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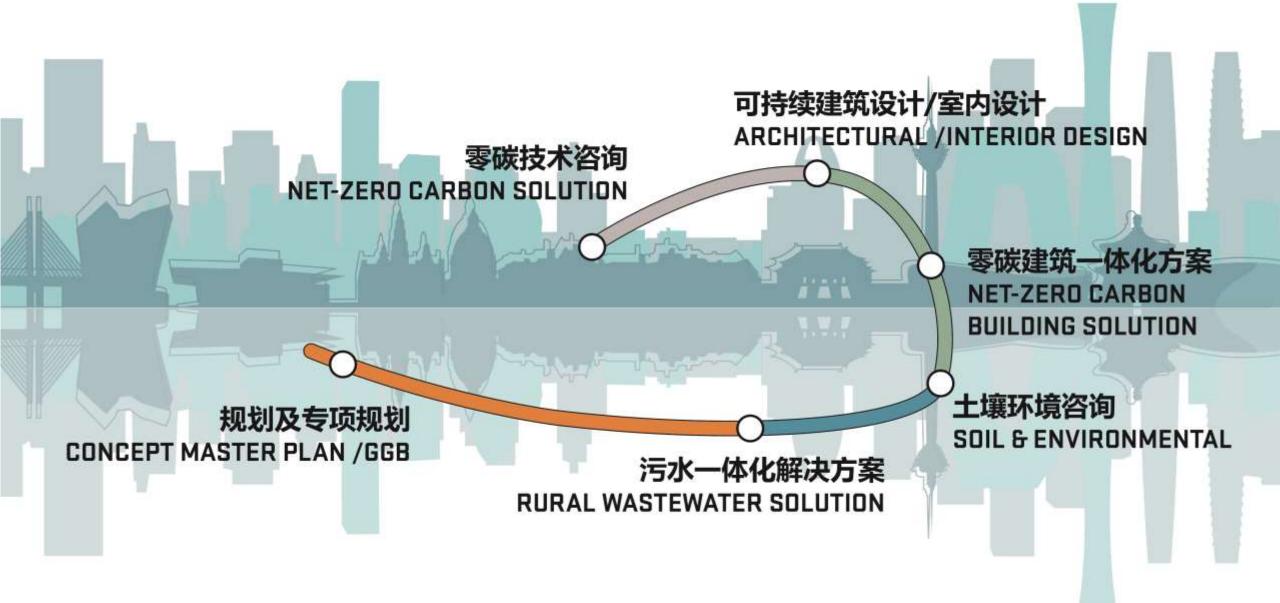
Recent NBS of rural ecological restoration and wastewater upgrading pilot projects in China



