

Towards a Nature Rich Future

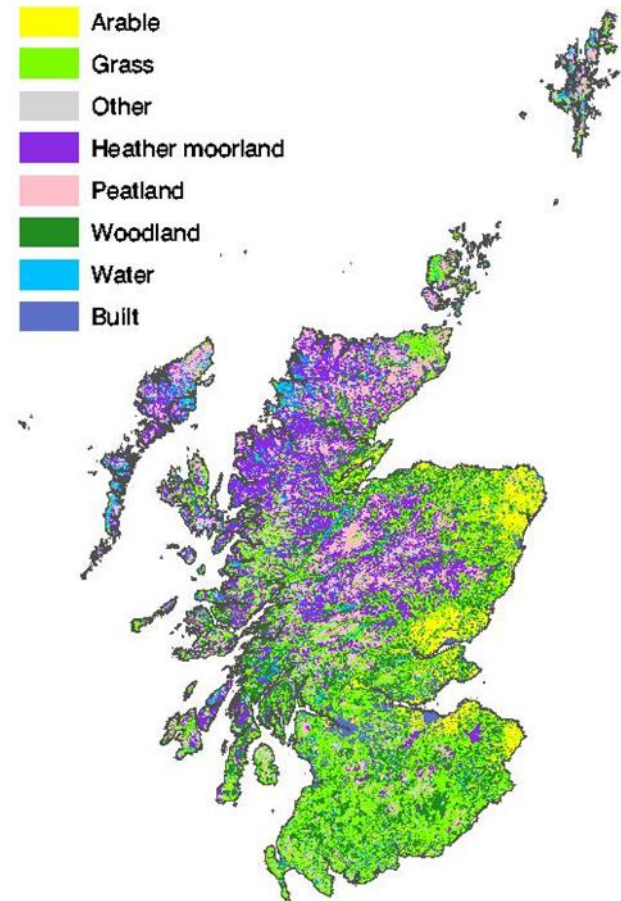


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What makes Scotland special for nature?

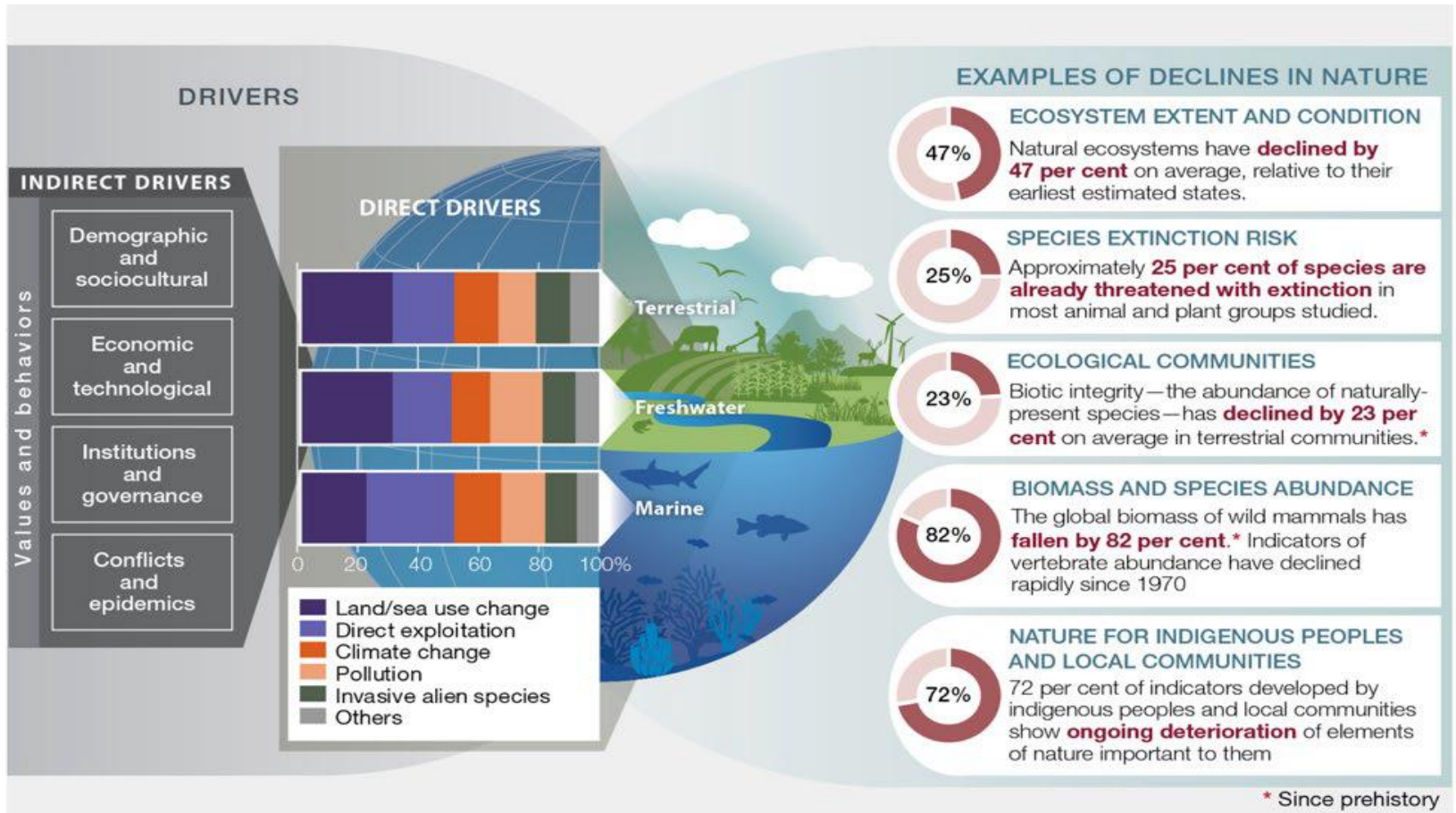
- Northwest Europe outpost
- Mixture of biogeographical elements
- Richness of native species
- High proportion of Europe's species
 - Bryophytes (58%)
 - Birds (42%)
 - Amphibians (10%)
- 33% of world's grey seals



