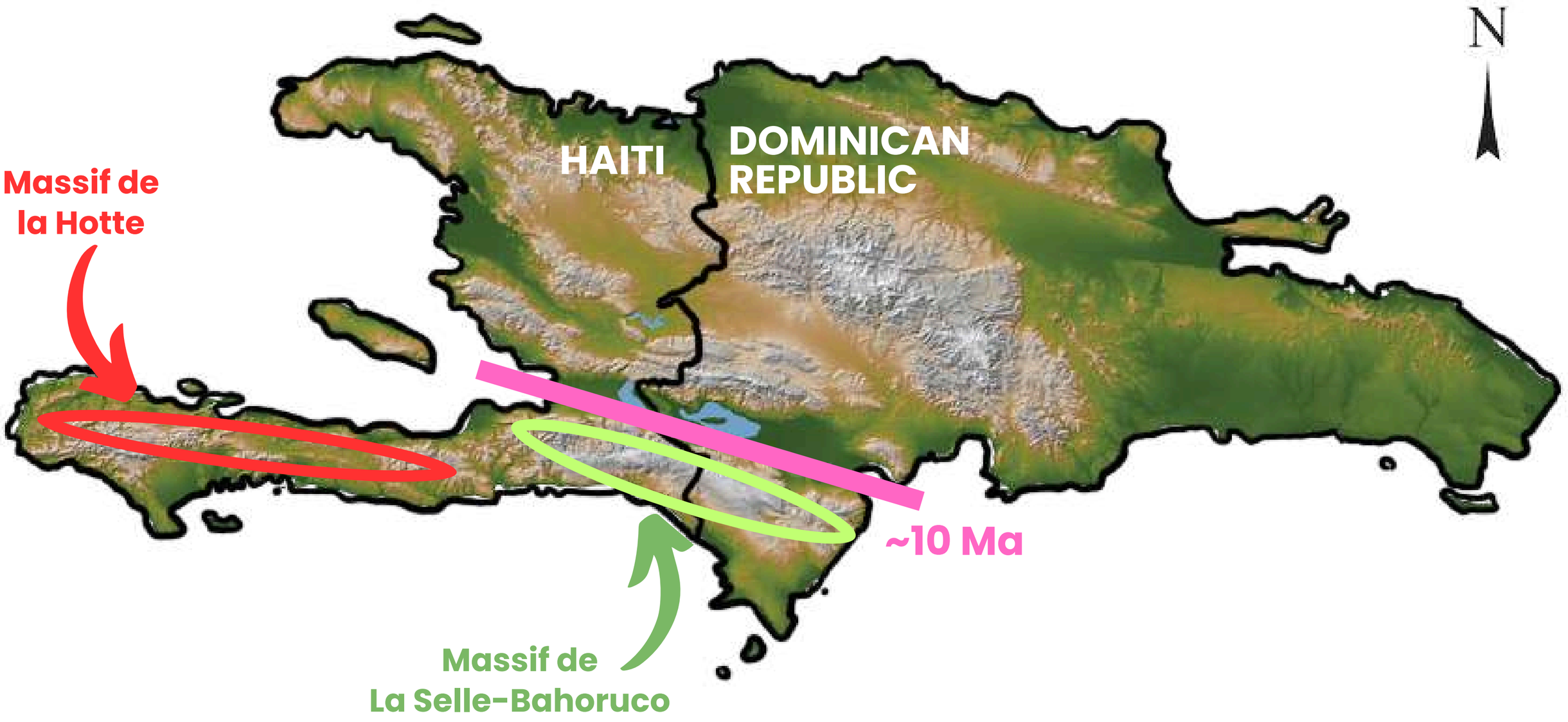
Grand Bois National Park Haiti

Caribaea Initiative 5th Conference
Martinique, June 2025

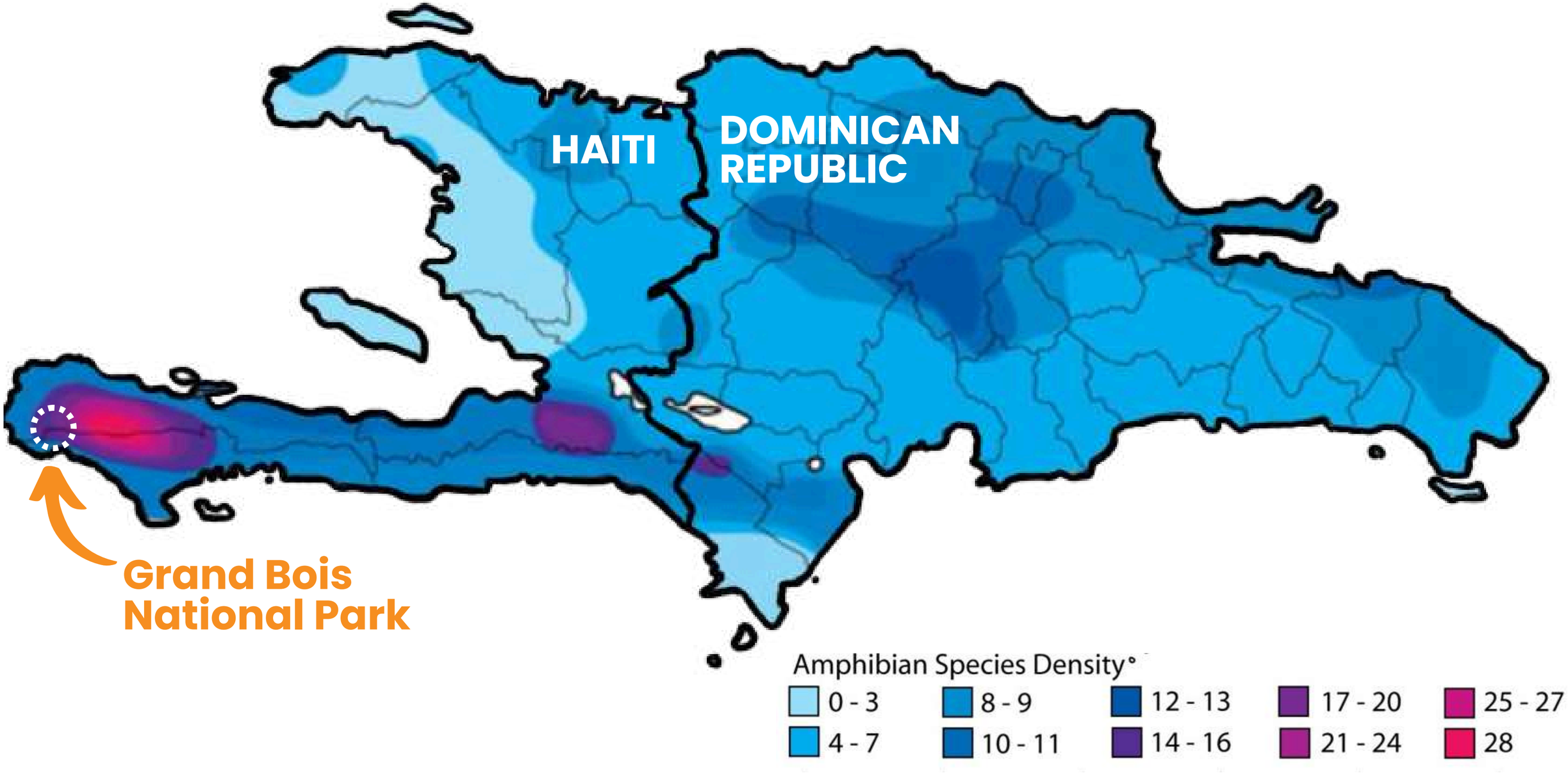
HISPANIOLA


N
HAITI
27,750 km²
DOMINICAN REPUBLIC
48,442 km²
Port-au-Prince

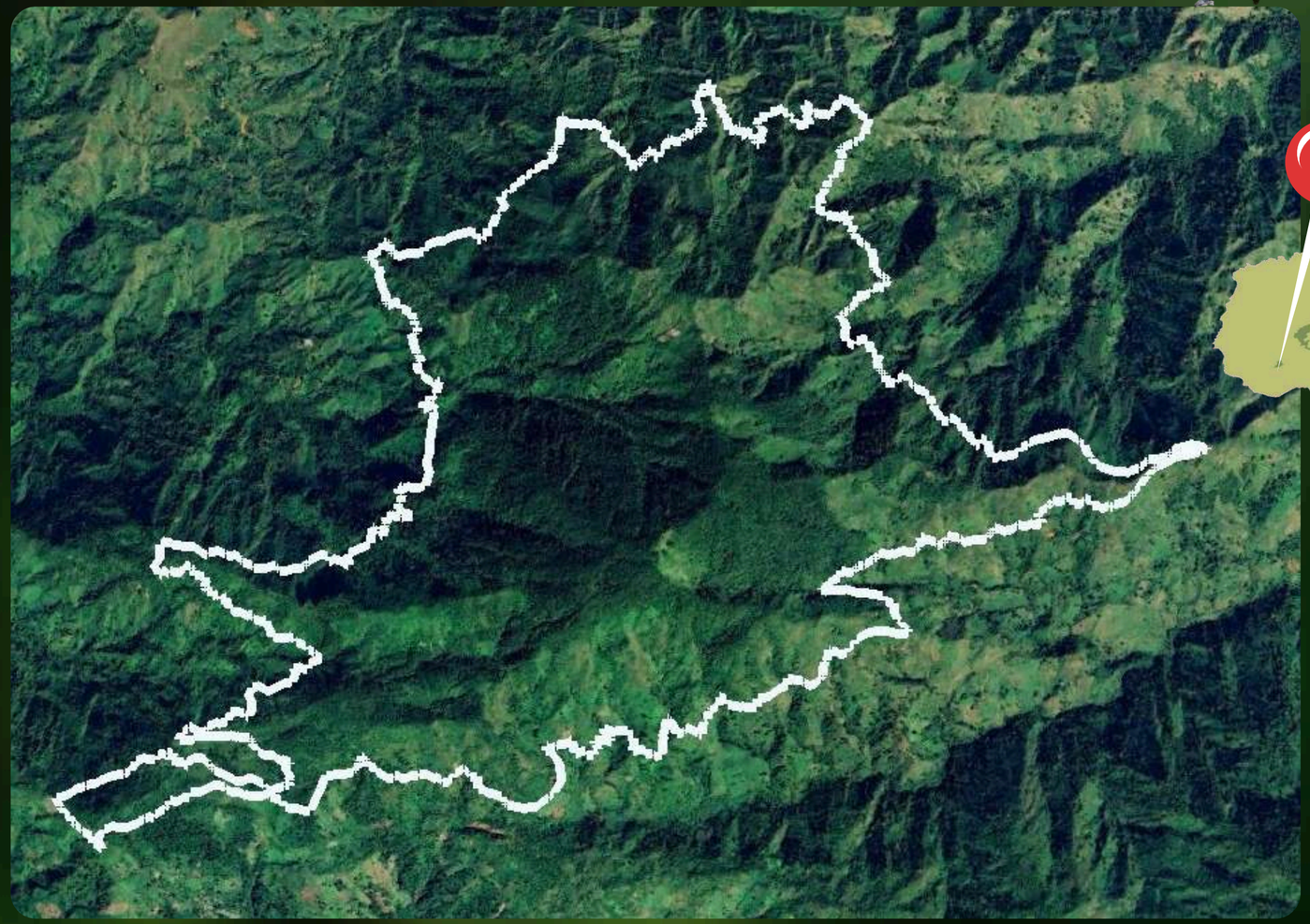
HISPANIOLA

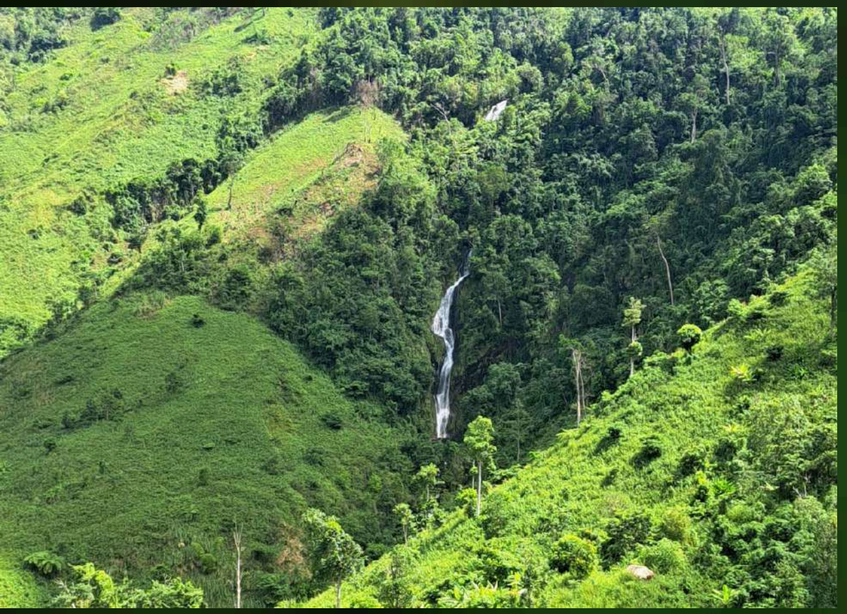

N
HAITI
DOMINICAN REPUBLIC
Massif de la Hotte
~10 Ma
Massif de La Selle-Bahoruco

AMPHIBIANS SPECIES DENSITY HEAT MAP



GRAND BOIS
NATIONAL PARK





Primary habitat

