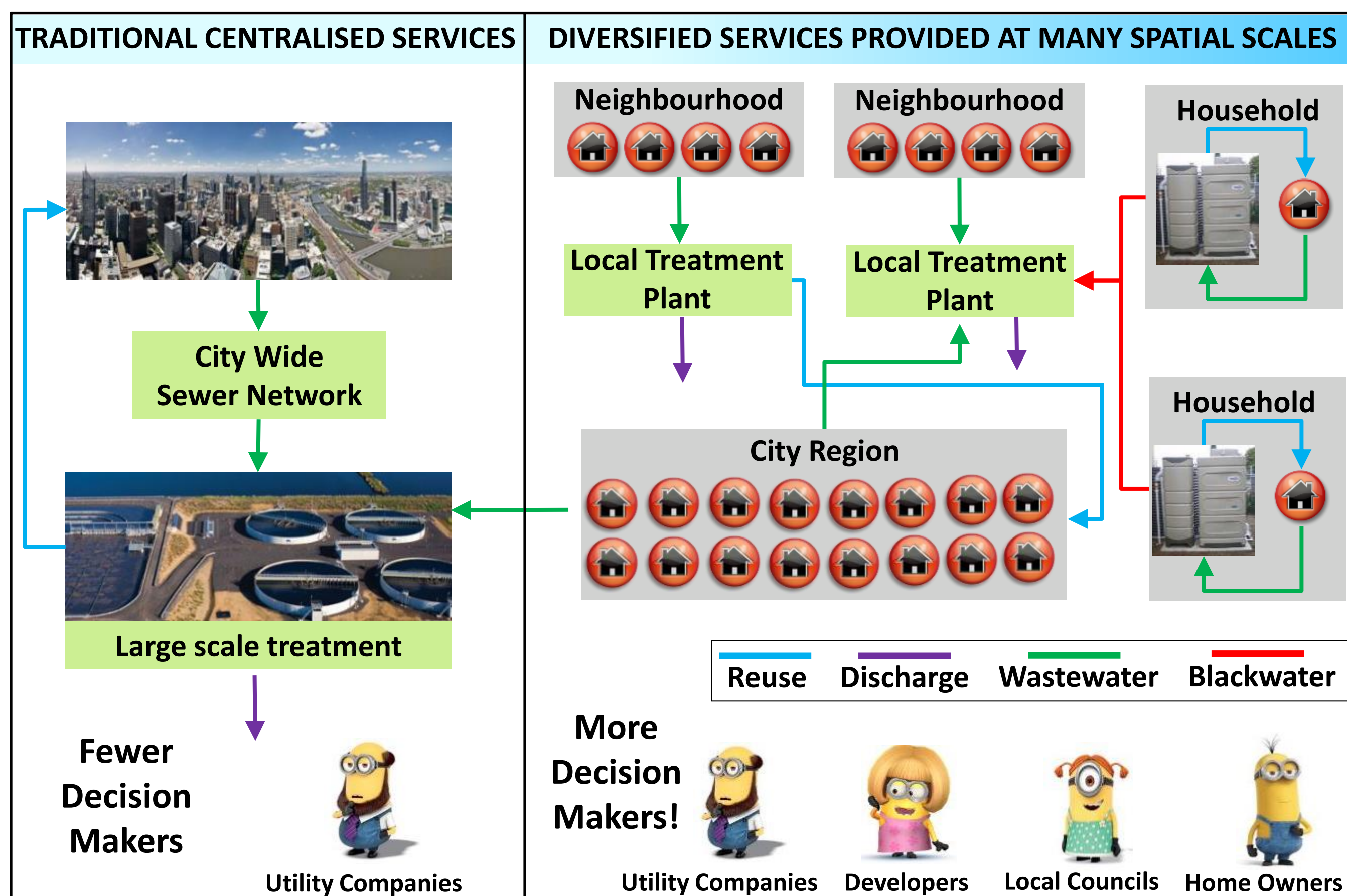




Tapping into Localised Wastewater Reuse

What are the effects of providing local scale wastewater treatment and reuse services and how can they be better understood?



