

Sustainability assessment and planning: the evolution of parallel universes

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The planning universe...



- Started the assessment process due to industrial city issues... 100 years of planning
- Constant interplay between the strategic and the statutory, the vision and the detail...
- By the 1970's modernism had co-opted planning into detail and inflexible manuals... 'PIA'
- Could not handle the environmental revolution which swept across the world. 'Balance/trade-off'.
- Began to include environmental but mostly still design professions trying to minimise impact....

The environmental universe...

- Natural sciences (and engineering) professions began to take the approaches of planning and create their own process through EIA.
- Parallel statutory processes, own language, 'acceptable risk'... still minimising impact.
- Separated into city (PIA) vs bush (EIA), small vs big projects....



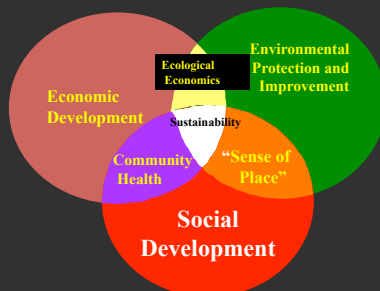
Parallel but...

- Both PIA and EIA mostly reactive and adaptive.
- Economics still drove most decisions and EIA and PIA set conditions afterwards.
- Unable to adapt to the big questions... resource consumption, population, climate change, car dependence, infrastructure priorities... not much 'hope'.



The Sustainability Story

Mid 90's to 2000's



The sustainability bridge...

- Sust Assesst and SEA (SIA) attempted to bring more strategic advice into decision-making. To INTEGRATE with economic and social. SSS...
- Lots of good examples emerging. Feeds into strategic planning and eventually statutory land use but still *not transformative*...
- Planning uses sustainability frameworks but still *struggling to mainstream*... eg BASIX and PRECINX. TOD zoning. Peak Oil Strategies.

Infrastructure Australia – positive sustainability in infrastructure decisions...

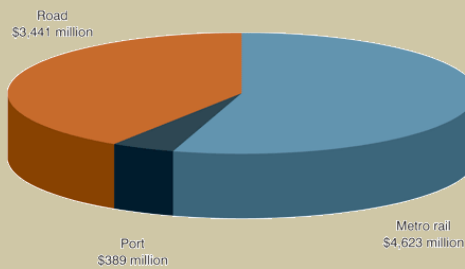
- *Strategic goals* must be met at the first cut... including reduced carbon, as well as productivity gains and social justice gains.
- *Economic analysis* must include all the environmental costs and agglomeration benefits... what it does for cities.
- *Delivery* must include the detail of sustainability assessment...AGIC processes.

Rehabilitating planning in some places... through strategic, sustainability-based approaches

'No plans no money' Kevin Rudd

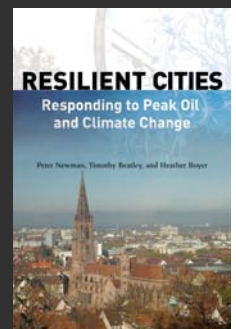


IA Nation Building package – 55% urban rail...historic! BEGINNING POSITIVE SUSTAINABILITY...



Next....Resilience Assessment?

- Providing a framework to *enhance* ecological regeneration, dramatically reduce resource consumption, provide economic wealth and make more liveable.... At the same time.
- Sustainability is too slow... have to show drastic change now.



Masdar City – zero carbon



Traditional solar chimney



Masdar Car free



Bed Zed – first carbon neutral development in UK. All urban development must be C-neutral by 2016.



vauban: plus-energy houses

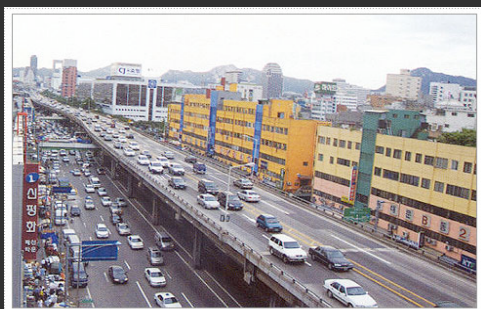
Green Infrastructure for regenerating Stirling City Centre



MIDRISE APARTMENTS

⑤-1 Cheonggyecheon Area before Restoration

<http://www.metro.seoul.kr/eng/2000/cheonggyecheon/eng/0001/2sub.html>



⑥-1 Cheonggyecheon Area after Restoration

<http://www.metro.seoul.kr/eng/2000/cheonggyecheon/eng/0001/2sub.html>



The evolution...?

PIA and EIA
'Minimise
the
impact'

SIA
'Integrate
with other
goals'

RIA
'Transform
the
norm'

GOOD -
ENVT IN
THERE

BETTER -
SOME
ENVTAL
GAINS

BEST -
NET ENVTAL
GAINS