

Circularity

2023

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PLANET ARK

21 NOV | 1:00 - 2:00 PM

Financing the Circular Economy

Keynote



Andrew Hinchliff
Commonwealth
Bank of Australia



Tim Mumford
Beca

Moderator



Debbie O'Byrne
Planet Price



Micheal Puli
ING Bank Australia



Geri McMahon
KPMG Australia



Christina Tonkin
ANZ Banking
Group

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Tim Mumford
BECA



Debbie O'Byrne
Planet Price

Integrating Planetary Boundaries into Financial Decision-Making

Designs to Dollars



Tim Mumford

GM, Digital & Innovation
Transport & Infrastructure



Debbie O'Byrne

Circular Economy Expert
Co-Founder



A Point of No Return

The Economic Elephant in The Room



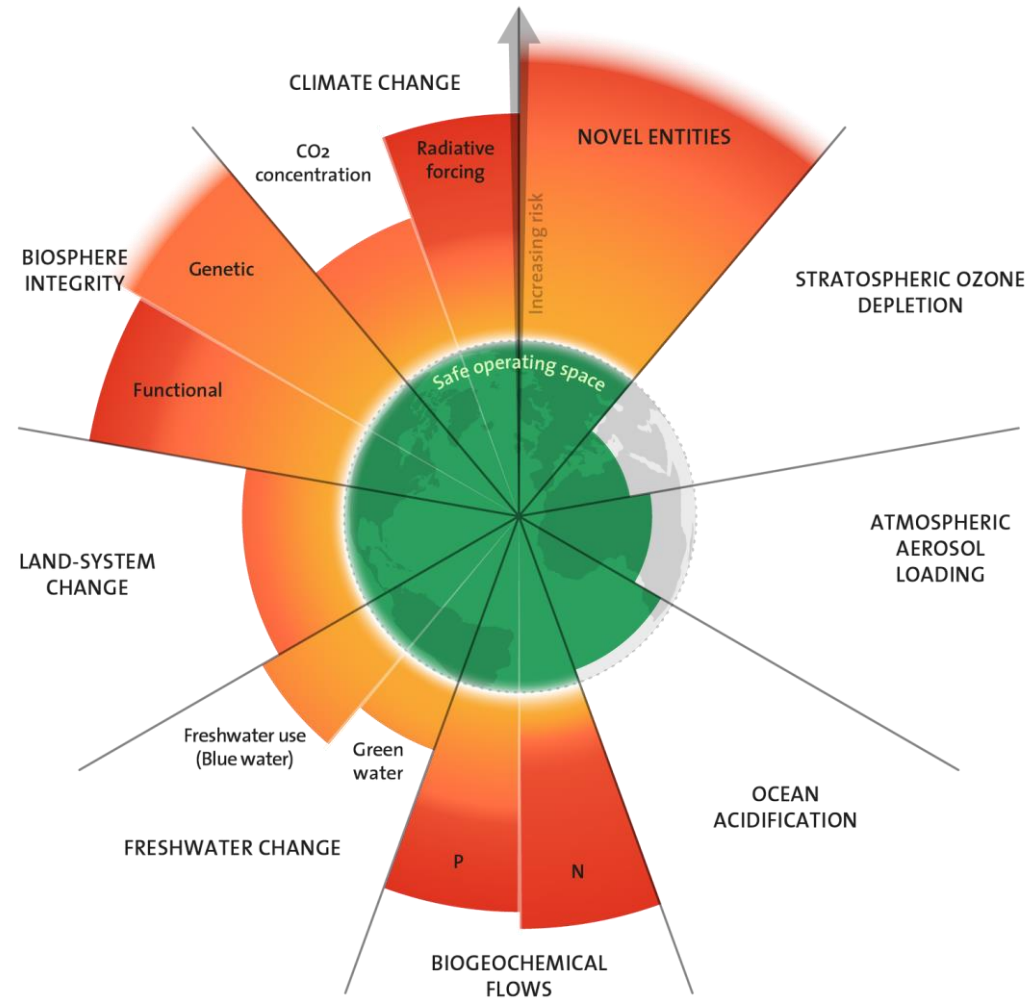
Australia contributes to 1.2% of Global emissions and ranks 11th in the world



