

# Detached housing: Public and change: Innovation House 2.0

Improving peoples lives through better housing solutions

Darren Finlay Innovation House

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# "I think I'm up to 9000" Darren Finlay

A journey to Sustainable change at household level How do we impact on normal residential areas?

"No use having a 10 Star home with a 1 Star user"

### **Innovation House 1.0**

We wanted to get the public to see an example of a better, higher performance house and land solution.

(read : sustainable, shhhh don't tell them)

- Built in 2012/13
- First 10 Star display home in North Queensland
- 6 Sustainability concepts covered
- Low water use Permaculture total land solution
- Designed to be affordable
- Net Zero Energy Homes
- Living experiment, I moved in with my family!!!!





















# Innovation 1.0

### What worked? What didn't?

"People love gardens and landscape, but, speak to your wife first"

### The public were SUPER engaged

All the principles and concepts were well received. People stayed in the house for hours!! Woot Woot

- But.....
- For a low use garden we used heaps of water...for a while
- Permaculture principles don't suit everyone, need buy-in
- What do you do when you generate heaps of seasonal food?
- If you bring the whole ecosystem, know a good snake catcher
- Upsides
- Looks great from the street still
- Survived drought and floods well!















# "I think I'm up to 9500" Darren Finlay



### Developers taking a lead

"Lets try communicating at a development level"

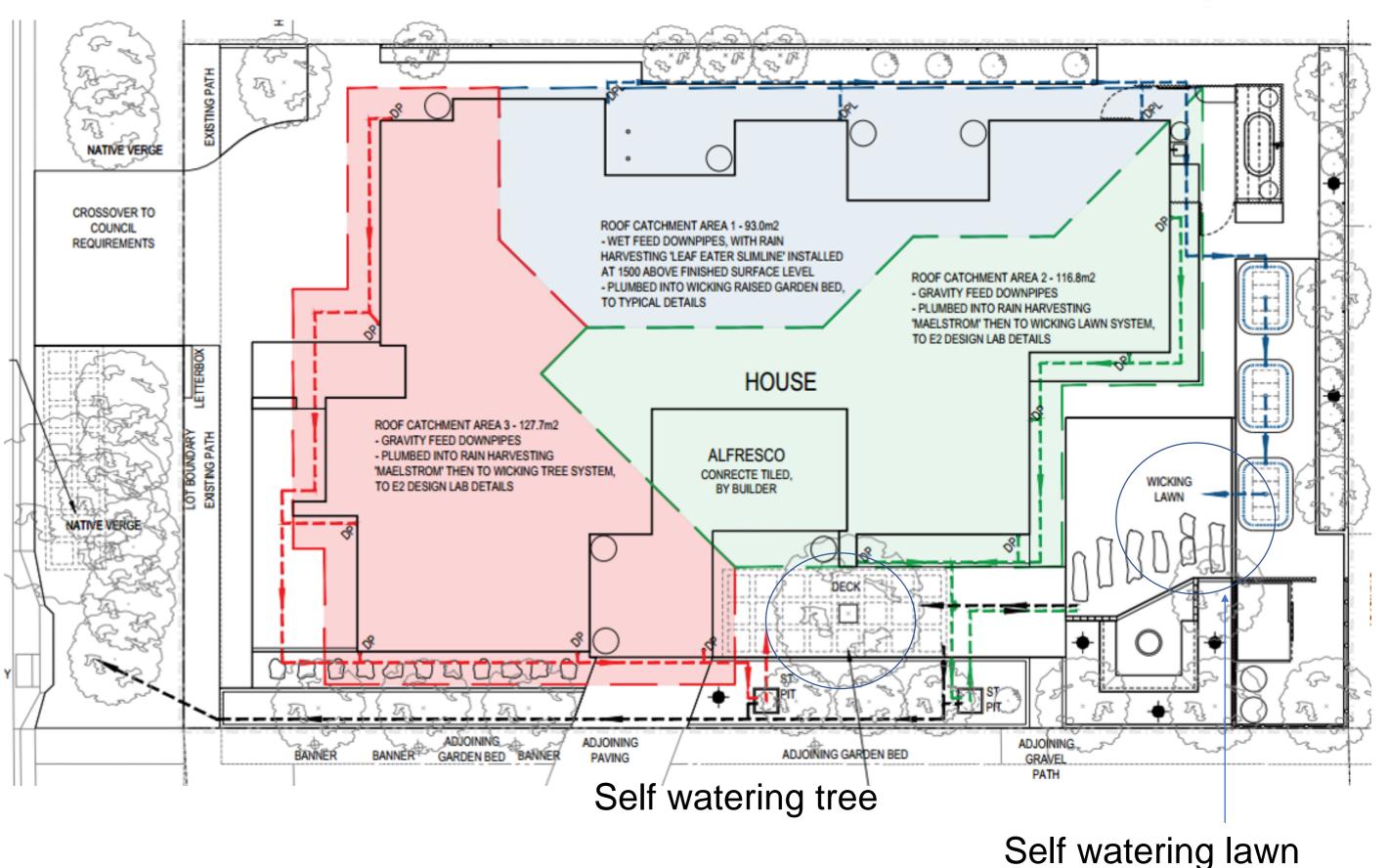
### **Innovation House 2.0: Stockland 2018**

### Goal

- A. Help reduce storm water load for development by taking some load off on a lot basis.
- B. Storage water on the lot to increase drought resilience.

