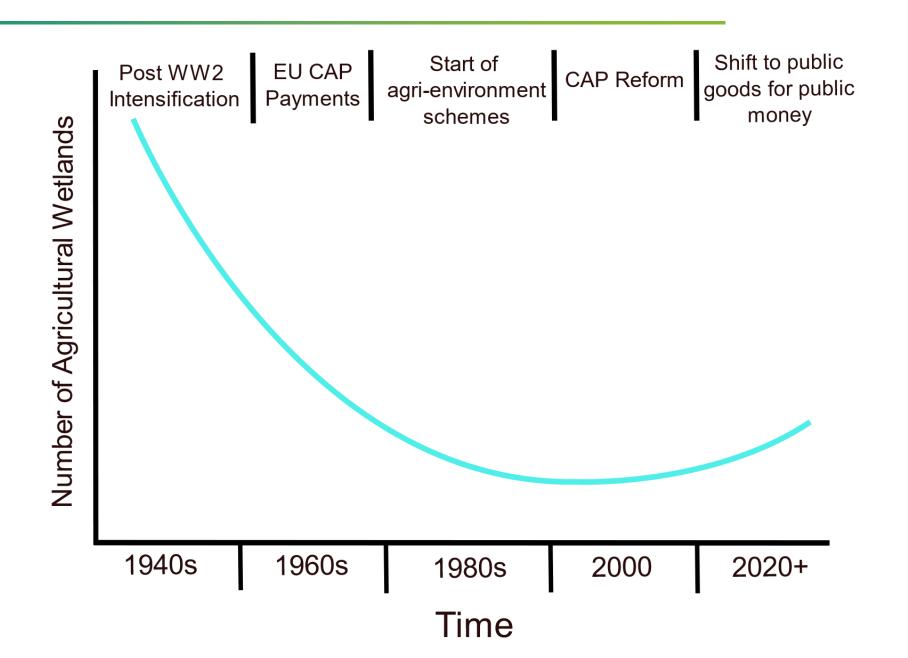
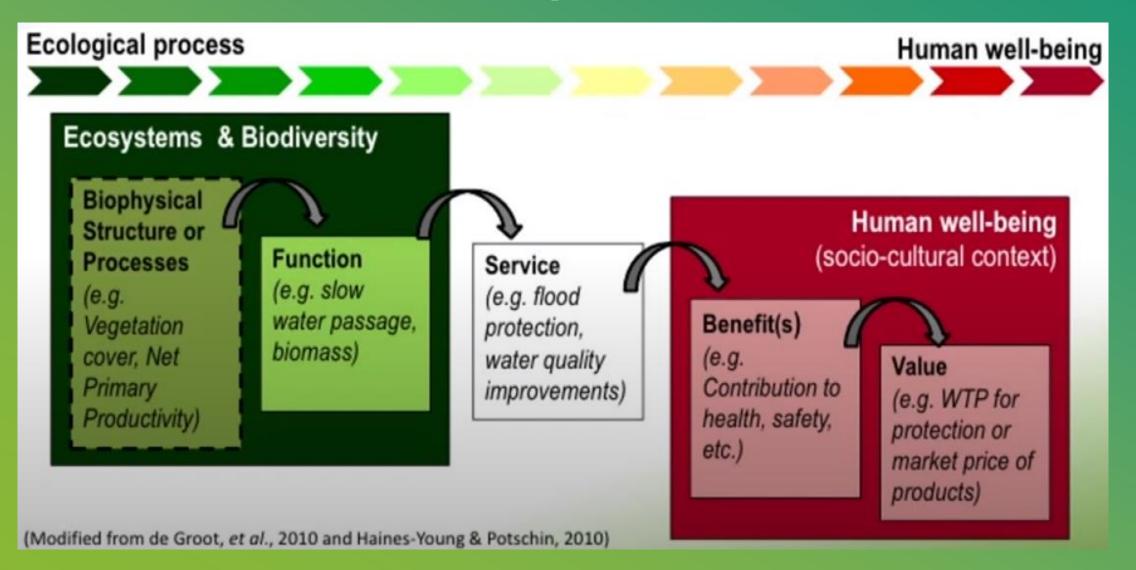
PROVIDED BY ... AGRICULTURAL WETLANDS

David Bryan | University of Stirling





What are ecosystem services?