# 我们是谁 WHO ARE WE



## 服务领域 SERVICES



## 我们的使命

致力于提高城乡居民环境生活品质

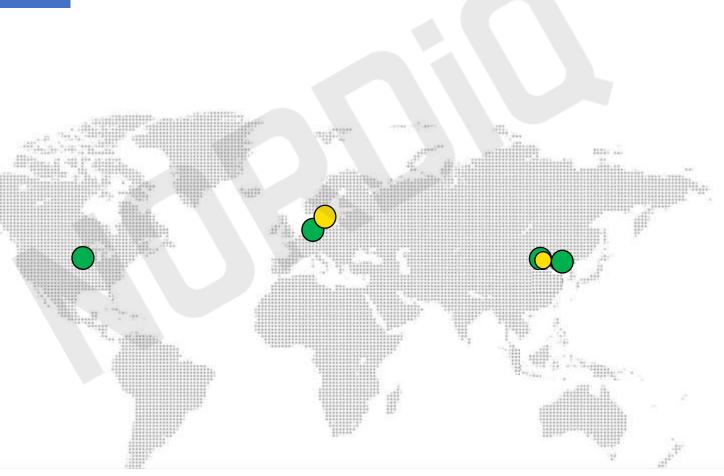
WE CREATE THE BEST POSSIBLE CONDITIONS FOR URBAN LIFE

### 中国城镇化融合北欧质量

WE COMBINE KNOWLEDGE FROM THE RAPID URBANISATION OF ASIA WITH SCANDINAVIAN QUALITY OF LIVING

### 不断反思挑战我们既有的思维方式

WE CHALLENGE ESTABLISHED WAYS OF THINKING



- NORDIQ GROUP
- SUB BRANCHES AND PARTNERS



## 主要客户 CLIENTS



























































SEGURO











**SKANSKA** 



of the Federal Republic of Germany





































**Ministry of Environment** and Food of Denmark Nature Agency







中国大唐集团新能源股份有限公司 China Datang Corporation Renewable Power Co., Limited











中国双碳2030/2060 气候发展目标 CHINA 2030/2060 CARBON NEUTRALITY CLIMATE TARGETS





## The 14th FYP & Water Related Green targets



China will try to achieve carbon peak by 2030 and carbon neutrality by 2060. The 14th FYP specifies that China will implement a sustainable development strategy, improve the coordination mechanism for improving ecological civilization, construct an ecological civilization system, promote the establishment of a green economy and green society, and build a beautiful China. The green industry will, therefore, present huge opportunities. China's green industry has grown exponentially in recent years, the environmental protection industry generated revenue of RMB1.78 trillion in 2019, up 11.3% from 2018.

## The major Water related policies on the green industry outlined in the 14th FYP are as follows:

- Moving towards the full implementation of the pollution permit system, bringing all fixed pollution sources under the pollution permit system, ensuring that target dates for achieving emission standards for industrial pollutants are met, and developing markets for trading pollutant emission rights, energy use rights, water use rights and carbon emission rights (11.38.5)
- ∠ Launching national water conservation projects, establishing a system for limiting the use of water resources, enhancing water conservation and efficiency in agriculture, stepping up water conservation and emission reduction in industrial production, implementing water conservation and reducing water loss in cities and towns, encouraging the use of reclaimed water, and striving for a 16% reduction in water consumption per unit of GDP (11.39.1)

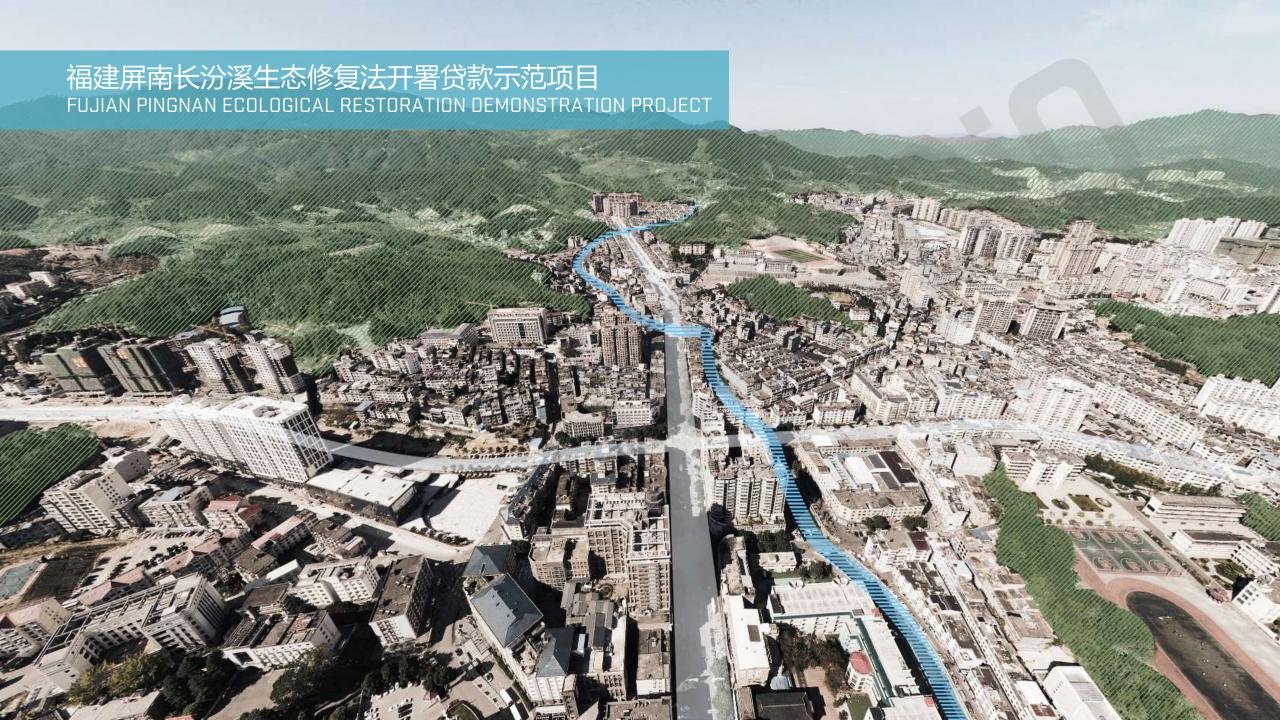
Source: China's Environmental Protection Industry Development Report 2020, Department of Science, Technology and Finance of the Ministry of Ecology and Environment and China Association of Environmental Protection Industry, September 2020. The environmental protection industry in the report refers to the six sectors of water pollution prevention, air pollution prevention, solid waste disposal and resource utilization, noise and vibration control, soil remediation and environmental monitoring.

