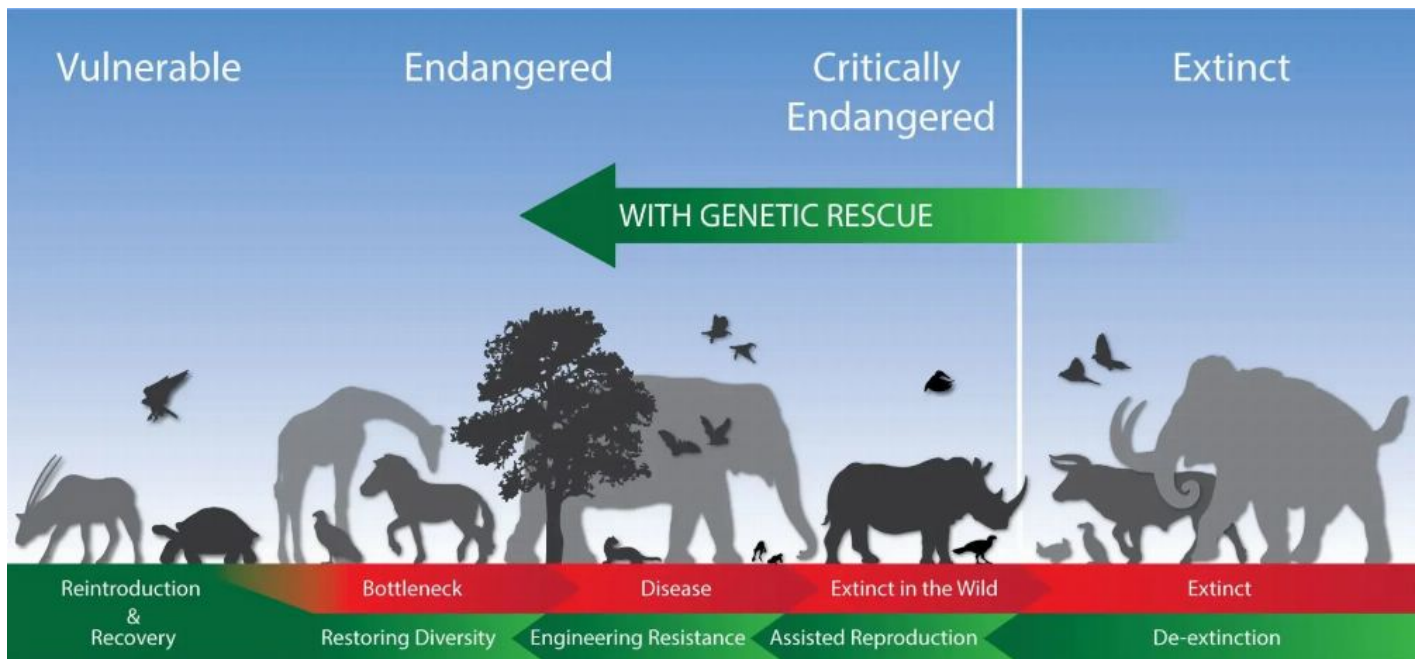


What is Genetic Rescue?

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About Genetic Rescue

- Genetic rescue is the process of increasing population growth with new genetic variation by migrating individuals into another small population (i.e., gene flow).
- In practice, wildlife managers take individuals from a larger, healthier population, and bring them to a smaller population to introduce new variation and eventually help grow the population.
- This conservation strategy aims to alleviate genetic load, decrease extinction risk, and enhance the viability of endangered species and populations.
- It is often employed in conservation biology to mitigate the negative effects of inbreeding depression, which can occur when individuals within a population mate with close relatives, leading to decreased reproductive success and viability of offspring.
- Genetic rescue can have both beneficial and deleterious effects, depending on factors such as the magnitude and duration of gene flow, as well as the genetic and non-genetic factors influencing population dynamics.
- There can be risks involved with moving animals around, so it's often thought of as a last resort.

Q1) What is a Gene?

A gene is the basic physical and functional unit of heredity. Genes are made up of DNA. Some genes act as instructions to make molecules called proteins.

Source: [Conservation not enough for the highly inbred Ranthambore tigers — they require genetic rescue](#)

Source: <https://vajiramandravi.com/current-affairs/genetic-rescue/>

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