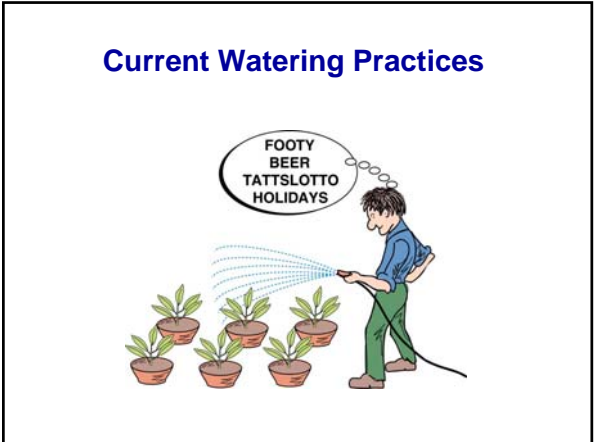


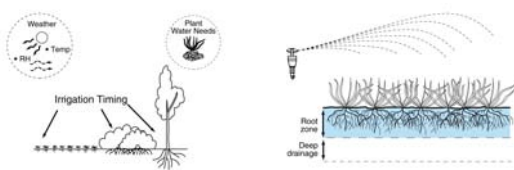
Project:
**“Household Garden Watering
 Assessment”**
 Geoff Connellan
 Smart Water Fund Round 3

SmartGardenWatering
 org.au

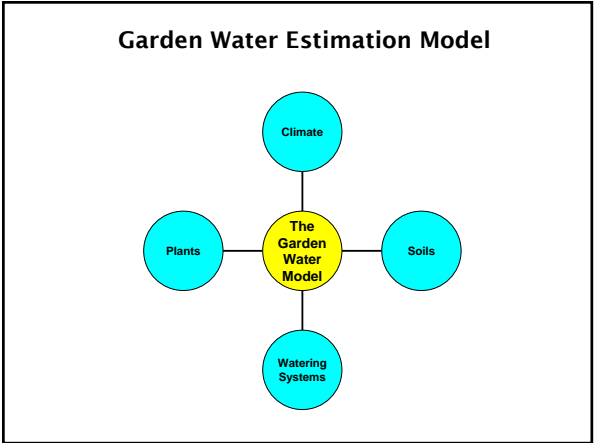
Smart Water Fund

**Precision
 Irrigation
 Scheduling**

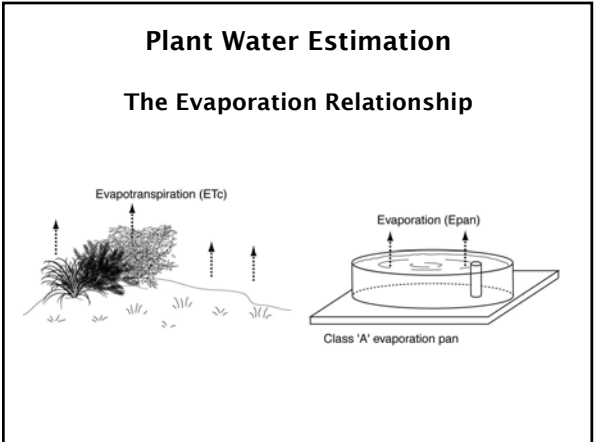


Lot of information required !



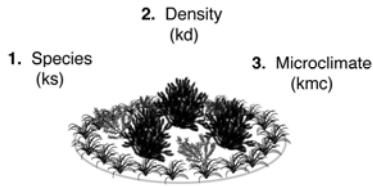
Key Elements of Project

- Plant water use estimation
- Burnley Plant Database (Existing)
- Melbourne climate zones identification
- Field trials - mulch, wetting agents, irrigation
- Algorithms
- Computer interface development



Landscape Coefficient Determination (KL)

Factors influencing water use



help glossary plant list plant details search list search details select plants modify selection retrieve all printing main menu quit

Phormium cookianum

2 plants found

Plant type: grass or grass-like plant
Evergreen or deciduous: evergreen
Cultivation: easy
Growth rate: medium

Flowers: **SIZE**
Oct: 5 years: 600 X 600mm
maturity: 0.6-1.2 X 1.2m

ORIGIN AND HABITAT
New Zealand, in a range of habitats from mountains to coastal.

PLANT TYPE AND HABIT FORM
clump-forming evergreen rhizomatous perennial herb, with arching foliage.

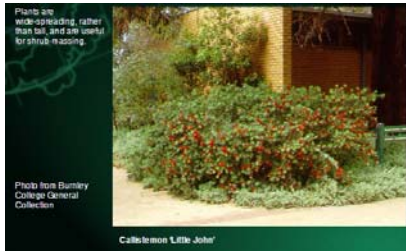
LEAVES
to 1500mm long, sword shaped, in general more lax and recurved than those of *Phormium tenax*.

FLOWERS
spikes of yellow, tubular flowers, around 30mm long, borne above the leaves.

FRUIT
capsules are similar to those of *P. tenax*, but are longer, and pendulous.

