

Demands on Land

Making the most of our land

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Growing demands on land



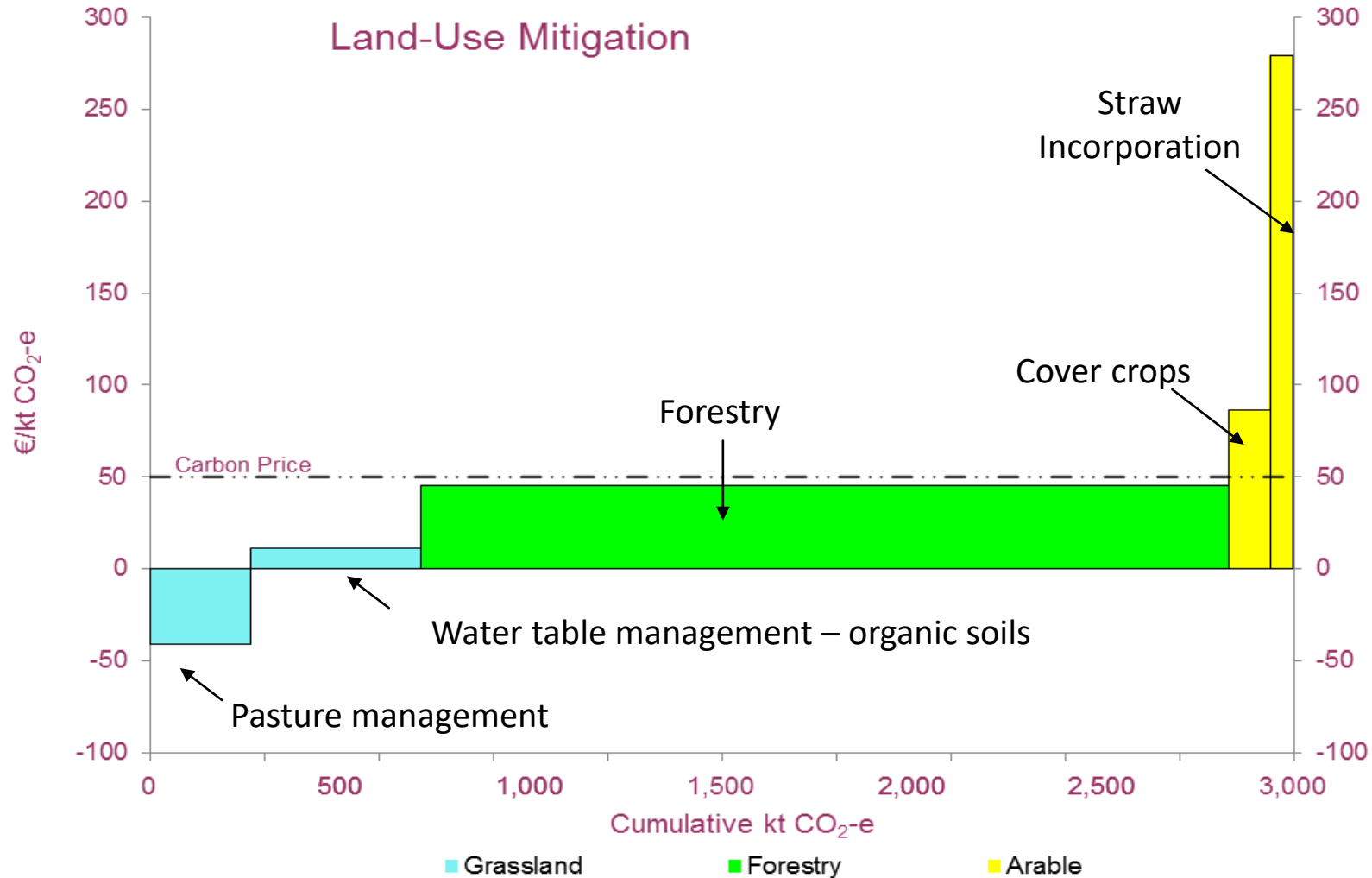
