

Examples of Experiential Learning in Animal Agriculture



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Presentation Objective:

Think about your curriculum...
Where you could fit in small or large
experiential learning opportunities?

Introductory Animal Agriculture Class

- Build community (warm up first year)
- Focus on awareness (not just education)
- Focus on context (not just content)
- Focus on inquiry
- Encourage creativity
- Involve oral and written communication
- Involve group work

Project Examples

- Name that tool / technology
- There's a Heifer in Your Tank
- Rural Café
- Game of Farm Life

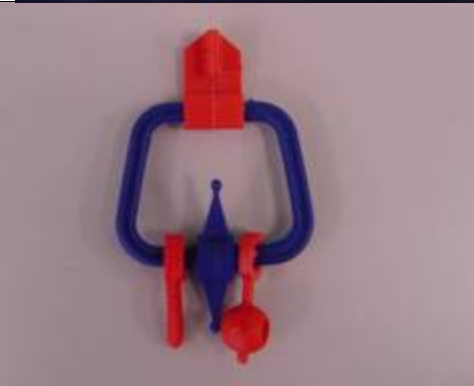
Name That Tool





Name that Tool

Familiarization with Equipment Used in Animal Agriculture



Nipple Valve

Janet VanDenBerg
AN SC 200

DESCRIPTION

- has a trigger pin at one end, and an opening for water to flow from the pipe at the other end.
- there is a hook on one side so the valve can be snapped onto a water pipe
- Many of these valves will be hooked on a water pipe across the length of a barn



FUNCTION

- Provides drinking water to growing poultry
- Mostly used for broilers, though larger valves for larger birds are available
- With young birds, the water pipe is placed at eye level –birds push the trigger pin in from the side, so only a little water is released
- When the birds are older, the pipe is raised overhead-more water released when pin is pushed from underneath

CONSEQUENCES OF NOT USING

- Slower growth rate if birds are dehydrated
- Increased mortality if birds are dehydrated

ALTERNATIVES TO ITS USE

- trough or bell-type waterers can be used, and are often used for larger birds such as turkeys

BUT...

- Nipple valves are more sanitary
- Nipple valves are more efficient, as less water is spilled and wasted
- Less spread of bacteria with nipple valves- means healthier birds than with trough feeders

Name that Technology





ANSWERS TO QUESTIONS
YOU DIDN'T KNOW ABOUT
ANIMAL AGRICULTURE

HIYT Project Plan

- Students were randomly formed into groups of 2-6
- Student were instructed to provide an answer to a “quirky” question, in a 3.5 min presentation
- Students were encouraged **to be creative** in delivery
- A public forum was held with 300-700 people present



**If your car burned methane,
how far could you travel on
the methane from one cow?**

(there's a heifer in your tank)



Why do cattle eat their placenta? Do they like the taste or is it peer pressure?



**Do double-yolked eggs
arise when hens are
mated twice per day?**



HIYT Presentation Evolution (2004-2020)

- 
- Powerpoint (Scientific format)

- 
- Powerpoint with humor

- 
- Original drama productions

- 
- You-Tube Videos (documentaries, spoofs, music videos)



Hosting an In-Class “Rural Café”: Employing
Agricultural Speed Dating to Build Ag
Fluency

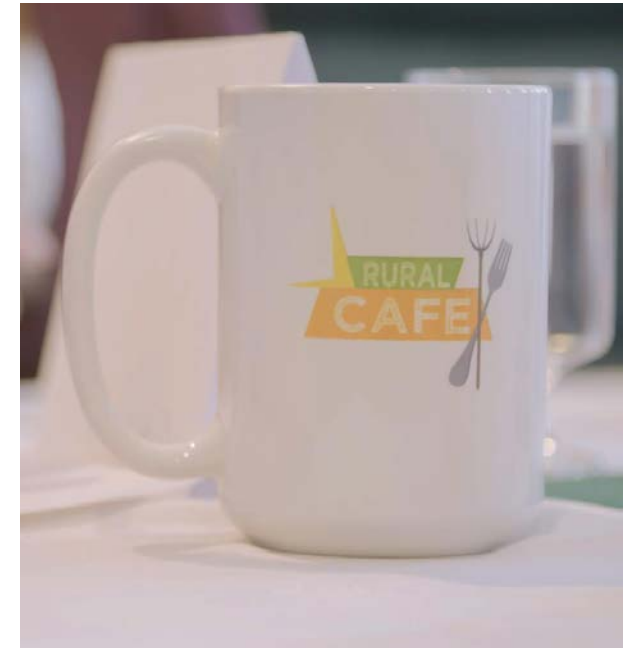
Project Outline:

- Six or more Alberta animal producers were invited to attend the rural café each day. Several producers brought other family members.
- At each lab session (Monday, Tuesday and Wednesday) each student was randomly assigned to six table groups (four to six students per group).



