APPENDIX 5: Theory of Change – Results Chains

A theory of change is defined as a series of causally linked assumptions about how strategies lead to the achievement of both intermediate results and longer term conservation goals. We created a chain of results that flows from each strategy to a target.

These diagrams were greatly simplified for presentation in the main text.

Key:
Strategy 3: Explore Restoration Methods

Restore or create nest sites

1. ID & evaluate sites (permits, logistics, security, partners, management, etc.).
2. ID & evaluate various methods/designs (for nests: portability, durability, availability, transport, cost, etc.).
3. Research plan w/sites, methods.

1 Obi

Planning, budgeting and prioritization completed to conduct field tests to determine efficacy, cost & best practices for
1. Artificial nests
2. Social attraction
3. Translocation.

Field tests to determine efficacy, cost and optimal techniques completed, as funding and logistics allow

Analysis of results of field trial completed & tactics prioritized.

Priority tactics implemented and monitored

E.g. Activities for nests
1. Follow research/ work/ monitoring plan to test multiple nest designs at multiple sites & densities.
2. Monitor each w/cameras

E.g. Activities:
- Analyze data to determine cost-benefit, duration of impact, feasibility, etc.
- Set targets based on PVA modeling
- Prioritize tactics based on results, funding, opportunities, etc.

Target BCPE
Strategy 4: Reduce Predator Pressure

- Manage invasive predators
  - Trapping
  - Predator monitoring
  - Fencing

Abundance of invasive predators reduced
- Fewer young killed by predators
  - Reproductive Outputs Increased
    - 1 Obj

- Fewer adults killed by predators
  - Breeding Activity Increased
    - 1 Obj
  - Adult Survivorship Increased
    - 1 Obj

Strategy 5: Reduce Collisions and Groundings

- Seek voluntary solutions with tower industries
  - Systematic study of collisions and information and recommendations

- Seek regulatory solutions with government to lower intensity
  - Advocacy

Awareness campaign to decrease light pollution
  - Identity hazards
  - Identity owners/managers
    - Provide information and recommendations

- Light owners aware of risks and incentivized to pursue solutions
  - Systematic network of querying and reporting in place

- Public made aware of dangers of light pollution

- Tower owners/managers engaged and willing to improve towers
  - BCPE-friendly tower regulations are enforced
    - Regulations in place to reduce risk of collision and groundings
    - Fewer dangerous towers
      - 1 Obj

- Existing towers modified or replaced
- New towers conform to BCPE-friendly siting and design regulations

- Deflectors, “lights out” programs, bulb changes, other solutions enacted
  - Light from problem point sources reduced
- Targeted light pollution reduced

Decrease in frequency of collisions and injury
- Fewer groundings from light attraction
  - 1 Obj

Awareness campaign underway

Under Management
- BCPE - Morne Vincent, HT
- BCPE - Loma del Toro
- BCPE - Valle Nuevo

Rescue program

Unmanaged sites and highways
- BCPE - Jamaica
- BCPE - Dominica
- BCPE - Cuba
- BCPE - Guadeloupe
- BCPE - La Vitía ecopark
- BCPE - Macaya
- BCPE - Loma Quebrada
- BCPE - Valle Nuevo
Strategy 6: Support of Community Development at Boukan Chat
Strategy 7: Draft Strategies for La Visite
Deferred in favor of Strategy to Undertake a scoping study of socio-economic drivers of threats at La Visite
Strategy 8: Engage Dominican Republic to plan and strengthen oversight of parks
Strategy 9: Address Threats at Sea Through Advocacy

The following four diagrams were combined into one in the main text of the plan.

Fisheries
Plastics