

City shaping platform Solutions platform

Chris Chesterfield
CRC for Water Sensitive Cities

26-28 March 2019



Towards facilitating platforms

Transitions
Platform

Developing a common system understanding, shared vision, targets, priority strategies and actions for driving a city's WSC transition

Different users will have different entry points



Exploring, evaluating and delivering urban development and water servicing options that will achieve on-ground outcomes to realise the WSC vision



Analysing specific sites, and evaluating and designing context-specific solutions that will support WSC outcomes





City shaping platform







Aim

Explore, evaluate and deliver urban development and water servicing options that will achieve onground outcomes to realise the WSC vision

Analyse specific sites, and evaluate context-specific solutions that will support WSC outcomes

Scale

Sub-catchment

Precinct, Streetscape

Users can...

- Explore different development scenarios that embed water sensitivity in the urban form
- Analyse the performance of different water sensitive servicing options
- Evaluate the costs and benefits of alternative development scenarios and servicing options
- Explore adaptive policy options

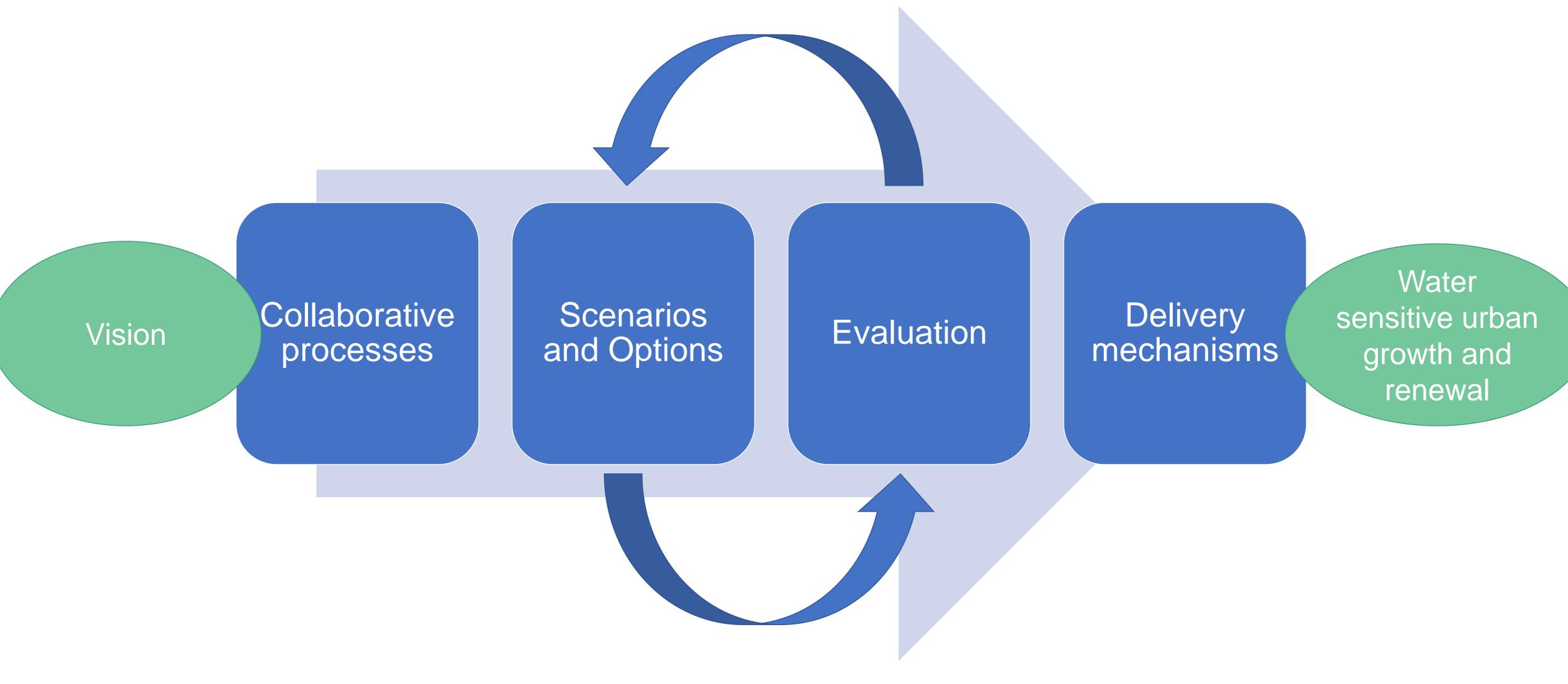
End-user outputs

- Servicing strategy
- A business case for water sensitive development
- Urban forest strategy
- Heat vulnerability maps