What range of ecosystem services

- do agricultural wetlands provide
 and what factors drive variation
 - in these services?

Method



Drone mapping



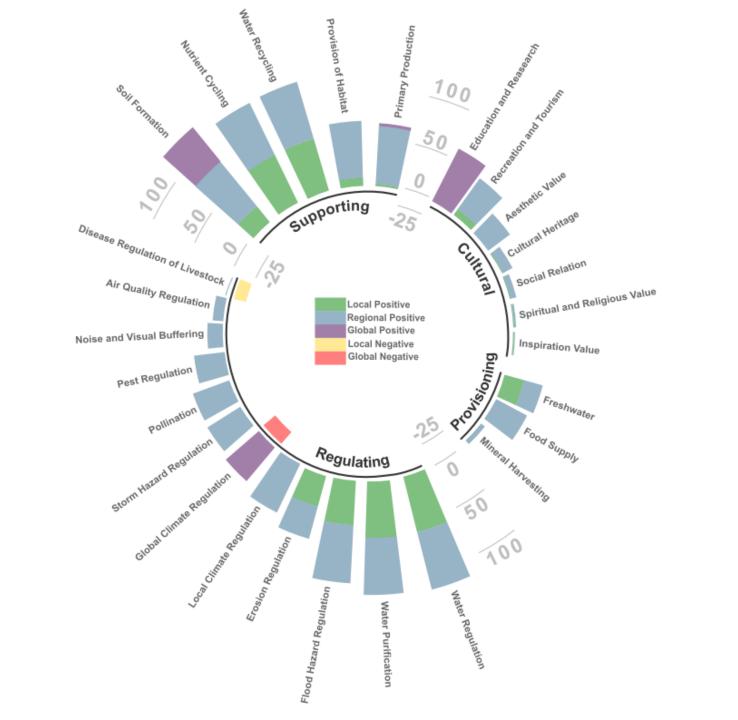
Land use data

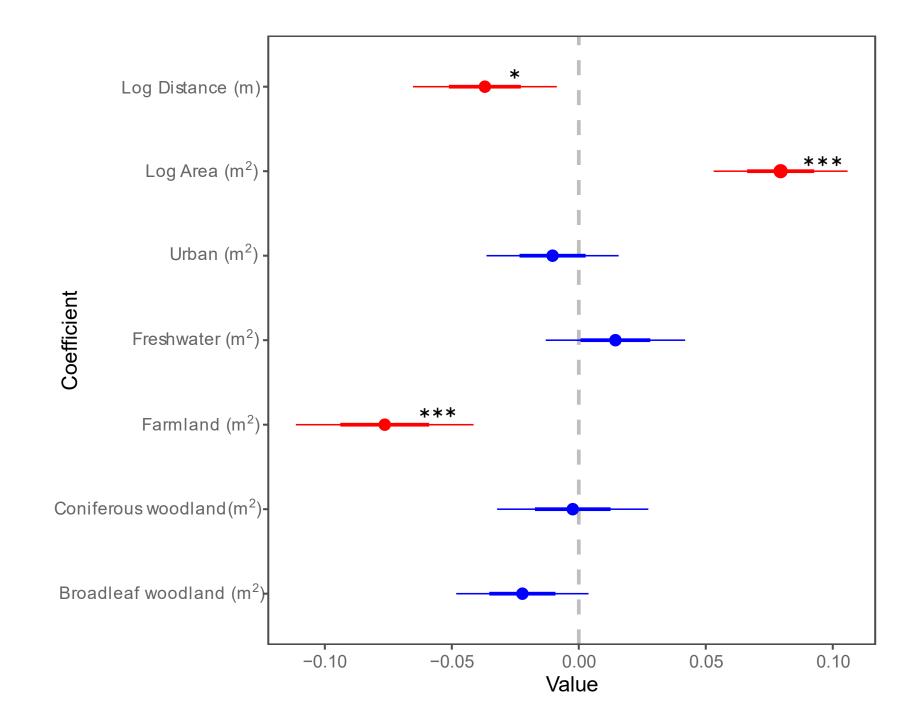


Rapid assessment of wetland ecosystem services (RAWES)

