



## 2 – GREENSMART & PARTNERS

- Energy & Water efficiency
- Site management (Waste)
- Air quality, materials, noise

• Wesley Mission, Delfin Lend Lease, Civic Steel Homes, Ipswich City Council, HIA, Qld Govt., CRC-CI, trades & suppliers















- Overcome summer heat & winter cold
- Achieve energy & water efficiency
- Achieve superior air quality
- Adaptable, durable & livable (social design)









### **5 – COSTS – KEY FINDINGS**

#### average of 3 houses

- Annual greenhouse gas saving of 4.3 tonnes per house
- Good site and waste management \$100 saving per house
- Superior air quality (nontoxic paints and finishes) no added cost



# 6 – SUCCESSES

- 80% waste recycling
- Small lot Greensmart houses
- 74% water saving
- Over 50% energy saving (4.3 tonnes/a)





### 7 – LESSONS LEARNT

### Most cost effective inclusions -

- Some passive design elements (orientation, window size & location, shading, extra insulation)
- solar hot water

- water & energy efficiency elements
- Social design elements
- non-toxic paint and finishes



### 7 - LESSONS LEARNT

- there is no perfect house
- a simple "services plan"

- social design elements need to be further promoted
- Qld needs an indicator for house design efficiency

7 - LESSONS LEARNT – indicators		
Building Energy Rating Scheme (BERS) (thermal performance of the house)		
Sustainable Housing Code (SHC - version 8)		
Large house (>260m2)	required 18	scored 61
Medium house (>130m2 but <260m2)	required 14	scored 39 scored 55
CRC Construction Innovation		