Rain forest

Subtropical Cloud Forest (higher altitudes)
Subtropical Rain Forest (lower elevations)

1,256m
Highest peak

77%
Forest cover
in 2000 (287 ha)

1,600 - 2,400mm
Annual rainfall

Soft & hard
limestones, serpentine
& laterite

IMPORTANT BIODIVERSIY HOTSPOT

	Total	CR	EN	VU	NT
Birds	48			4	1
Plants	562	3	14	8	2
Reptiles & Amphibians	39	14	4	7	2
Invertebrates	1			1	

Phoenicophilus poliocephalus (NT)
Chales Davies (ebird)

Magnolia ekmanii (CR)
Eladio Fernandez

Meriana parvifolia (CR)
Martin Reith

Anolis monticola (VU)
Jurgen Hoppe

Eleutherodactylus semipalmatus (CR)
Miguel Landestoy

Epilobocera haytensis (VU)
Joel C. Timyan

BIRDS

	Total	CR	EN	VU	NT
Birds	**48**			**4**	**1**
Plants	501	3	13	8	1
Reptiles	15		2	1	2
Amphibians	24	14	2	6	
Invertebrates	1			1	

All endemic to Hispaniola

Only bird spp. endemic to Haiti
Grey-crowned Palm Tanager
(Phaenicophilus poliocephalus)

HISPANIOLAN PARROT
Amazona ventralis
Jim McCormick (ebird)

WHITE-WINGED WARBLER
Xenoligea montana
Jim McCormick (ebird)

GREY-CROWNED PALM TANAGER
Phaenicophilus poliocephalus
Chales Davies (ebird)

HISPANIOLA TROGON
Temnotrogon roseigaster
Eladio Fernandez (HNT)

PLANTS

	Total	CR	EN	VU	NT
Birds	48			4	1
Plants	**562**	**3**	**14**	**8**	**2**
Reptiles	15		2	1	2
Amphibians	24	14	2	6	
Invertebrates	1			1	

18%
Endemic to
Hispaniola

4%
Endemic to
La Hotte

HAITI SOUTHERN MAGNOLIA
Magnolia ekmanii
Eladio Fernandez (HNT)

N/A
Miconia abscondita
Martin Reith

FLÈ MALERÈZ*
Meriana parvifolia
Martin Reith

BWA LÈT*
Sapium haitiense
Martin Reith (HNT)

