

STRENGTHENING AND PRESERVING BIOLOGICAL DIVERSITY DATA THROUGH MALAYSIA BIODIVERSITY INFORMATION SYSTEM (MYBIS)

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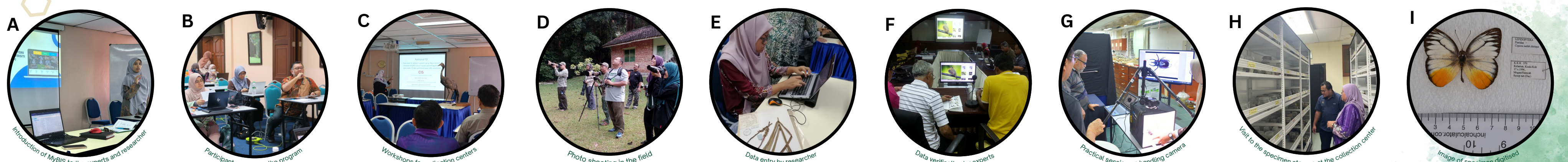
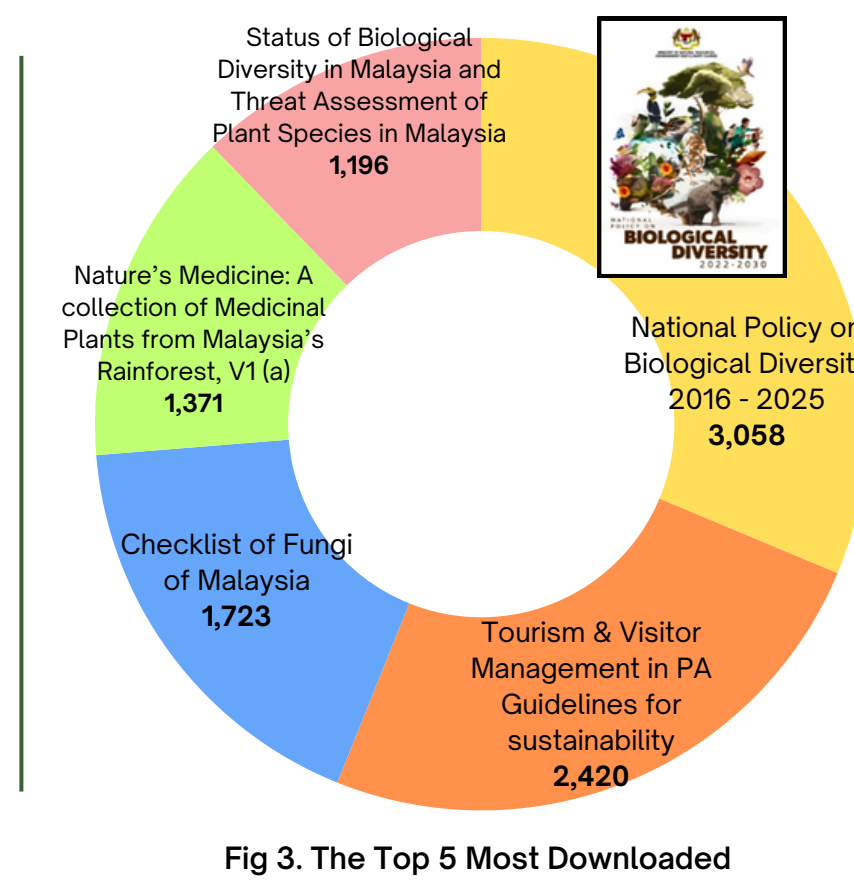
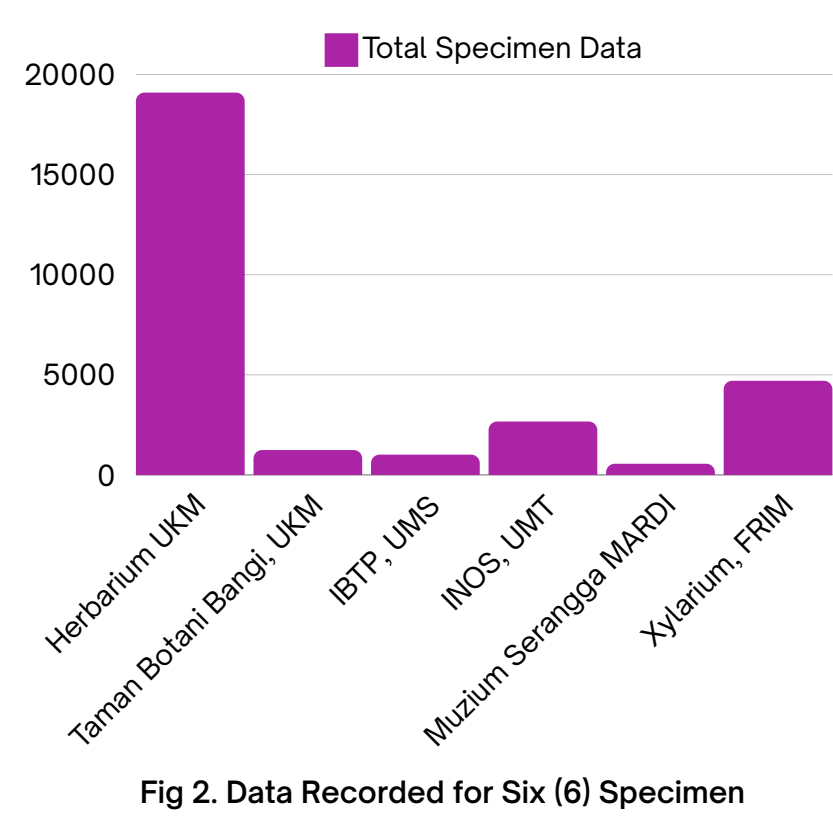
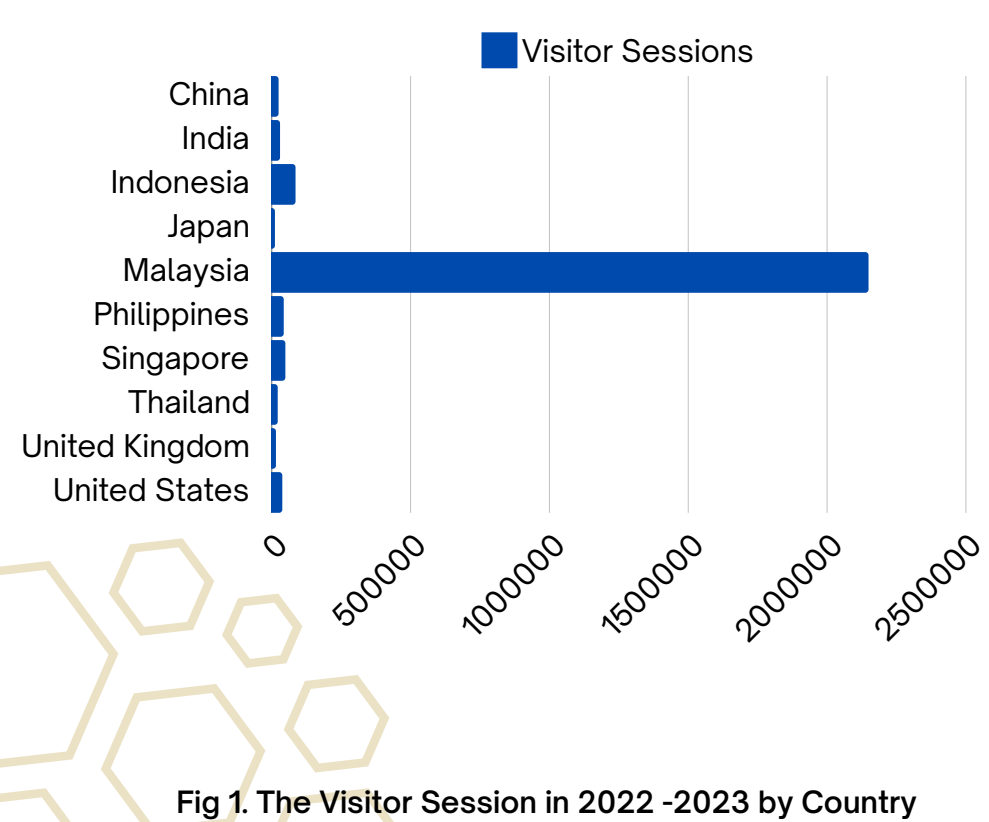
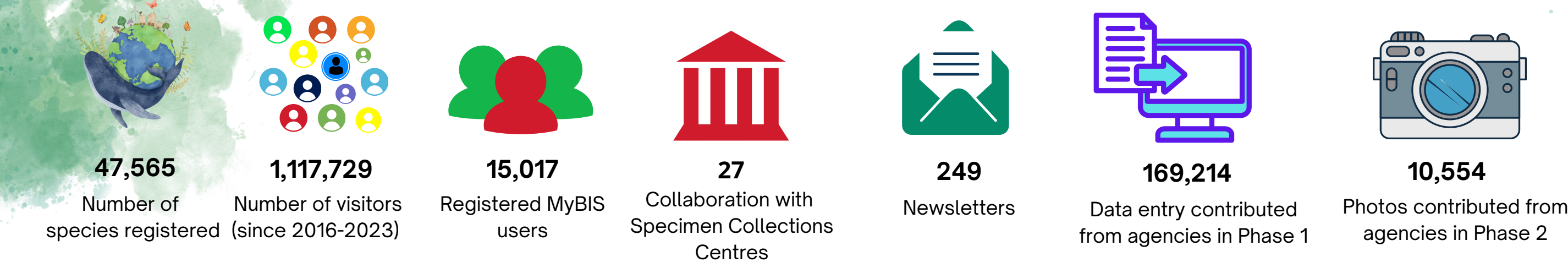
1 Introduction

