Reaching
Conservation Goals:
A Snapshot of where
we are!

Jon Hutton



#### A collaborative effort

Supported by:



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Swiss Confederation

Federal Office for the Environment FOEN

#### In collaboration with:











































### Aichi Target 11

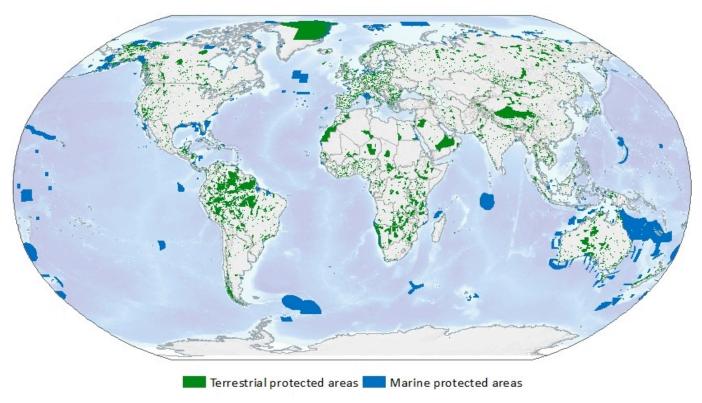
By 2020, at least



17 per cent of terrestrial and inland water areas, and 10 per cent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes.



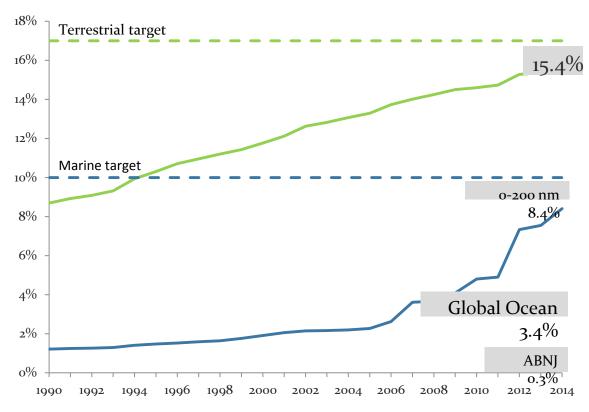
#### Quality of the data....



Points	5%
Polygons	95%



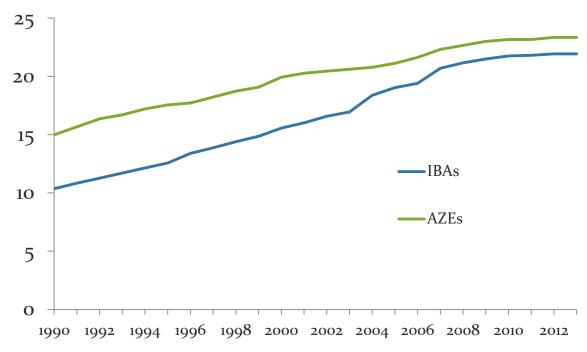
## 17 per cent of terrestrial and inland water and 10 per cent of coastal and marine



15.4% of terrestrial and inland waters within protected areas. 3.4 % of the global ocean area: 8.4% of all marine area under national jurisdiction and 10.9 % of all coastal waters, but only 0.26 % of high seas



# areas of particular importance for <u>biodiversity</u> and ecosystem services



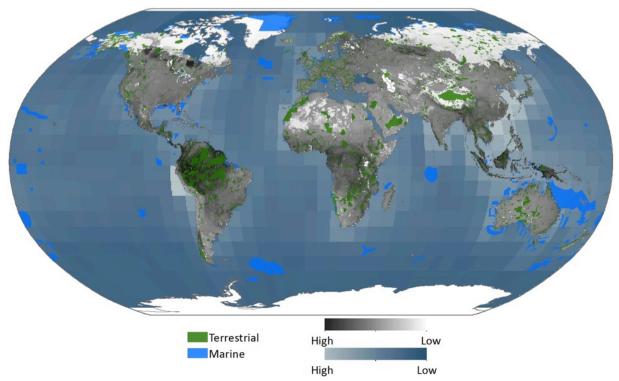
Proportion of IBAs and AZEs completely covered by protected areas