REPTILES

	Total	CR	EN	VU	NT
Birds	48			4	1
Plants	501	3	13	8	1
Reptiles	**15**		**2**	**1**	**2**
Amphibians	24	14	2	6	
Invertebrates	1			1	

All endemic to Hispaniola

33%

Endemic to
La Hotte

HAITIAN BANDED RED-BELLIED ANOLE
Anolis rupinae
Rene Durocher

LA HOTTE LONG-SNOUTED ANOLE
Anolis dolichocephalus
Rene Durocher

LA HOTTE BUSH ANOLE
Anolis monticola
Robin Moore (HNT)

HAITIAN GIANT ANOLE
Anolis ricordii
Pedro Genaro Rodriguez

AMPHIBIANS

	Total	CR	EN	VU	NT
Birds	48			4	1
Plants	501	3	13	8	1
Reptiles	15		2	1	2
Amphibians	**24**	**14**	**2**	**6**	
Invertebrates	1			1	

All endemic to Hispaniola

60%

Endemic to
La Hotte

TIBURON STREAMFROG
Eleutherodactylus semipalmatus
Miguel Landestoy (HNT)

HISPANIOLAN SHARP-NOSED FROG
Eleutherodactylus oxyrhyncus
Rene Durocher

SPINY GIANT FROG
Eleutherodactylus nortoni
Robin Moore (HNT)

YELLOW CAVE FROG
Eleutherodactylus counouspeus
Blair Hedges (HNT)

