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Water Sensitive Urbanism
Project 4.2: Socio-Technical Flood Resilience

What is the optimum trade-off for our wetlands?

Since European settlement over 80% of the Swan Coastal Plain wetlands have been lost. The growth of Perth jeopardises the ecosystem functioning of remaining urban wetlands. Ecosystem functions are trade-offs in decision making. However, the optimum situation to meet all functions is not fully understood. Conditions for an optimum situation depend on governmental level; the scale of policies and regulations; physical infrastructure; biophysical environment; and socio-economical boundaries of stakeholders. The adaptable approach (Figure 1) could enhance urban wetland ecosystem services by determining the optimum balance between socio-economic and environmental trade-offs (Figure 2).

What is your priority?

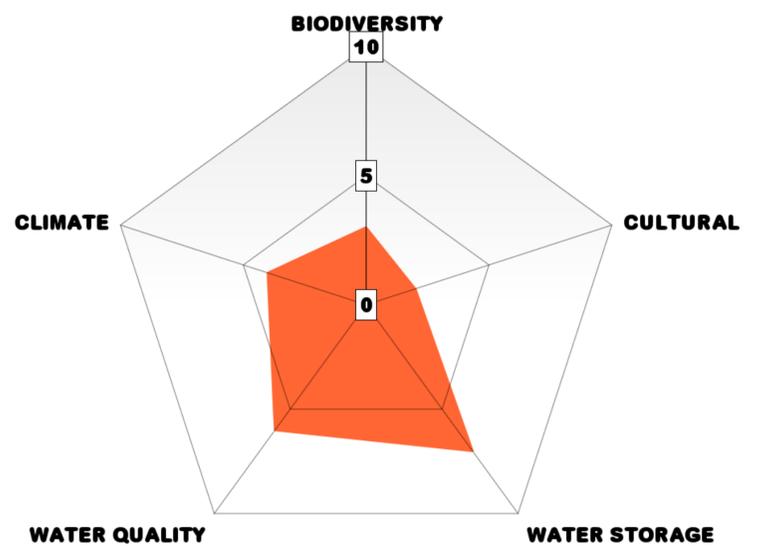


Figure 2: Wetland trade-offs

What is the relevant scale for policy, legislation, hydrology, and urban wetland ecosystems?

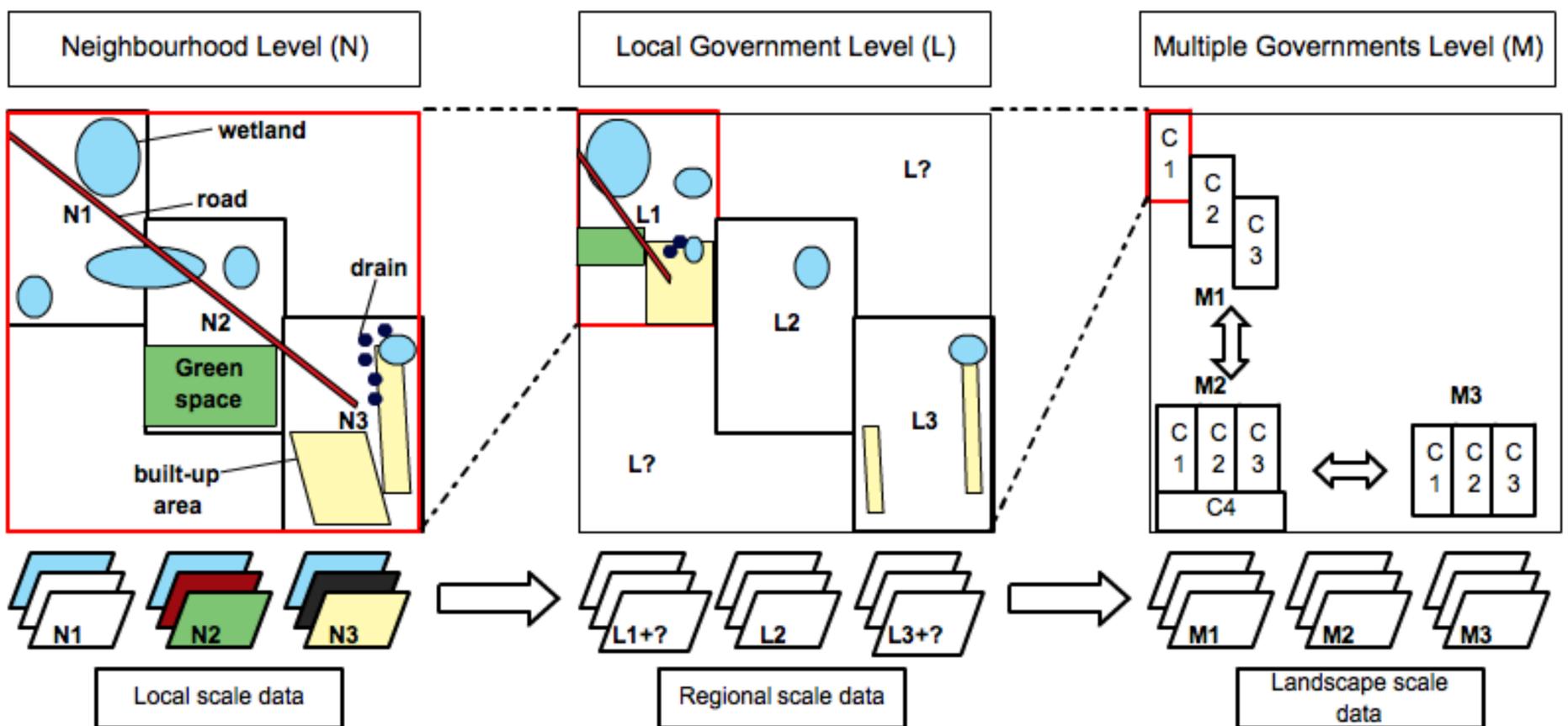


Figure 1: Methodology framework which combines local data sets from various locations in a catchment area and represented across multiple scales (local, regional, landscape) and levels (N, L, M).