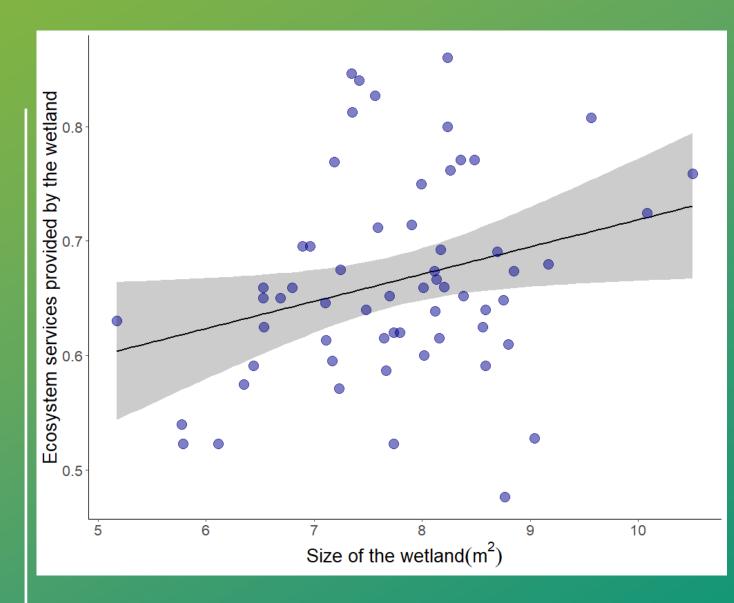


				Scale a	nd value		
Category	Service			local	regional	global	Environmental service index (ESI)
Provisioning	Fresh water				0.5		ESI
	Food				0.5		0.5
	Fuel						
	Fibre						
	Genetic resources						
	Natural medicines or pharmaceuticals						
	Ornamental resources						
	Clay, mineral, aggregate harvesting						
	Energy harvesting from natural air and water flows						
Regulating	Air quality regulation	1					ESI
	Local climate regulat	ion			0.5		0.6
	Global climate regula	ation				1	
	Water regulation			(0.5 1		
	Flood hazard regulati	ion		(0.5 1		
	Storm hazard regulat	ion			0.5		
	Pest regulation			(0.5		
	Disease regulation - human						
	Disease regulation - I	ivestock		-(0.5		
	Erosion regulation				0.5 1 0.5 1		
	Water purification				0.5 1		
	Pollination			(0.5		
	Salinity regulation						
	Fire regulation						
	Noise and visual buff	ering		(0.5		
cultural	Cultural heritage						ESI
	Recreation and tourism			0.5		0.5	
	Aesthetic value			(0.5		
	Spiritual and religious value						
	Inspiration value						
	Social relation						
	Educational and rese	arch				0.5	
supporting	Soil formation				1	1	ESI
	Primary production				0.5		0.75
	Nutrient cycling				0.5 1		
	Water recycling				0.5 1		
	Provision of habitat				0.5		