Land – a multifunctional resource



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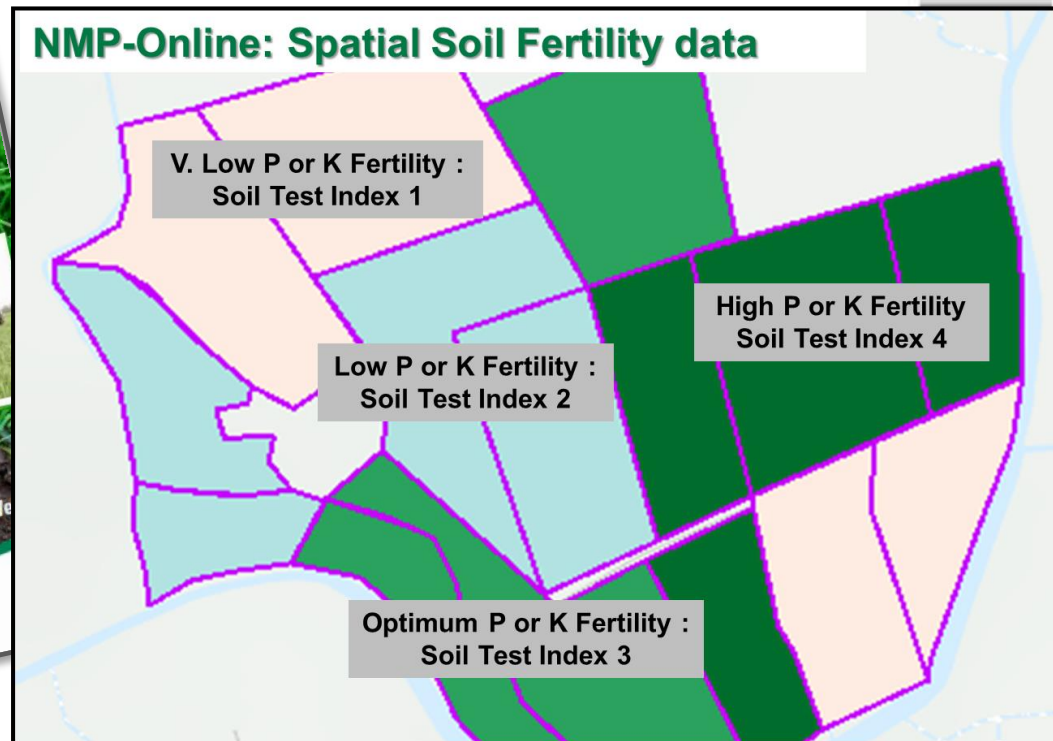
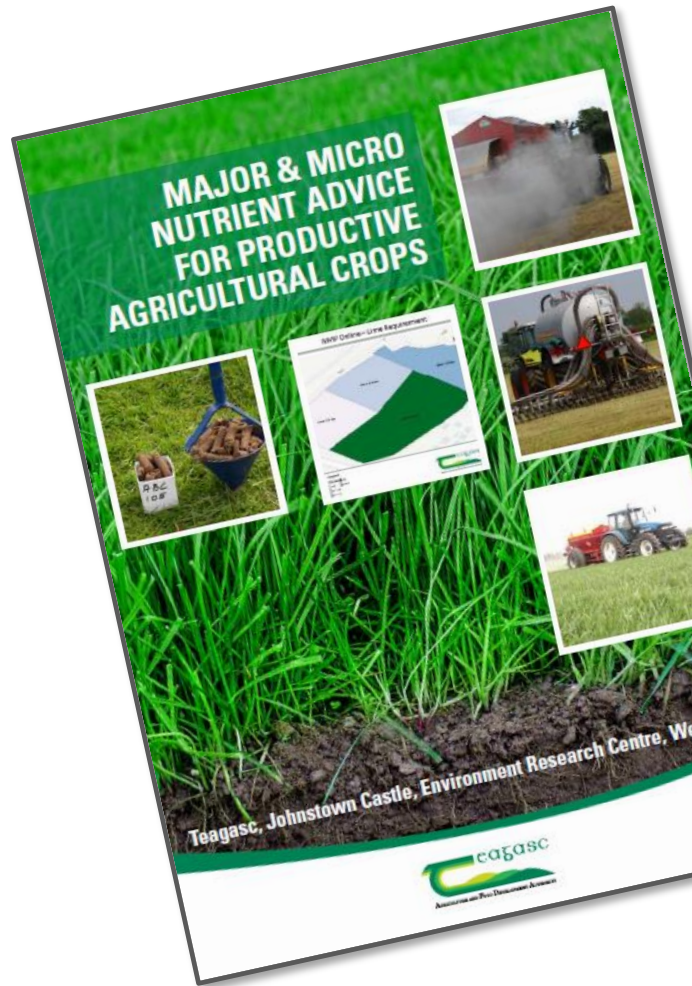


