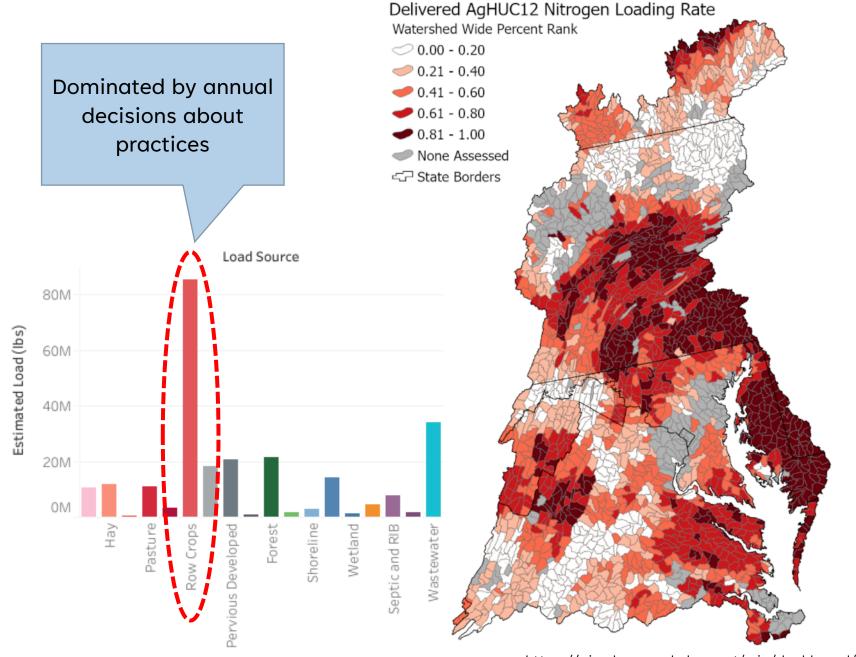


Kristin Fisher, PhD
Applied Agricultural Scientist
The Nature Conservancy MD/DC

CHESAPEAKE BAY WATER QUALITY

Agriculture is the largest source of N to the Bay

34% of the total N load comes from row crops



https://gis.chesapeakebay.net/wip/dashboard/https://data-chesbay.opendata.arcgis.com/documents/ChesBay::priority-agricultural-watersheds-4/explore

IMPROVE EMPLOYEE PRODUCTIVITY

- Strategy: Pay for gym visits
- Expectation:
 Reduced stress,
 healthier, happier,
 more productive
 employees
- Reality?





"How much does it cost to buy a membership then never use it?"

IMPROVE EMPLOYEE PRODUCTIVITY

- Strategy: Fit Bit step payments
- Expectation:
 Reduced stress,
 healthier, happier,
 more productive
 employees
- Reality?





IMPROVE ENVIRONMENTAL OUTCOMES

- Strategy: Pay for a "4R" practice
- Expectation: More
 N taken up by crop,
 less N loss to
 environment
- Reality?

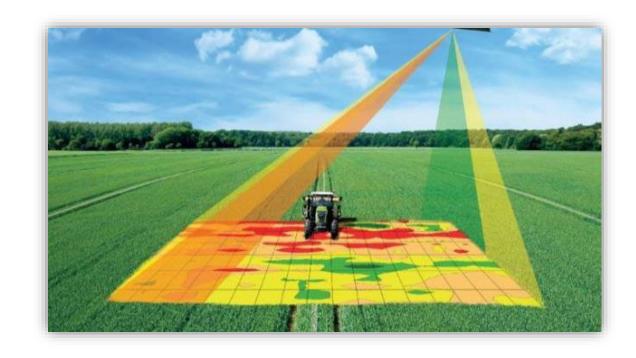




IMPROVE ENVIRONMENTAL OUTCOMES

- Strategy: Pay for nutrient use efficiency
- Expectation: More
 N taken up by crop,
 less N loss to
 environment
- Reality?





Paying for Assumed Outcome



"How much does it cost to buy a membership then never use it?"

Paying for Measured Outcome



Ultimate Outcome: Healthy Individual



Paying for Assumed Outcome



Paying for Measured
Outcome



Ultimate Outcome: Healthy Bay, Healthy Agriculture



TNC-Led RCPP: \$21.7 Million - Awarded

Scaling the Adoption of Adaptive Nitrogen Management
Using Low-Cost Cover Crop Imaging and Nitrogen
Crediting Technology



TNC-Led CIG: \$2.2 Million - Pending

Empowering Farmer Innovation to Advance Nutrient Management in the Chesapeake Bay Watershed