Project Outline:

- Each farmer was seated at a table with chairs for six students. Each group of students had 25 minutes to engage in conversation with a producer. At 30 minute intervals, each group of students rotated so that by the end of the afternoon, each student group had a chance to meet with six producers.
- The students prepared a list of potential questions for the producers, around the general topic of “**what makes or breaks your operation**”?



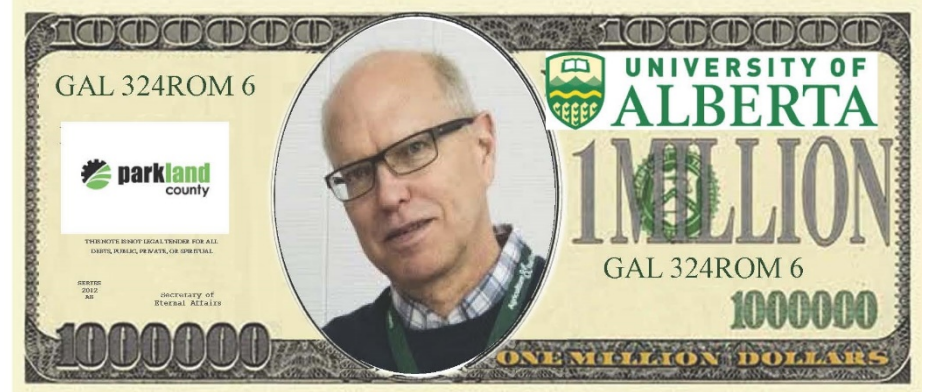
FARM

The
Game
of

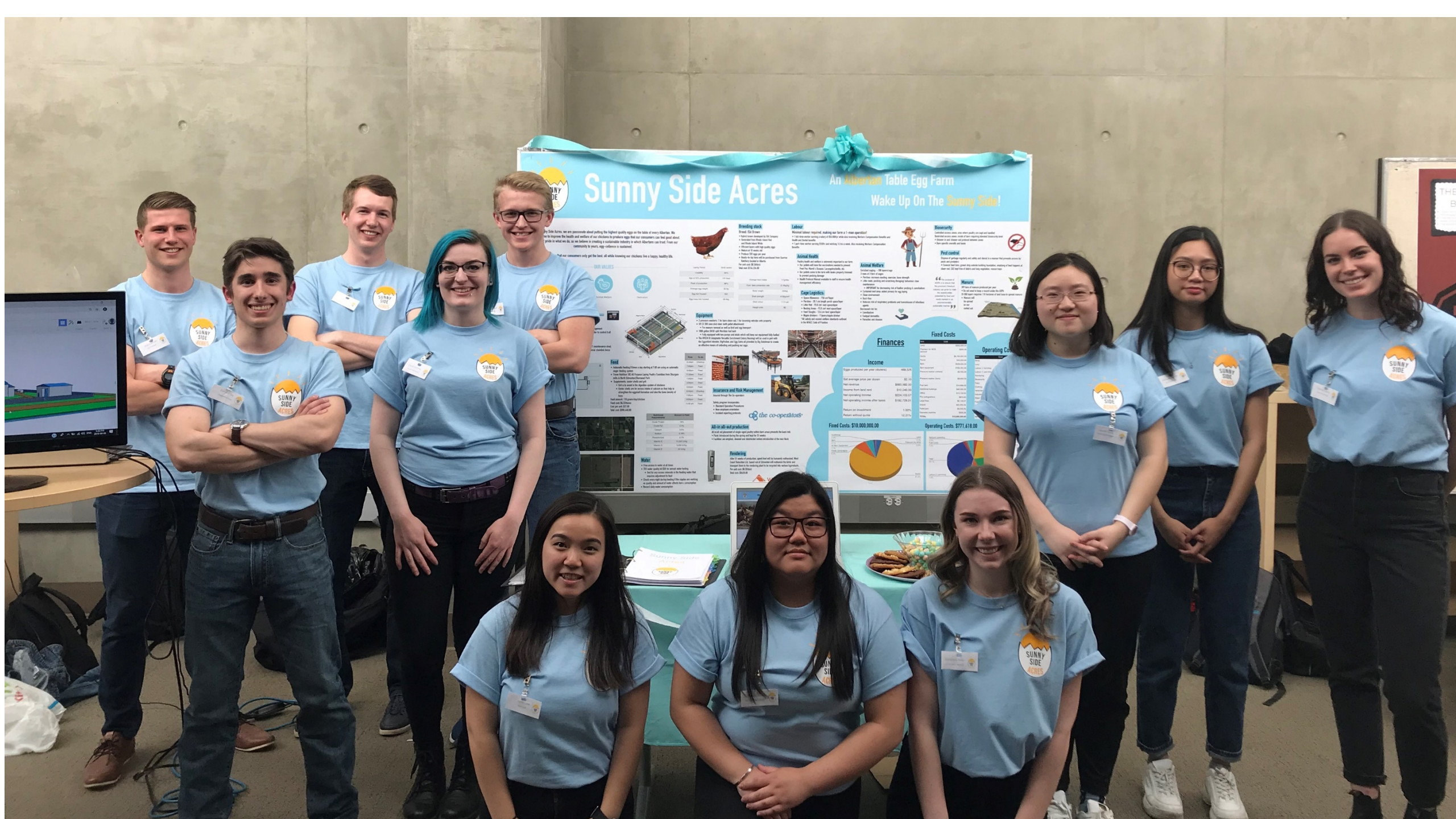


LOGE

Project Rules:



- Groups of 8-12 students were given **\$10,000,000** (fake cash).
- The mission of the project was to develop a farm for that commodity with the money given to them.
- Each group had to buy land, build barns, perhaps buy quota, buy breeding stock, insurance, permits etc.
- Each student must have a position on the team.
- Each person must describe their job description with the group so that together they can cover off all of the needed areas.



Sunny Side Acres

An Alberta Table Egg Farm
Wake Up On The Sunny Side!

Sunny Side Acres, we are passionate about putting the highest quality eggs on the table of every Albertan. We are committed to the health and welfare of our chickens to produce eggs that our customers can feel good about. We are also committed to what we do, as we believe in creating a sustainable industry in which Albertans can trust. From our community to yours, egg culture is a tradition.

That our customers only get the best, all while knowing our chickens live a happy, healthy life.

OUR VALUES

- Animal Welfare
- Animal Health
- Animal Care
- Animal Nutrition
- Animal Breeding
- Animal Genetics
- Animal Management
- Animal Production
- Animal Health
- Animal Welfare
- Animal Care
- Animal Nutrition
- Animal Breeding
- Animal Genetics
- Animal Management
- Animal Production



Breeding Stock

Breed: ISA Brown
The ISA Brown is a breed of chicken that is known for its high egg production and docile temperament. It is a popular choice for backyard flocks and commercial egg farms.

Labor

Minimal labor required, making our farm a 1-man operation! Our chickens are raised in a high-tech, automated system that allows us to manage our flock with minimal labor.

