## Community action & climate change

Dr Jennifer Kent 27<sup>th</sup> February 2019

#### Acknowledgement of Country

I acknowledge the Bedegal people who are the traditional custodians of the land we are meeting on and pay my respects to their elders past, present and future. I also acknowledge that sovereignty was never ceded over this land.



#### Be Climate Clever: I can do that!

http://youtu.be/02fGSN7aPhQ

## Key concept 1 The Anthropocene

#### The Anthropocene

The Anthropocene, populised by Crutzen & Stoermer (2000) refers to a proposed new geological age, separate to the Holocene (the last 11,700 years stable geologic period where humankind has flourished) and representing a new period where for the first time humans represent the major force shaping the Earth's environment.

## Key concept 2: Polycentrism



#### Economic theories of collective action

#### Tragedy of the commons (Garret Hardin, 1968):

Self interest will lead to the exhaustion of a common resource to the detriment of all (now & into the future).

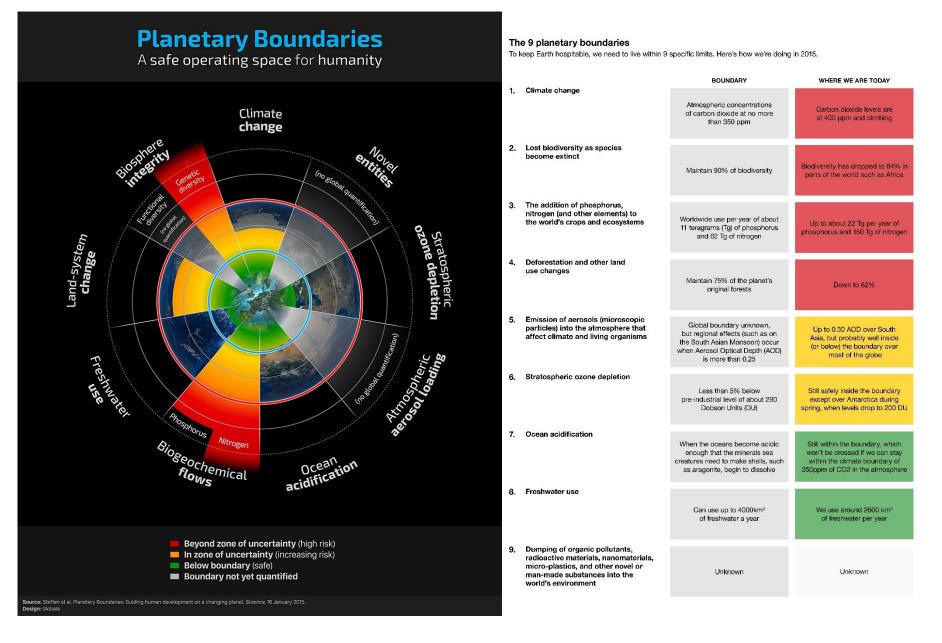
 Implies requirement for external regulation by some global authority to monitor actions & apply sanctions.

#### Polycentrism (Elinor Ostrom, 2009):

Nobel prize winner Ostrom demonstrated that collective groups can be self regulating to allow the common resource to be shared & maintained.

 Consist of polycentric spaces that can be at national, regional or local scale. Key is cooperation, trust & reciprocity & face-to-face interaction.