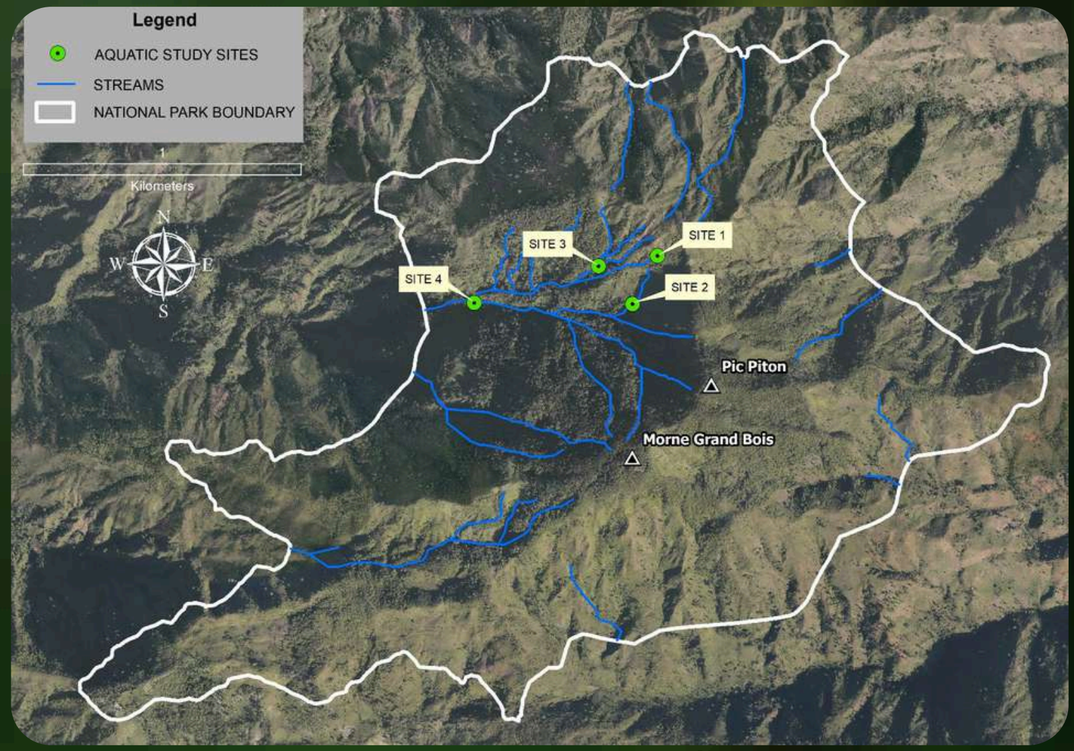
A VITAL WATER RESERVE

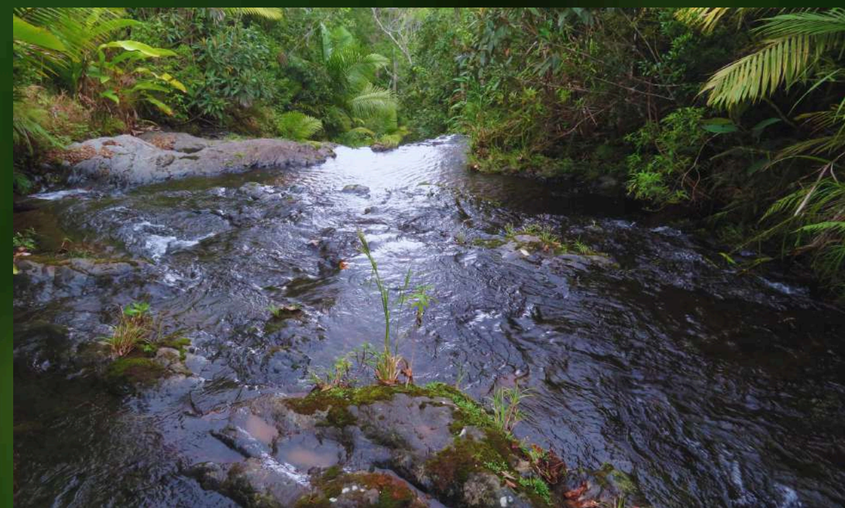
Year-round availability of water & food resources

Important for wildlife & migrating birds

Communities migrate with livestock (threat to the park)

Streams in Grand Bois






But...
... biodiversity loss
Massif de la Hotte, Haiti

LAND USE

Housing, agriculture, livestock grazing

RESOURCE EXPLOITATION

Wood cutting mostly for lumber and charcoal production

HUMAN MIGRATION

Travel through forests to reach remote locations

OTHERS

Non-native invasive species, wildlife poaching, natural disasters (hurricanes, earthquakes, landslides, wildfires)


So...
... what can we do?
Grand Bois, Haiti

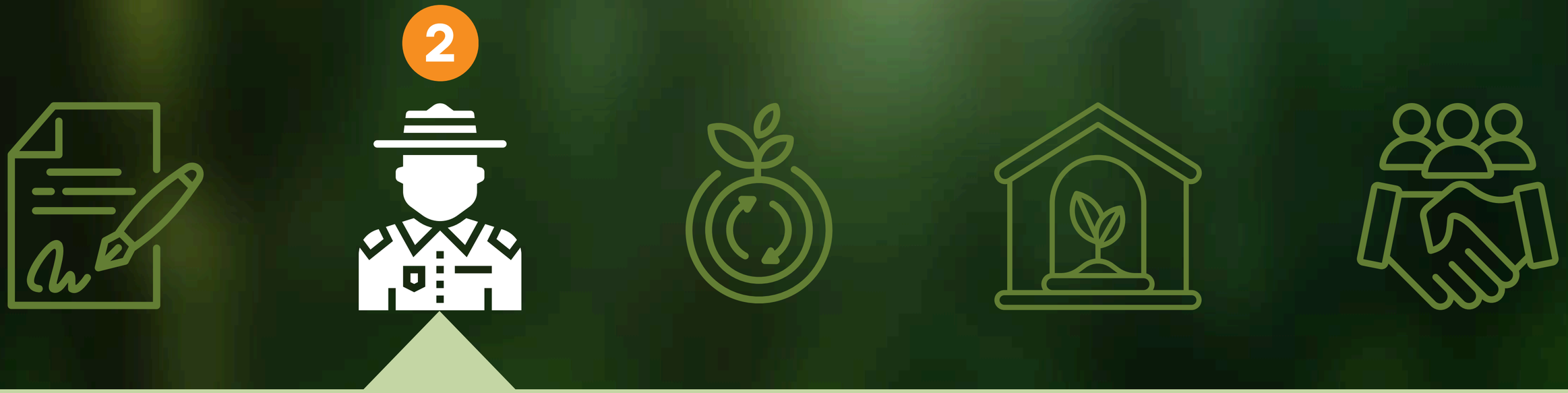
INNOVATIVE & CONTEXT SPECIFIC STRATEGIES

