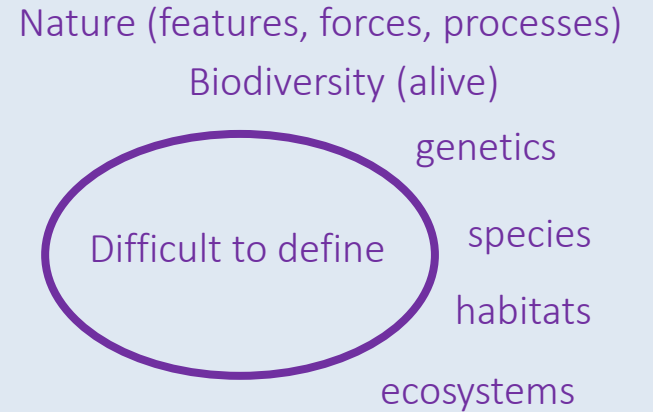
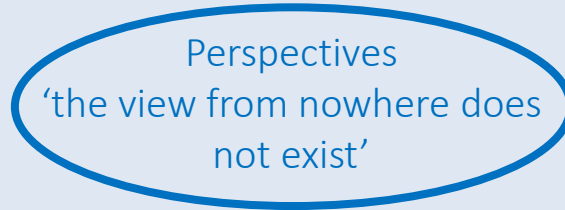


history geology ecology economics Soil sciences Social sciences philosophy
 anthropology Physical sciences Climate sciences psychology ethics Political sciences
 'Food, drink and fibre' Art and design Planners and developers

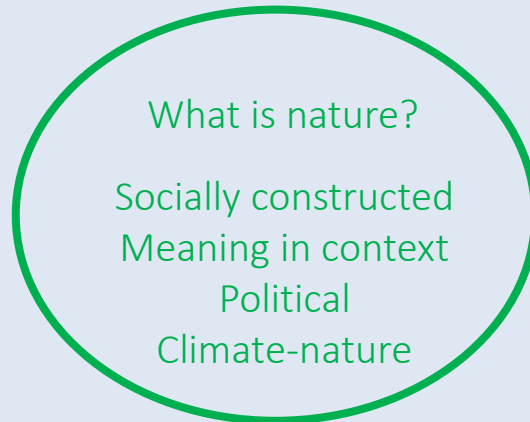
Uneven distribution of costs and benefits – winners and losers – power relations and politics

Asymmetries: spatial, temporal, affluence

Overlapping public goods from local to global



People apart from nature
 People a part of nature



Protected areas (no. area, type, quality, condition...)

Intrinsic value



Socially constructed
 Meaning in context
 Political
 Climate-nature

Priority species
 Age diversity

Utilitarian value
 Chan et al
 Relational value

Number of species



Function

Nature for itself
 Nature for people
 Mace
 Nature despite people
 Nature and people

Diversity of species

connectivity



NatureScot

Scotland's Nature Agency
 Buidheann Nàdair na h-Alba

Chan et al (2016) Why protect nature? Rethinking values and the environment, *PNAS* **113**(6):1462-1465
 Mace, G (2014) Whose conservation, *Science* **345**: 6204

Structural diversity

fragmentation

qualitative

quantitative

history geology ecology economics astronomy Social sciences

anthropology Physical sciences Oceanography philosophy

Uneven distribution of costs and benefits – winners and losers – power relations and politics

Political sciences psychology

ethics

Human factors

perspectives

Natural factors timeframe

Asymmetries: spatial, temporal, affluence

Policy challenges

Difficult to define

GMST Mitigation

Sectoral issue versus a systemic issue

'Dangerous' (2°C, 1.5°C) Adaptation Spatial scale

Attribution: responsibilities

Climate Change?
Socially constructed
Meaning in context
Political

Emissions by consumption
Emissions by production
Emissions by country

People apart from nature

Values

People a part of nature

It's the economy, stupid

Narratives

Emissions by sector

Difficult to measure
Per capita emissions

It's population

GtC, ppm, CO₂, CO₂e

It's consumption

Cumulative emissions

It's our way of life

Baselines (e.g. 1850, 1992, today)

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It's about fuel-switching

It's the end of the world as we know it

Peak emissions (timing, intensity)