



Australian Government

Department of the Environment and Energy

Homes for hot weather

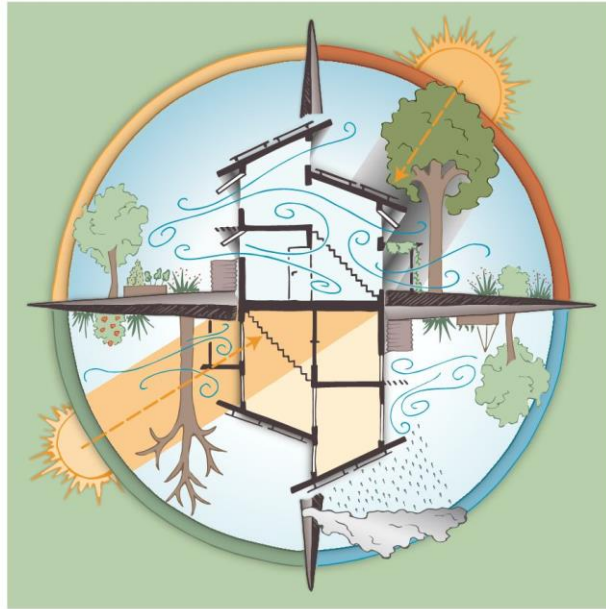
Jodie Pipkorn





1. Where are we trying to get to?

**Ideally we want low energy homes
that are beautiful, economical and
comfortable to live in**



www.yourhome.gov.au

www.yourenergysavings.gov.au



...orientation and passive cooling...

...windows and shading...



...insulation...

...construction systems...

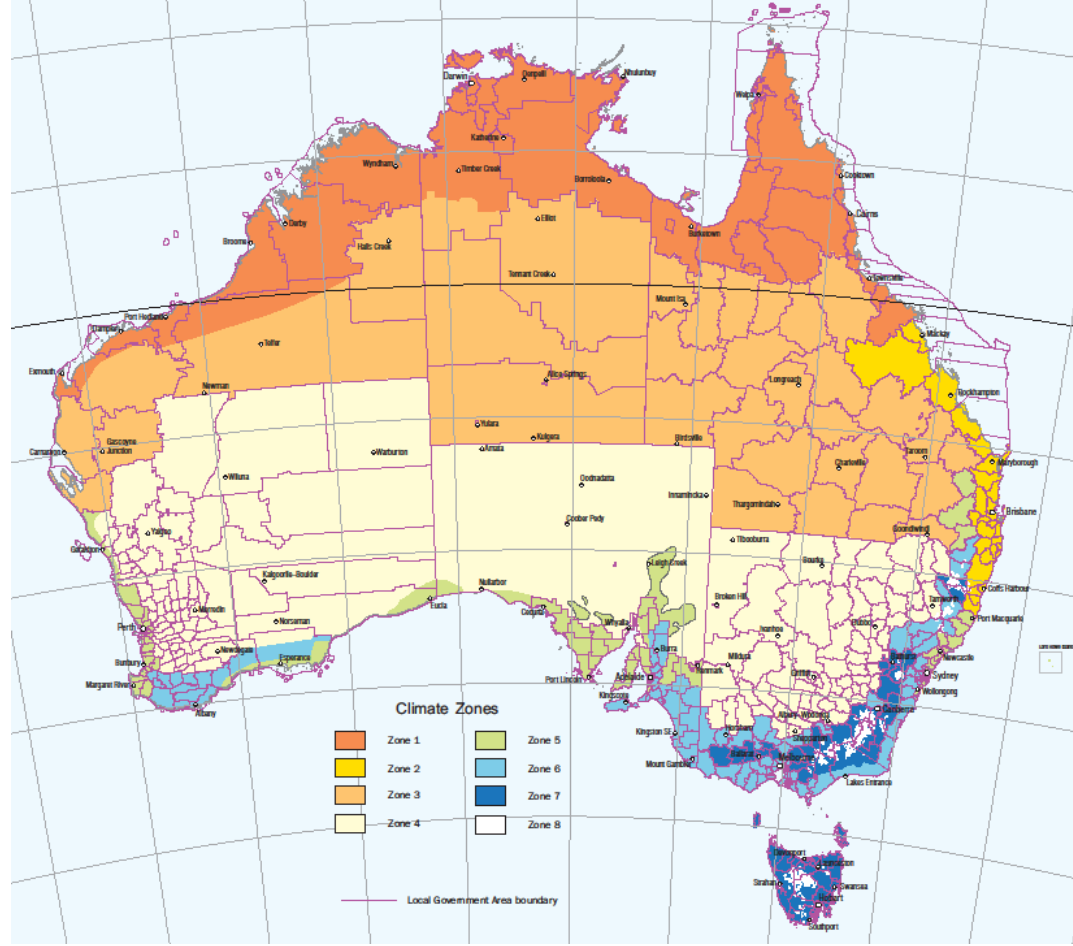
...heating and cooling...



