



Dr Victoria Janes-Bassett and Prof Jess Davies

v.janes@lancaster.ac.uk



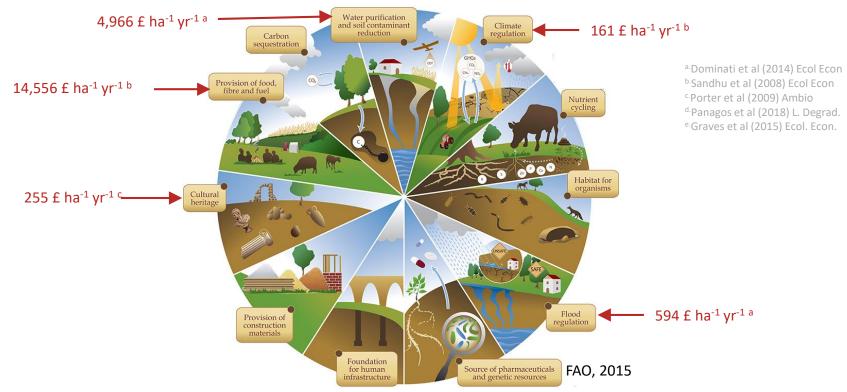






Soils are valuable

but they're degrading



Crop productivity losses due to soil erosion in the EU €1.25 billion yr^{-1 d}

Soil carbon loss in England and Wales £570 million yr⁻¹ e



Five benefits for business

Soils underpin agribusiness.

Taking a natural capital approach to soils in agri-food businesses, and investing in improving soil natural assets offers five main opportunities:

- 1. Business risk and resilience
- 2. Reducing costs
- 3. Increased product value
- 4. Co-benefits
- 5. Stewardship



Natural capital is key to long-term sustainable business model.





Natural Capital Accounting needs



Understanding risk: capture the whole pathway between drivers, supporting processes, soil natural capital stocks, services and benefits.



Building a strong business case: consider the diverse range of soil benefits not only crop productivity.



Differentiating benefits: recognising both private and public benefits, whilst acknowledging that public benefits also have private value.









Soil natural capital valuation in agri-food businesses

Valuing Nature | Natural Capital Synthesis Report

Authors: Victoria lanes, Bassett & Jessica Davies Pentland Centre for Sustainability in Business, Lancaster Environment Centre, Lancaster University

Future steps

Science understanding

- There are gaps, but we know enough to get started.
- Need to consider wider range of soil ecosystem services and benefits.
- Need for dynamic representation of soil stocks and integration of processes.

Bridging the science-business gap

- Closer partnership between science and business.
- More funding mechanisms that allow sciencebusiness co-creation.
- To develop a community of practice around soil natural capital.

Victoria Janes-Bassett: v.janes@lancaster.ac.uk

Jess Davies: j.davies@lancaster.ac.uk

www.valuing-nature.net/SoilNC







