

Upland Ecosystem Options: future landscapes at a farm scale.





Upland treescapes

Welsh Uplands:	401,50 0ha
Grass & marsh	157,30 0
Heath	79,100
Mire & swamp	68,800
Bracken	32,600
Rock	9,900
Upland semi-natural BL woodland	2,300
Upland scrub	660



- Celtic rainforest; diminished, fragmented and invaded (sheep, goats & rhododendron)
- Upland scrub = natural regeneration / incipient woodland
- Ffridd / upland fringe; heath, wood, grass, Hush, bog & rock mosaic.

Land resource planning

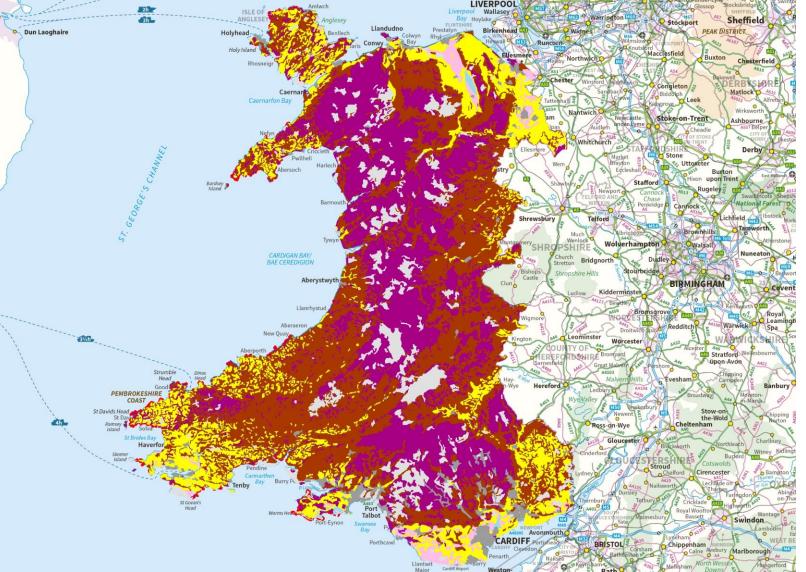


Land Resource Planning; "systematic assessment of land potential and land-use alternatives for achieving optimal land uses and improved socio-economic conditions" (FAO)

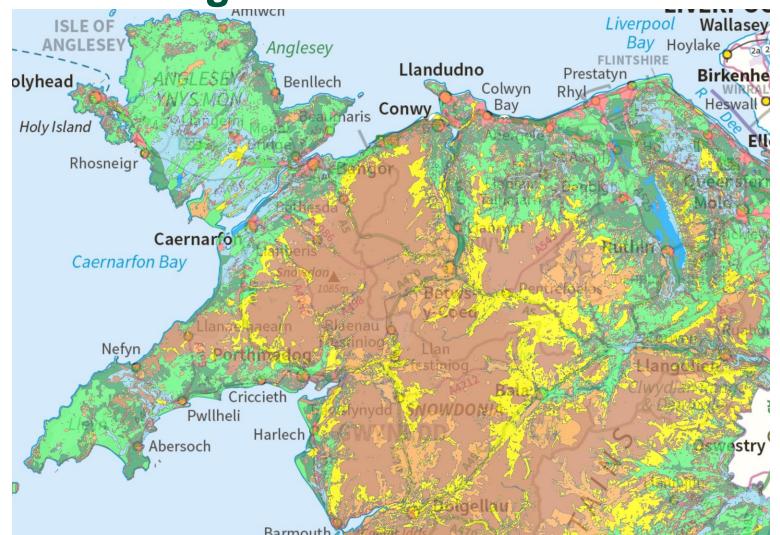
- 1. Agricultural Land Capability classification (ALC)
- 2.Projected ALC
- 3. Projected tree crop capability
- 4. Opportunity mapping,
- **5.Working with Natural Processes**
- 6. Upland Ecosystem options.

