FACULTY OF ENGINEERING AND TECHNOLOGY

Lecture- 17

Biodiversity-Part 1

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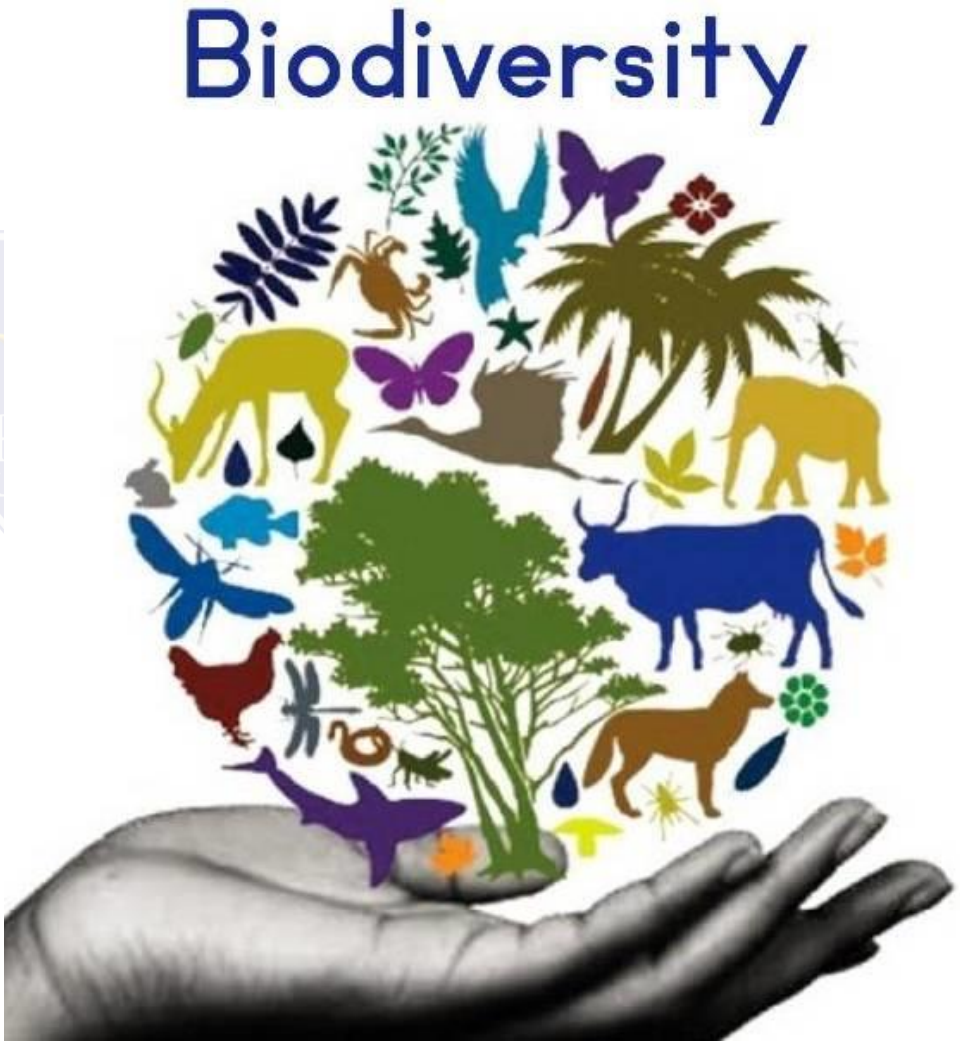
Biodiversity

Bio = Life

DiVErsiTy = VariETy

Biodiversity simply means variation in life forms

Biodiversity is defined as “the variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems.”



