

# Threat to Biodiversity

A.

The extent of threat to biodiversity

~ 10,000 sp. getting extinct / yr.

↳ mostly yet undescribed

→ VII<sup>th</sup> mass-extinction on the earth

↓  
a long-drawn event during which thousands or hundreds of thousands sp. get extinct

## B. Principal Threats

(1) Destruction of the habitats

Why?

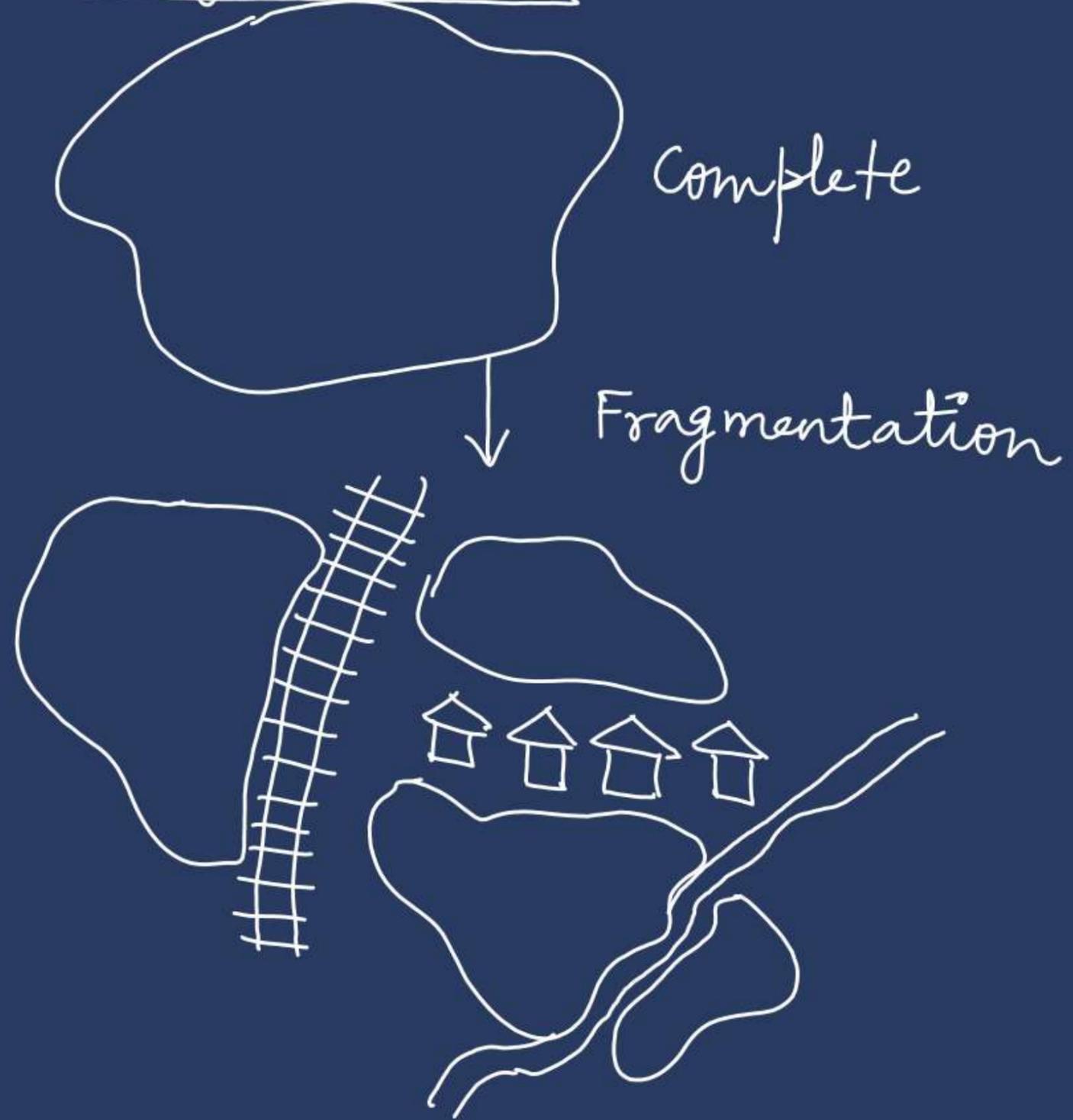
- a) Agriculture
- b) Swelling / Habitation
- c) Infrastructure
- d) Mining
- e) Industries
- f) others

↓  
• the natural dwelling for a sp.

• sp. is adapted for this habitat

## (2) Degradation and Fragmentation of habitat

↓  
drop in quality  
and utility  
(by pollution)



(3) Overharvesting & Targeted elimination

Harvest

↳ collecting something valuable from its source

↳ Harvesting beyond renewal capacity

↳ eg. Aedes mosquito

→ killing the members of the species without any commercial motive  
eg. hunting for recreation

(4) Climate Change impact

(4) Sea level rise

↓  
Coastal biodiversity

(1) Long spells  
of dry weather

↓  
Frequent forest  
fires

↙  
Habitat loss

↘  
Sp. loss

(2) Cyclonic storms

↓  
Coastal habitats  
& biodiversity loss

(3) Floods  
& flash floods

Local area  
biodiversity

+ many others

## (5) Exotic Invasive Species

Non-native  
of a particular  
region

Such fast growth  
that comes at  
expense of native  
species

number      geographical  
↑                      ↑  
spread

- eg.
- Eucalyptus tree
  - Poplar tree
  - Pine tree
  - Lantana bush
  - Parthenium

## (6) Co-extinction

Extinction of one sp. due to its dependence on another sp. which got extinct earlier

HOT SPOTS OF  
BIODIVERSITY

/ very-very  
important

\ very threatened

tomorrow