Land Resource Planning Agricultural land classification





Land Resource Planning Predictive Agricultural land Classification

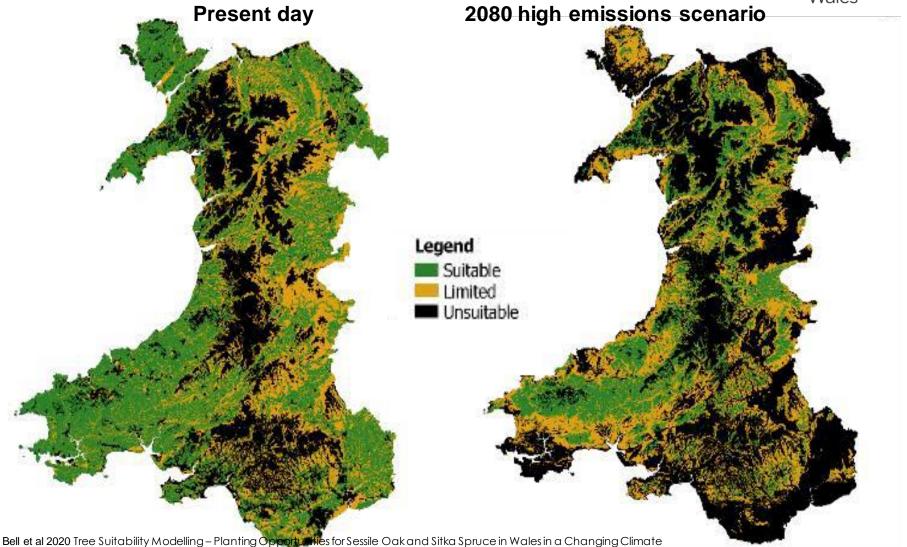


Cyfoeth **Naturiol**

Cymru **Natural** Resources

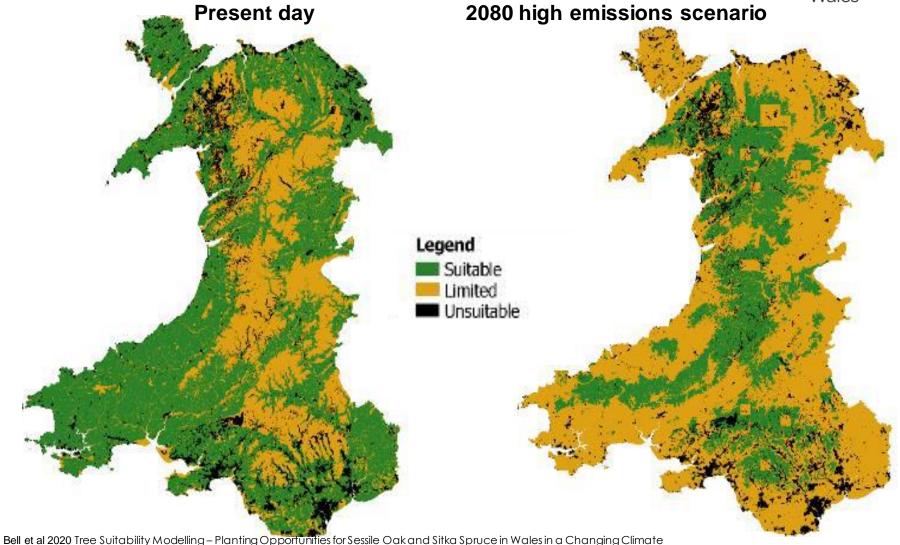
Land Resource Planning Biophysical constraints for Sessile Oak