MACC Land-use and C sequestration



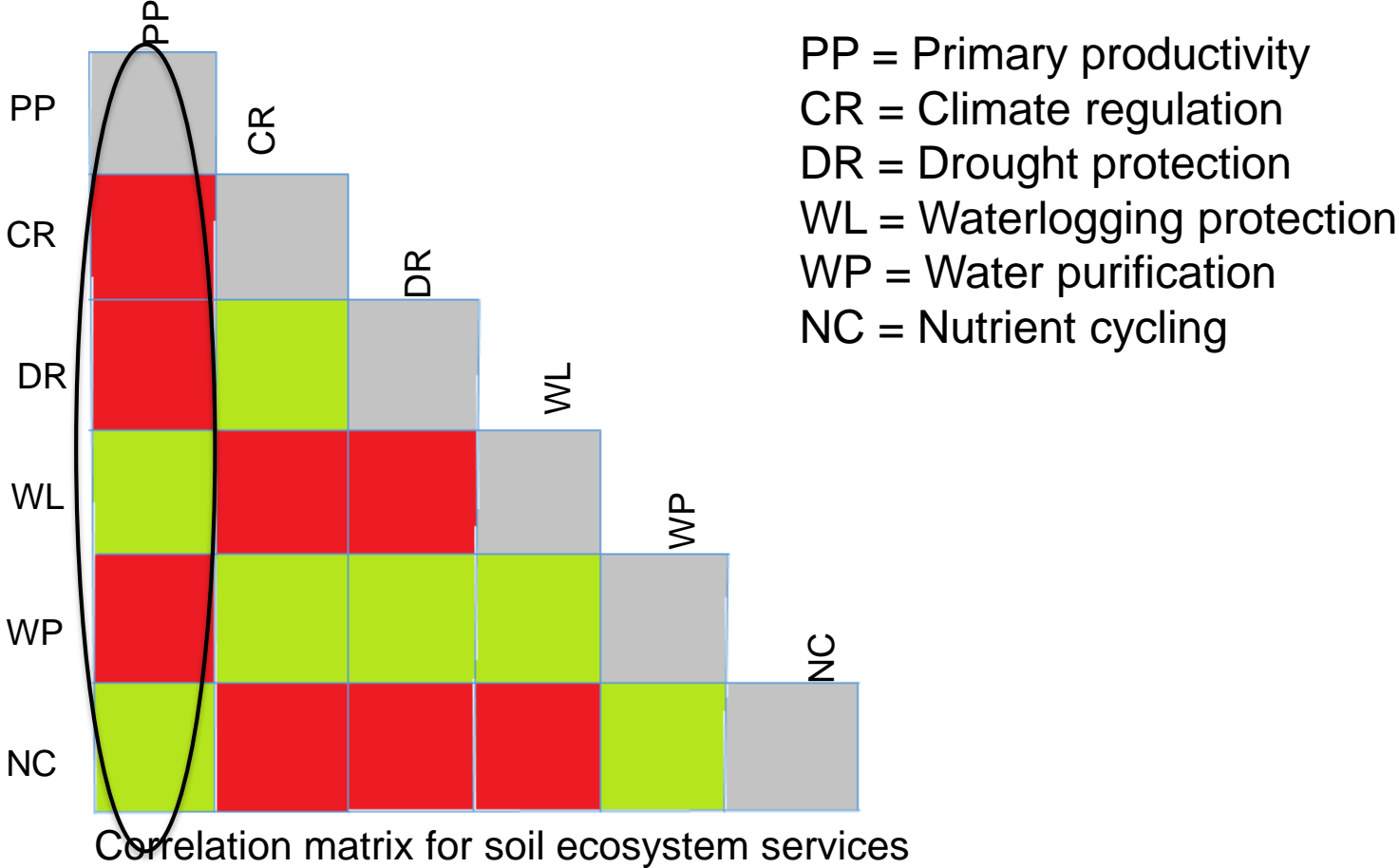
Managing nutrient cycling

>55,000 FARMERS



What is the challenge?