In 2013, only 23% of IBAs and 22% of AZEs were entirely within protected areas



Butchart et al., in review

#### areas of particular importance for biodiversity and ecosystem services



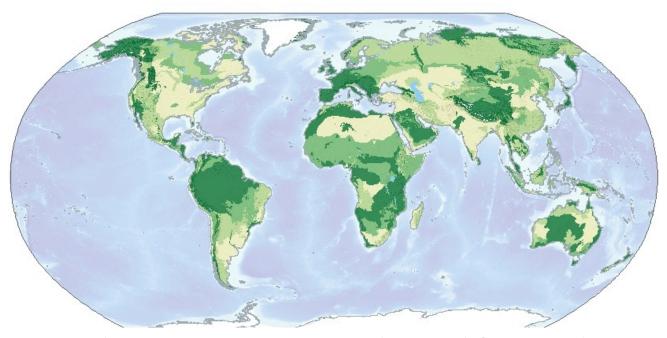
A work in progress: protected areas within humid tropical forests contain 3.5% of global terrestrial carbon stocks





#### ecologically representative and well connected systems

#### Terrestrial ecoregion protection in 2014



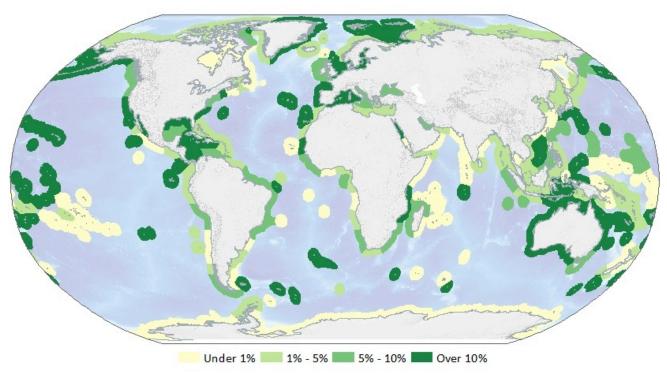
823 terrestrial ecoregions in seven realms and fourteen biomes. The Neotropics is the only realm with 17% coverage. Temperate grasslands (4.5%) and tropical and subtropical dry broadleaf forests (9.6%) are worst biomes...



Olson et al. (2001) Terrestrial Ecoregions of the World (823)

#### ecologically representative and well connected systems

Marine ecoregion protection in 2014

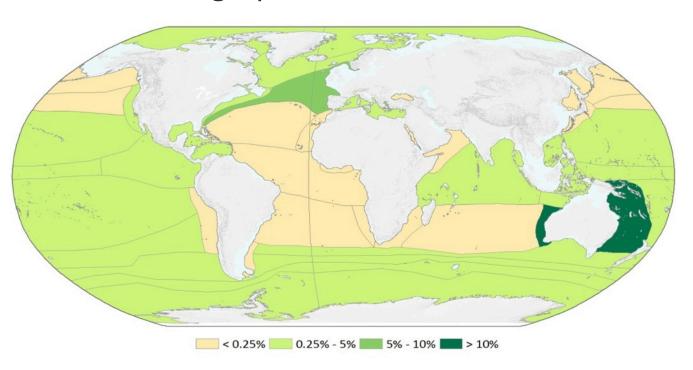


232 marine ecoregions in 62 marine provinces and 12 marine realms. Half of the realms and 39% of the provinces meet the 10% target



#### ecologically representative and well connected systems

#### Pelagic provinces in 2014



37 pelagic provinces: 66% of the earth's total surface. Only 2 (5%) of the 37 pelagic provinces meet the 10% target...



Spalding et al. (2012) Pelagic Provinces(37)

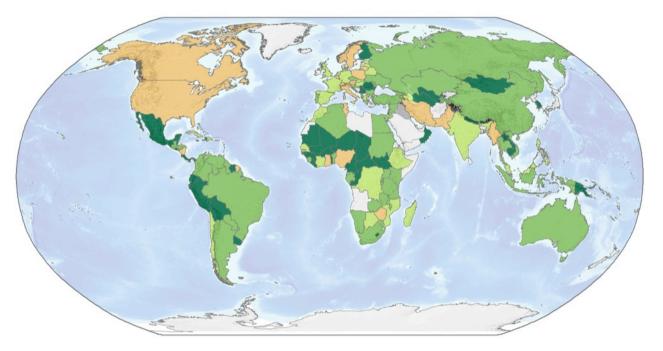
#### Effectively managed protected areas

Are management inputs and processes relevant and appropriate?



