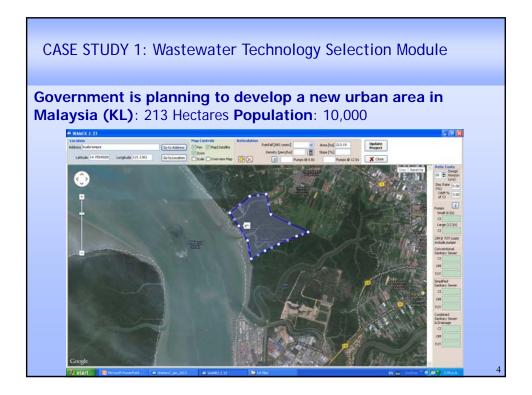
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CASE STUDY 1: Wastewater Technology Selection Module

Step 1: set up a new project!

Urban area in Malaysia (KL): 213 Hectares

Population: 10,000

Design Horizon: 20 years; O&M as % of CI: 3%; Discount Rate: 5%



Step 2: define WW characteristics!

Wastewater source/characterisation options considered: Sanitary Sewerage 100 l/p/d, 550, 100, 60, 5, 200

20

CASE STUDY 1: Wastewater Technology Selection Module

Step 3: evaluate technology options!

Factors for consideration of technology options:

1: Efficiency (Coliform Removal, Sludge Generation),

2: Shock Resistance (Flow, Toxicity),

3: Economy (Energy);

Try different combinations of weights in order to check "sensitivity" of technologies;

CASE STUDY 1: Wastewater Technology Selection Module

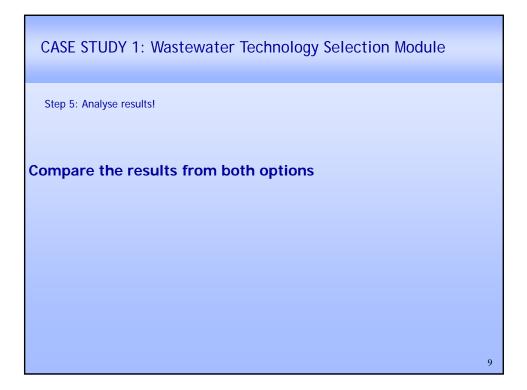
Step 4: Evaluate new scenario!

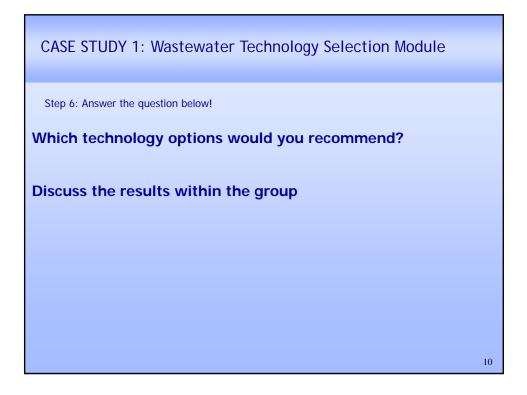
Government may adopt Singaporean Stds in the future Design Horizon: 20 years; O&M as % of CI: 3%; Discount Rate: 5%

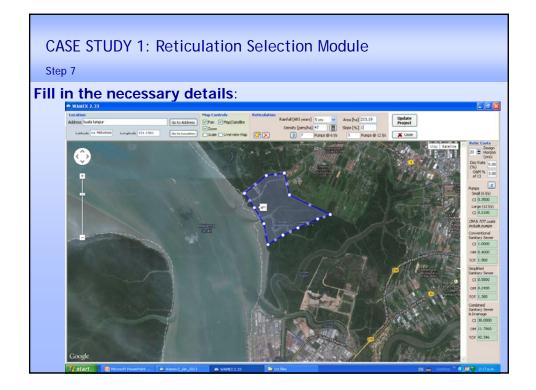
Factors for consideration of technology options: <u>1: Efficiency</u> (Coliform Removal, Sludge Generation), <u>2: Shock Resistance</u> (Flow, Toxicity), <u>3: Economy</u> (Energy);