- Performance evaluations
- Water mass balance
- Residential development typologies
- Benefit-cost

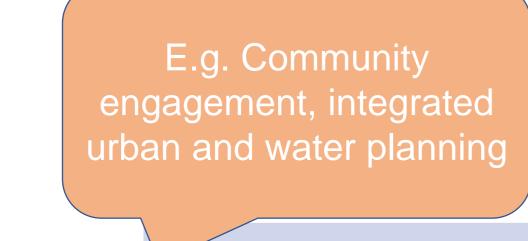


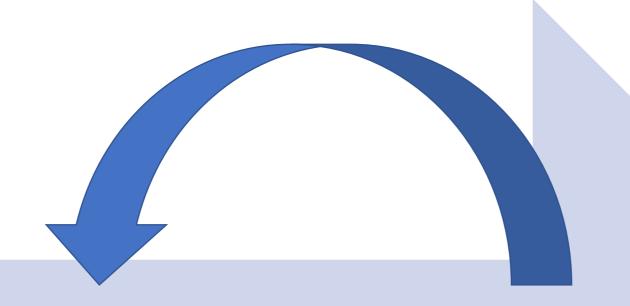












Vision Collaborative processes

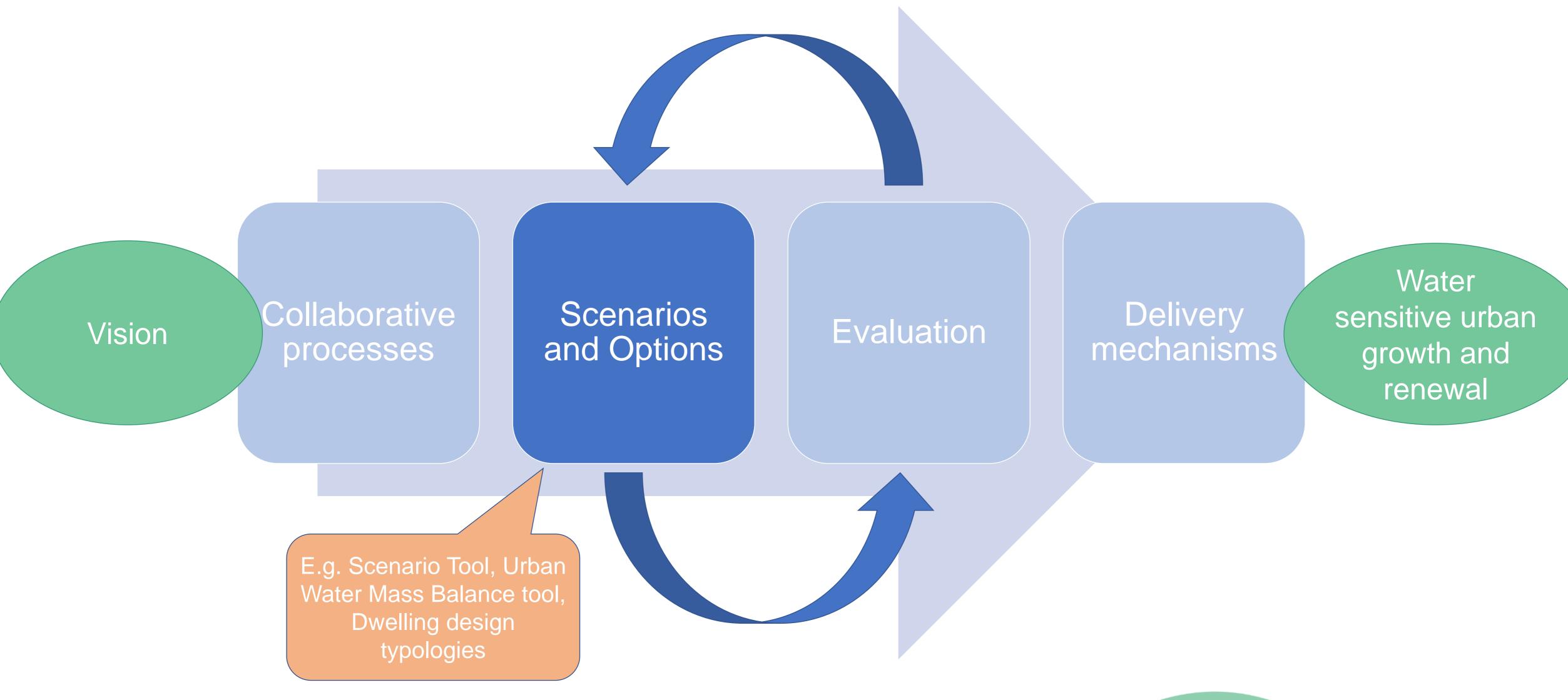
Scenarios and Options

Evaluation

Delivery mechanisms Water sensitive urban growth and renewal

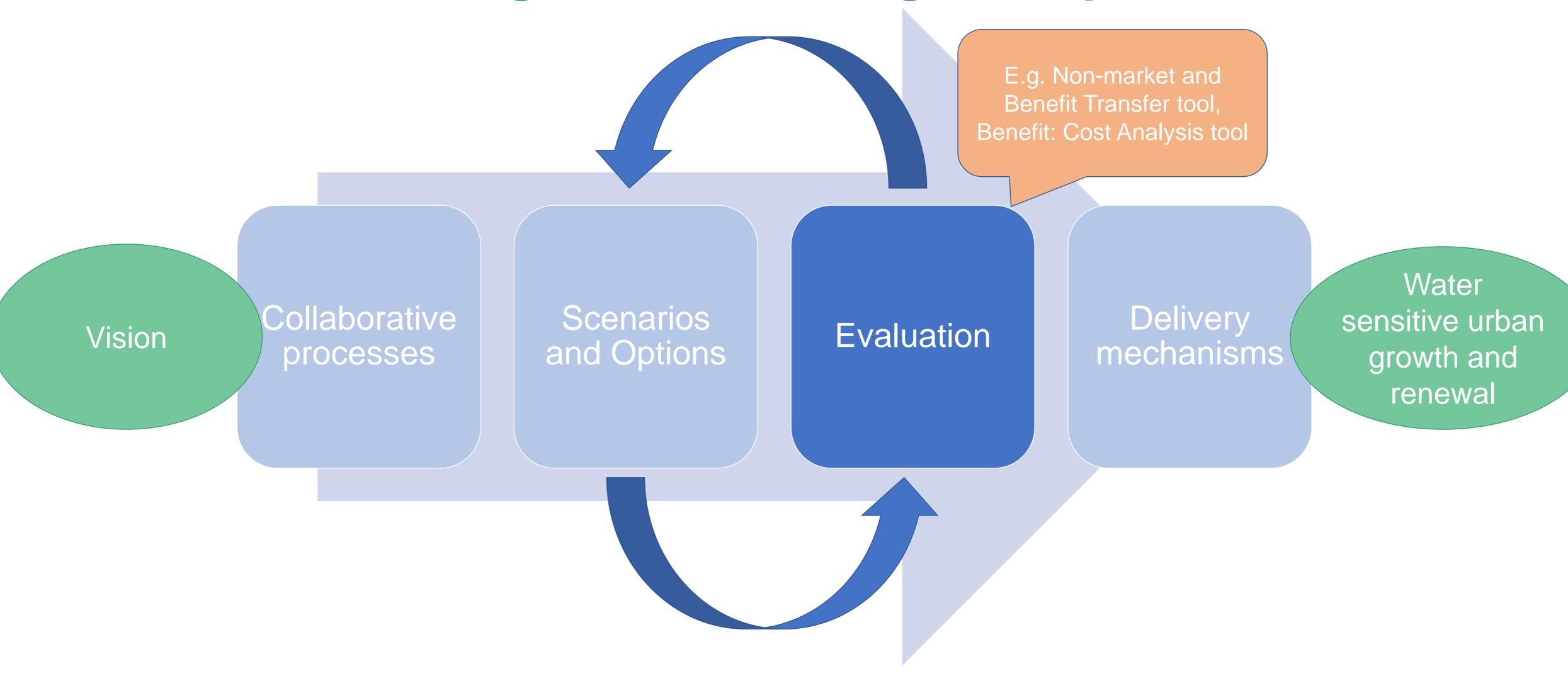