1

Management Delegation & Governance

- **Land tenure:** Purchase land within the park
  - to control access & reduce stressors
  - restoration, conservation & protection
- **Contract:** First-ever management delegation in Haiti

INNOVATIVE & CONTEXT SPECIFIC STRATEGIES



Rangers, Threat Mitigation & Law Enforcement

- **Rangers:** Hired from the community
- **Training:** Community relations & conflict resolution
- **Patrols:** Deter illegal activities & law enforcement

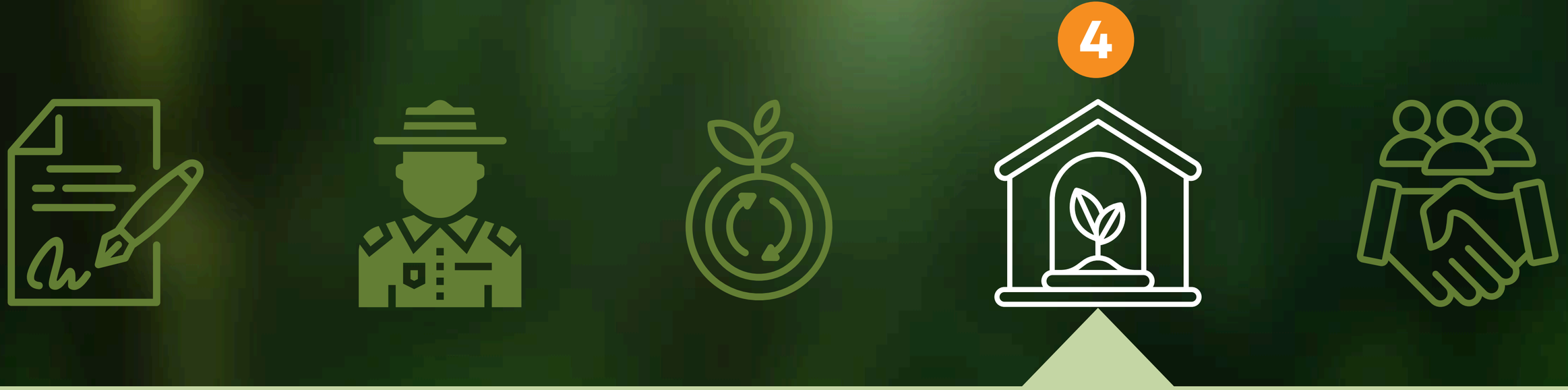
INNOVATIVE & CONTEXT SPECIFIC STRATEGIES

3

Habitat Restoration & Reforestation

- **Native Species:** Restoration with natives & endemics
- **Invasive Plants:** Sustained removal
- **Monitoring:** Reforestation success & species recovery

INNOVATIVE & CONTEXT SPECIFIC STRATEGIES



Species Conservation & Biodiversity Protection

- **Targeted Species:** IUCN Red Listed & endemic wildlife habitat needs; critical habitats
- **Ecosystem & Habitat Quality:** Expansion of primary forest populations; maintenance of genetic & habitat diversity

INNOVATIVE & CONTEXT SPECIFIC STRATEGIES

5

Community Engagement & Buy-in

- **Community Involvement:** Hired to maintain park
- **Livelihoods:** Agroforestry & honey production
- **Education & Awareness:** Workshops, meetings, trainings