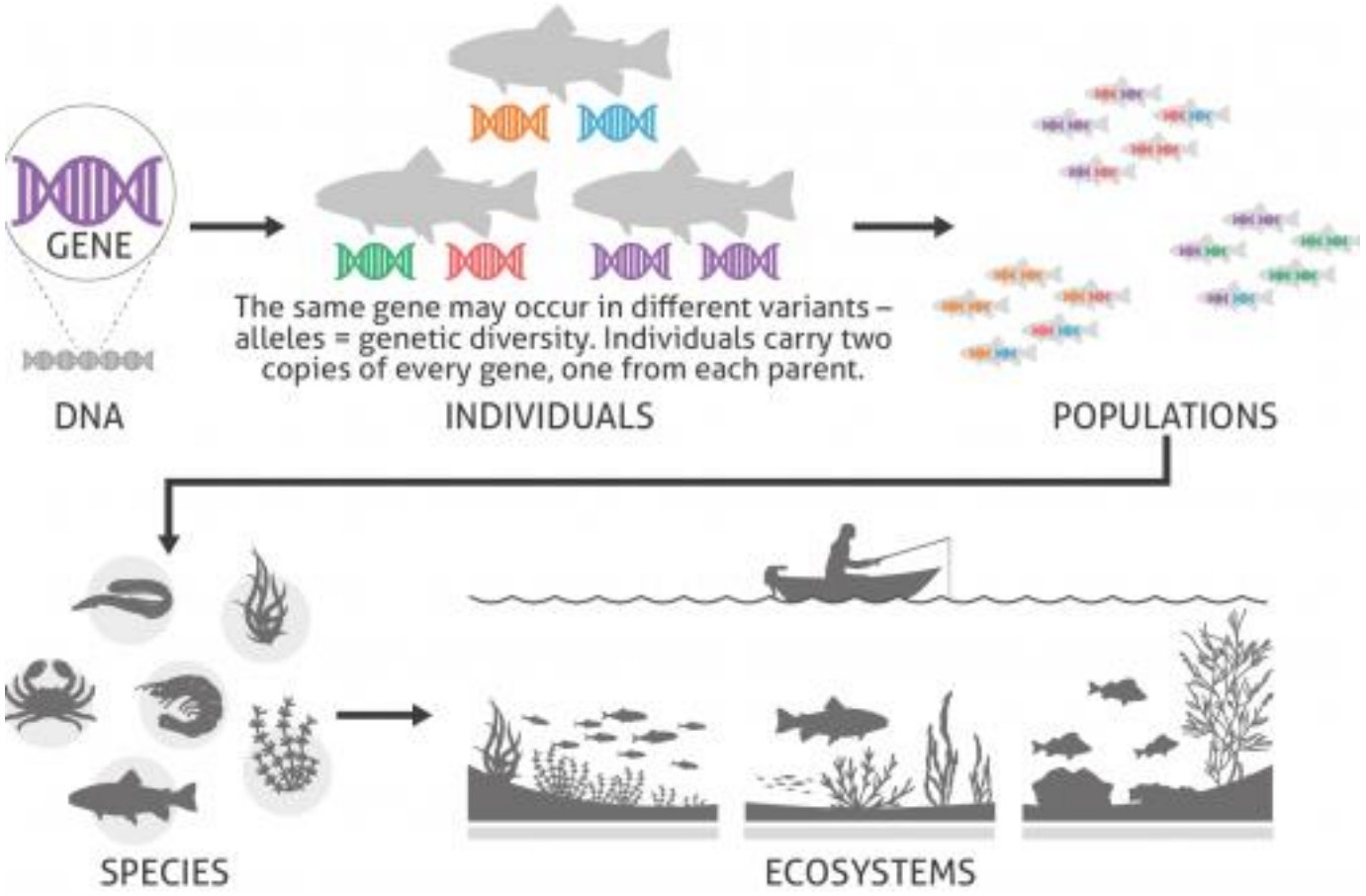
Sources: https://images.app.goo.gl/yW9S7BeShwik3zvq5

Biological diversity observed at three levels:

