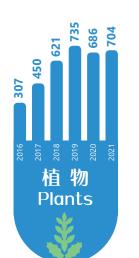
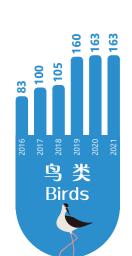
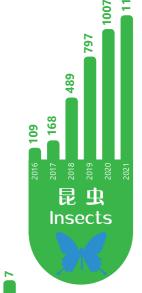
哺乳动物

Mammals







底栖动物

Benthic

Animals





2000-2020 年期间,海桑属植物在深圳河入海口入扩散情况 From 2000 to 2020, the spread of Sonneratia in the Shenzhen River estuary









- 对 15 公顷的无瓣海桑进行清理; Removing 15 hectares of Sonneratia apetala

- 通过建设人工潮沟修复区域内水文联通性; Restoring the hydrological connectivity by constructing artificial tidal

- 通过设置自然恢复及不同程度人工修复样方及监测, 对比不同 方式的红树林修复成效;

Comparing the effectiveness of natural restoration and artificial restoration with different levels of interference

- 清理并维持关键区域的光滩, 为水鸟提供觅食及停歇地 Clearing and maintaining mudflats in key areas to provide foraging and resting habitats for waterbirds



红树林基金会 (MCF) 在深圳湾场域开展的湿地教育活动,将 环境保育知识和保护区、公园场域相结合,推动滨海湿地保护 的意识提高,发展滨海湿地保护的支持者群。

promote awareness for coastal wetland conservation and to gather a group of supporters.







1000+场次 Number of CEPA ogramme activities conducted:

中小学生等公众 20万+从次

1000+

Number of participants in



1 加强深港合作

Strengthening cooperation between Shenzhen and Hong Kong

深港两地在深圳湾滨海红树林湿地保护修复方面开展了一系列工 作。广东内伶仃福田国家级自然保护区管理局、红树林基金会、深 圳观鸟协会与香港渔农署、香港米埔保护区、香港观鸟会之间建立 了长期稳定的合作关系。

henzhen and Hong Kong have carried out a series of work in the conservation and restoration of coastal mangrove wetlands in Shenzhen Bay. Long-term and stable cooperative relations have been established between Guangdong Neilingding Futian National Nature Reserve Administration Bureau, MCF, Shenzhen Bird Watching ssociation, Hong Kong Agriculture, Fisheries and Conservation Department, Hong Kong Mai Po Nature Reserve, and Hong Kong Bird



通过合作交流,学习、借鉴香港在鱼塘管理、自然教育等方面先进 经验,进一步开拓了思路和视野。每年联合举行深港滨海湿地保育 论坛,两地政府还联合启动了治理深圳河工程,先后完成了河道清 淤、堤防巩固、排污口整治、水面保洁等一系列工程。

nrough cooperation and exchanges, the Shenzhen side learned rom Hong Kong's advanced experience in fishpond management he Shenzhen-Hong Kong Coastal Wetland Conservation Forum s jointly held every year. Shenzhen and Hong Kong governments Iso jointly launched the Shenzhen River conservation project and ompleted a series of restorations such as river dredging, embankment einforcement, sewage outlet repairment, and water surface cleaning.





生态环境退化与生物多样性丧失 **Environmental degradation and** biodiversity loss



气候变化减缓和适应 **Climate change mitigation** and adaptation



防灾减灾 Disaster risk reduction



深圳湾红树林湿地 修复案例

A Case of Nature-based Solutions — Shenzhen Bay Mangrove Wetlands Restoration





适应性管理 Adaptive

多方合作 Multi-cooperatio









深圳湾位于东亚 - 澳大利西亚候鸟迁飞区的中点,每年有逾 10 万只候鸟经过,是重要的中转站和越冬地。

Australasian Flyway. More than 100,000 migratory birds pass by it every year. It is an important transfer station and wintering ground for migratory birds.

为有效保护这片处于特大城市腹地的红树林湿地系统,深圳市政 府在深圳湾滨海区启动了系列滨海红树林湿地修复行动。

To effectively protect this coastal mangrove ecosystem in the heartland of the megacity, the Shenzhen Municipal Government has executed a series of wetland restoration programs in the Shenzhen Bay area.