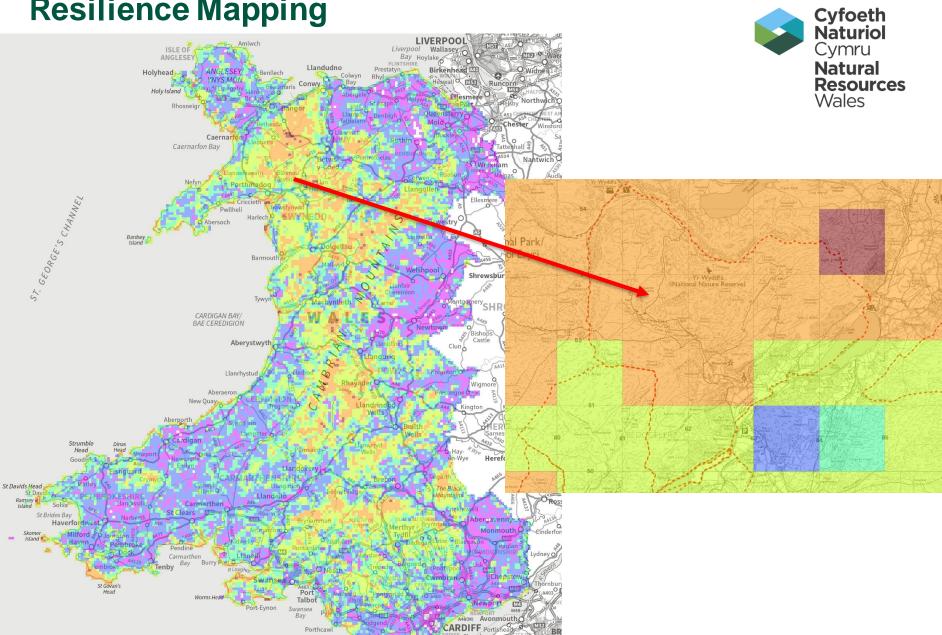


Land Resource Planning Biophysical constraints for Sitka





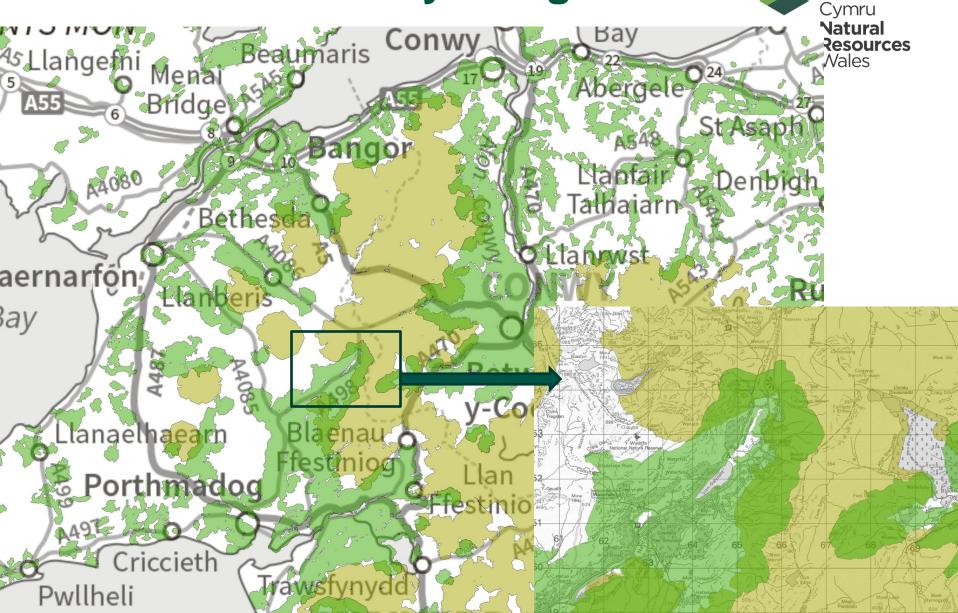
Resilience Mapping



Habitat Connectivity - bog Cyfoeth **Naturiol** Cymru **Natural** Bay Conwy Resources Beaumaris Wales ₫5 Llangefni Abergele²⁴ Menai Bridge) St Asaph A548 Bangor Llanfair A4080 Denbigh Talhaiarn Bethesda Llanrwst aernarfőn; Ru Llanberis Bay A487 Pentrefoelas A4085 Betws y-Coed Blaenau Llanaelhaearn Ffestiniog Llan Porthmadog elyn **Ffestiniog** A497 Bala Criccieth Trawsfynydd Pwllheli

