Yuen Long South Development
Project Background

Existing Conditions at Yuen Long South

Potential Development Area
Project Background

Planning & Urban Design Principles:

• Creating an Urban to Rural Experience
• View Corridors and breezeways
• Creating open space and green network
• Providing major focal points and key activities spine
• Revitalization of nullahs
# Development Proposals

## General

<table>
<thead>
<tr>
<th>Potential Development Area</th>
<th>about 223 ha</th>
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<tbody>
<tr>
<td>Development Area</td>
<td>about 183 ha</td>
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## Providing Housing Supply

<table>
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<tr>
<th>Total Population</th>
<th>about 85,000</th>
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<tr>
<td>No. of New Flats</td>
<td>about 27,700</td>
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## Supporting Local Economy

| Job Opportunities         | about 10,800 |

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Recommended Outline Development Plan
Key Challenges on Water Management

- Conflicting traffic and flood protection requirements
- Potential drainage impacts from development
- Inadequate existing sewerage infrastructure
- Requirement of sewage effluent discharge to the downstream Deep Bay
Smart Green Resilient Approach to Water Management
General Approach

• Smart Green Resilient concept
• Holistic water cycle management
• Application of “Blue-Green infrastructure”
• Revitalization of water bodies
Smart Use of Existing Concrete-Lined Nullah

• Partial decking and revitalization of existing nullah
• Address road safety, meet future traffic needs and enhance pedestrian connectivity
• Form an aesthetically pleasant viewing corridor
• Compensate hydraulic capacity by new box culverts
• Key Activity Nodes next to the re-vitalized nullah
Smart Use of Existing Concrete-Lined Nullah (continued)

Partial decking of nullah

Nullah revitalization

Existing
Green and Sustainable Use of Treated Sewage Effluent

• Some 23,000 m³/day sewage will be generated

• New sewage conveyance & treatment facilities will be provided

• New Sewage Treatment Works (STW)
  • Tertiary treatment standard
  • Effluent reused for toilet flushing, landscaping irrigation and make-up for water features
  • A site next to STW may be developed into a reedbed wetland for effluent polishing
Building Resilience with Stormwater Retention Facilities

- Multiple functional stormwater retention facilities, comprise of:
  - 1km long hillside river
  - 0.6 ha retention lake
Conclusions

• Planning of Yuen long South Development aims to create a sustainable, green and livable community for accommodating about 85,000 population.

• Smart green resilient approach has been applied to the holistic planning and design of development water infrastructure.

• Adequate space has been planned for various water infrastructure.
Thank you