Are values of the protected area being maintained and objectives achieved?

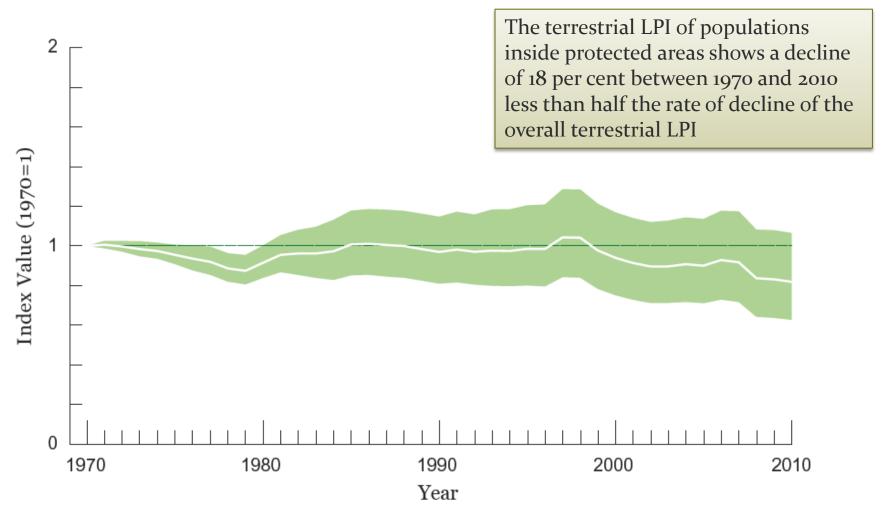
#### Assessments of PA Management Effectiveness



In 2013, only 45 countries had assessed the management effectiveness of >60% of the total area of their marine and terrestrial protected areas.



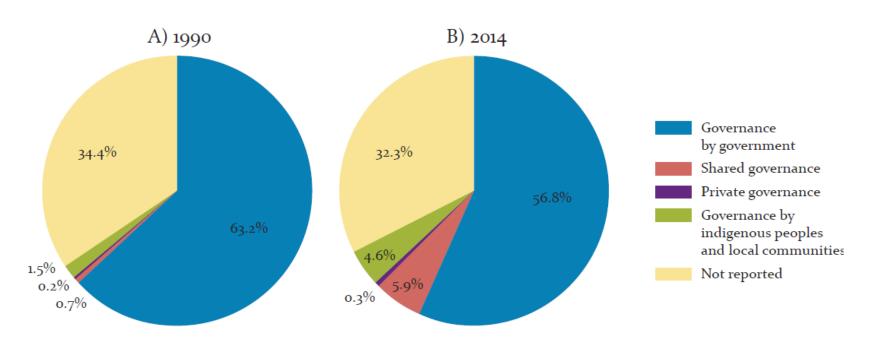
Source: Coad et al. 2013





Source: WWF, ZSL 2014

#### Governance type



On its way – the WDPA is being 're-imagined'....

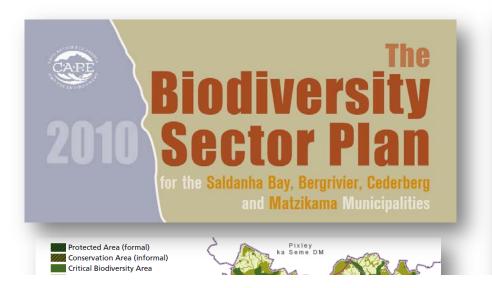
#### ...other effective area-based conservation measures



The need to account for and measure the extent and nature of "other" areas remains an important gap in global conservation statistics.



#### integrated into the wider landscapes and seascapes.





Protected areas should be integrated into national and local planning. There are already numerous mechanisms for doing so, ranging from scientific methods such as systematic conservation planning at landscape scales, to CBD-endorsed processes like NBSAPs and national-level planning such as the Biodiversity Act in South Africa.





### Thank you...