## 乡村生态环境振兴项目 RECENT NBS OF RURAL ECOLOGICAL RESTORATION PROJECTS





乡村振兴,大尺度环境生态多样性规划类



#### 项目规模

长坋溪城区 3.1km 河段,工程上游起始点为 西环北路与长坋溪交叉处,下游结束点为长坋 溪与东环中路交接处。

#### 任务分解



河道蜿蜒曲直恢复的目标、内容和意义

- 上位目标:修复长坋溪的生态、景观和城市功能,成为城区绿网中的核心廊道。
- 工作内容:通过对河道的河床和河岸进行物理改造,恢复自然河流的蜿蜒曲直,拆除或改造部分拦河坝,使河道外观和功能趋于自然和正常,并最终使河道在城市开发环境下回归健康的状态,为水质提升、生态多样性和栖息地的建立奠定基础保障。
- 项目意义: 蜿蜒和自然的河道 水动力改善和河道自净能力提升 生态多样性增加河道及城市灵活应对极端气候变化 碳达峰与碳中和目标相一致生机勃勃的景观 公众生态教育和自然科普的场所

八个步骤, 多级校核, 打造 安全、生态、可持续的河流

流诊断流量推定

标准断 面设计

水动力模拟

水坝拆除 与改造 生态清淤 和河床改 造

生态河岸 改造

生态净化



#### TECHNICAL METHOD-GGB+

#### Changfen River Remediation and landscape project

Overall Design Concept ——

#### **Natural-Based Solutions (NbS)**

Reinventing Nature
Perceived Nature
Value Nature
Awaken people's awareness of the protection of nature



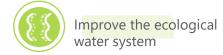
Restoring the ecological base

- Cleanliness of riverbed
- Base edge continuity
- Natural substrate



Create an ecological water bank

Eco-engineering design



- · Water replenishment
- · Sponge system design



Build a water ecosystem

- Plant community construction
- Animal food chain construction



- Eco-floating island
- Underwater forest
- Ecological dam

The Overall Design Concept ——
"Grey Green Blue+" Planning And Design
Methodology



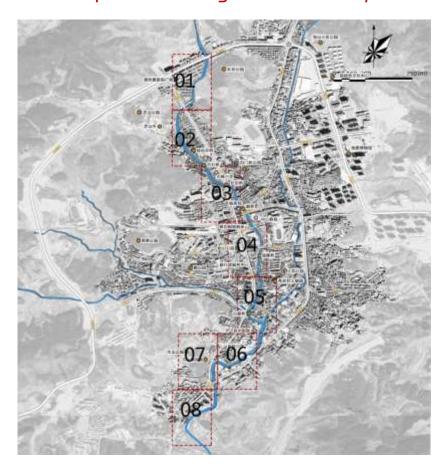


Ensuring comprehensive and efficient source

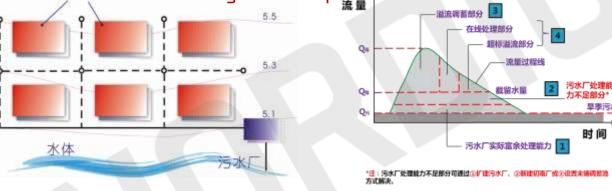
control and sewage interception

#### TECHNICAL APPROACH

Repair of sewage collection system: "source control and sewage interception"



