GreenPrints: bioregional approach to living within our ecological limits



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About AELA

- Created in 2012
- Mission: to increase the understanding and practical implementation of Earth centred governance – law, economics, education, ethics and the arts
- "Earth jurisprudence"
- AELA is focussed on creating *systems* change
- multi/trans disciplinary



Earth jurisprudence calls for us to examine the root causes of the current crisis and shift all our **governance systems** from human centred to Earth centred



Human centred

Earth centred



Economic – Consumer capitalism (Corporatism)

Social/cultural (consumer culture) Legal, Political & Institutional

"the ideas that lie beneath"

> Beliefs, Ideology, culture – anthropocentrism + pro growth

GreenPrints - a pathway

- GreenPrints focuses on a critical question: how can we create governance systems that help us live within our ecological limits and support the rest of the living world?
- While we have 'blueprints' to document the design of building and engineering projects, we don't yet have effective 'greenprints' for helping us construct the governance systems we need, to build Earth centred societies that can be sustained in a climate changed world and nurture the Earth community.



Starting point - ecological health



ARP	Arnhem Plateau
AUA AVW	Australian Alga Avon Wheatbelt
REN	Brigalow Belt North
885	Brigalow Belt South
BEL	Ben Lomond Broken Hill Complex
BRT	Burt Plain
CAR	Carnaryon
CEA	Central Amhem Central Kimberley
CER	Central Ranges Channel Country
CHC	Channel Country
CMC	Central Mackey Coast Coolgardie
COP	Coolgardie Cobar Penepiain
COS	Corel Sea
DAE	Cage York Perlinsula Daly Sasin
DAC	Carwin Coastal
DAL	Demplerland Depert Uplands
DMR	Desert Uplands Devengort Murchison Range
DRP	Carling Riverine Plains Einssleigh Uplands
ESP	Esperance Plains
EYE	Eyre Yorke Block
FIN	Finke Finders Lofty Block
FUR	Furneeux
GAS	Gascoyne
GES	Gawler Gereidton Sandplains
GEU	Gulf Fall and Uplands
GID	Gibson Desert Great Sandy Desert
GUC	Gulf Coastal
GUP	Gull Plains
GVD	Great Victoria Desert Hampton
ITI	Indian Tropical Islands
JAF KAN	Jarrah Ponest Kanmantoo
KIN	King
LSD MAC	Little Sandy Desert MacDonnell Ranges
MAL	Malee
MOD	Murray Darling Depression
MGD	Mitchell Grass Downs Mount Iss Inter
MUL	Mulga Landa
NAN	Murchison Nandewar
NEP	Neracoone Costal Pier
NET	New England Tablelands
NNC	NSW North Coast Northern Kimberley
NSS	Northern Kimberley NSW South Western Slopes
NUL	Nullarbor Ord Victoria Plain
PCK	Pine Creek
PIL	Pibers
PSI RIV	Pacific Subtropical Islands Riverina
SAL	Subanterctic Islands
SEC	South East Coastal Plain South East Corner
SEH	South Eastern Highlands
550 550	South Eastern Queensland Simpson Straelecki Dunefieli
STP	Stony Plaina
STU	Sturt Plateau
SWA	Southern Volcanic Plain Swan Coastal Plain
SYE	Sydney Easin
TAN	Tanami Teamenian Central Highland
TIW	Tiwi Cobourg
TNM	Teamenian Northern Midland Teamenian Northern Slopes
TSE	Teamenian South East
TSR	Tasmanian Southern Range:
TWE	Teamenian West Victoria Sonagarte
VIM	Victorian Midlanda
WAR	Warren
328.1	Wet Tropics

"citizen governance" – easy to use mapping tool to help





Three 'big' problems GreenPrints is addressing

(1) Problem – pro-growth culture and governance



2015 – 4 out of 9 "Planetary Boundaries" now crossed

- Climate change
- Biosphere integrity
- Nitrogen and Phosphorous biogeochemical cycles
- · Change in land use
- Ocean acidification
- Ozone depletion
- Global freshwater use
- Atmospheric aerosol loading
- Chemical pollution





Doughnut economics





(2) Problem – *political* jurisdictions and governance disconnected from ecological reality (ie human centred, pro-growth)



In 1788 this continent experienced a dramatic shift in governance

From 60,000+ years of effective, local, Earth-centred, Steady-state governance ...