...Nationwide House Energy Rating Scheme...

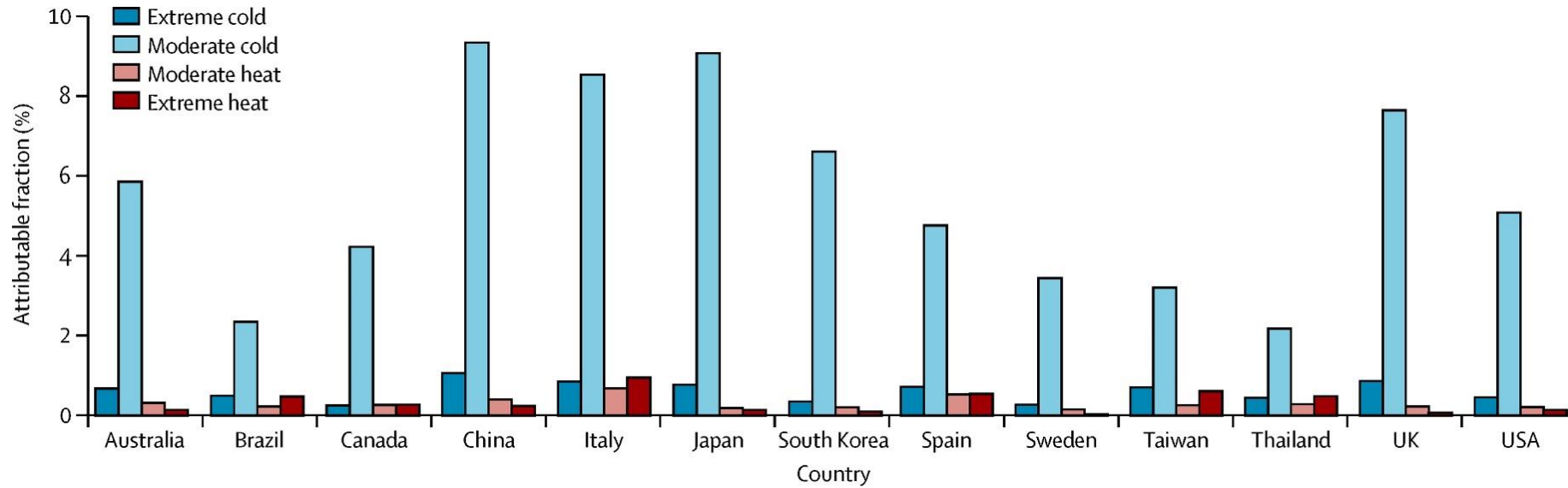
... Design for Place free 7 star house plans...

...minimum standards...