The newly-added branch pipe of domestic sewage system is connected to the branch pipe network





Making full use of the terrain and adopting

gravity flow as much as possible



## 长汾溪生态修复技术展示

**PRESENT** 



#### **PROJECT**



自然河床+低干扰+生物多样性

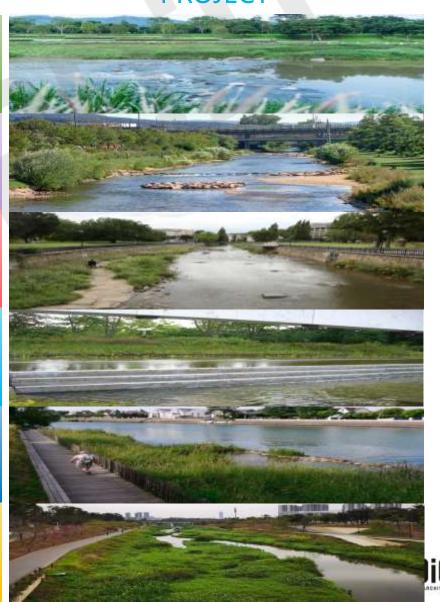
水动力+纵向优化+生物廊道

自然做工+生态修复+蜿蜒曲直+两栖

水质提升+人工&自然生境

河口缓冲+蓝绿复合+亲水视野

自然演化+低强度开发



#### TECHNICAL APPROACH

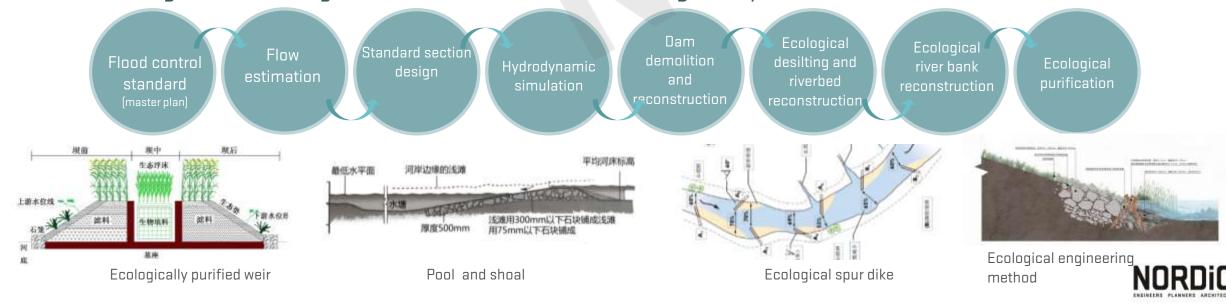


#### Restoration of Changfen River

- Standardized estimation of water conservancy and flood control
- · Scientific analysis of hydrodynamic model
- Landscape design of water system form
- Ecological hydraulic engineering method for revetment



Building a safe, ecological and sustainable river with eight steps and multi-level checks

