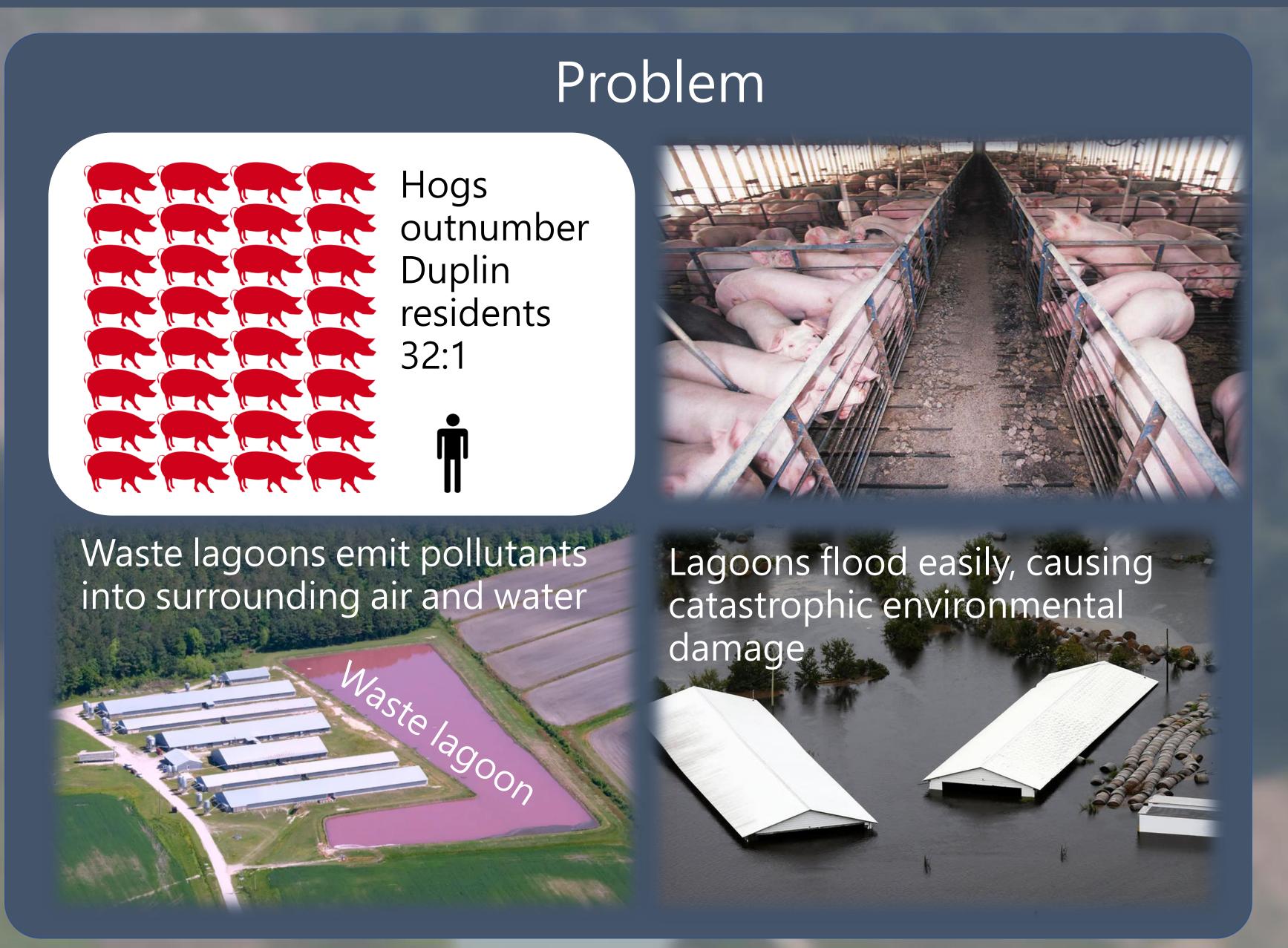


Hog Waste in Duplin County, NC

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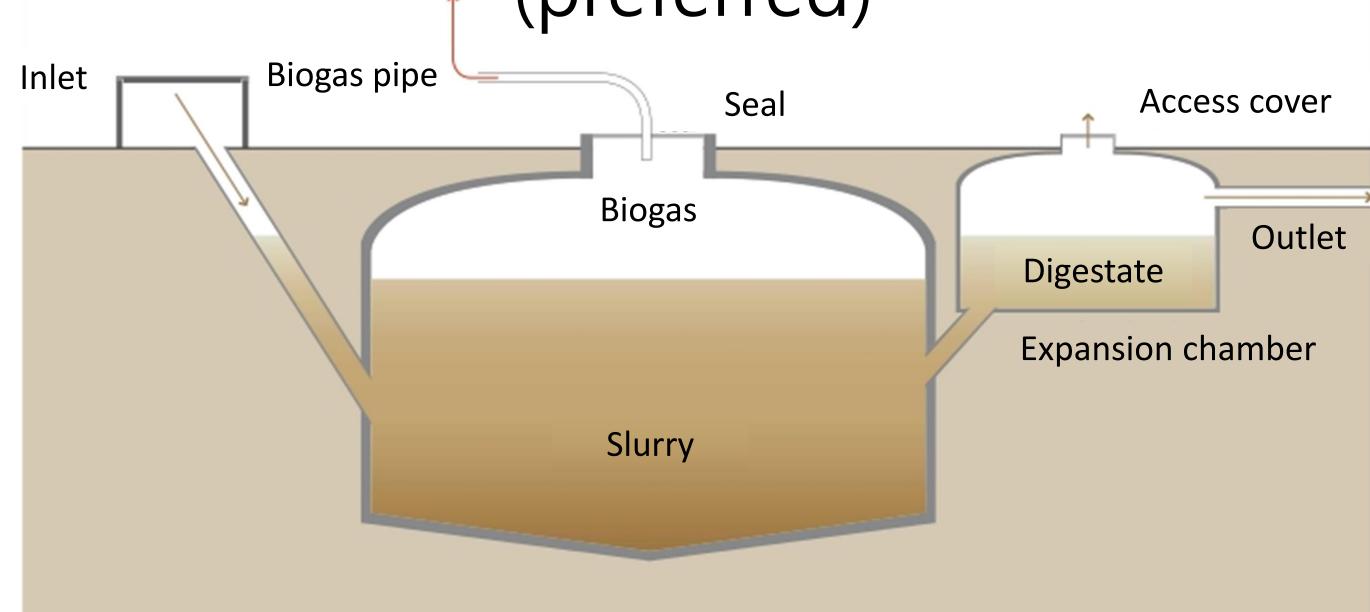


