

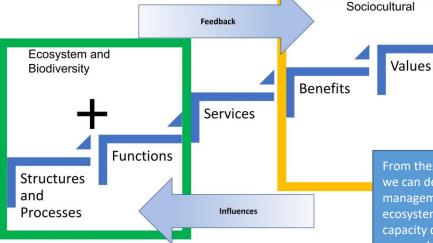
## Fishponds as biodiversity hotspots: Implications for management and restoration of wetlands in Hong Kong

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## 199 1964 Surrounding environmental changes such as drainage, reclamation, over utilization...etc., solely or cumulatively threaten the fishponds, resulting in the fragmentation and loss of the wetland. Nowadays, the overall area of this habitat is about 11.13 km<sup>2</sup>, which decreased 2022 1994 from 24.47km<sup>2</sup> in the 1980s. They are now mainly managed in 3 ways with different management efforts: Abandoned Abandoned, Commercialized, and Conservation oriented Conservation oriented. Commercial oriented

Hong Kong has a long history of utilising wetlands; starting in the 1940s, the coastal regions were converted into fishponds and "Gei Wei".

IUCN Red List Fishponds in Hong Kong are critical for biodiversity. species richness We would consider how is the biodiversity influenced within the fishponds under different levels of human-Commercial influenced fishpond management. species richness By using the environmental DNA technique, DNA Invasive species Species richness richness fragments can be collected within these fishponds. Other detected The species richness differences can be reflected from species the result. We can identify how diverse the species appear in the habitat. Phylogenetic diversity



## Abandon

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From these bottom-up points of view in the system, we can determine the more beneficial management strategies in terms of biodiversity and ecosystem functioning and determine the resilience capacity of this system according to management approaches.