2. Where are we now?

We are getting buildings not ideally suited to their climate zone

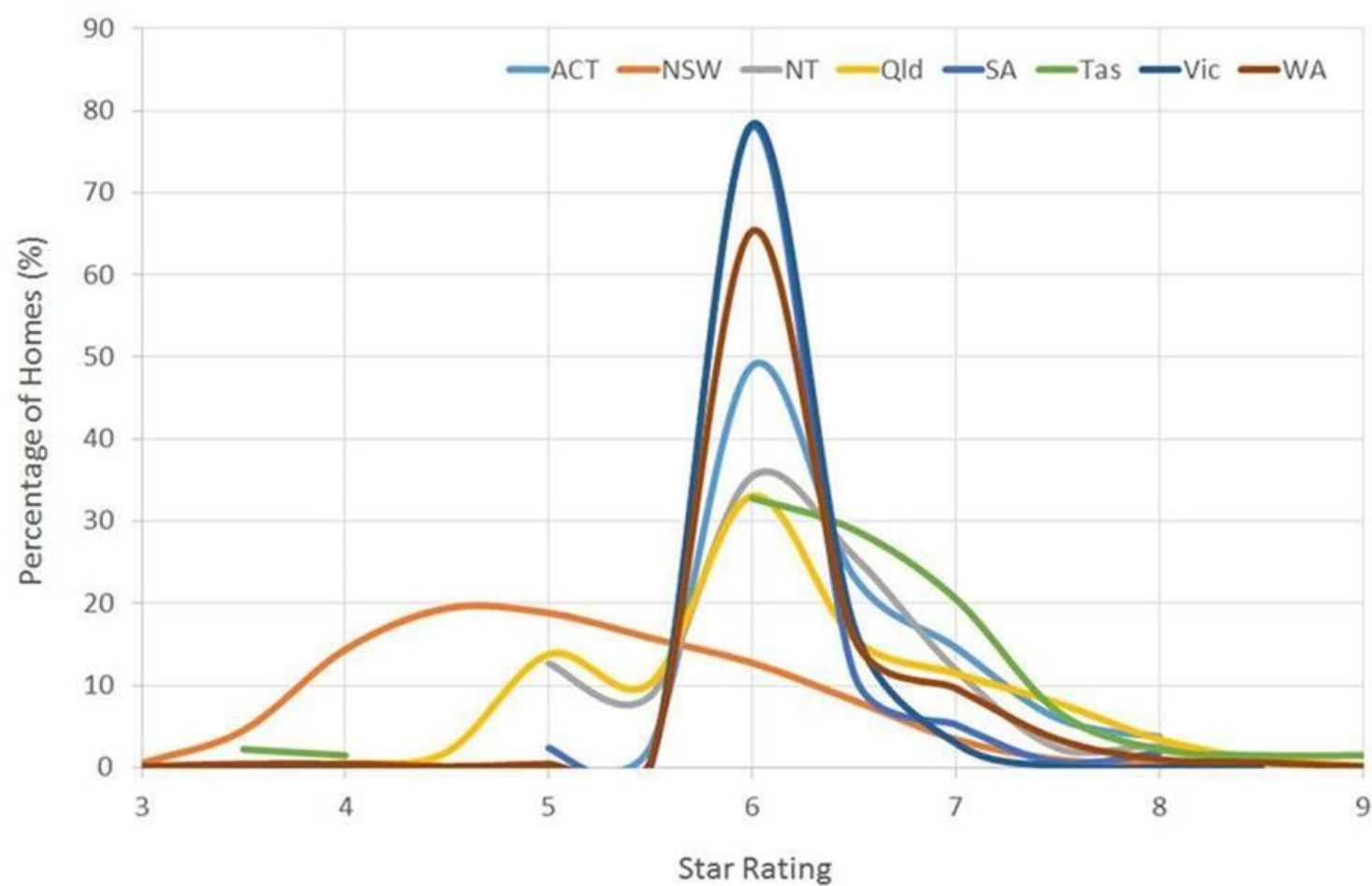


Moderate cold temperatures are still the predominant mortality issue in Australia – not heat

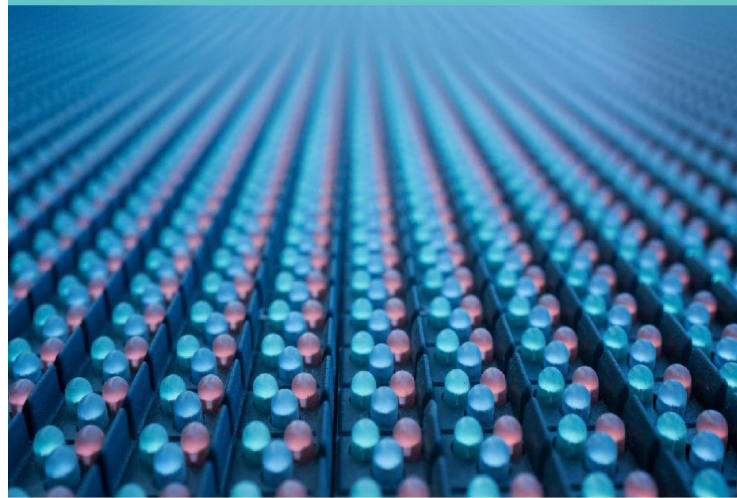
Windows opening vs Air Conditioning

	Well-ventilated house at 5/6 stars as appropriate		Volume house at 5/6 stars as appropriate	
Climate	% windows open	% of hours air conditioning used	% windows open	% of hours air conditioning used
Darwin (CZ 1)	65.5	15.9	61.1	18.3
Townsville (CZ 1)	66.5	4.6	65.5	8.2
Brisbane (CZ 2)	44.5	1.0	39.6	2.2
Alice Springs (CZ 3)	49.0	6.7	32.3	3.0
Emerald (CZ 3)	49.7	4.3	32.6	1.9
Toowoomba (CZ 5)	29.9	1.4	30.1	2.3

NatHERS does take into account cooling breezes, light-weight designs, and other features