Shift from traditional services to wastewater management strategies that use tools at many spatial scales to achieve city wide objectives

Challenges for Long Term Planning

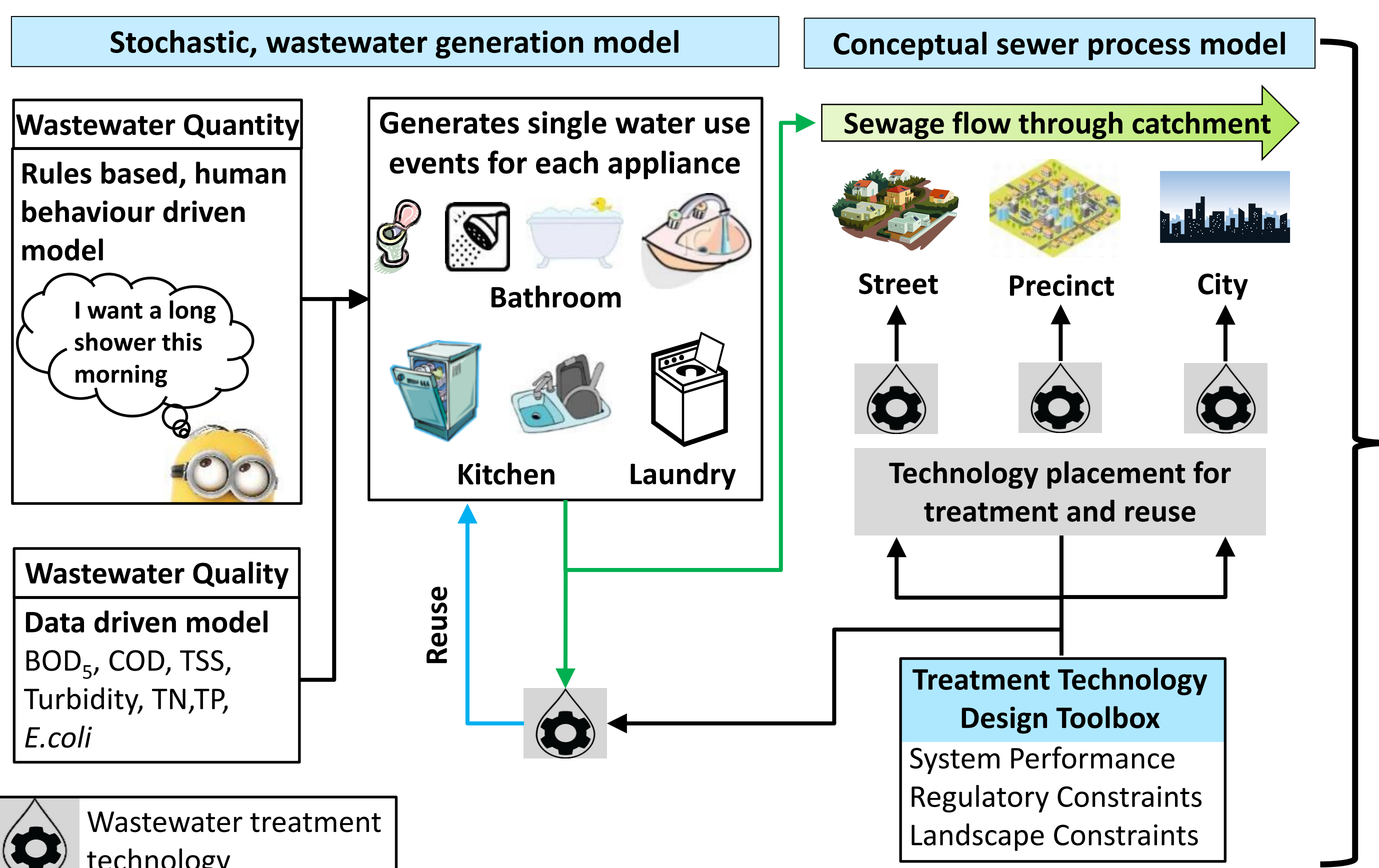
1. **More people making decisions** on when and how wastewater is treated for recycling or discharge.
2. **More choices** in how we set up long term wastewater management strategies for a city.
3. **More upstream influences.** For example:
 - Changes in how people use water; AND
 - Use of local wastewater treatment and recycling technologies.

This WILL impact the performance of our sewers and influence the types of treatment infrastructure we use downstream.

WE need tools to allow for better scenario analysis of wastewater management strategies.

Wastewater Management Support Model

How will it work?



Model Features:

1. **Create and test the performance of many wastewater treatment and recycling scenarios.**
 - Test different regulatory conditions set by decision makers.
 - Test influence of upstream water use behaviour and appliance efficiency.
 - Test impact of household treatment and recycling systems on downstream technologies.
2. **Uses an iterative approach** – implement changes (e.g. technology uptake) and observe changes (e.g. sewage pollution characteristics) **over time**.
3. **Identify pathways** to achieve diversified wastewater management strategies while still **maintaining service requirements**.