### So let's look at development solutions on a lot level:

- Josh Byrne designed landscape
- E2DesignLabs designed water management
- Storm water street tree trial thanks to City Green
- Lot Level wicking LAWN concept
- Local school wicking garden beds for the shipping container cafe







## Innovation 2.0

### What worked? What didn't?

"There is no better way to end a drought, then dig a huge hole"

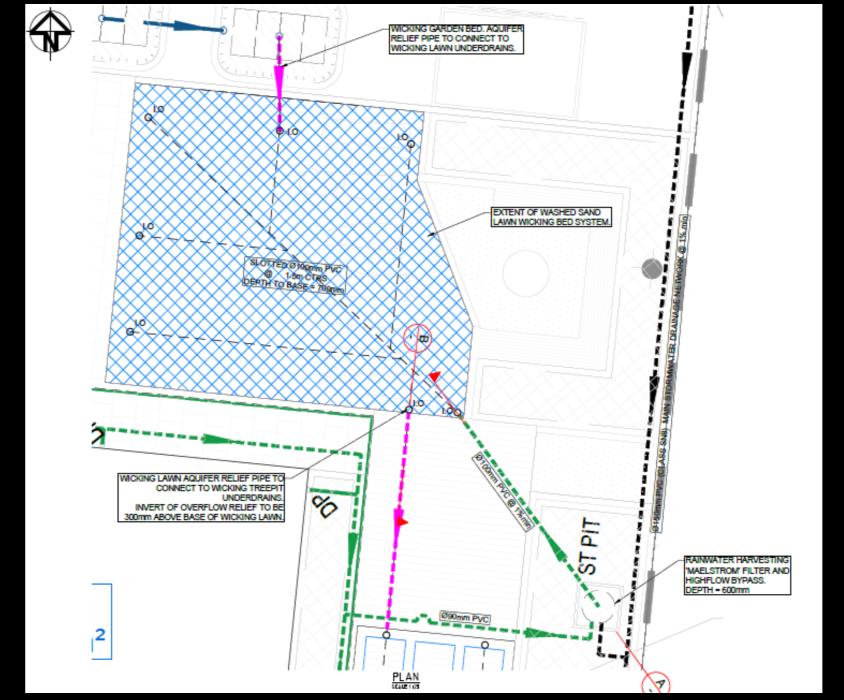
The principles show amazing potential for solutions at a development level

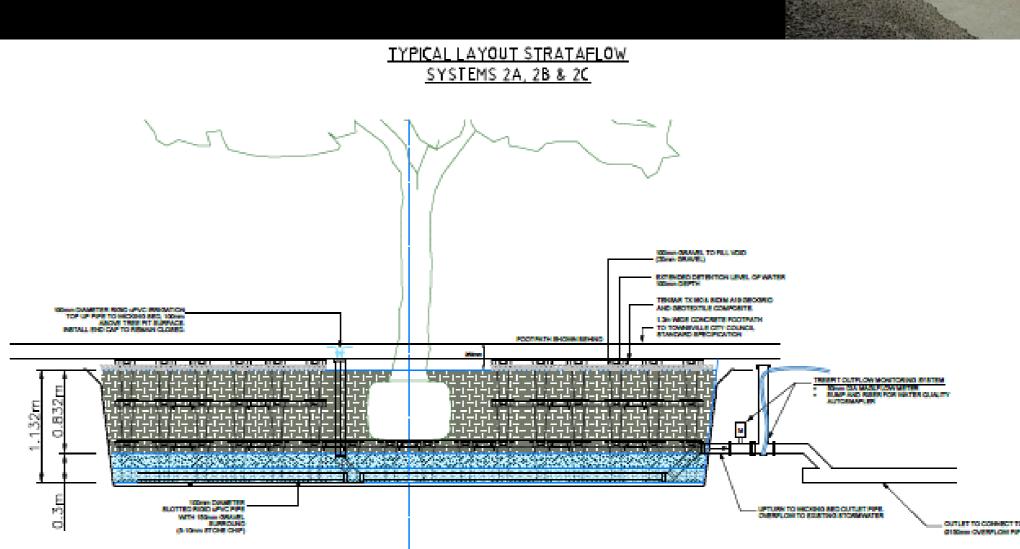
Innovation is firstly about learning:

- So what did we learn?
- The wicking lawn works, went through a whole year without watering
- The design works, dealt with a 1 in 500 Year flood event
- Was resilient in a drought
- Garden is thriving

### Issues

- Would be expensive to deliver on a small scale
- We got some of the wicking garden bed drainage wrong









### "Hoops are for jumping through"

### **Councils and change**

"Its great to have community buy in"

### Very lucky to have the an engaged council:

- Townsville household allowance 772,000L
- Retention basins are ......
- Designed to use 50 70% less than Townsville average
- 9.5 Star Gold Level Accessible house
- Would produce increased disaster resilience

### BUT

- You will still have some challenges
- The planning frameworks don't generally like Crazy
- Even if its cool
- But we got there







# How do we drive sustainable change?

# A journey to Sustainable change at household level How do we impact on normal residential areas?



