



Making the case for more green infrastructure Planning tools for practitioners

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Green infrastructure



The urban forest



- Role of trees, vegetation & soil
- Opportunity to grow the urban forest
- Climate change adaptation

Planning for the space + conditions



Today



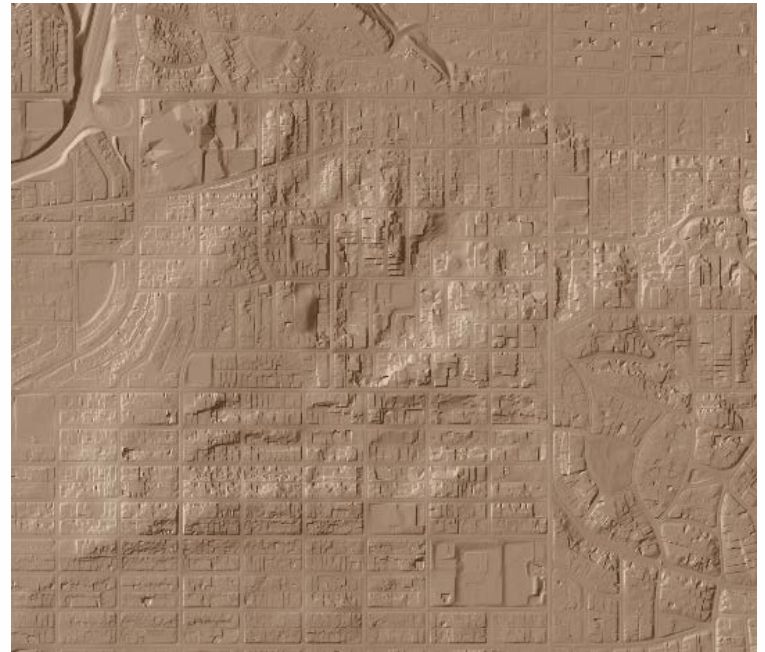
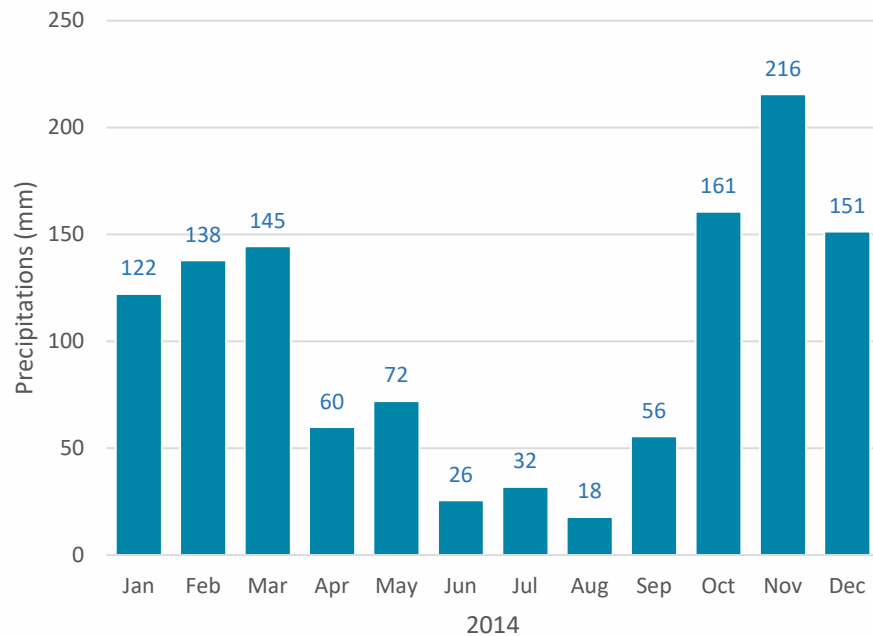
- Tools to showcase the importance of green infrastructure & target setting
 - Neighbourhood densification
 - Neighbourhood redevelopment