Genetic diversity

Species diversity

Ecosystem diversity



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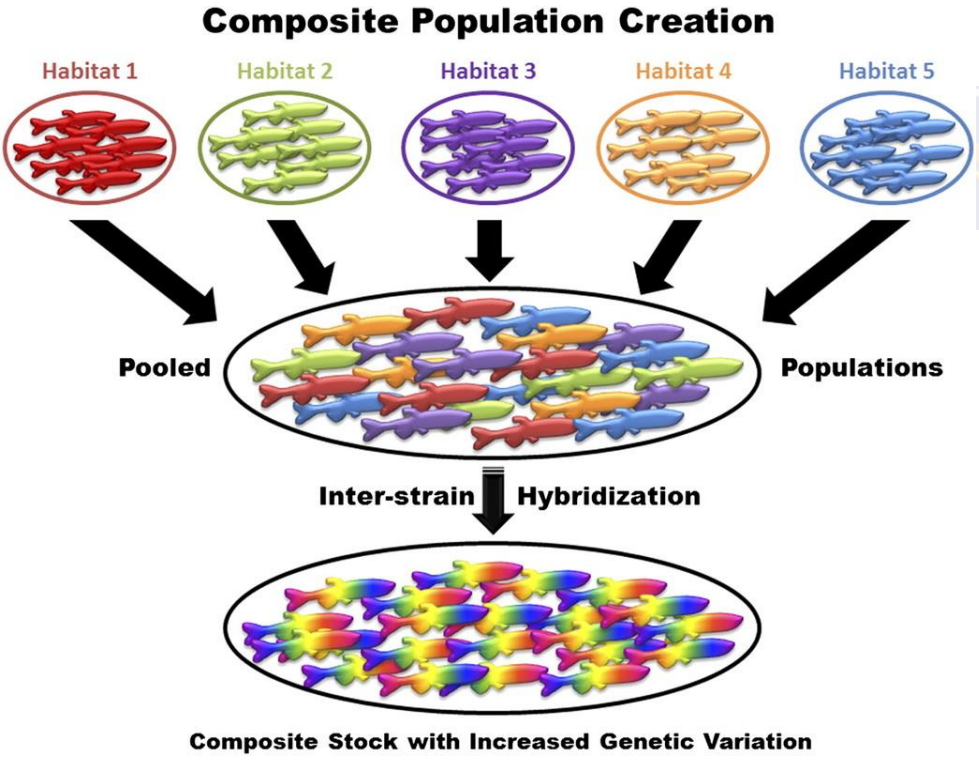
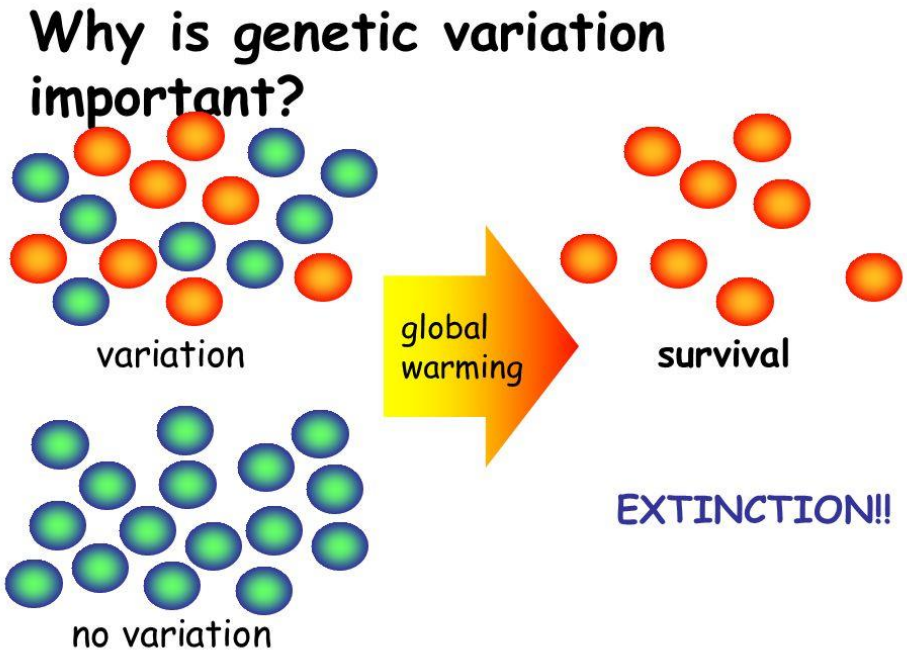
Genetic diversity: Genetic Diversity is the diversity of genetic characteristics (expressed or recessive) within a species (i.e. between individuals and populations of the same species),





