



ECOSYSTEM SERVICES MARKET CONSORTIUM

Growing resilience in our nation's soil

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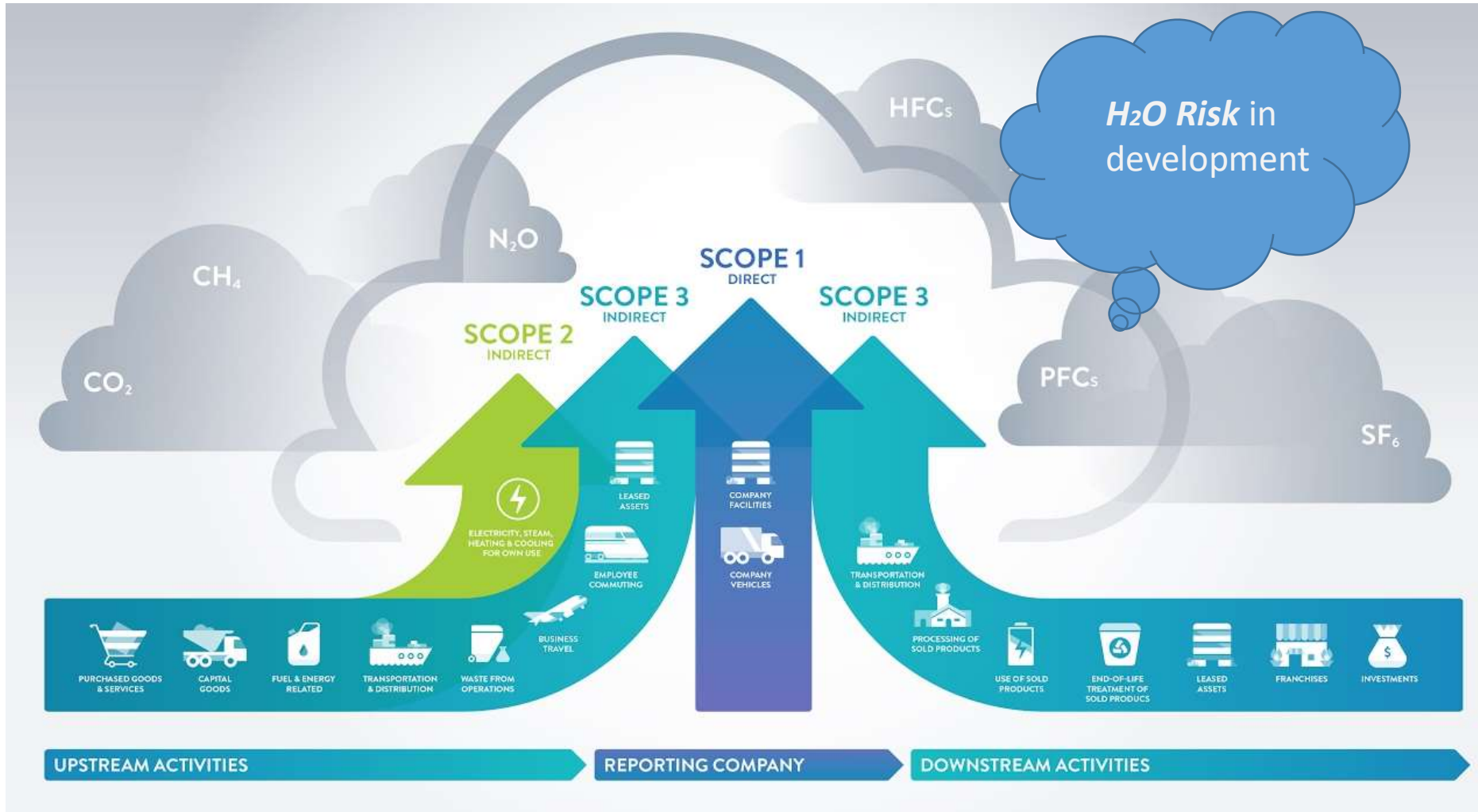


MISSION

To advance ecosystem service markets that incentivize farmers and ranchers to improve soil health systems that benefit society

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Explaining Demand: Corporate Scope 1, 2 & 3 GHG Inventories & Annual Reporting



Assessing Demand: IHS Markit Economic Assessment

Estimated Total Volume & Value of Carbon & Water Quality Markets

- A combined market for ecosystem service assets exists
- Credits can be stacked (supply) &/or disaggregated (demand)
- Benefits to agriculture & society can be measured, documented

Credit Type	Demand	
	Volume	Value (\$bil)
Carbon (vol in MMt Co2e)	190	5.2
Water Quality (vol in bil pounds)		
Nitrogen	1.58	4.8
Phosphorous	0.8	3.9
Total		13.9