Current minimum standards can be met in many climates with non-ideal designs



NATIONAL ENERGY PRODUCTIVITY
PLAN 2015–2030

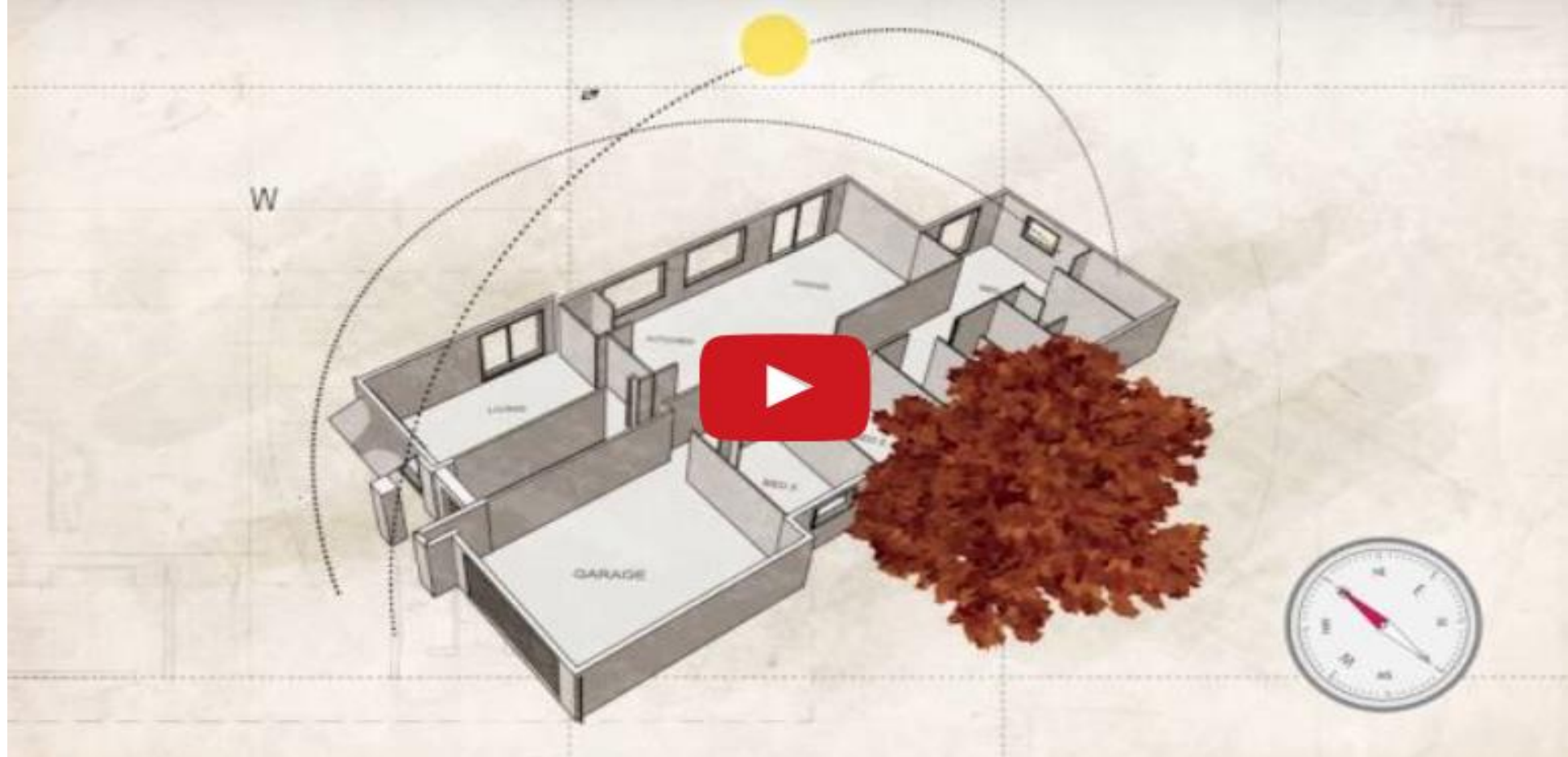
*Boosting competitiveness, managing costs
and reducing emissions*

December 2015

INDUSTRY.GOV.AU

3. So where to next?

**Improvements are being made to
standards and information**



**NatHERS could be better used to
assess a house design in hot
weather**



**Homes for hot weather can be achieved
if everyone involved in the building
process does their bit**

www.environment.gov.au

www.yourhome.gov.au

www.yourenergysavings.gov.au

www.nathers.gov.au

Jodie.Pipkorn@environment.gov.au

**Is it just government policy that needs
to change?**

And if so, how does it need to change?