Sources: https://images.app.goo.gl/Du6neARhjc8DajwYA; https://images.app.goo.gl/Y5ivMGvKUpwt31gA9

Species diversity: Species diversity is the number of different species that are represented in a given community. Greater species diversity ensures natural sustainability for all forms of life.

Sources: https://images.app.goo.gl/eiMzKVhkfBzeBcdo8

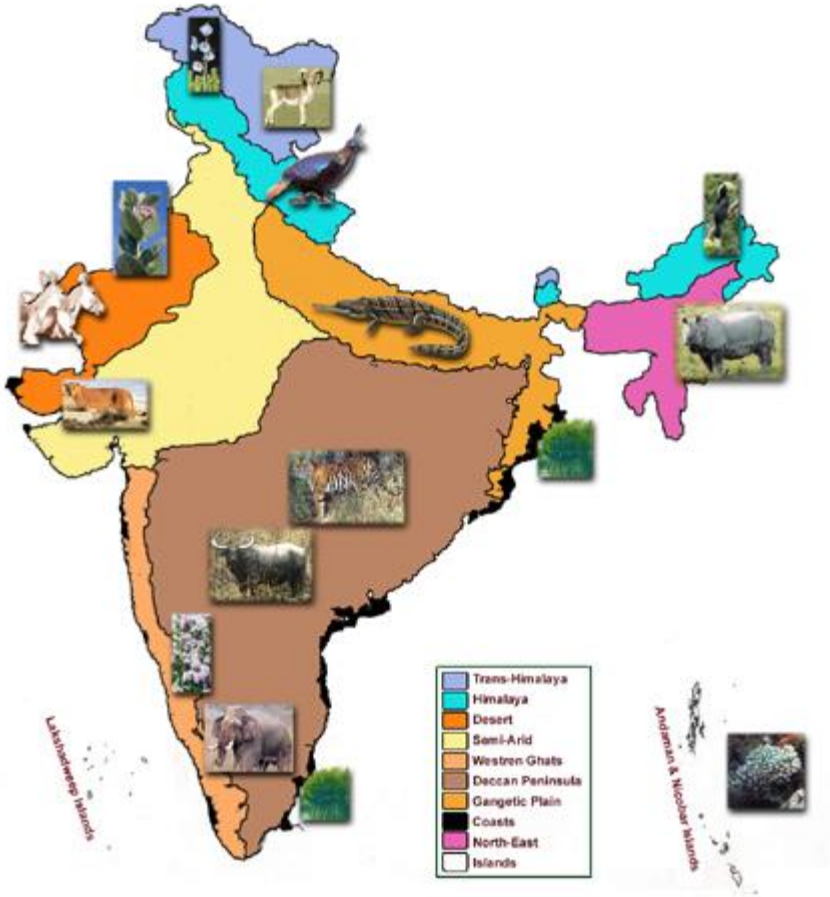
Ecosystem diversity: Ecosystem diversity deals with the variations in ecosystems within a geographical location.

Sources: https://images.app.goo.gl/ut1Ec2ND8Axwjt2Y8

Biogeographical classification of India

India is a mega diverse country. With only 2.4 per cent of the total land area of the world, the known biological diversity of India contributes 8 percent to known global biological diversity. In terms of Biogeography, India has been divided into 10 biogeographic zones:

- Trans-Himalayan Region
- Himalayas
- Semi-arid areas
- Western ghats
- Desert region
- Deccan plateau
- Gangetic plains
- North-east India
- Islands
- Coasts



Sources: https://images.app.goo.gl/JHnKExs2TKxFuQLq6


THANK YOU :)