Integrating landscape as an urban infrastructure broadening functional possibilities with reviewing the planning framework of Changxing, China

Student: Lijun Yang (E180348)
kushabeiremail@gmail.com / L.J-4@student.tudelft.nl

Monitor team:
Prof. Chien I Liu
PhD. candidate members:
Dr. Philip Koppels
Complex Cities Studio
Department Architecture Faculty of Architecture, TU Delft
Integrating landscape as an urban infrastructure broadening functional possibilities with reviewing the planning framework of Changxing, China.

**METHODOLOGY FLOW**

- **P1** CONCEPT
- **P2** PROBLEM STATEMENT
  - Site Diagnosis: Local & urban-rural transition areas of Changxing, environmental and socio-economic issues
  - RESEARCH QUESTION: How to integrate landscape into urbanism?
- **P3** SCENARIO DISCUSSION
  - Planning Principles & Vision: Integration, Production, Public
  - Planning Framework: Landscapes, Infrastructures, Publics, Industry & Agriculture, Energy & Resources, Local Manufactory
- **P4** DESIGN FRAMEWORK: Group concept based interaction
- **P5** EVALUATION: Collection of context through the comparison of current to the future planning framework

**CURRENT GOVERNMENT'S PLAN**

- **Urban & Rural Development**
  - Rural Development
  - Infrastructural Landscape - Road Network
  - URBAN & RURAL DEVELOPMENT
  - RURAL DEVELOPMENT
  - INFRASTRUCTURAL LANDSCAPE - ROAD NETWORK

**LOCAL NEED/POTENTIAL**

- **EXTENDING URBAN AREA**
  - Dynamic Delta Environment
  - Landscape into Urbanism

**URBANIZATION DEMAND**

- **EXTENDING VILLAGES**
  - existing cannel
  - potential transition area
  - existing local main road
  - subsidiary industry

**WETLAND**

- **EXTENDED WATER AREA**
  - extended/widen cannel
  - existing cannel
  - potential fishing and aquaculture
  - potential horticulture/field and nursery planting/field

**ORANGE PLANTATION/FIELD**

- **NORMAL FARMLAND**
  - potential/field and nursery planting/field
  - orange plantation/field

**HABITATION/WORKING SERVICES**

- **SUBSIDIARY TOWN**
  - industry island
  - subsidiary town
  - industry island
  - urban island
  - metropolitan park

**SUBSIDIARY TOWN**

- **AGRICULTURAL ISLAND**
  - reorganized urban area
  - extending urban area
  - reorganized urban area
  - extending urban area

**RECREATIONAL WORKING SERVICES**

- **URBANIZED ISLAND**
  - main sluice/pump
  - soft-material dyke
  - solar energy
  - wind energy

**MAJOR ON UPGRADING**

- **METRODUCING URBANIZATION**
  - large industry
  - housing and basic landscape process and build up conservation certain and productive condition to production/field,
  - regional-oriented landscape production/field,
  - urban facilities & services
  - major on upgrading urban facilities & services

**HISTORICAL PROCESS**

- **CURRENT PROCESS**
  - development of ship-industry and related services & research
  - organize local water network and green space
  - reorganized urban area
  - extending urban area
  - reorganized urban area
  - extending urban area
  - organize and develop local water transport network and facilities
  - implement bus line and bicycle routes

**FUTURE PROCESS**

- **SHORT TERM**
  - implement upgrading agriculture programs
  - develop regional cooperation on tourism, cultural, and education programs
  - organize conservation boundary for natural resources and habitats

**COMMIT**

- **URBAN & RURAL DEVELOPMENT**
  - integrate, resilience, multi-scale decision-making negotiation framework
  - spatial planning framework
  - land use development for Changxing's landscape

**FLEXIBLE PHASING**

- **MULTI-SCALE CoORDINATION**