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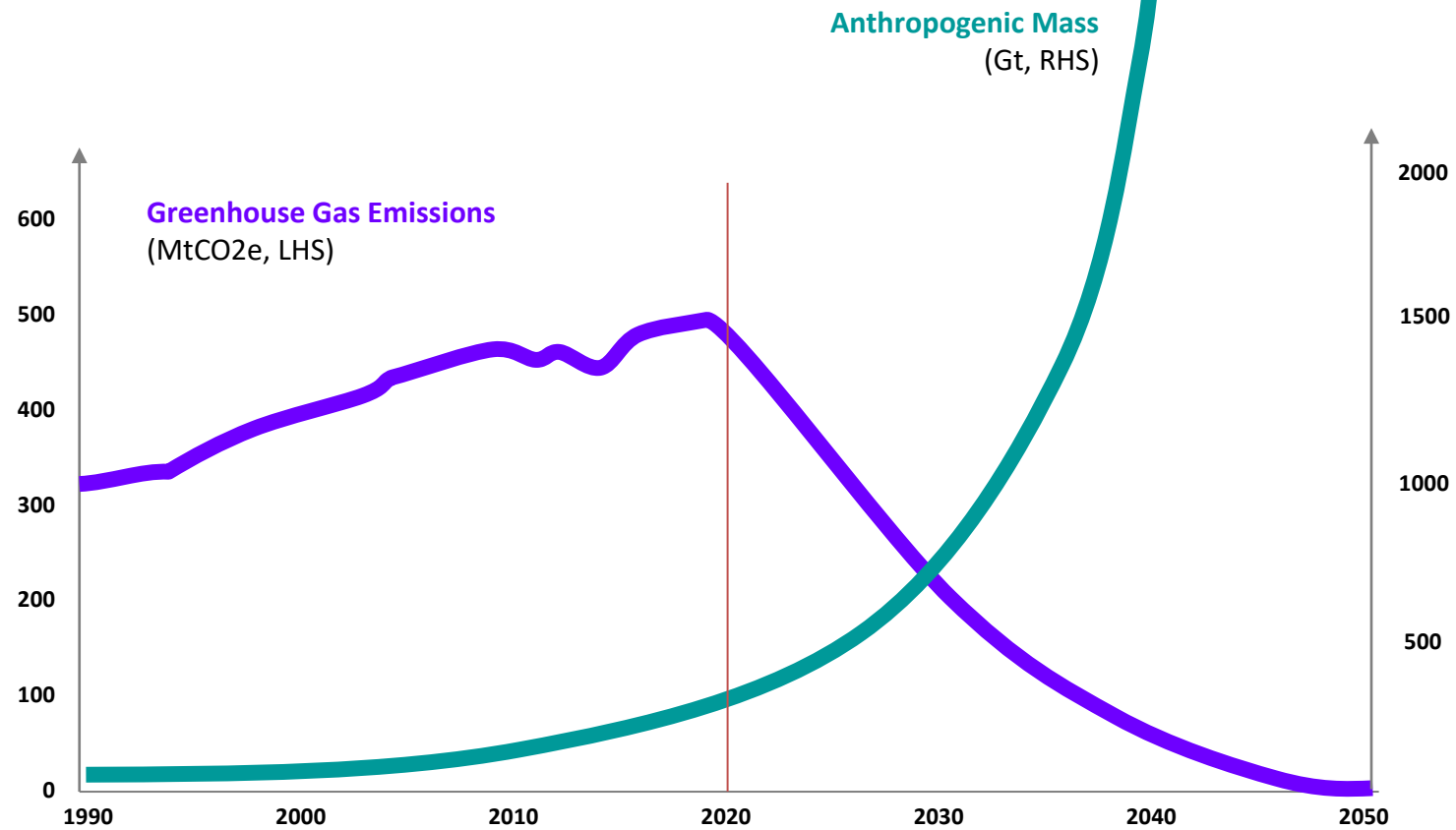
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Emissions can be reduced or avoided in design