The challenge – synergies & trade-offs

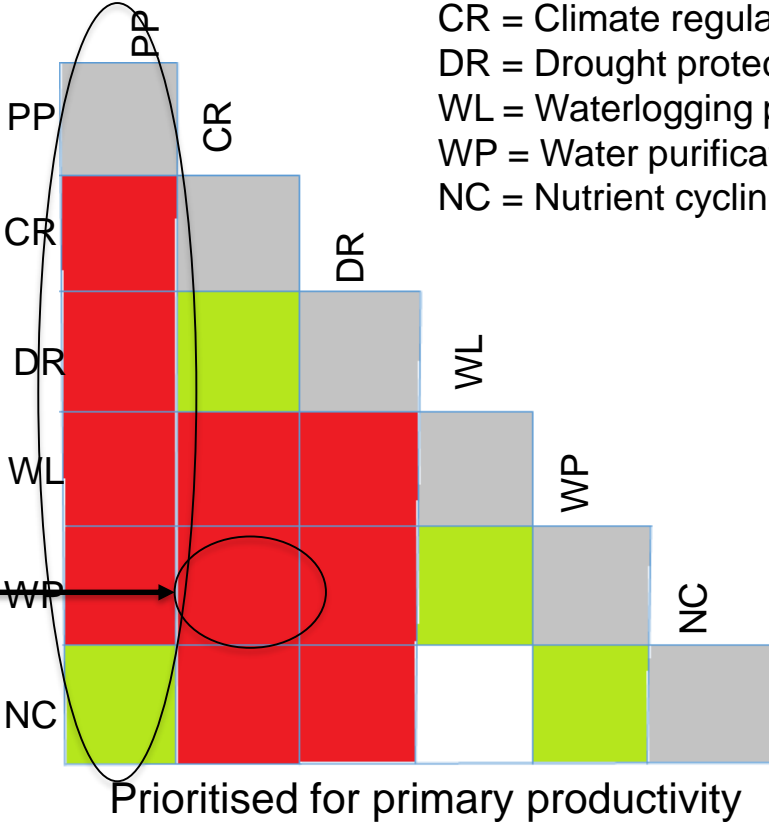
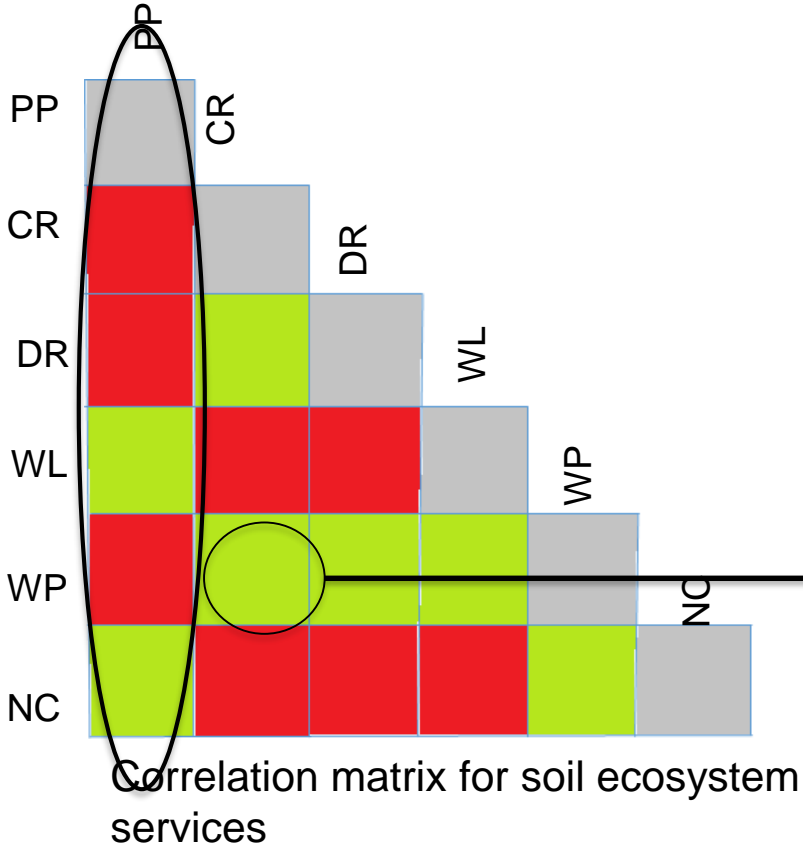