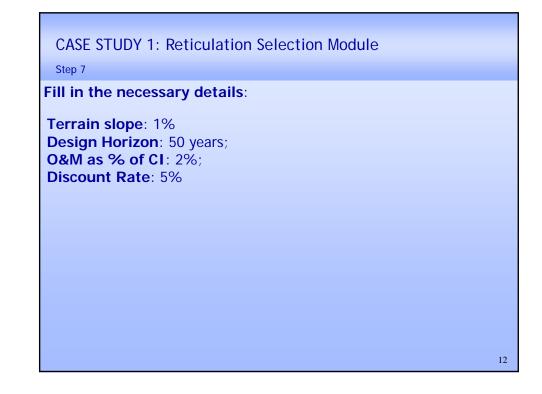
Try different combinations of weights in order to check "sensitivity" of technologies;

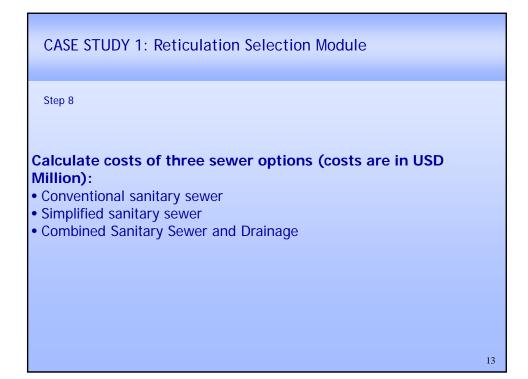
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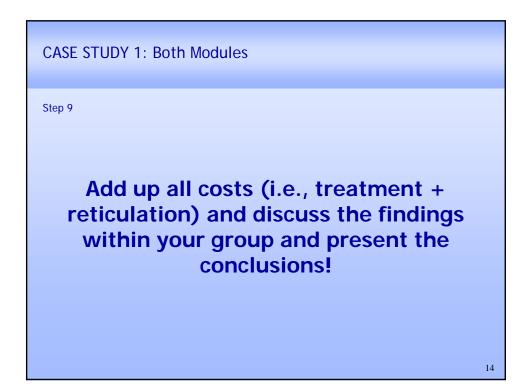




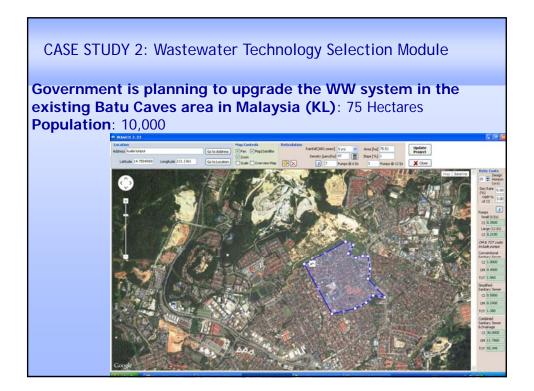




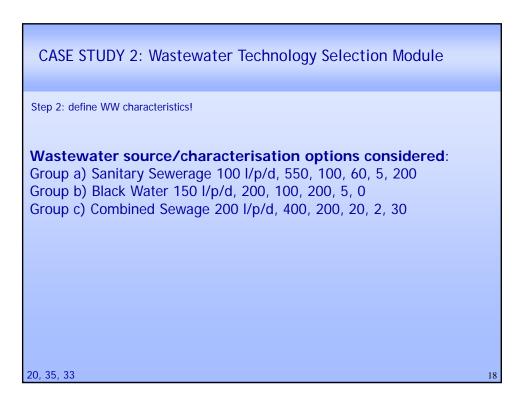












CASE STUDY 2: Wastewater Technology Selection Module

Step 3: evaluate technology options!

Factors for consideration of technology options:

- 1: Efficiency (Coliform Removal, Sludge Generation),
- 2: Shock Resistance (Flow, Toxicity),

3: Economy (Energy);

Try different combinations of weights in order to check "sensitivity" of technologies;

CASE STUDY 2: Wastewater Technology Selection Module

Step 4: Evaluate new scenario!

Government may adopt Singaporean Stds in the future Design Horizon: 20 years; O&M as % of CI: 3%; Discount Rate: 5%

Factors for consideration of technology options: <u>1: Efficiency</u> (Coliform Removal, Sludge Generation), <u>2: Shock Resistance</u> (Flow, Toxicity), <u>3: Economy</u> (Energy);

Try different combinations of weights in order to check "sensitivity" of technologies;

6, 8, 13

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