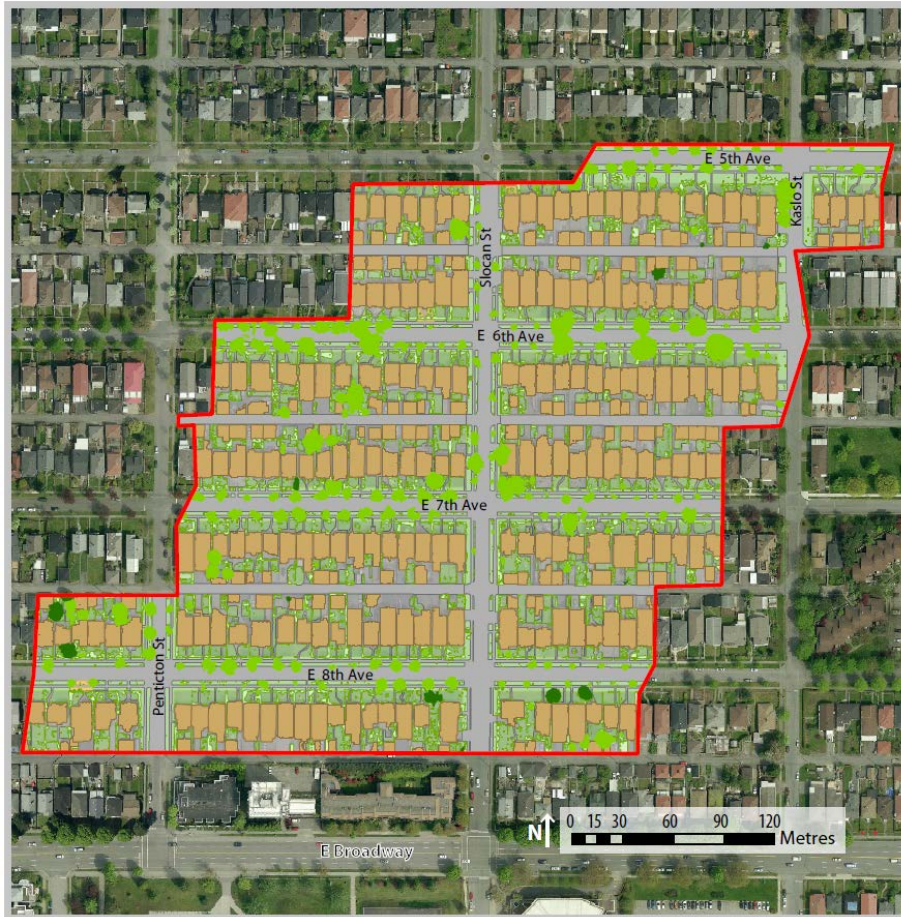
Local conditions



Climate + Topography



Neighbourhood densification



Pre-development scenarios

- Forested
- Cleared



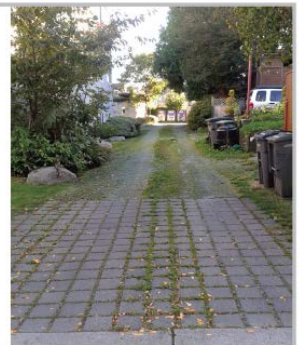
Business-as-usual scenarios

- Current
- Infill development
- Mature trees



Green Infrastructure scenarios

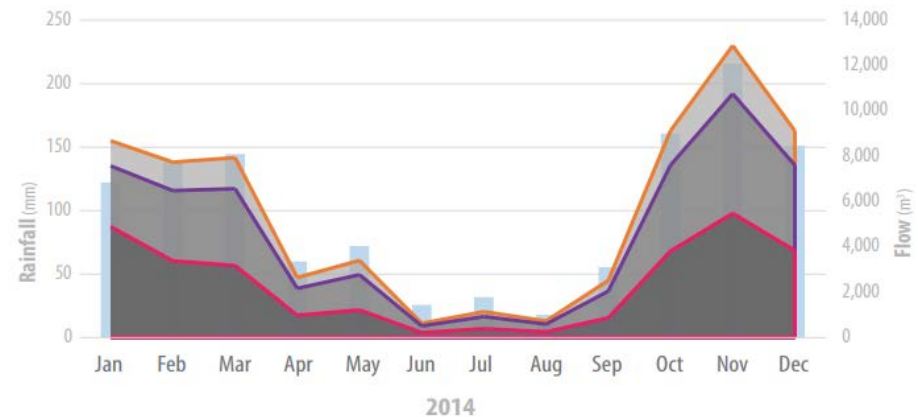
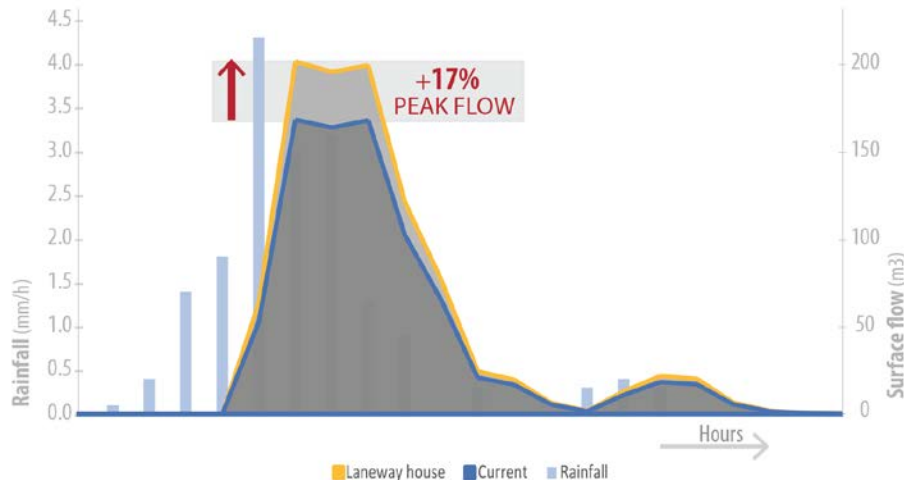
- Country lanes
- Downspout disconnections



