





Of water used in agriculture is wasted due to poor irrigation systems and evaporation

Biodegradable lo T Soil Sensors

Smaller than pennies

Scattered in fields to monitor moisture levels at different points

Send information to swarms of drones









The Business Case



2.02 million farms in the US





The Business Plan

Client Farmers
expected to have a
return on investment
in <5 years

Initially target farmers in states like California with higher water prices



\$120,000 revenue first year with 10 farms serviced

\$500,000 revenue second year with 50 farms serviced \$700,000 revenue third year with 100 farms serviced

Long-term Outcomes

Steady business revenue stream

Farmers incentivized to purchase new sensors each growing season

Water wastage reduced as adoption grows across the US and the world



Appendix

Financials

- My financial calculations are based on an average farm size of 500 acres
- Average water costs in the US are \$32 per acre during the growing season, giving a total of \$16000
- The initial cost to setup the drones and visualization software is estimated to be \$10,000 based on existing technologies
- Using sensors can reduce costs by \$4000, or 25%, per growing season
- 500 sensors are needed for 500 acres and given that we sell them for \$4 each, farmers will be spending \$2000 on these each season.
- After 5 years, the farmer will have broken even on their initial investment

Financials

Year 1

- With 10 farms being serviced, we will have \$100,000 in revenue from the initial drone and visualization software set up
- If they each purchase 500 sensors at a price of \$4 each, we gain an additional revenue of \$20,000

Year 2

- With 40 more farms, we will have \$400,000 in revenue from the initial drone and visualization software set up
- If 50 each purchase 500 sensors at a price of \$4 each, we gain an additional revenue of \$100,000

Financials

Year 3

- With 50 more farms, we will have \$500,000 in revenue from the initial drone and visualization software set up
- If 100 farms each purchase 500 sensors at a price of \$4 each, we gain an additional revenue of \$200,000