



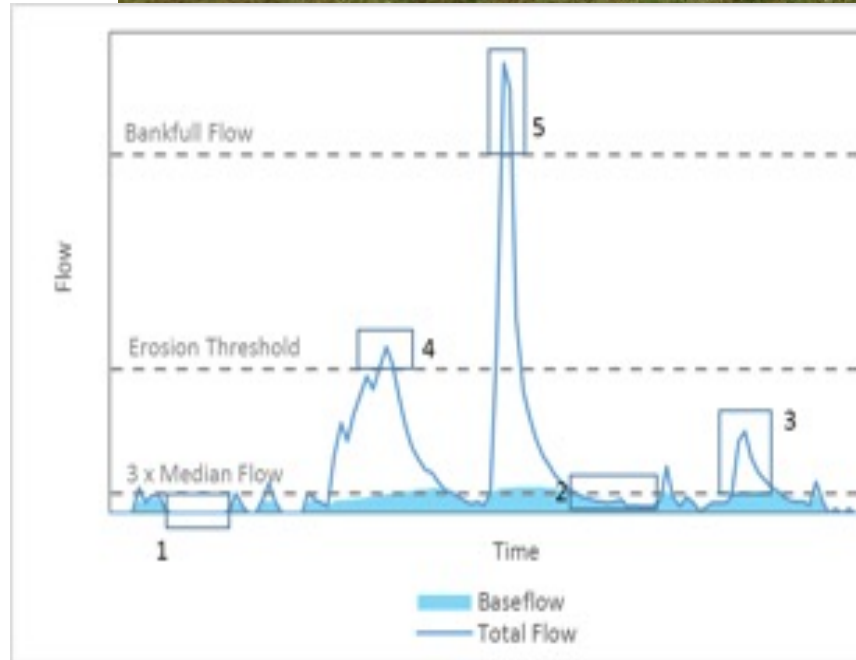
# Setting urban streamflow targets

## *Quantification and application*

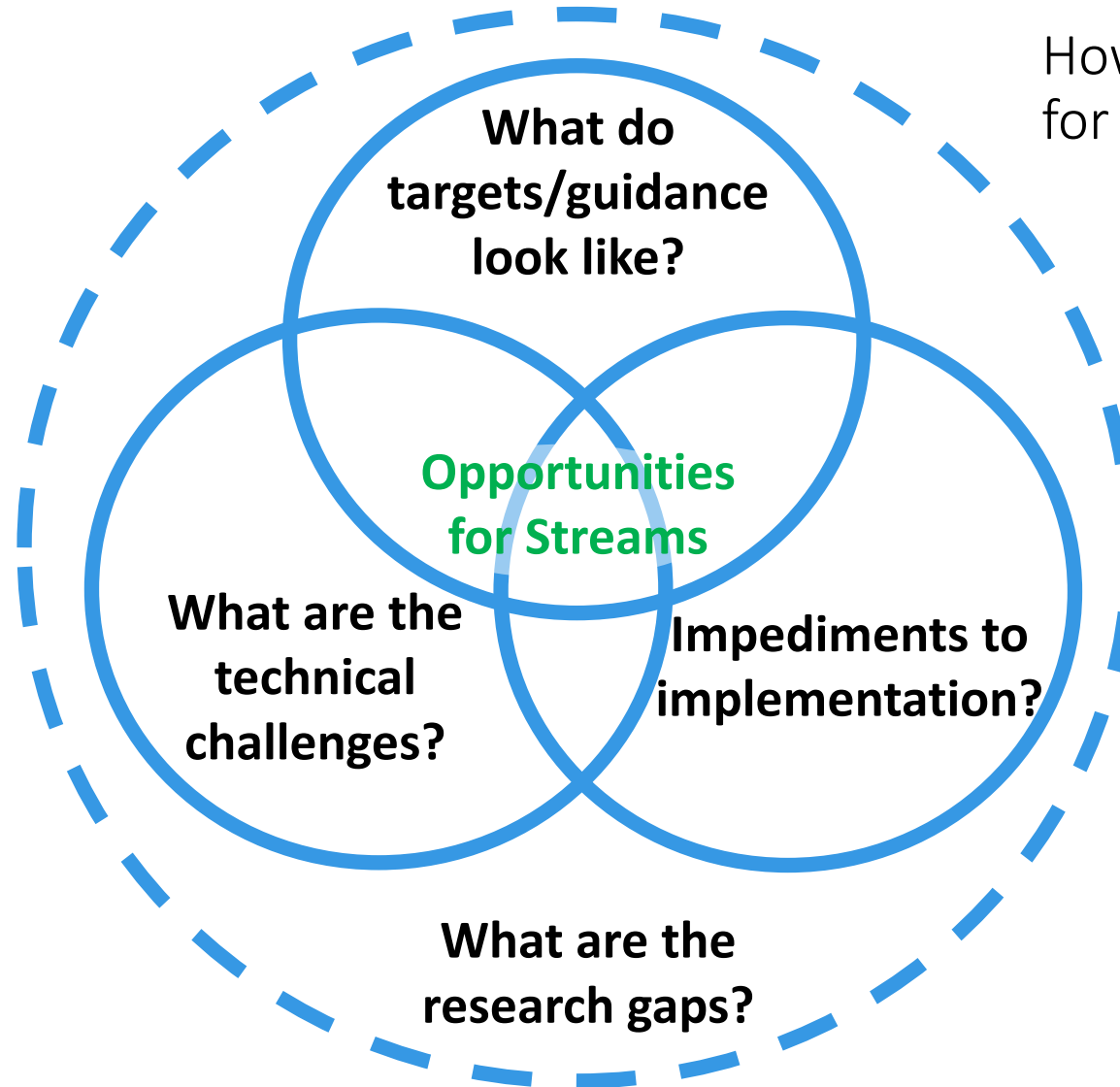
*Led by Geoff Vietz and Kira Woods*



# Urban streamflow targets provide an explicit link between development and waterway values



# Urban streamflow targets/stormwater targets



How do we maintain momentum for implementation?

# Questions for our workshop:

1. What are the research gaps?
  2. What should stormwater targets and guidance look like? e.g. what level of detail is required?
  3. What are the impediments to implementation?  
e.g. tools, demonstration cases, capacity building, policy, guidance...
  4. What are the onground technical challenges to be better resolved? e.g. infiltration approaches, storage requirements
- What do we want to make out of this workshop?



# Participatory workshop

- Aus, NZ, Hong Kong, US
- Researchers, Consultants, Practitioners



## Attendees:

Chris Beardshaw, Dylan Cain, Tim Fletcher, Carlos Gambirazio, John Macris, Scott McKendrick, Kathy Russell, Rodney Ubrihien, Amanda Valois, Tony Webber, Ryan Winston, Yan Ling Yuen

# What should targets/guidance look like?

## Classified guidance



- Waterway type and landscape setting
- Ecological condition
- Stream needs and stressors
- Mapped dataset

## The role of visioning



- Linking to environmental values
- Linking to economic considerations
- Linking to desired social outcomes

## Types of targets



- Volume
- % impervious / effective imperviousness
- Base flow
- Flow duration curve matching
- Geomorphically relevant - e.g., erosion threshold

# What are the impediments/challenges to implementation?



## Targets and guidance

Have tools but not enough guidance to implement  
Issues of scale  
Balance of simplicity vs complexity  
Multiplicity of targets



## Politics and policy

Feasible recommendations vs regulation  
Recommendations do not equal uptake  
What's acceptable?



## Economics

Returns on investment  
Leveraging fees to maximise outcomes



## Capacity

Understanding the complexity and theory behind targets  
To appropriately implement

# What are the on ground/technical challenges?

## Type of interventions



Size relative to desired outcomes

Centralised vs distributed interventions

Different interventions for different contexts

## Policy and governance



Fragmented governance

Responsibility for maintenance

Asset ownership

Revenue generation to fund maintenance

## Knowledge gaps



Infiltration rates

How to utilise floodplain storage

## Constraints



Space limitations

Infrastructure retrofit constraints

Creating water demand where the supply exists





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## *Quantification and application*

*Further information:*

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**Make stormwater  
grate again!**

