Lessons Learned in Seeking "Nontraditional" Investments in Nonpoint Source Reductions

Hypoxia Task Force Meeting

Steven Rowe, CEO Newtrient LLC May 16, 2019



NEWTRIENT'S MISSION

Reduce the environmental footprint of dairy and make it economically viable to do so.



What Newtrient Believes...

the lowest-cost, voluntary environmental benefit should be economically incented by those who have high-cost pollution prevention obligations

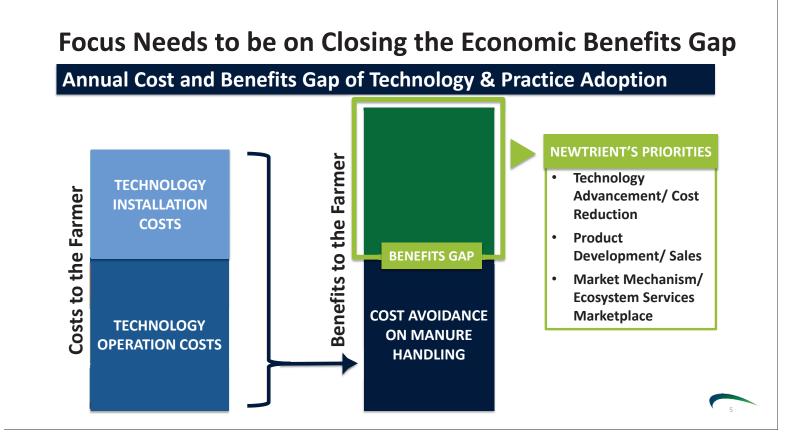


- Farms help resolve societal issues (water pollution, GHG emissions, e.g.)
- Farmers realize economic benefits from on-farm, voluntary actions
- Farmers improve their social license to operate and increase consumer trust





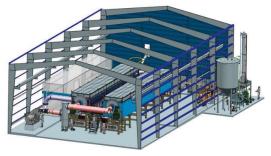




Dairy Technology and Practices Deliver Ecosystem Benefits



Evaporative



Dissolved Air Floatation (DAF)



Conservation Buffers



Realistic Revenue Streams from Manure



Most Promising Ecosystem Service Markets Today

ECOSYSTEM SERVICES

RENEWABLE ENERGY WATER QUALITY WATER QUANTITY AIR QUALITY GHG REDUCTION CARBON SEQUESTRATION SOIL HEALTH RECREATION WEATHER RESISTANCE BIODIVERSITY



ECOSYSTEM SERVICES BUYERS

REGULATED

MUNICIPALITIES

PERMIT HOLDERS

STATES

NON-REGULATED

NON GOVERNMENTAL ORGANIZATIONS

PHILANTHROPISTS

COMPANIES WITH CORPORATE SOCIAL RESPONSBILITY (CSR) GOALS

INVESTORS

Market-Based Programs Surging Globally

"Global market for ecosystem services surges to <u>\$36-42 billion in annual transactions</u>"

"over <u>550 programs</u> are active worldwide"

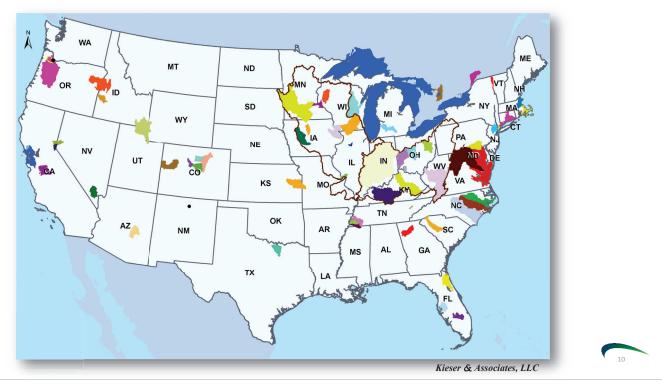
"watersheds has the largest volume of global transactions,

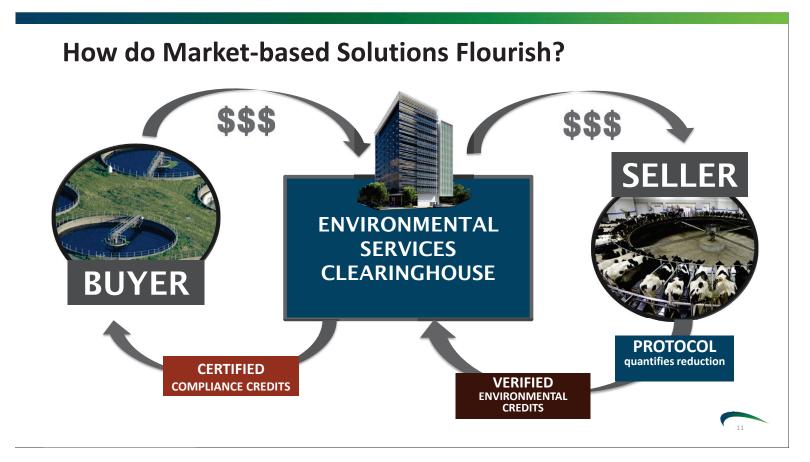
with \$24.7 billion in transactions annually"



UCLA Instrume The global status and trends of Payments for Ecosystem Services; James Salzman, Genevieve Bennett, Nathaniel Carroll, Allie Goldstein & Michael Jenkins

Years of Water Quality Market Attempts





National Support Opens Window of Opportunity for Dairy





Key Takeaways

- Food and the environment is an "AND" obligation, not an "OR" choice
- Let natural science, social science and sound economics be our guide
- Any improvement is good Precisely wrong is okay so long as the path is directionally correct
- Positive drivers drive fast change
- "Demand" drives the economic incentives and thus an effective marketplace
- Buyers require certainty. Sellers require predictability.



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