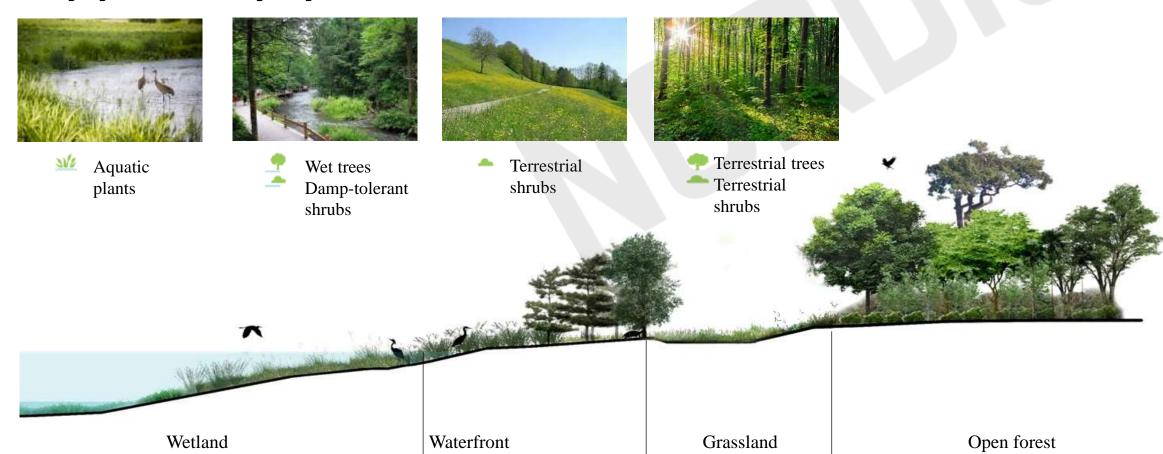


#### TECHNICAL APPROACH



#### Landscaping of Changfen River

According to different habitat bases, a variety of plant communities composed of "wet trees and shrubs, wet herbs, emergent vegetation, floating vegetation and submerged vegetation" will be formed.







### 可持续发展 UNSDG SECTORS













#### **WATER**

GROUNDWATER **MANAGEMENT** 

**CLIMATE ADAPTATION** & SPONGE SOLUTIONS

WATER RESOURCE **MANAGMENT** 

WATER SUPPLY

WASTEWATER **TREATMENT** 



#### **ENVIRONMENT**

**SOIL REMEDIATION** 

HANDLING OF CONTAMINATED BUILDING **MATERIALS** 

**ENVIRONMENTAL** IMPACT ASSESSMENT

MUNICIPAL CASE **MANGEMENT** 



### **URBAN DEVELOPMENT**

**GREY/GREEN/ BLUE CONCEPT** 

CONCEPTUAL **URBAN MASTERPLAN** 

DIGITALIZATION & **SMART CITIES** 

**CO-HOUSING FASCILITATORS** 





17 PARTHERSHIPS FOR THE GOALS









#### **STRATEGY**

STRATEGIC PLATFORM DEVELOPMENT

ANALYSIS & RESEARCH

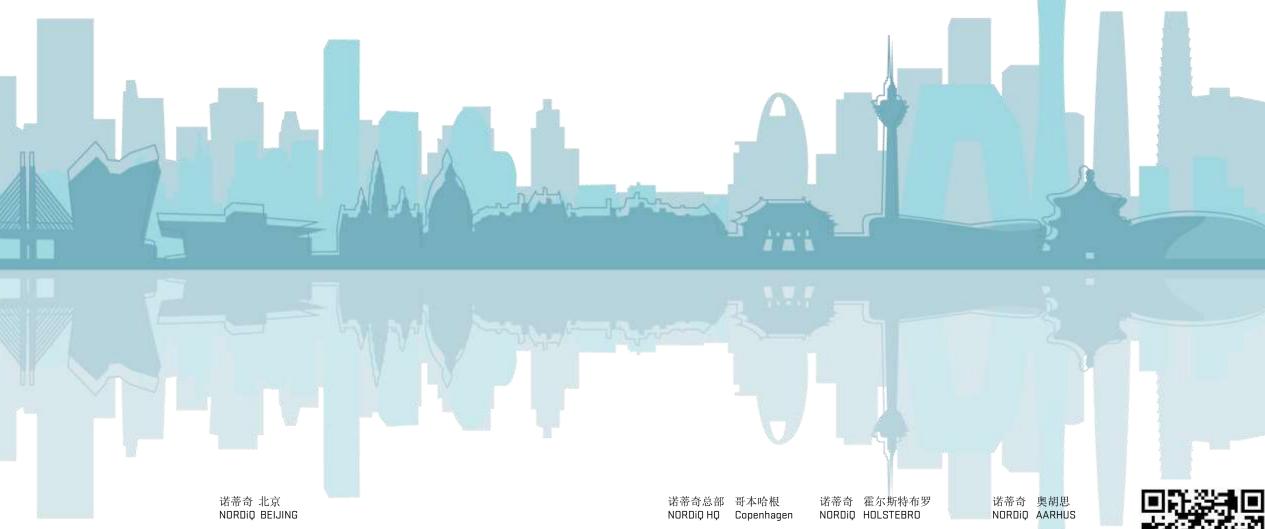
**CO-CREATION PROCESSES** 

**TECHNICAL PROCUREMENT** CONSULTANCY

**KEY NOTE SPEAKERS/ WORKSHOP FASCILITATORS** 







谢谢!

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