

# Integrated Research Project 3 (IRP3)

## Evidence-based integrated urban planning across different scales

7<sup>th</sup> February 2017 Workshop synthesis notes

### Key considerations:

- Drivers are similar across all regions & scales, but priority of individual drivers is location specific
- Key drivers include:
  - Climate – flooding, water security, urban heat
  - Waterway & catchment health
  - Human health, amenity, liveability/lifestyle
  - Utility efficiency
  - Improved asset values
- Need to set specific performance targets/indicators for above drivers
- Need methods/approaches to improve implementation also within current policy/regulatory framework
- Develop and test at appropriate scale & timeline for effective impact – develop criteria and performance targets at e.g. catchment scale, 3-4 municipalities, 3-4 utilities
- Vertical integration of institutions/authorities; horizontal integration of assets/technologies

### Key outputs

- **Governance structure** – framework collectively owned across agencies to enable integrated, collaborative planning
- **Methodologies/strategies** to integrate with current or influence emerging policy settings and incentivise actual implementation
- **Performance targets** (at catchment level) & regulatory framework for implementation
- **Demonstration projects** as a testbed for cost benefits assessment and tool for communication & adoption

### Approach and expertise

- **Integration** of different disciplines/professions is essential to achieve desired outputs
- **Project** structure possibly similar to IRP1 with most of core project activities being **undertaken through 'Case studies'** that serve both as development/testing platforms for outputs and as demonstration projects with direct impact and influence.
- **Key expertise** areas required:
  - Planning at all scales/organisations (State Govt, Local Govt, Utilities, etc.)
  - Governance/regulatory/legal
  - Infrastructure/asset management
  - Landscape design/architecture (link with IRP4?)
  - Ecology and environmental management
  - Community engagement (link with IRP1?)
  - Economics (link with IRP2)
  - Land-use/catchment/water balance modelling (link with TAPs)

## Possible/nominated Case studies

- VIC Dandenong Creek:** whole-of-catchment planning, greenfield and in-fill, waterway health and green space use; infrastructure upgrades coordination; amenity/liveability; reduce stormwater pollution, created habitats for native fish; upgrade sewer network to control spills  
**Monash National Employment Cluster:** commercial/residential/educational (possibly move to IRP4)
- SA Greenhill Precinct:** Infill; on Transport route; commercial/residential (multiple use) development; adjacent southern parkland; water balance issues; alternate water available (Glenelg-Adelaide pipeline); stormwater harvesting at source, highly impervious sites (90%) (possibly joint with or move to IRP4)  
**Brownhill-Creswick** creek catchment: Metro Adelaide (possibly linked to Cooks River)
- WA Brabham:** Greenfield, sub-catchment scale, no water supply, high groundwater issues, swampy land in winter  
**Central Region Planning Framework: Regional Water management strategy:** infrastructure planning and delivery for infill; optimise water, wastewater & stormwater for future community; delivering multiple benefits: health, environmental, etc.;
- NSW Cooks River** catchment: Inner City West (possibly linked to Brownhill-Creswick)
- QLD Oxley Creek:** Industrial/residential, visioning, partial green/brownfield/infill; flood affected  
**Norman Creek:** Brisbane City Council; opportunity to take it to next stage; overland flows; (possibly joint with or move to IRP4)