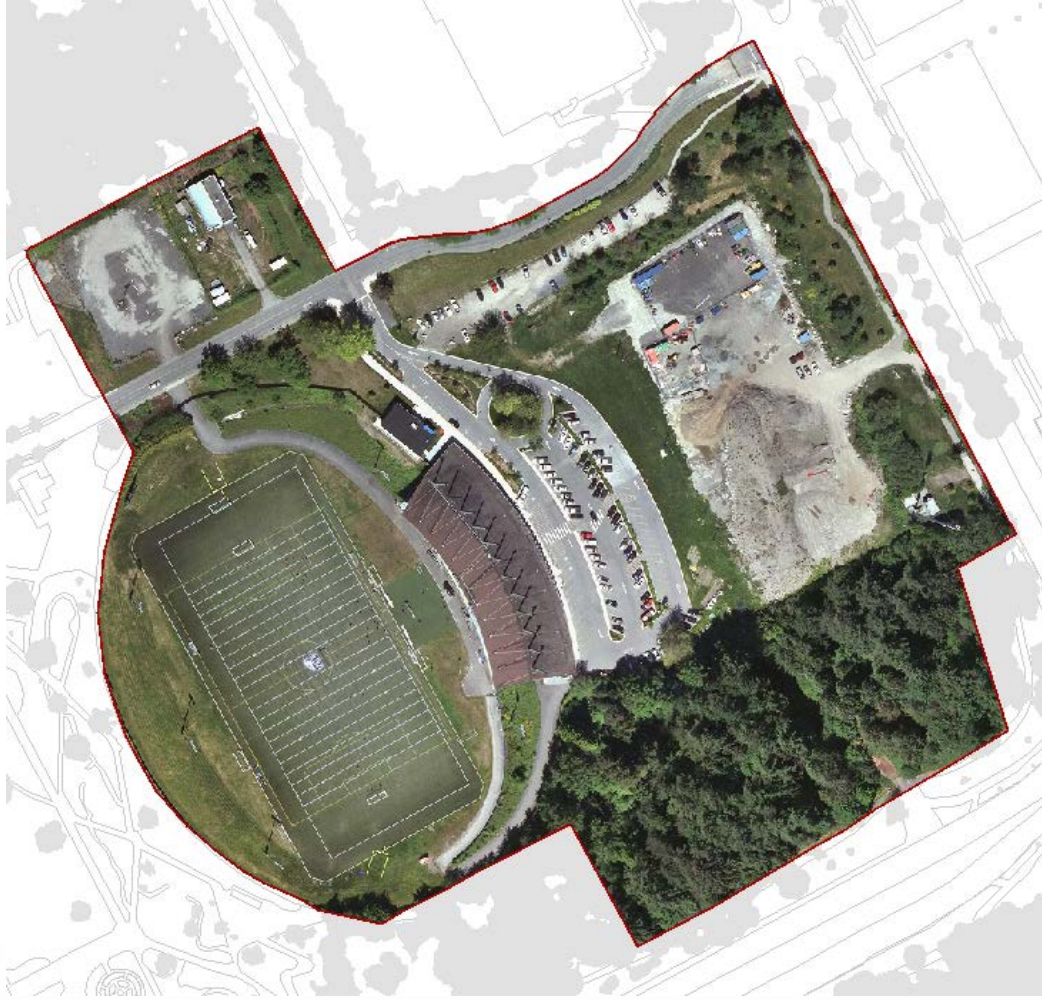
Neighbourhood densification



- Evaluating the impact of densification & local green infrastructure policies

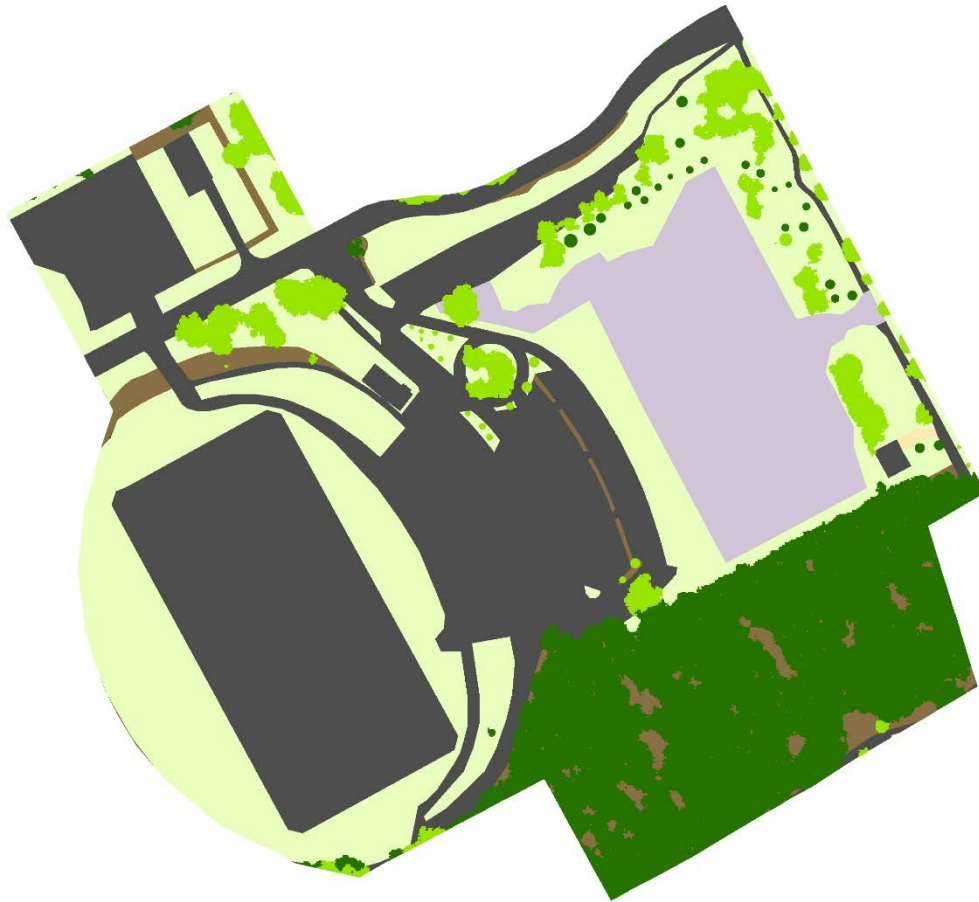


Stadium Road Neighbourhood



Stormwater runoff:
Can UBC achieve a net
zero target?

Stadium Road Neighbourhood



Stormwater runoff:
Can UBC achieve a net
zero target?

Surface

- Canopy
- Canopy
- Herbaceous
- Impervious - Directly Connected
- Impervious - Disconnected
- Shrubs
- Bare soil

Green infrastructure in the future neighbourhood



- How much relative impact do different types of green infrastructure have on neighbourhood stormwater runoff?
 - Cisterns
 - Rain gardens
 - Green roofs



Next steps: the right mix



Other tools



the partnership
for water sustainability in bc



GRAY 2 GREEN (G2G)

A decision support tool for transitioning to vegetation-based stormwater management



USF UNIVERSITY OF
SOUTH FLORIDA

UF UNIVERSITY of
FLORIDA

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In the world of urban forestry



- Opportunity to bring forward the importance of green space early in the process
- Incorporating the multiple values associated with the options