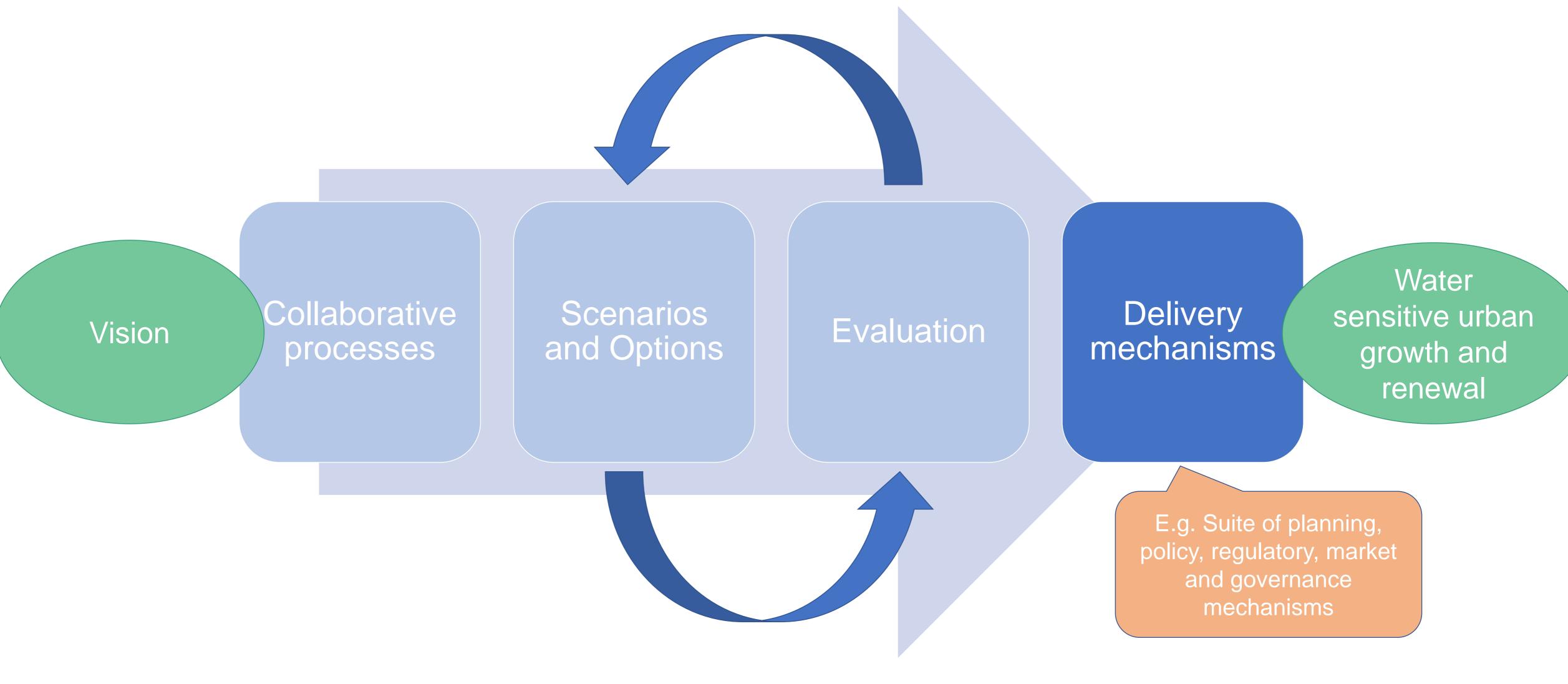
















Components of the City shaping and Solutions platforms

Tools

Scenario Tool

Non-market and Benefit Transfer Tool

Benefit: Cost Analysis
Tool

Urban Water Mass Balance Tool

Visualisation Tool

Design typologies

Data

Land use and land cover

Demographics

Rainfall forecasting

Evapotranspiration

Infrastructure networks

Collaborative processes

Integrated urban and water planning

Research Synthesis

Action planning

Comprehensive economic evaluation

Knowledge

Non-market values, Willingness to pay values

Urban growth scenarios

Governance structures and strategies

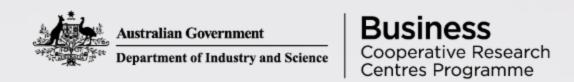
Risk assessments











City shaping platform Solutions platform

Chris Chesterfield
CRC for Water Sensitive Cities

26-28 March 2019