So what happened?



Global picture



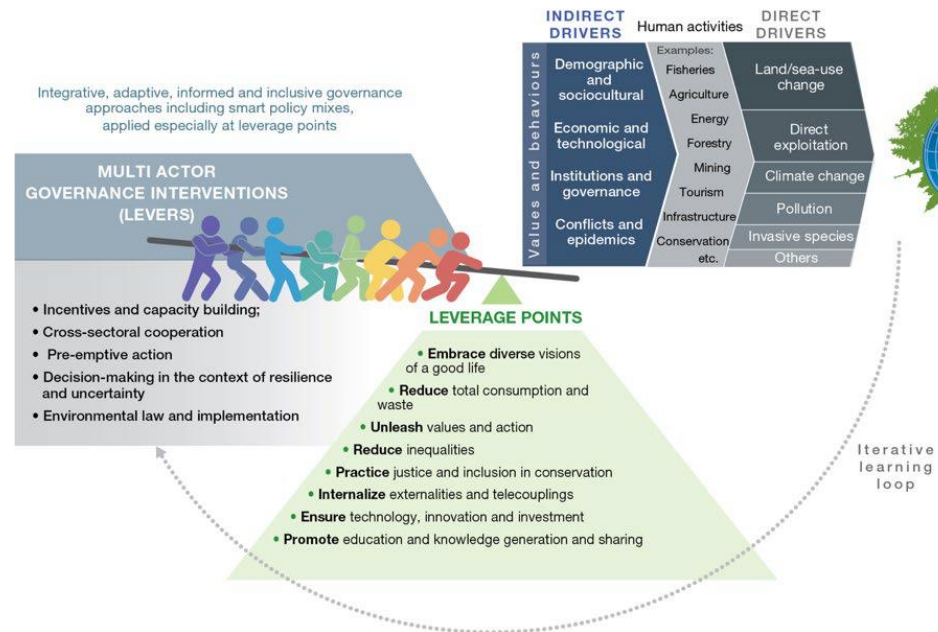
Key findings – issues

- **Nature** and its vital contributions to people, which together embody biodiversity and ecosystem functions and services, are **deteriorating worldwide**.
- **Direct and indirect drivers** of change have **accelerated** during the past 50 years.
- Goals for conserving and sustainably using **nature** and achieving **sustainability cannot be met by current trajectories**, and goals for 2030 and beyond may only be achieved through transformative changes across economic, social, political and technological factors.



Key findings - solutions

- **Nature can be conserved**, restored and used sustainably while simultaneously meeting other global societal goals through urgent and concerted efforts fostering **transformative change**.
 - Fully implement current policies and regulations
 - Reform harmful policies and subsidies
 - Enlist individual and collective action
 - Cross-sectoral solutions
 - Innovative governance



UK Net Zero - recommendations



Scotland

- Net zero by 2045
- 95% by 2040
- 70% by 2030
- = 6-8% p.a. from 2020
- 2009-2019 c. 3% p.a.
- **More than twice the effort to date**
- **From organisation by organisation and sector by sector to**
- **Collaborative and place-based**

4°C

Business as Usual

Scottish Natural Heritage

The Climate and Nature Emergency

3°C

2°C

1°C

1,000 GtC

2°C

Paris Agreement

1.5°C

Protected areas – features of interest as they were c. 1980 to 2000

Requires annual emission reductions of 6-7% p.a. from all developed countries (including China and USA) from 2020



