

Natural Capital Entanglements

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The James Hutton Institute

The researchers





- ~300 scientists (of which ~50 social scientists)
- Interdisciplinary team science
- Less teaching but more engagement
- Normative mission for informing and supporting sustainability
- Mix of research funders



'Good' researcher profile

- Publications
- Income generation
- Institute citizen
- Stakeholder engagement

Natural Capital (NC)



What 'is' NC? (Ozdemiroglu, 2019)

"the world's stocks of natural assets which include geology, soil, air, water and all living things."... [from which] humans derive a wide range of services, often called ecosystem services, which make human life possible"

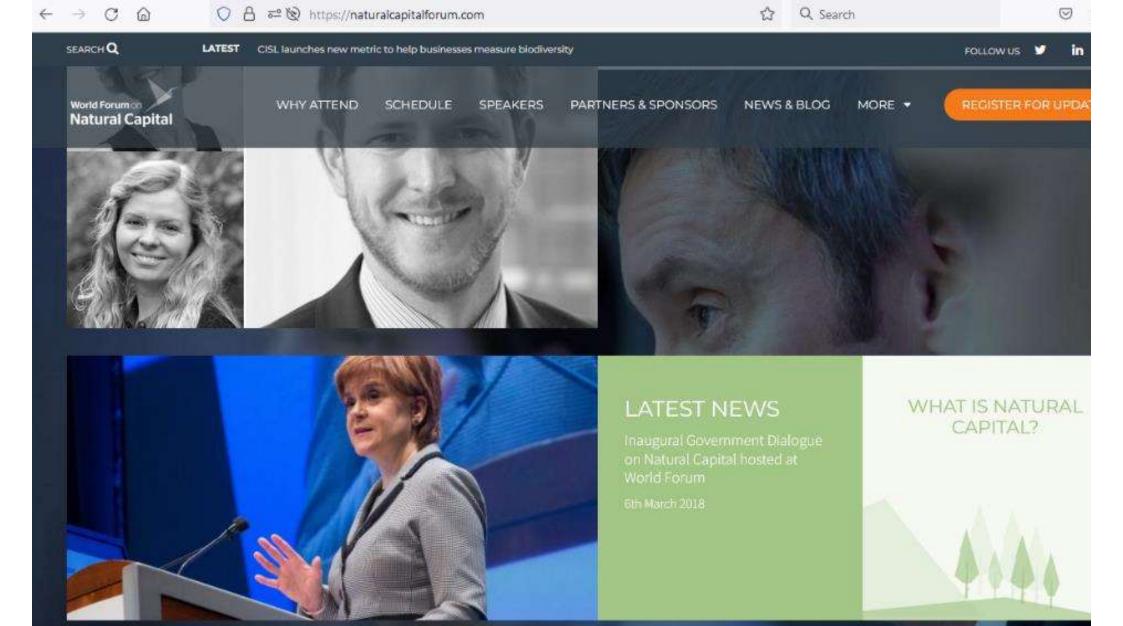
> https://naturalcapital forum.com/about/

- Why NC?
 - To tackle worsening Nature and Climate Crises
 - By 'mainstreaming' nature in decision-making, especially private sector actors (Daily et al 2011)

NC hopes and fears



- Expected to help society especially business and governments - to appreciate value – and risks – arising from natural capital
 - Purposeful assetization (Birch & Muniesa, 2020) associated with categorisation, quantification, monetary valuation
 - Highly contentious negatively associated with 'marketisation' of nature (Spash, 2022)
- Will it transform society to safeguard nature, or vice versa?





GUEST BLOG

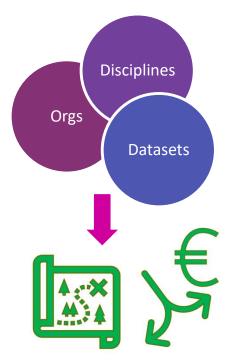
To measure (natural capital) is to know. If you cannot measure it, you cannot improve it.

TWITTER

NC – our research



- Scottish Government funded
- Collectively £1m+ pa, 2022-27.
- 6 projects, 2 organisations
- Over 20 staff, disciplines from anthropology to economics to data science to ecology
- Expect varied outputs from place-specific values, to qualitative interpretive narratives, and large databases, interactive maps and models



NC – our research



Funder objectives for the research

- Improve valuation methods & data
- Connect & analyse existing datasets to understand NC
- Identify how NC can be used in plans & decisions

Expected uses (Nutley et al. 2007).

- Instrumental V V Help inform & improve decisions
- Conceptual V Shaping ideas & debate around NC
- Strategic use ¿? (True for Ecosystem Services.. Waylen & Young, 2014)

What is NC knowledge 'Good for'?

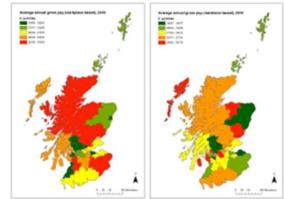


- Cited in the Scottish Government's approach to post-COVID economic recovery;
 - to help achieve "sustainable, inclusive economy... a stronger, more resilient economy" and wider policy commitments on climate change and biodiversity. www.gov.scot/publications/economic-recovery-implementation-plan-scottish-governmentresponse-to-the-advisory-group-on-economic-recovery/documents/
- Expected to help improve decisions
 - Government– motivated by own accounts e.g. NC Asset Index – feeds into National Performance Framework
 - Private actors own decisions e.g. to protect supply chain, investments of Financial services in nature

Plurality of 'Good' NC knowledges



- For whom / whose decisions? Multiple potential intended targets (e.g. society, investors, agribusinesses)
- Varied scales & levels national maps, landscape plans, local participatory values
- Varied types of data and knowledge desired/expected: national maps, quantified models and values, local-specific relationships, generalisable recommendations



NC knowledges



- Multiple and high expectations
- Some potential inconsistences
 - e.g. national datasets derived from pre-existing biophysical datasets may not reflect understandings and priorities identified by local-level deliberations
- Some insights asked for, but may get lost?
 - Strong focus on assessments, accounts and counting (at least, by Government). Narrative descriptions of relationships with place – lost within initiatives such as the Natural Capital Asset Index (NCAI)?

NC Researcher responses



Invest in relationships

- Build cross-project relationships, cross-team connections, cross-discipline appreciation
- Spend time linking to policy and other non-academic initiatives, for our understanding & eventual targeting

Acknowledge pluralism, tensions or inconsistencies

- Acknowledge plurality, other (complicating) perspectives when communicating insights
- Join together for some events and outputs

NC Researcher responses



Other potential tensions or inconsistencies

- e.g. Greater private sector role may be in tension with government goals and research focused on improving community inclusion?
- Colleagues emphatically opposed to NC

Lean in to entanglements

 Significant (hidden) efforts – some redolent of 'emotional labour' (Bergman Blix & Wettergren, 2014)

'Good' researchers – whose view



Institute criteria

- Engagement & impact
- Institute citizenship
- Papers
- Funding





Academic peers & employability

Institute criteria reflects & rewards some of the work But more problematic for early career researchers?





Good NC knowledges

Good NC researchers



Neither perfectly aligned nor completely conflicting

NC Entanglements



- Echoes of challenges reported for 'applied research' (Hall et al. 2018) and transdisciplinarity (Lawrence et al. 2022)
 - Complicated by multiple expectations and potential inconsistencies linked to NC
 - Not just one 'thing' context & rationality shape implications (Leibenath, 2017)
- NC Research may help assetize nature for policy & business, though not necessarily easily, including for researchers

Thank you!

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