TOLERANCES
Light: sun to semi-shade
Cold: to -10°C
Wind: very good
Salt: none, water-logged
Drought: **very good**
Invasiveness: **very poor**
Competition: not known
pH: complete range

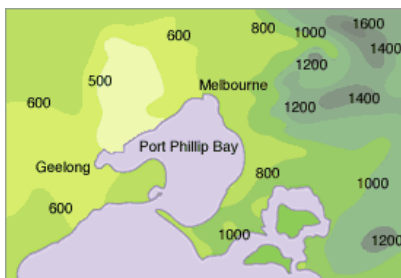
Callistemon "Little John"



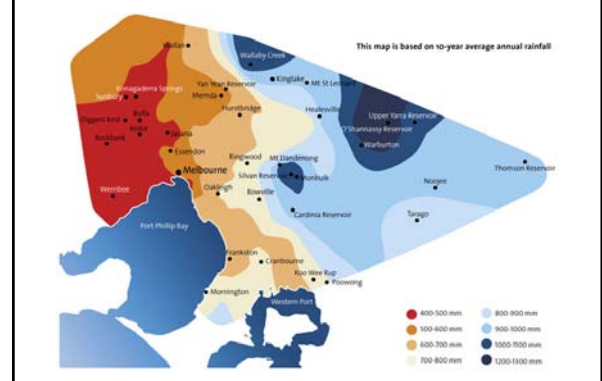
Burnley database - Drought tolerance "Moderately Good"
Plant water use category "Low"

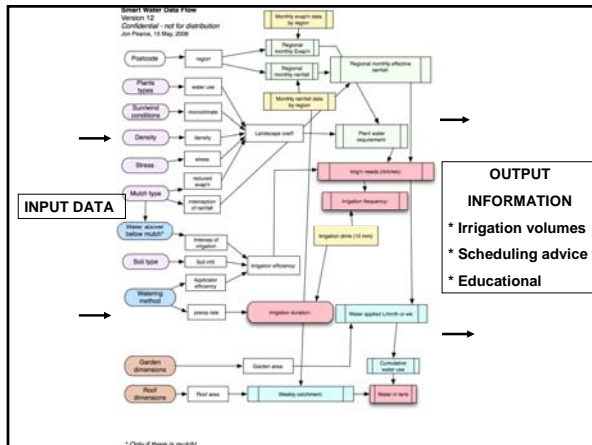
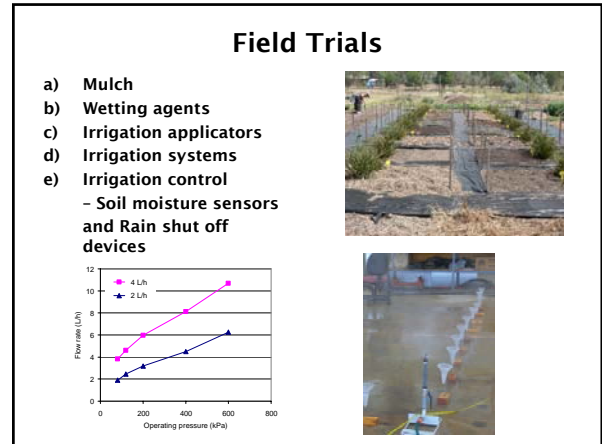
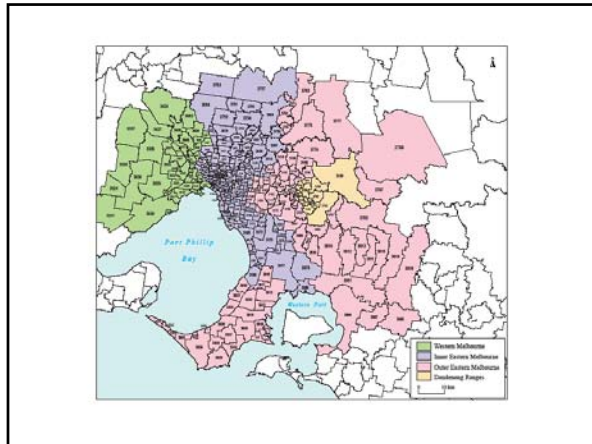
Botanical name	Common name	Drought tolerance	Crop factor
bella schottiana	Schumann's Abelia	average	0.6
bella x grandiflora	Glossy Abelia	moderately good	0.4
bella nodiniana	Caucasian Fl.	poor	0.8
bulbin x hybridum	Chinese Lantern	average	0.6
caecia acinacae	Gold Dust Wattle	very good	0.2
caecia amblygona Australora Winter Gold		very good	0.2
caecia baileyana	Costamunda Wattle	very good	0.2
caecia becklean	Banner Range Wattle	very good	0.2
caecia booniana	Snowy River Wattle	very good	0.2
caecia cognata	Bower Wattle / Bower Wattle	moderately good	0.4
caecia cultiformis	Knife-leaf Wattle	very good	0.2
caecia diablata	Silver Wattle	average	0.6
caecia decumbens	Early Black Wattle	average	0.6
caecia drummondii subsp. drummondii	Drummond's Wattle	average	0.6
caecia elata	Cedar Wattle	average	0.6
caecia forbunda	Gossamer Wattle	very good	0.2
caecia howittii	Sticky Wattle	moderately good	0.4
caecia implexa	Hickory Wattle, Lightwood	moderately good	0.4
caecia leucophylla	Opal Range Wattle	very good	0.2
caecia karensii	Sweet Thorn	very good	0.2
caecia longifolia var. asphorae	Acacia asphorae	very good	0.2
caecia madeni	Maiden's Wattle	average	0.6
caecia meunsi	Late Black Wattle	moderately good	0.4
caecia melanocylon	Blackwood	average	0.6
caecia myrtifolia	Myrtle Wattle / Red-stem Wattle	very good	0.2
caecia parabola	Kangaroo Wattle	very good	0.2
caecia pendula	Silver Myrtle	very good	0.2
caecia podalyrifolia	Mt. Morgan Wattle	very good	0.2
caecia praeartensis	Quana Wattle	moderately good	0.4
caecia praeartensis	Golden Rain Wattle	moderately good	0.4