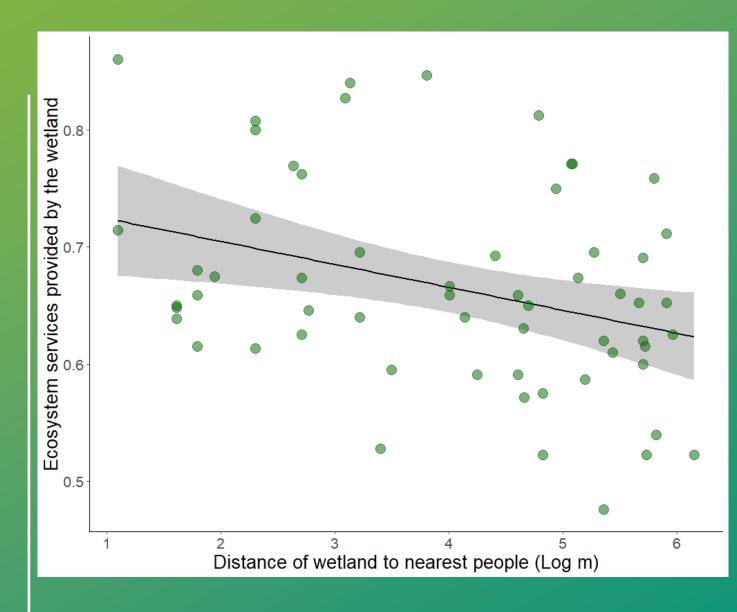




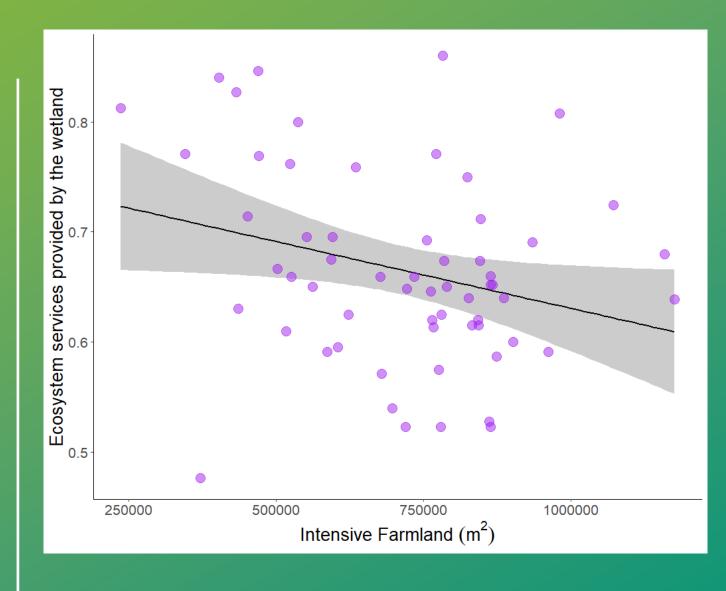
BIGGER IS BETTER



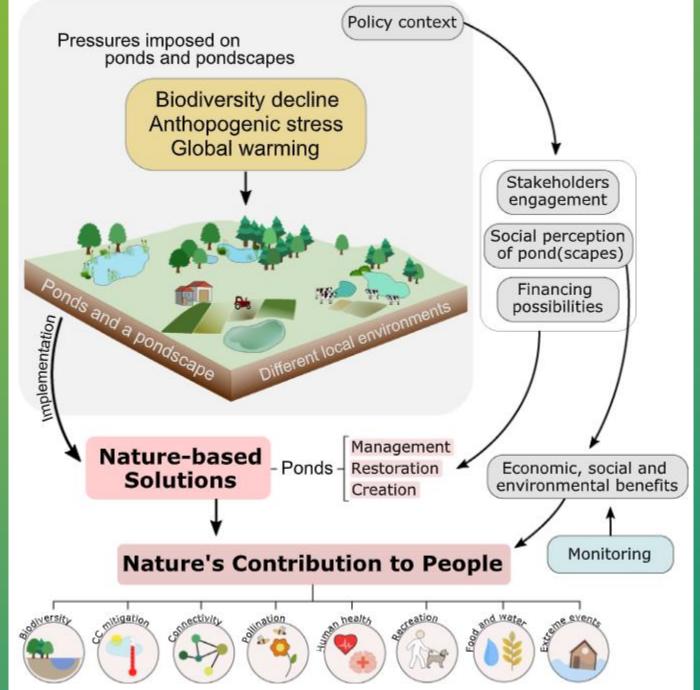
CLOSER IS BETTER



LESS INTENSIVE FARMLAND = MORE ECOSYSTEM SERVICES



SO WHAT?

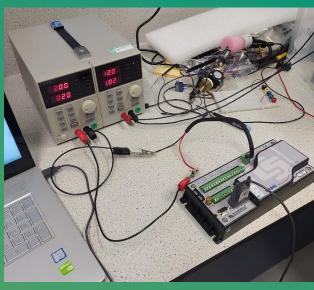


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FUTURE WORK







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Questions?