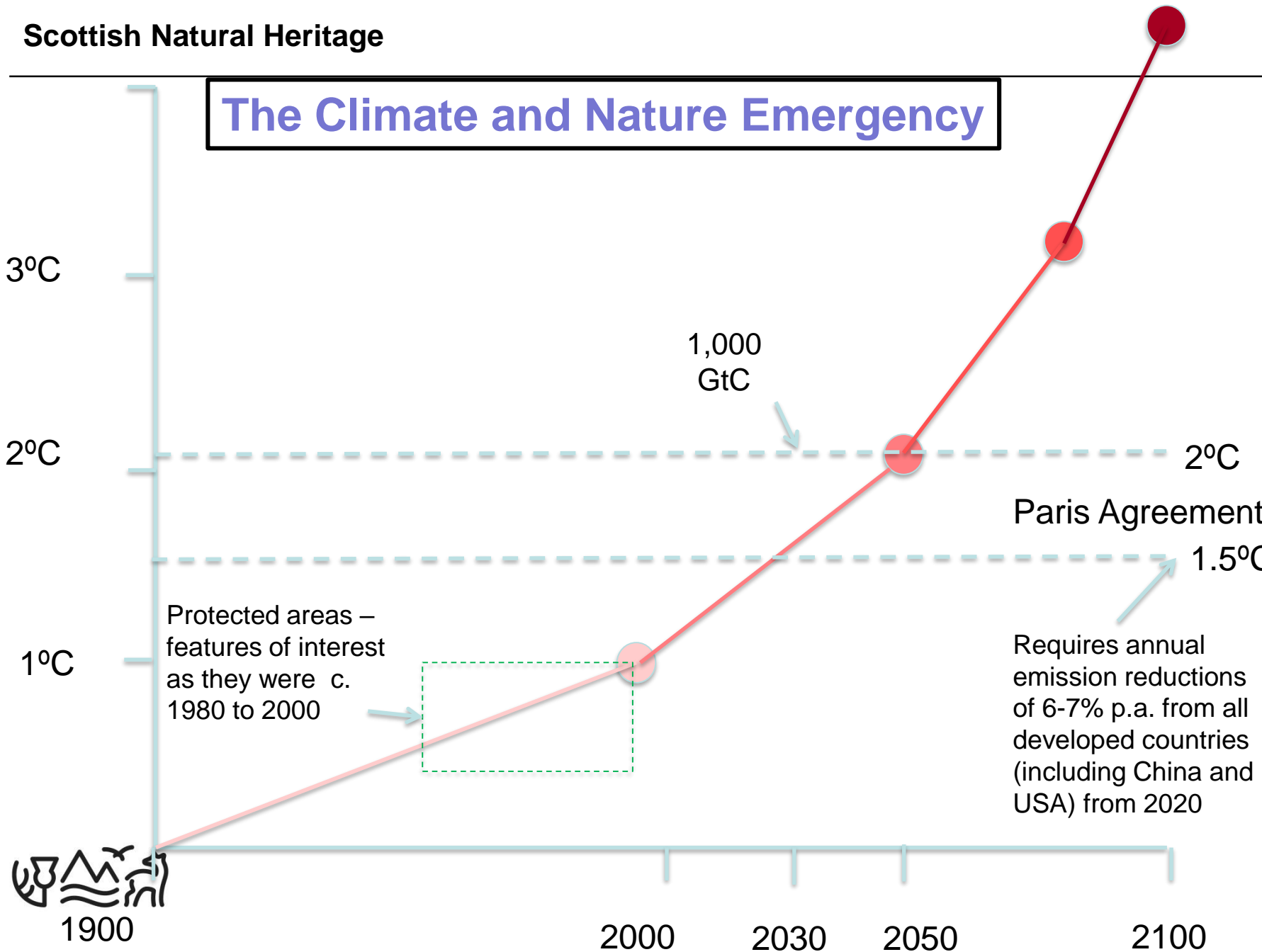
1900

2000

2030

2050

2100



Nature's response

Abundance of terrestrial breeding birds (1994-2015) ↑

Wintering water-birds (1975- 2014) ↓

Breeding seabirds (1986-2015) ↓

National Plant Monitoring Scheme 2015- **baseline**

Butterflies – specialists (1979- 2014) ↓

Butterflies – generalists (1979- 2014) ↔

Notified species in favourable condition (1999-2016) ↑

Notified habitats in favourable condition (1999-2016) ↑

Attitudes to biodiversity (2006-2014) ↓

Membership of biodiversity NGOs (2010-2014) ↑

Involvement in biodiversity conservation (2010-2015) ↔



Scotland



Action for nature & climate change



Marine Protected Areas

- Increase resilience and offer protection
- Sentinel sites
- Blue carbon stores
- Protecting coastlines & communities
- Series of sites for features on the move

Peatland restoration

- Almost 20,000 ha restored
- Carbon stored
- Water quality improved
- Flood management improved