Impacts	Airpollution	Water pollution
Environmental	Greenhouse effect, ammonia deposition	Algae blooms, fish kills, dead zones
Public health North Carolina Buried under a flood of swine waste We can't take it anymore! PIC	Asthma, burning eyes/lungs, sores	Gastrointestinal/kidney problems, blue baby syndrome
	"It's basically dumping" "My son's body was filled with sores" "We lost [1] billion fish in just a couple of days" (Dove 2018)	

Goal To minimize the impact of hog farming on the Duplin County community and the global environment.

Solutions

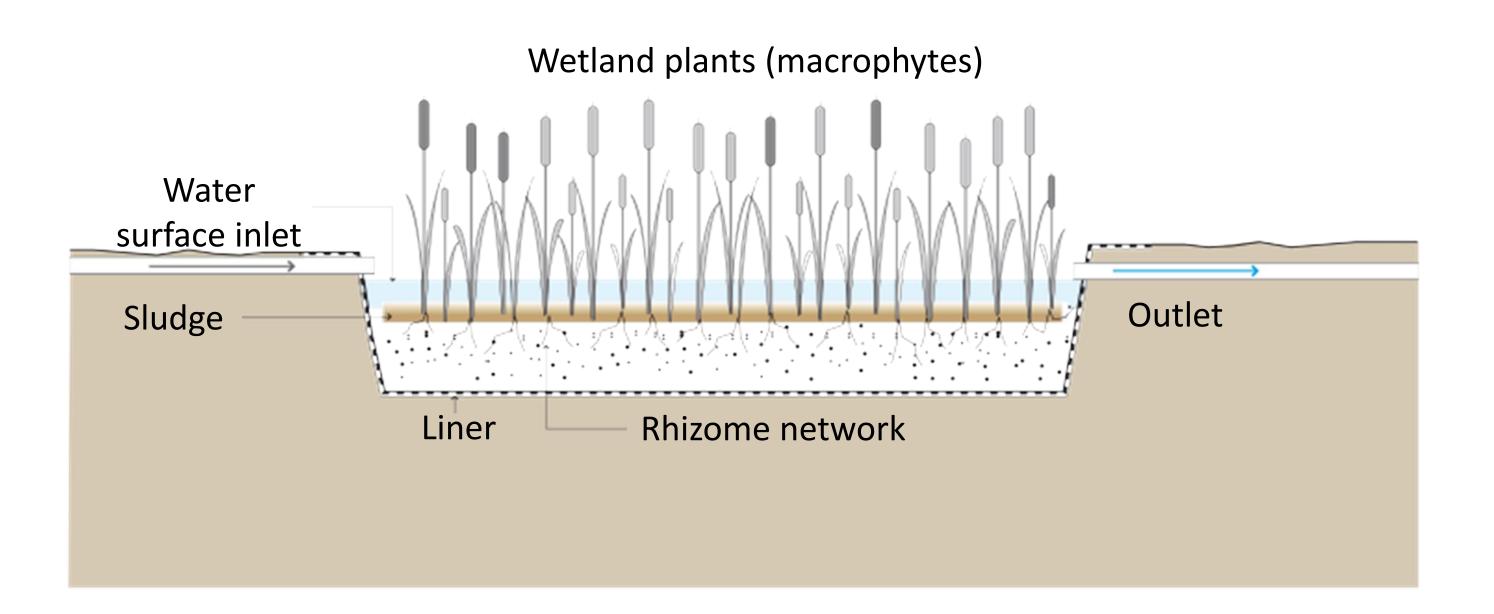
Methane Biodigester (preferred)



Breaks down compounds in the waste and stores the gases, so they can be used as fuel.

Advantages	Disadvantages
97.5% odor reduction	Expensive
Reduces methane emissions	Requires pre/post-treatment of waste
Generates electricity	

Constructed Wetland



Uses marsh plants in an impermeable liner to remove harmful contaminants from wastewater.

Advantages	Disadvantages
Low building cost	Pre-treatment needed for phosphate removal
Cheap to operate	Susceptible to flooding
	Does not combat odor

Implementation

Implement a federal green tax on pork.

Establish a subsidy for hog farms that implement environmentally superior technologies.



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