红树林基金会(MCF)作为行动参与方,主要参与了生态鱼塘修 复工程、种植红树林及滩涂营造工作,及组织开展自然教育活动。

As a participant in these programs, the MCF has mainly spearheaded activities like restoring fishponds and tidal flats, planting mangroves, and conducting nature education programs.









深圳湾红树林湿地修复——NbS 典型案例

Shenzhen Bay Mangrove Wetlands Restoration - a typical case of NbS

目标:恢复红树林湿地功能,服务鸟类栖息地和城市可持续发展 Goal: restore the ecosystem functions of mangrove wetlands to serv as healthy bird habitats and support sustainable urban development

- ·河道治理
- iver reconstrucion
- 鱼塘生境修复
- edesign of fish ponds for bird use
- · 防治病虫害和外来入侵物种
- Managing pests and invasive species
- 种植红树林及营造滩涂

- ·开展自然教育
- ·加强深港合作





为了使凤塘河口恢复生态平衡,深圳市福田区启动了"福田凤塘 河口红树林修复示范工程"。

To restore the ecological balance in Fengtang estuary, the municipal government of Futian district, Shenzhen city started the ecological restoration project of mangrove in Fengtang estuary, Futian district

改变河道的形态和结构,修复土壤环境,修复河岸植被,建立完 整的"红树一半红树一岸基植物"生态系统使得凤塘河恢复红树 林湿地河口生态系统的主要功能。

Changing the shape and structure of the river, repairing the soil environment, rehabilitating the riparian vegetation and constructing an integrated "mangrove - semi-mangrove - riparian vegetation estuarine ecosystem of Fengtang River.



凤塘河主河道修复前 Before Fengtang River reconstruction

凤塘河主河道修复后

reconstruction





2号鱼塘堆建两个小岛,形 成5公顷鸻鹬类水鸟高潮位

Two islands were built in the No.2 fish pond, forming 5 hectares of high-tide habitats for plover waterbirds.



入 修复鱼塘生境,营造鸟类高潮位栖息地

3-4号鱼塘连在一起,形成 17 公顷高潮位水鸟栖息地。

No. 3-4 fish ponds were connected together, forming haitats for waterbird.



湿地面积增加 24%。

The wetland area increased



The species diversity and quantity of birds has increased noticeably after restoration



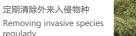






斑点广翅蜡蝉 Ricania guttata (Walker)







在红树林群落与基围鱼塘之间的过渡地带,恢复适宜红树林害虫 天敌栖息的稀疏灌木丛和低矮草本植物,恢复天敌昆虫种类和种 群数量。

In the transition zone between the mangrove and the fish pond, sparse bushes and low herbaceous plants were restored. They serve as suitable habitats that support the population of mangrove pests' natural enemies.







原产地孟加拉, 1990s 引种到深圳 Indigenous to Bungladesh, introduced to Shenzhen in 1990s

先锋树种, 生长迅速、适应性强、扩散快 Pioneer species, fast-growing, highlyadaptive, fast-spreading



截止 2022 年, 完成治理无瓣海桑约 18 公顷和复种乡土红树约 5 公顷。 As of 2022, about 18 hectares of Sonneratia apetala have been removed and about 5 hectares of native mangroves have been replanted.

红树林基金会(MCF)

Shenzhen Mangrove Wetlands **Conservation Foundation**

- 成立于 2012 年 7 月,中国首家由民间发起的环保公募基金会 Established in July 2012, the first non-governmental public-fundraising environmental protection foundation in China
- 致力干湿地及其生物多样性保护 Dedicated to wetlands and biodiversity conservation
- 全球红树林联盟及东亚 澳大利西亚迁飞区伙伴协定成员 Member of the Global Mangrove Alliance and East Asian-Australasian Flyway Partnership (EAAFP)
- 理事长: 《湿地公约》科技委员会主席、北京林业大学教授雷光春 President: Dr. Lei Guangchun, Chair of the Ramsar Scientific and Technical Review Panel(STRP), Dean of the School of Nature Conservation at Beijing Forestry University, professor in wetland ecology

人与湿地,生生不息

Living wetlands, sustainable future!







生生不息