Action can begin to reverse the 1.5 degree overshoot

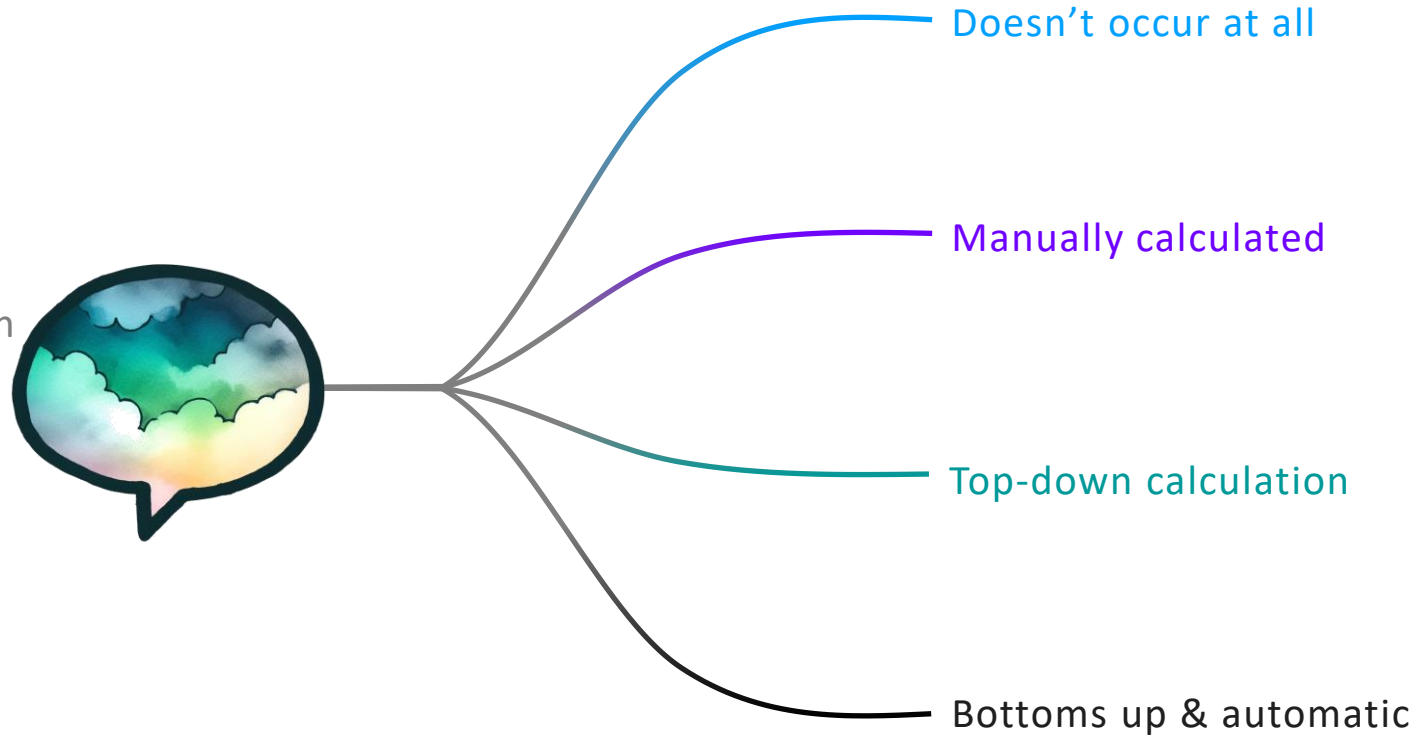


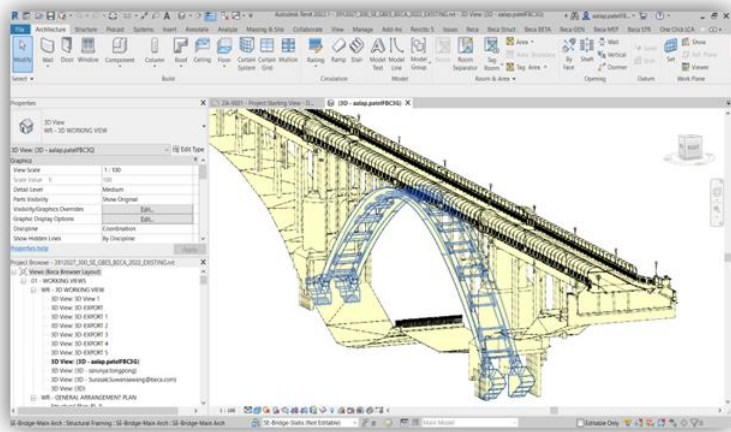
A \$36 billion+ p.a. opportunity



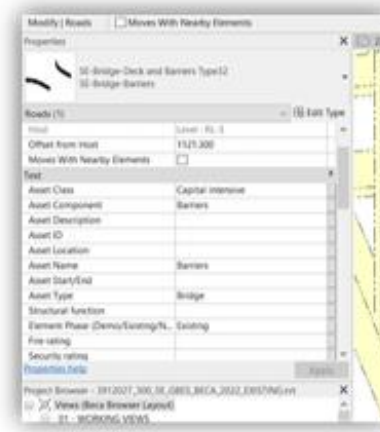
Emissions can be reduced or avoided in design

“How do we currently manage carbon estimation in infrastructure & built environment ...”