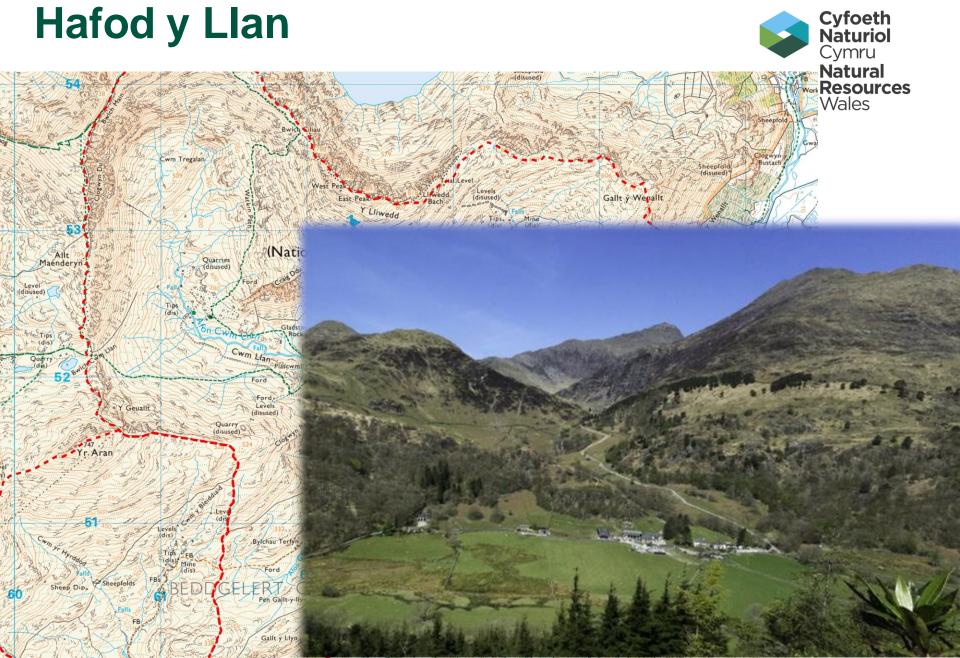
Llvn

Habitat Connectivity – bog & wood



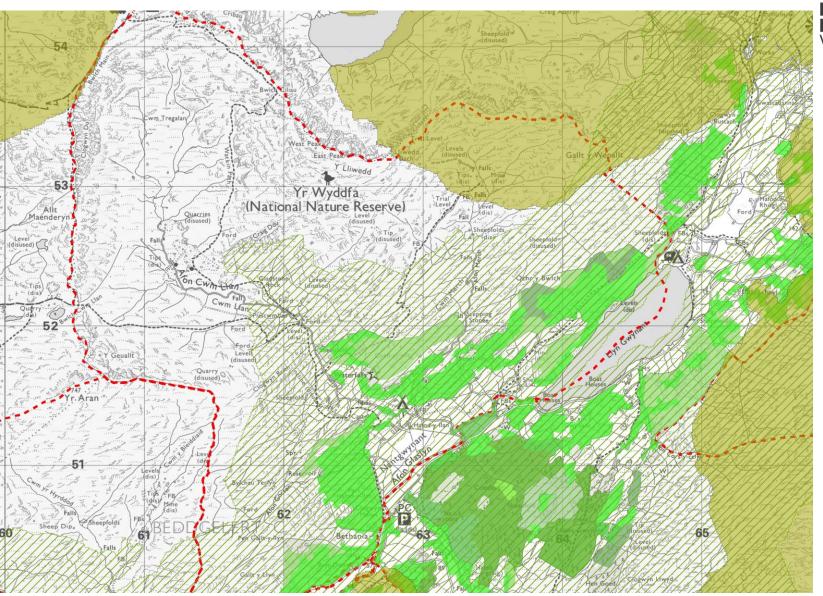
Cyfoeth Naturiol

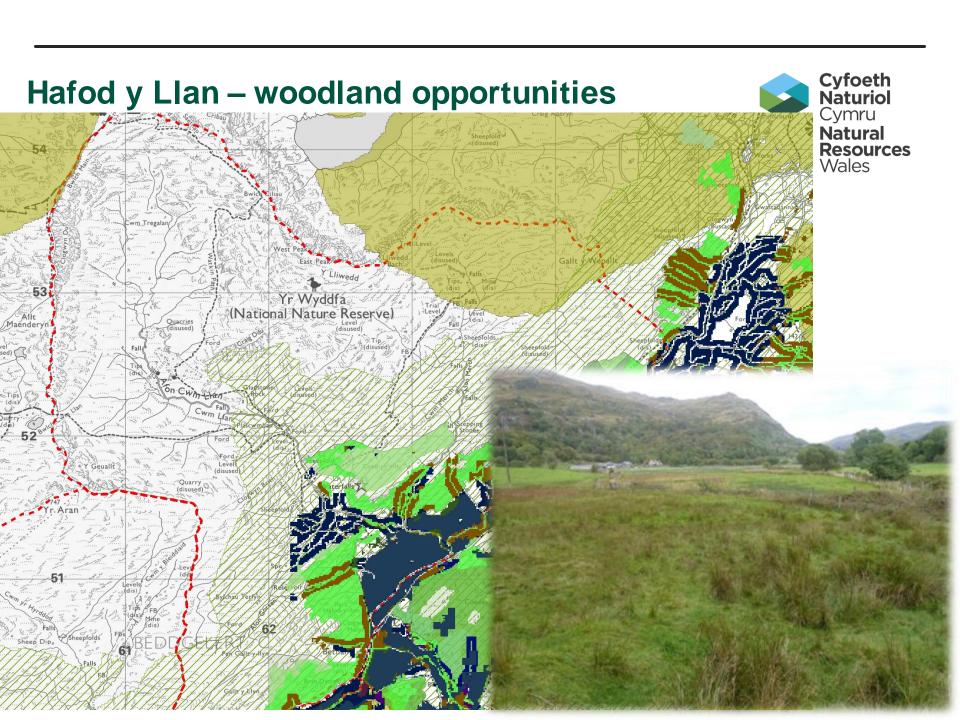
Hafod y Llan



Hafod y Llan – woodland