Melbourne Climate Zones Rainfall variability - Long term



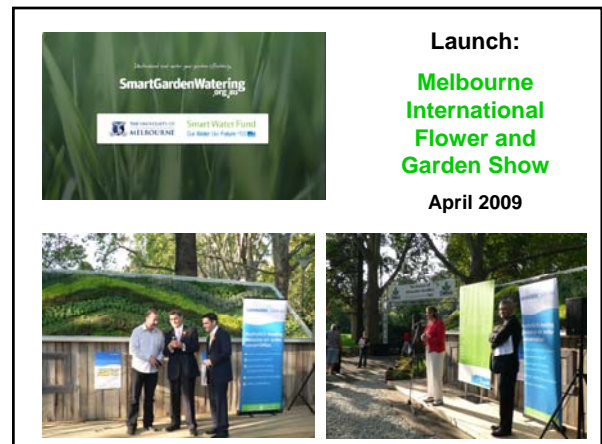
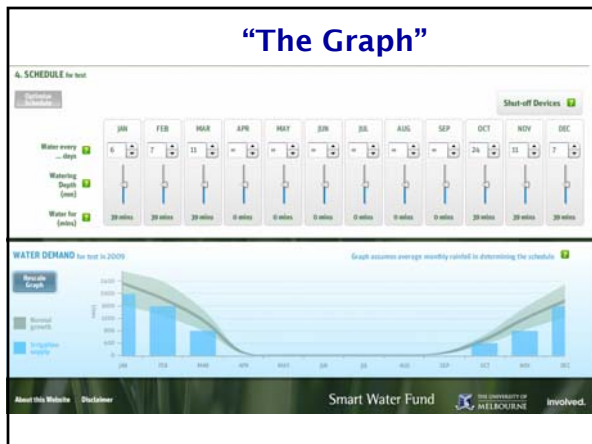
Rainfall - Last 10 years





Interface Design Development Process

1. Development of project requirements
 - Target audience, 5 scenarios
2. Design - Specifications, data management, program structure, prototype screens
3. User interface evaluation - Workshops
4. Development of computer program
5. Testing - user acceptance, fine tuning
6. Release

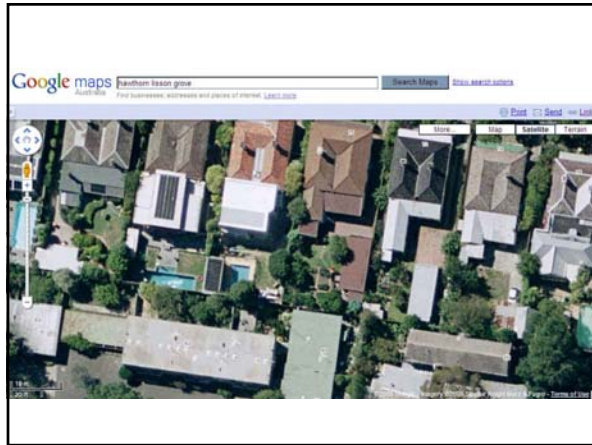




Next Stage: Web 2.0 version

Smart Water Fund Round 6
(March 2009 to March 2010)

- Social networking
- Garden zone drawing/mapping
- "Real time" data
- Google Maps



2009 National Savewater Awards

savewater.com.au

Home • Programs and events • savewater awards® • 2009 Finalists

Finalists - 2009 savewater awards®

The finalists for the national 2009 savewater awards® have been announced. The independent judging panel consisted of 13 industry experts, headed by environmental consultant Rob Gell. The finalists listed below were selected from over 700 entries. Winners will be announced at the awards Gala Ceremony on Friday 9 October 2009.

Award Category	Finalists
Built Environment and Gardens	<ul style="list-style-type: none"> • Dugre Native Plant Nursery • Jerry Coleby-Williams
Business Award	<ul style="list-style-type: none"> • Small Business (<50 staff) • Dugre Native Plant Nursery

SmartGardenWatering.org.au

Finalist !
700 entries, 45 finalists in 8 categories