- 24 September 2019: Report Release at National Press Club



ESMC Protocols

Protocols that specify the requirements to quantify, monitor, report, verify & register for sale farm- & ranch-based ecosystem service credits (soil C, water quality, water quantity) based on soil health improvements on working agricultural lands

Scaling ESMC: Pilot Project Planning

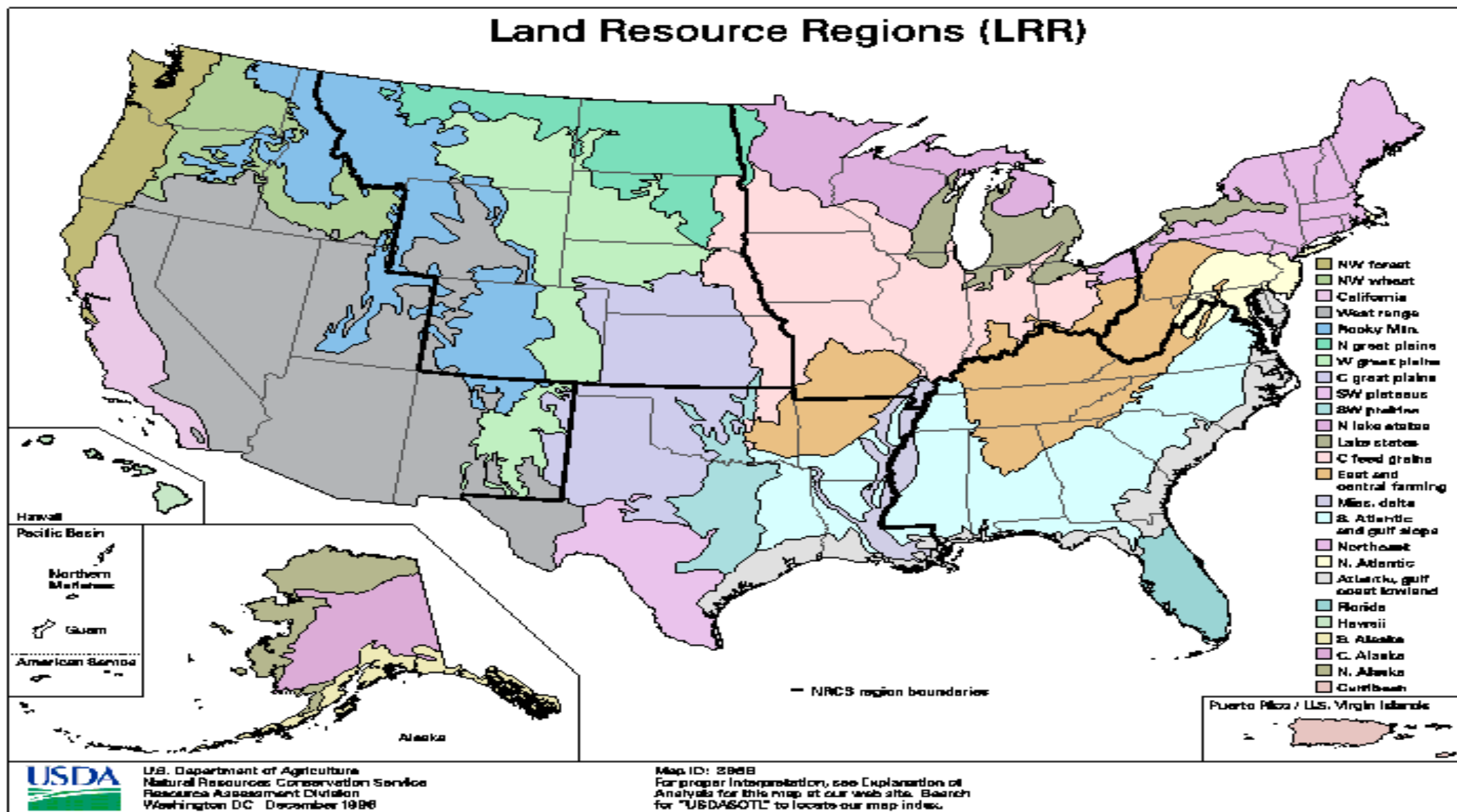
➤ **Goals**

- ✓ Scale through partnerships
- ✓ Adapt protocols for additional production systems & geographies

➤ **Timeline**

- ✓ 2019 Noble Land Stewardship Program (OK/TX) pilot 50k acres
- ✓ Protocol adaptations to expand into new production systems & geographies: 2019-2022 with members, collaborators
- ✓ Pilots can begin when protocol adaptations completed
- ✓ National scale market launch 2022

Land Resource Regions (LRR)



U.S. Department of Agriculture
 Natural Resources Conservation Service
 Resource Assessment Division
 Washington DC December 1998

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Thank you!

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