To 230 years of environmentally disconnected governance, based on human centred, pro-growth culture and medieval English laws



One simple, but stark example of the impacts of the governance shift



Vegetation Loss in Australia 1788-2016



		Loss
	Eucalypt Forests and Rainforest	20.1%
Eucalypt Woodlands		27.8%
	Other Forests or Woodlands	10.5%
	Other vegetation (no trees)	6.0%





Cleared since 1788 13.0%

(3) Problem – ineffective models of sustainability

Mickey Mouse Sustainability vs Nested Sustainability

'Sustainable Development' = balancing different *human* values





This produced 'Mickey Mouse' sustainability



And it hasn't stopped the destruction of the natural world





The solution – nested



Simple overview of GreenPrints

"All models are wrong, some models are useful" (attributed to George Box)

The starting point

- Returning to our question: how can we create governance and legal systems that help us live within our ecological limits and support (not degrade) the living world
- A critical question then, is how (and where) do we set these limits? What scale?
- A useful starting point: bioregional ecological health, to set 'parameters' around human activities



What is a bioregion?

- a region defined by characteristics of the natural environment rather than by man-made divisions
- relatively large land areas characterised by broad, landscape-scale natural features and environmental processes that influence the functions of entire ecosystems.
 - These patterns in the landscape are linked to fauna and flora assemblages and processes at the ecosystem scale, thus providing a useful means for simplifying and reporting on more complex patterns of biodiversity.
 - (NSW Office of Environment and Heritage)



Australia has 89 bioregions



ARP	Arohem Plateau
AUA	Australian Alpa
AVW	Avon Wheatbelt
22N 225	Brigglow Beit North Brigglow Beit South
BEL	Ben Lomond
BHC	Broken Hill Complex
ERT	Burt Plain Carnarvon
CEA	Central Amhem
CEK	Central Amhem Central Kimberley
CER	Central Ranges Channel Country
CMC	Central Mackay Coast
000	Coolgardie
COP	Cober Penepisin Coral Sea
CYP	Corel Sea Cape York Perlinsula Dely Basin
DAE	Caly Basin
DAC DAL	Derwin Cosstel Dempierland
DEU	Desert Uplands
DMR	Devengort Murchison Range
	Darling Riverine Plains Dinasleigh Uplands
ESP	Experance Plains Experance Plains Eyre Yorke Block
EYE	Eyre Yorke Block
FLE	Finke Finders Lofty Block
FUR	Fumeeux
GAS	Gascoyne
GAW	Gawler Gersidton Sandolains
GFU	Geraldton Sandglains GuY Fall and Uplands
GID	Gibson Desert
GSD	Great Sandy Desert Gulf Coastal
GUP	Gulf Plains
GVD	Great Victoria Desert
HAM	Hampton Indian Tropical Islands
JAF	Jameh Forest
KAN	Kenmantoo
KIN LSD	King Little Sandy Desert
MAC	MacConnell Ranges
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MOD	Murray Darling Depression Mitchell Grass Cowns
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SWA	Swan Coastal Plain
SY8 TAN	Sydney Basin Tanami
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WET	Wet Tropics

419 sub-regions



Example of GreenPrints method: getting to know your own bioregion (eg: Riverina)



- 1. Practicing ecocentric thinking
- 2. Connecting with place/country

Starting with what we love Home, place, country Walking country Maps, Arts, Creativity Local knowledge Connectedness

3. First Nations Peoples' law, culture, history contemporary work



What does bioregional ecological health look like *in this place*?



4. What does a healthy bioregion look like?

Need to engage with different knowledge systems Indigenous knowledge History Natural sciences

Core issues Waterways Vegetation Soils Biodiversity



Scenarios for bioregional health



What does ecological health look like in this bioregion?

- Optimal
- Okay
- Unhealthy

Drawing in scenario planning experts, maps, artists



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Nesting human society within a healthy bioregion



5. How much space is left for human activity in our different scenarios?

<u>Questions about our</u> <u>values; our choices</u>

Population Consumption Space Lifestyle Culture Education Human health Redefining the good life



Create human economies that fit within social goals and eco-health



6. Economic activity

Steady State Ecological economics Regenerative economy

Questions What does our healthy bioregion enable us to: grow, water, eat cut down, import, farm, hunt

And how do we distribute it?

Social justice



Bio-regional governance



7. 'Retrofitting'

appropriate governance \rightarrow laws, rules, ethics, institutions

Questions

How do we enshrine rules for healthy bio-regions into new governance?

How can we work within existing local/state jurisdictions but focus on bioregional health

How do we connect bioregion health with N.Parks, protected area management and so on





8 How do we make it all happen?

Need to start somewhere

People start from different places, all flows together

We can offer workshops/sessions/ mentoring:

- About ecocentrism
- Bioregional knowledge
- Connect with other initiatives
- Connect with existing NRM plans
- Map the scenarios
- Map the economic options Identify the 'tweakables'
- Identify the governance, systems and specific changes
- Identify advocacy and campaign work



GreenPrints as a pathway



Can engage and begin



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Invitation to get involved in GreenPrints

- Critique
- Comment
- Suggest
- Join up
- Tell others
-) (give money 🙂)
- <u>convenor@earthlaws.org.au</u>
 Thank you!



Thank you for your time ©

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