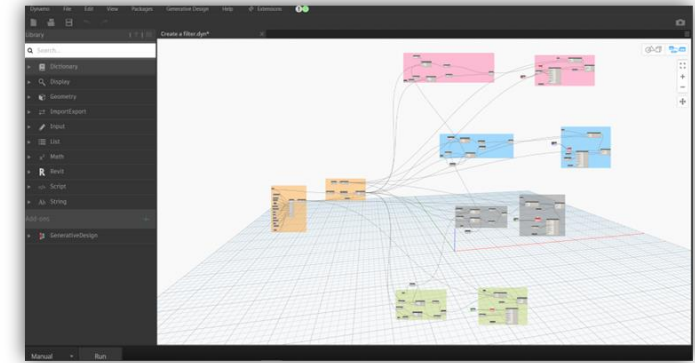




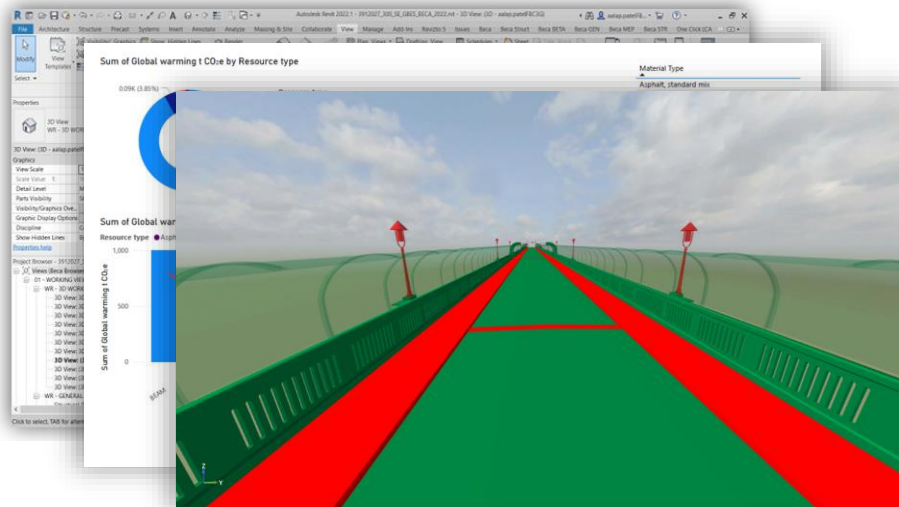
Step 1
Use Model-Based Design



Step 2
Tell Assets What They Are



Step 3
Automate, Automate, Automate



Step 4
Make it Consumable

Individual Designer

Project Leader

Client Leader

Financier

Green/Sustainability Bonds

ESG/EIS Assurance

Financial Assurance

Setting Benchmarks/"Glide Paths"

Decision to Invest

Step 5
Make Better Decisions

Beyond Carbon

What about the other Planetary Boundaries?



Beyond Carbon

Are We Measuring What Matters?

Project	Option #	Carbon	Water	Respiratory Disease	Acidification	Ecotoxicity	Ozone Depletion	Eutrophication	Land Use	Smog	Cost
		TCO2 Eq.	m3	Kg. PM2.5	Kg. So2 Eq	CTUe	Kg. CFC-11 Eq	Kg. N Eq	m2	Kg. O3 Eq	AUD
Project X	1	7,323	12,243	14,369	41,276	38.7m	3.169	444	1.29m	191,964	\$3.04m
	2	2,674	4,534	3,341	14,114	12.8m	1.551	381	1.3m	164,792	\$1.39m
Difference		↓ 63%	↓ 63%	↓ 77%	↓ 66%	↓ 67%	↓ 51%	↓ 14%	↑ 1%	↓ 16%	↓ 54%

The Road Ahead

Dollars Create Designs



Start with the sector accountable for 40% of our annual emissions



Tools are available now; but not routinely used



We need all mechanisms of change working in the same direction:

- Legislation
- Policy
- Technology
- Investment
- Process
- Assurance
- Accountability

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