Factors predicting the outcome of targeted conservation interventions

Case study number:

Scientific name:

Common name(s):

_____

RESPONSE VARIABLES

Overview of recovery programme and species status:

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………

………

………

………

Population trend – has the population increased/decreased/stabilised from its lowest point at the beginning of the recovery programme?

1. Extinct   ☐

2. Population decline continuing   ☐

3. Population decline halted   ☐

4. Population recovery   ☐

5. Unknown   ☐

OR

1. Declining/Extinct   ☐

2. Stable/Increasing   ☐

3. Unknown   ☐

Conservation reliance

1. Captive managed   ☐

2. Intensively managed   ☐

3. Lightly managed   ☐

4. Conservation dependent   ☐

5. Self-sustaining   ☐

1

_____

PREDICTOR VARIABLES

Biology/ecology

1.   Order:

....

....

2.   Body Mass:

....

....

3.   Litter size:

....

....

4.   Interbirth Interval:

....

....

5.   Habitat type:

Forest ☐   Savanna ☐   Shrubland ☐   Grassland ☐   Wetlands (inland) ☐
Rocky areas (cliffs/peaks) ☐   Caves and subterranean habitats ☐   Desert ☐
Marine Neritic ☐   Marine oceanic ☐   Marine deep ocean floor ☐
Marine intertidal ☐   Marine coastal/supratidal ☐   Artificial – terrestrial ☐
Artificial – aquatic ☐   Introduced vegetation ☐   Other ☐   Unknown ☐

Other info:

....

....

Geo-political environment

6.   WWF biogeographic realm:

Nearctic ☐   Palearctic ☐   Afrotropic ☐   Indomalaya ☐
Australasia ☐   Neotropic ☐   Oceania ☐   Antarctic ☐

7.   Human development index:

……….

……….

8.   Human footprint:

……….

……..

9.   Corruption index:

……….

……….

Threats

10.   What are the primary threats to the species?:

Residential & commercial development	☐
Agriculture & aquaculture	☐
Energy production & mining	☐
Transportation and service corridors	☐
Biological resource use	☐
Human intrusions & disturbance	☐
Natural system modifications	☐
Invasive & other problematic species, genes & diseases	☐
Pollution	☐
Geological events	☐
Climate change & severe weather	☐
Other options	☐

Other info:

……….

……….

……….

11.   Do the ultimate threats originate from within or outside the species' range?

Closed system (within) ☐

Open system (outside) ☐

12. Have the primary threats been substantially reduced or reversed?

   All ☐   Most ☐   Some ☐   None ☐

   ....

   ....

13. Have any of the primary threats escalated during the course of the recovery programme?

   Substantial escalation ☐   Moderate escalation ☐   No escalation ☐

   ....

   ....

14. Have novel threats emerged or has the nature of the primary threat changed during the course of the recovery programme?

   Yes ☐   No ☐

   ....

   ....

15. Is the lack of good quality suitable habitat/range a known limitation to recovery?

   Yes ☐   No ☐

16. Is small population size/inbreeding a known or probable limitation to recovery?

   Yes ☐   No ☐   Unknown ☐

17. Level of legal protection the species has within range states?

   Full protection   ☐
   Partial protection   ☐
   No protection   ☐

   ....

   ....

18. Level of legal protection of the species' habitat across range states?

Full protection ☐

Partial protection ☐

No protection ☐

………

…….

19. Level of law enforcement for protection of species and/or its habitat:

Effective enforcement across its range ☐

Effective enforcement in PAs only ☐

Partial enforcement across range ☐

Partial enforcement in PAs only ☐

Ineffective/weak enforcement across its range ☐

Baseline information and conservation planning

Information on population over time (temporal and/or spatial depending on the number of sites):

……

……

……

……

……

20. Population size at beginning of intervention:

…….

…….

21. Magnitude/rate of decline at beginning of intervention:

…….

…….

22. Level of confidence in available field data on status of the population prior to recovery programme?

High confidence ☐

Reasonable confidence ☐

Low confidence ☐

No confidence/status unknown ☐

23. Number of scientific publications available for the species:

    a) BEFORE start of recovery programme?

    b) AFTER start of recovery programme?

24. Is there an action/management plan for the species?

    Yes ☐   No ☐

25. What was the time between formal recognition of the need for a recovery programme and commencement of key management activities?

    ………
    ……….

26. What are the conservation actions that form a core component of the recovery programme?

    Invasive action to target species
    Ex-situ captive breeding
    In situ population recovery
    Translocation
    Disease management

    Non-invasive action to target species
    Habitat protection/management/recovery
    Invasive species management
    Law enforcement/anti-poaching
    Community engagement/education/livelihoods
    Compensation payments
    Ecological research

27. Were there any analogous recovery programmes based on a similar species or using similar techniques to this recovery programme?

    Yes ☐   No ☐

....

....

Stakeholders and management

28. Number of national level organisations with key role in project

National/federal government agency	☐	....
Regional/state administration agency	☐	....
NGO	☐	....
Zoo	☐	....
Academic institution	☐	....
Private company	☐	....
Other	☐	....

29. Number of international level organisations with key role in project

National/federal government agency	☐	....
NGO	☐	....
Zoo	☐	....
Academic institution	☐	....
Private company	☐	....
Other	☐	....

30. Maximum number of people employed on recovery project at any time during the project's history?

....

....

31. What is the overall management structure of the recovery programme?

Formal recovery team led by e.g. government	☐
Formal collaborative recovery team/working group with no leadership	☐
Informal collaboration between stakeholders	☐
Little/no collaboration between stakeholders	☐

32. Regularity of contact between primary stakeholders?

……

……

33. Level of agreement on key actions between primary stakeholders?

General agreement ☐   Partial agreement ☐   Weak agreement ☐

34. Level of political support for recovery programme across its range states?

Active endorsement   ☐
Passive endorsement   ☐
None   ☐
Conflict   ☐

Other info:

……

……

35. Level of community support for/engagement with the recovery programme?

General support   ☐
Partial support   ☐
Neutral attitude   ☐
Intermittent conflict   ☐
Persistent conflict   ☐
NA   ☐

Other info

……

……

Funding

36. Level of funding needed?

……

……

37. Continuity of major funding:

1 year or less ☐   1-3 years ☐   3+ years ☐

38. Are key recovery plan actions ever delayed through lack of funds?

Rarely/Never ☐   Occasionally ☐   Regularly ☐   Always ☐

_____

39. Are there any issues that you feel significantly contributed to the species' recovery/decline that have not been captured in the questions so far?