# Key concept 3 Planetary Boundaries (Steffen et al. 2015)

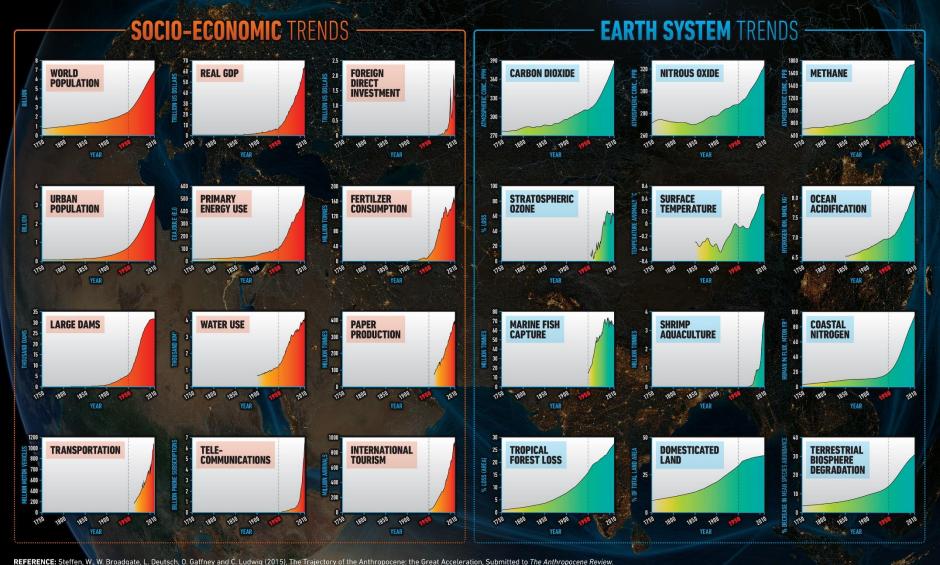


The planetary boundaries framework first published in 2009, introduced us to the possibility of distilling a complex Earth system – of land, oceans, atmosphere and life – into 9 global-scale dimensions responsible for keeping the Earth in its current hospitable state

## The bottom line: Big change is happening fast

"The Great Acceleration" (Steffen 2015)

#### THE GREAT ACCELERATION



REFERENCE: Steffen, W., W. Broadgate, L. Deutsch, O. Gaffney and Č. Ludwig (2015), The Trajectory of the Anthropocene: the Great Acceleration, Submitted to The Anthropocene Review.

MAP & DESIGN: Félix Pharand-Deschênes / Globaïa

## The bottom line: Big change needs to happen fast

Transformative change required

Need to disrupt/ destroy existing fossil fuel hegemony (Geels 2014)



## Issues of individual responsibility

#### Influence/ change individual behaviour.

However scale of action taken does not match what's required. Easy lifestyle changes are readily adopted whilst most difficult are not.

# Issues of individual responsibility Expected that consumers make rational choices based on their beliefs.

Jackson (2005, p. 35) states three assumptions that underlie RCT: "1) that choices are rational; 2) that the individual is the appropriate unit of analysis in social action; and 3) that choices are made in the pursuit of individual self-interest".

## Issues of individual responsibility

#### Value-action gap

People's environmental values and the actions they are willing to take often don't match = 'value-action gap' (Kollmus & Agyeman 2002). People feel that they have little or no control over complex global issues of sustainability, such as climate change (Ashworth et al. 2011).

### Issues of individual responsibility

## Technological innovation needs to be considered within its social & cultural contexts

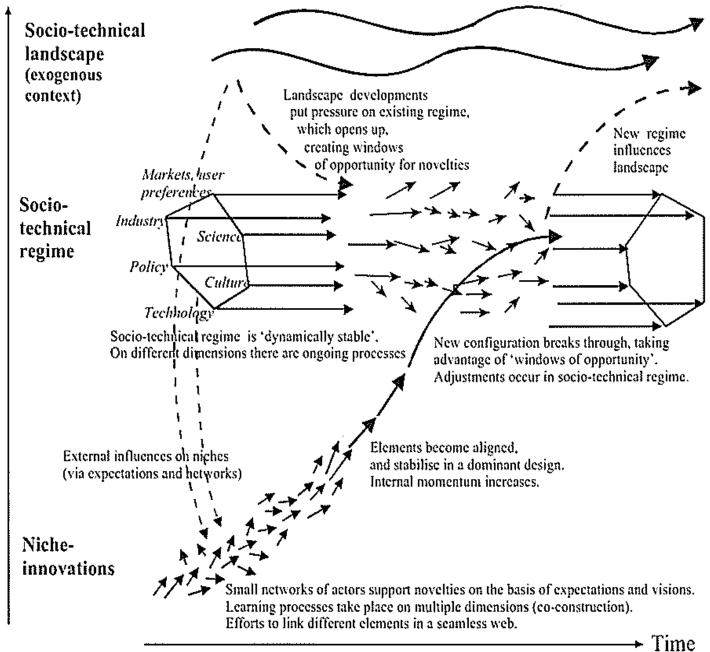
For e.g. "hidden" power usage of appliances as standby power is now contributing to about 10% of household energy usage. Understanding power usage in the context of social practices — such as surge in energy use when every one puts on the kettle for a cup of tea after popular soapie finishes