MyCHM (Malaysia Clearing House Mechanism), initially focused on flora, fauna, and fungi diversity, was revamped and rebranded as the Malaysia Biodiversity Information System (MyBIS) in 2016 to serve as a comprehensive biodiversity repository for Malaysia. MyBIS supports the Convention on Biological Diversity (CBD) information exchange platform and aligns with Action 2.5 under Target 2 of the National Policy on Biological Diversity (NPBD) 2022-2030. Action 2.5d aims to strengthen the national Clearing House Mechanism (CHM) by facilitating information sharing among researchers, resource managers, and stakeholders, with data contributed by various agencies and universities.

2 Objective

The primary objective of this online portal is to provide a mechanism for the efficient exchange of information on biological diversity in Malaysia between policy makers, experts, institutions and public.

4 Results



Pictures A-I show the programmes in cooperation with agencies and universities

5 Discussion

As a one-stop repository for Malaysia biodiversity information, the MyBIS database continues to expand. At present, a total of 47,565, species have been recorded, encompassing 18,907 animal species, 24,349 plant species, 4,122 fungus species, 156 chromista species, and 31 eubacteria species. The recording of 139,937 specimen data has been made possible by collaboration with agencies, universities, government and statutory bodies, and this number will continue to rise in tandem with the annual programs that are actively conducted under the guidance and supervision of the MyBIS technical team. Under the taxonomy module, 11,958 images were contributed to the MyBIS gallery, and participating collection centres contributed an additional 10,554 specimen images. Specimen collection centres also contribute reference data for public access. The MyBIS data were verified by biodiversity experts to strengthen and fortify the national biodiversity data. Twenty years after the first website was launched, MyBIS website serves as a reference and baseline information centre for the Malaysia biodiversity database, helping to archive the sustainability of national biodiversity resources.

6 Conclusion

Over the past two decades, this website has been constantly developed and enhanced. With continued development and improvement of existing modules, the MyBIS system can stand at par with other international biodiversity websites. In the future, MyBIS's focus will be on enhancing spatial data, data management and presentation to support policy decision-makers and scientific analysis at higher levels.

Acknowledgement

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References

- Abd. Latif, M., Nurfarhana-Hizan, H., Tan, K.K. & Hamidah, M. (2020). MyBIS - Malaysia Biodiversity Information System, Malaysia's Clearing House Mechanism. Forest Research Institute Malaysia (FRIM), Malaysia. pp. 86.
- MyBIS (2024). Malaysia Biodiversity Information System. Ministry of Natural Resources and Environmental Sustainability, Malaysia Biodiversity Centre & Forest Research Institute Malaysia Retrieved 26 Jun 2024 via <https://www.mybis.gov.my/>.