Modified graphs from Vrebos et al.. (2020)

The challenge – synergies & trade-offs



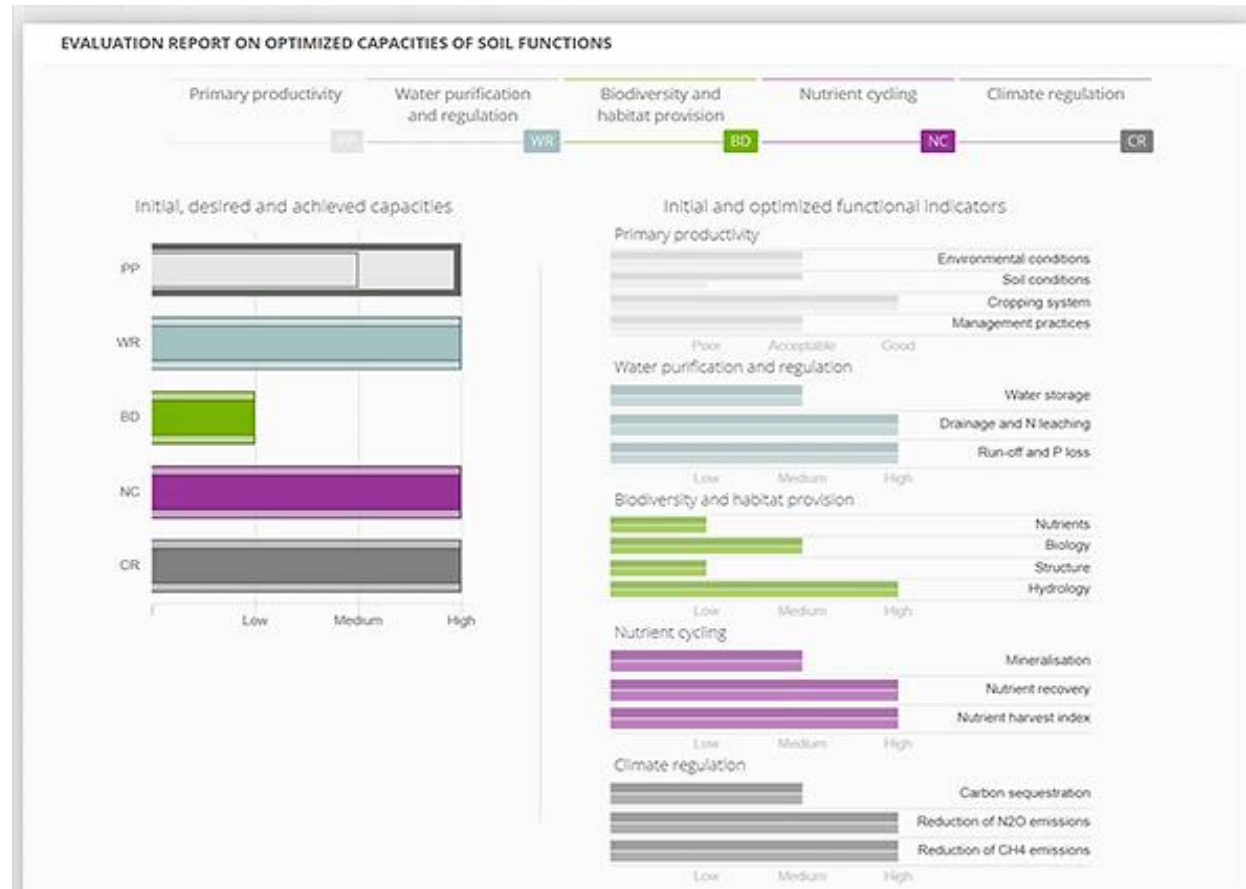
PP = Primary productivity
 CR = Climate regulation
 DR = Drought protection
 WL = Waterlogging protection
 WP = Water purification
 NC = Nutrient cycling



 Positive  Negative

How can we manage these trade-offs?

Integrated assessment tools



SUMMARY

- Demands on land are growing
- Managing for the delivery of multiple ecosystem services is very complex
- Trade-offs and synergies exist
- Integrated assessments can build on existing research
- More tools are required for sustainable land management – integrated MACC?

Thank you

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References

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