## Sustainability Transitions Theory

(Grin et al. 2010)

- Recent shifts from applying STT to socio-technical innovations to consider social change from the bottom up (Grassroots Innovations)
- •Multilevel Perspective (MLP) Geels 2002, 2005, 2011 key influence
- Provides an avenue for exploring the complex spatial architecture of climate change governance (across vertical & horizontal scales)

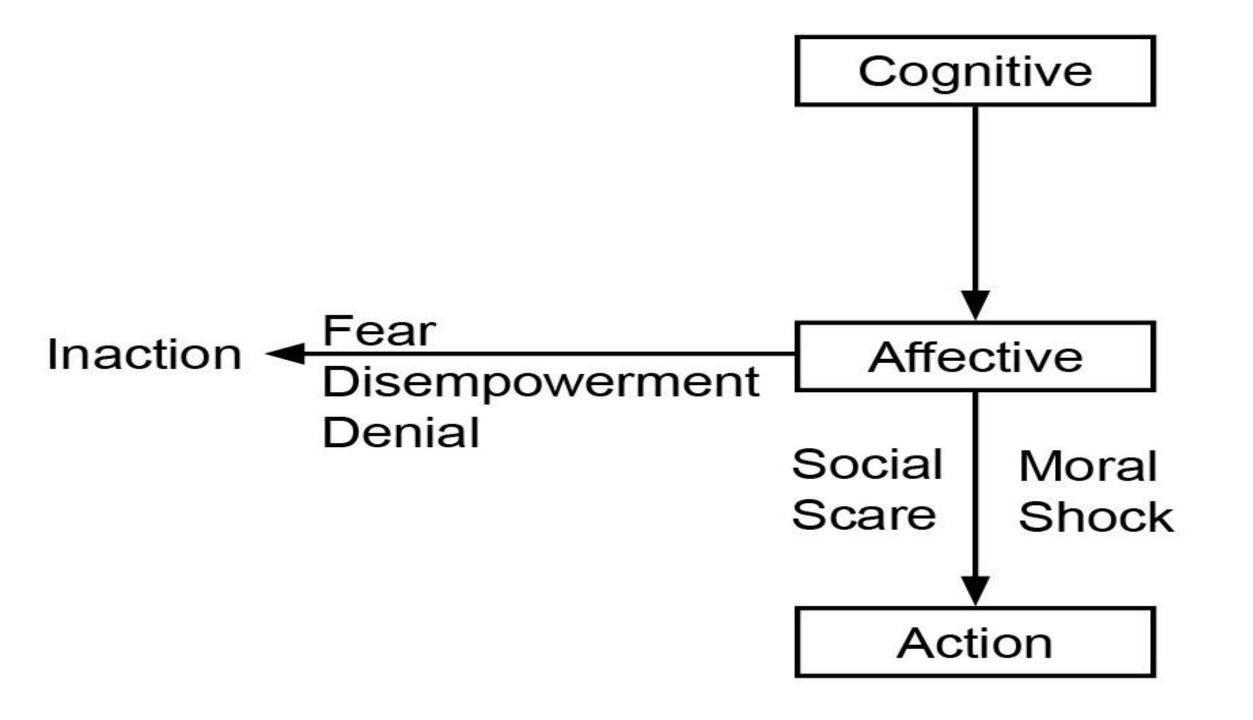
of activities in local practices

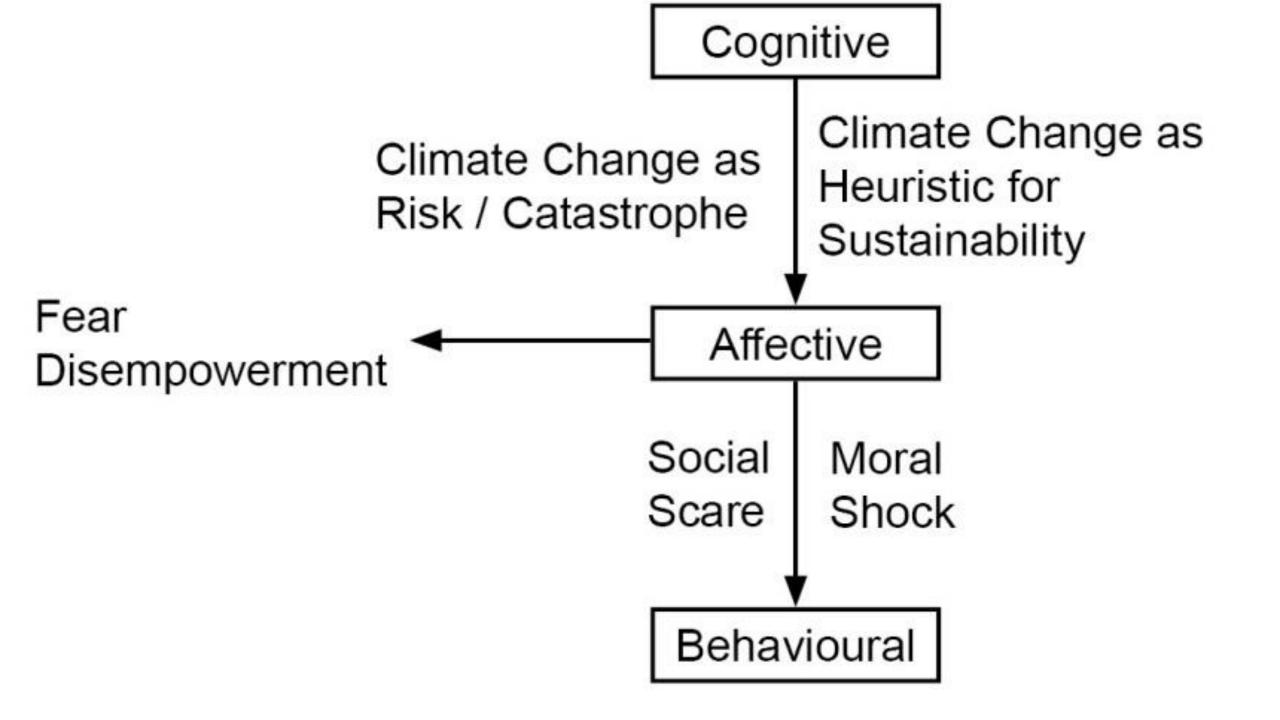


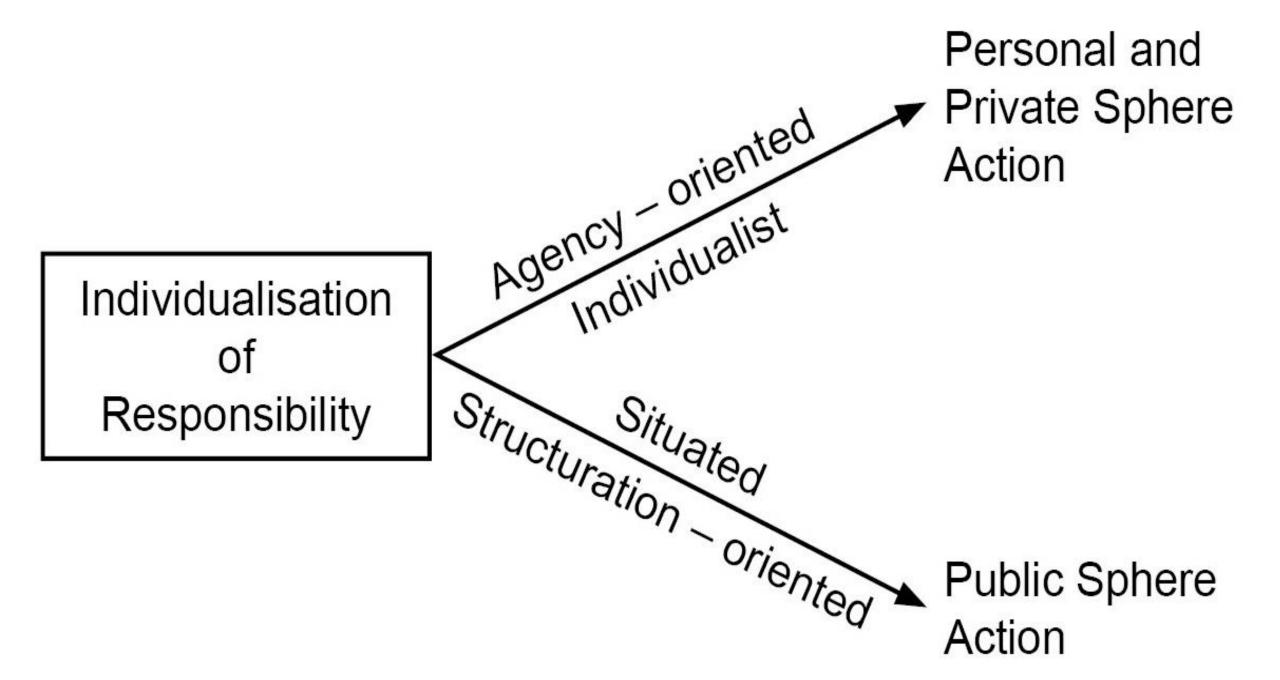
#### **Grassroots Innovations**

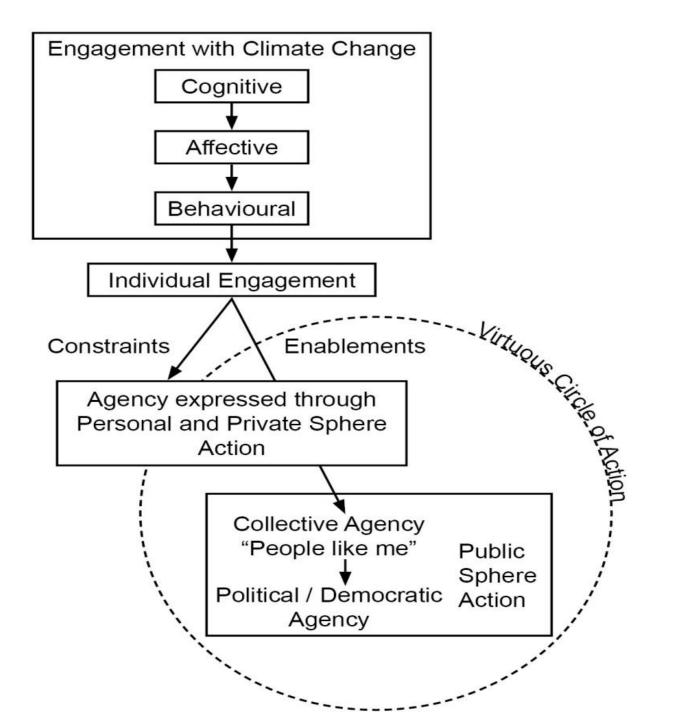
"Networks of activists and organisations generating novel bottom-up solutions for sustainable development; solutions that respond to the local situation and the interests and values of the communities involved"

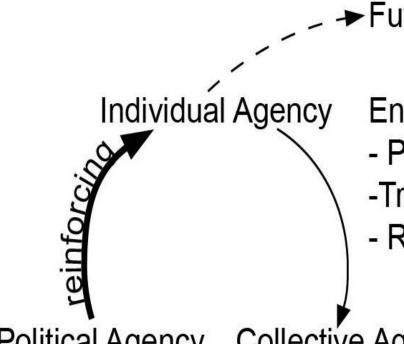
(Seyfang & Smith 2007, p. 585).