Impact &
Achivements...
Grand Bois, Haiti

REFORESTATION EFFORTS

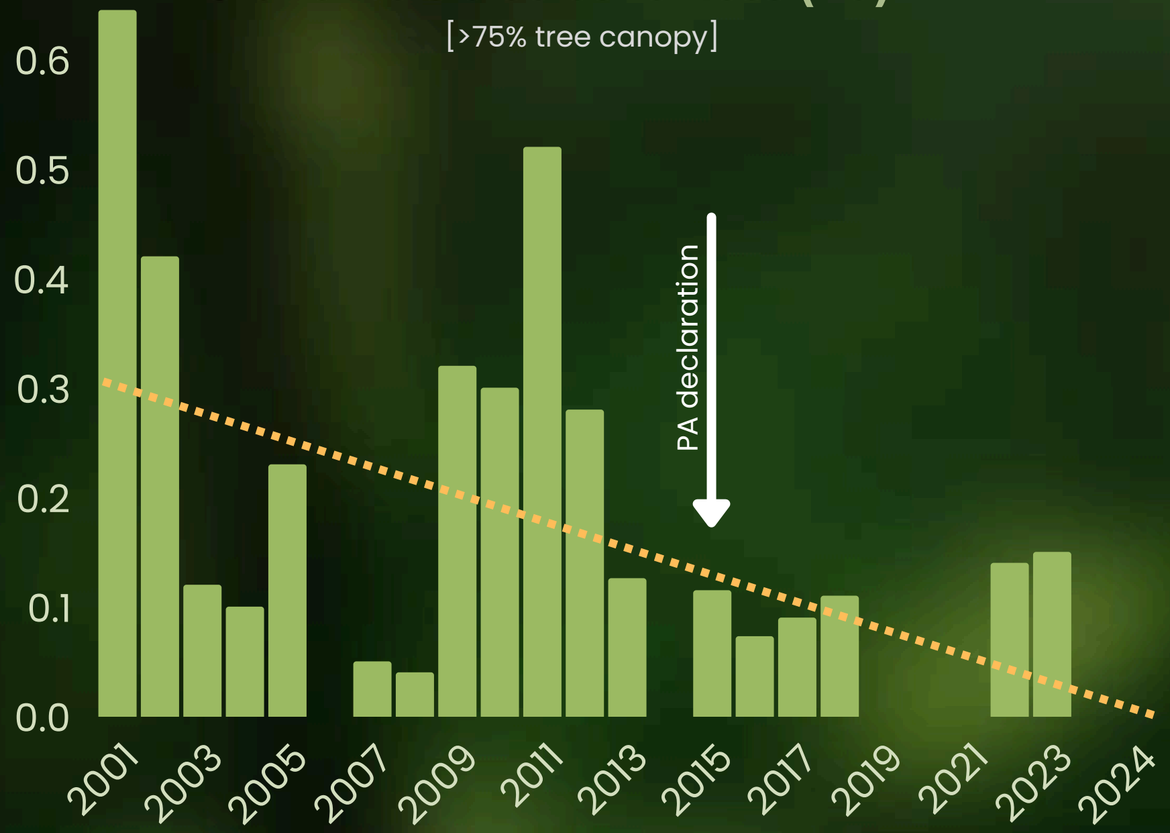
Since 2022

ECOSYSTEM RECOVERY

- **Natural forest cover stable**
  - deforestation on the decline for the park as a whole
  - deforestation occurs where land pressure is greatest
  - some tree cover loss is natural (landslides, hurricanes)
- **Areas cleared**: relatively small & rapid recovery

Grand Bois tree cover loss (Ha)

[>75% tree canopy]



Source: Global Forest Watch

*Deforested plot: tree cutting, drought, wind damage, landslides etc.

**Natural disasters have played an insignificant role in the loss of forest cover

Recovery of forest ecosystem in GB (9 years)

IMPACT

Restoration contributing to **ecosystem recovery**

Enhanced **community support** (40% women)

Critical habitats for endangered species are **protected**

CONCLUSION

Community-based restoration initiatives are pivotal to the sustainability of GB

Restoration efforts are not just ecological but **socio-economic**

Land tenure & private park protection are critical to restoration succes

Restoration efforts must continue for the future of the GB rainforest









THANK YOU

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