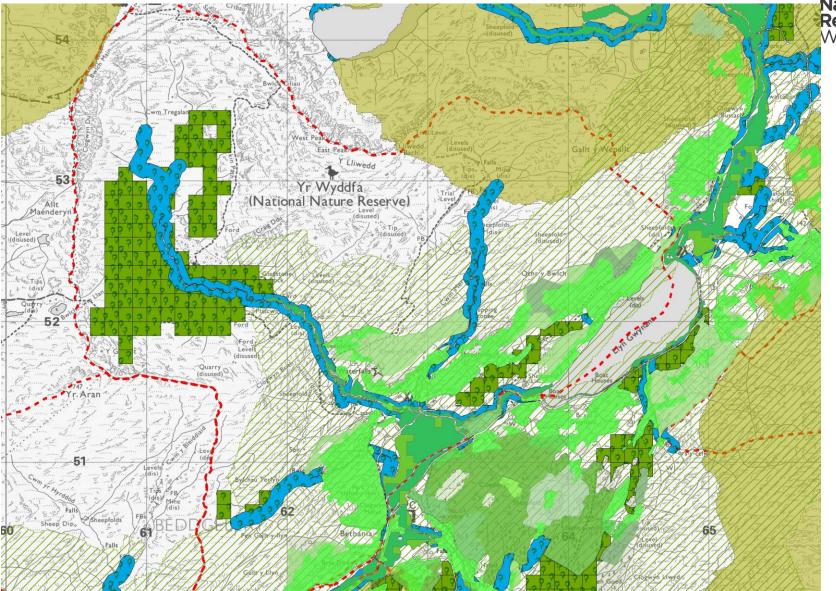




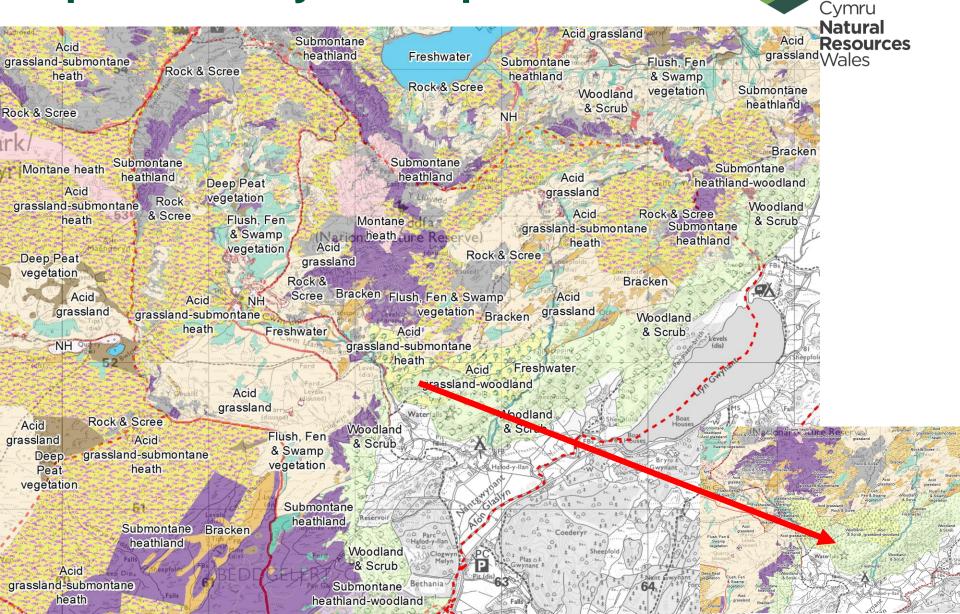


Hafod y Llan – woodland opportunities "Working With Natural Processes"





Upland Ecosystem Options



Cyfoeth Naturiol

Upland Ecosystem Options