**→** Future Virtuous Circles

**Enablements:** 

- Personal Empowerment
- -Trust in Political Action
- Reflexive

Political Agency Collective Agency

**Enablements:** 

- Group has Legitimacy
- Acts as an Alternative Governance

**Enablements:** 

- Group builds up Confidence
- Develop/Enhance Skills
- Deliberation / Democratic Agency
- Social Learning

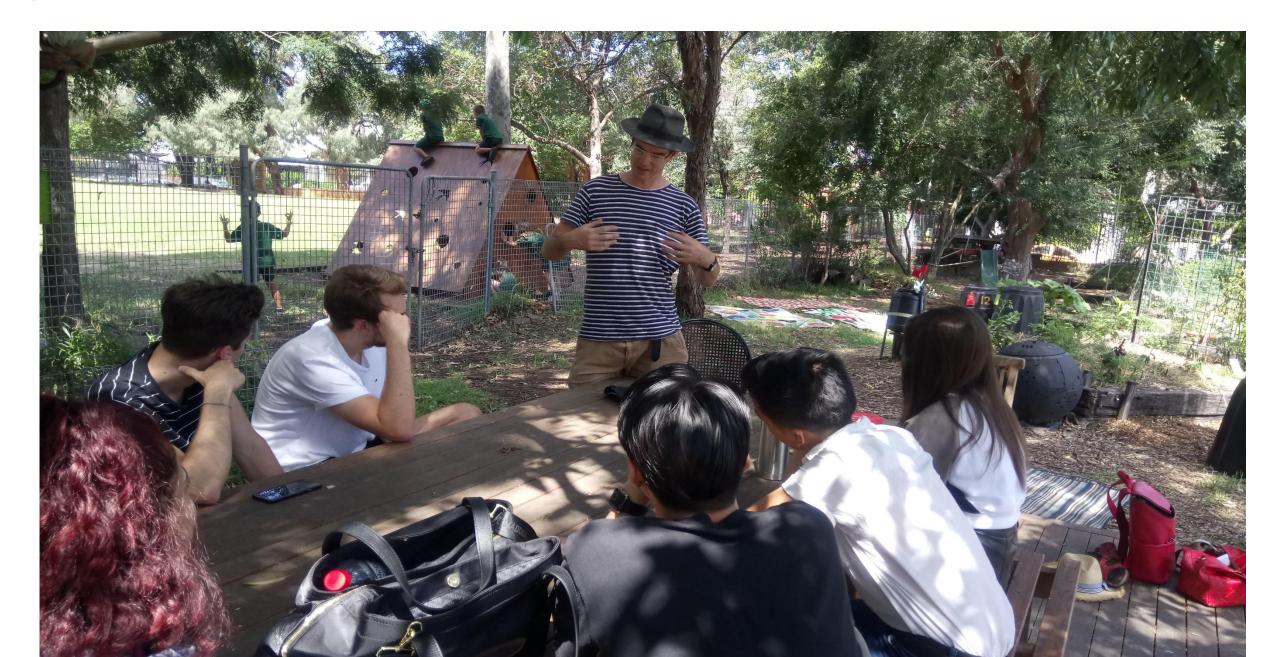
### Sustainability Transitions Theory

- ✓ Explains behaviour change from a collective or social perspective
- ✓ Explains how innovations emerge and translate across scales (niche-regime-landscape) (Geels)
- ✓ Supports radical forms of change (stepchange rather than incremental) based on social learning (Seyfang et al. 2010)
- X doesn't address the role of civil society

**Deliberative Democracy** 



#### Social innovations as citizen-led transformations



## Activating Agency

- Re-balancing responsibility from an individualised focus to a shared one – through a social contract between states & their citizens
- •Implies greater democratic deliberation between states & their publics
- Shift of power from governments and global institutions to civil society