Animal Health

Proactive health care and strict biosecurity protocols ensure the highest standards of animal health. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Animal Welfare

Our chickens are raised in a high-tech, automated system that allows them to live a happy, healthy life. We provide them with a clean, comfortable environment and ensure they have access to fresh water and feed at all times.

Cage Legality

Our chickens are raised in a high-tech, automated system that allows them to live a happy, healthy life. We provide them with a clean, comfortable environment and ensure they have access to fresh water and feed at all times.

Equipment

Our farm is equipped with the latest technology to ensure the highest standards of animal health and welfare. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Feed

Our chickens are fed a high-quality, balanced diet that provides them with all the nutrients they need to live a happy, healthy life. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Insurance and Risk Management

Our farm is insured against all major risks, including fire, theft, and liability. We have a comprehensive risk management plan in place to ensure the highest standards of animal health and welfare.

Water

Our chickens have access to clean, fresh water at all times. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Breeding

Our farm is equipped with the latest technology to ensure the highest standards of animal health and welfare. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Finances

Our farm is a profitable operation with a strong financial foundation. We have a comprehensive financial plan in place to ensure the highest standards of animal health and welfare.

Fixed Costs

Our farm has low fixed costs, making it an affordable option for small-scale farmers. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Operating Costs

Our farm has low operating costs, making it an affordable option for small-scale farmers. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Income

Our farm generates a steady stream of income from the sale of our eggs. We use a combination of preventative measures and regular health checks to keep our chickens healthy and productive.

Fixed Costs

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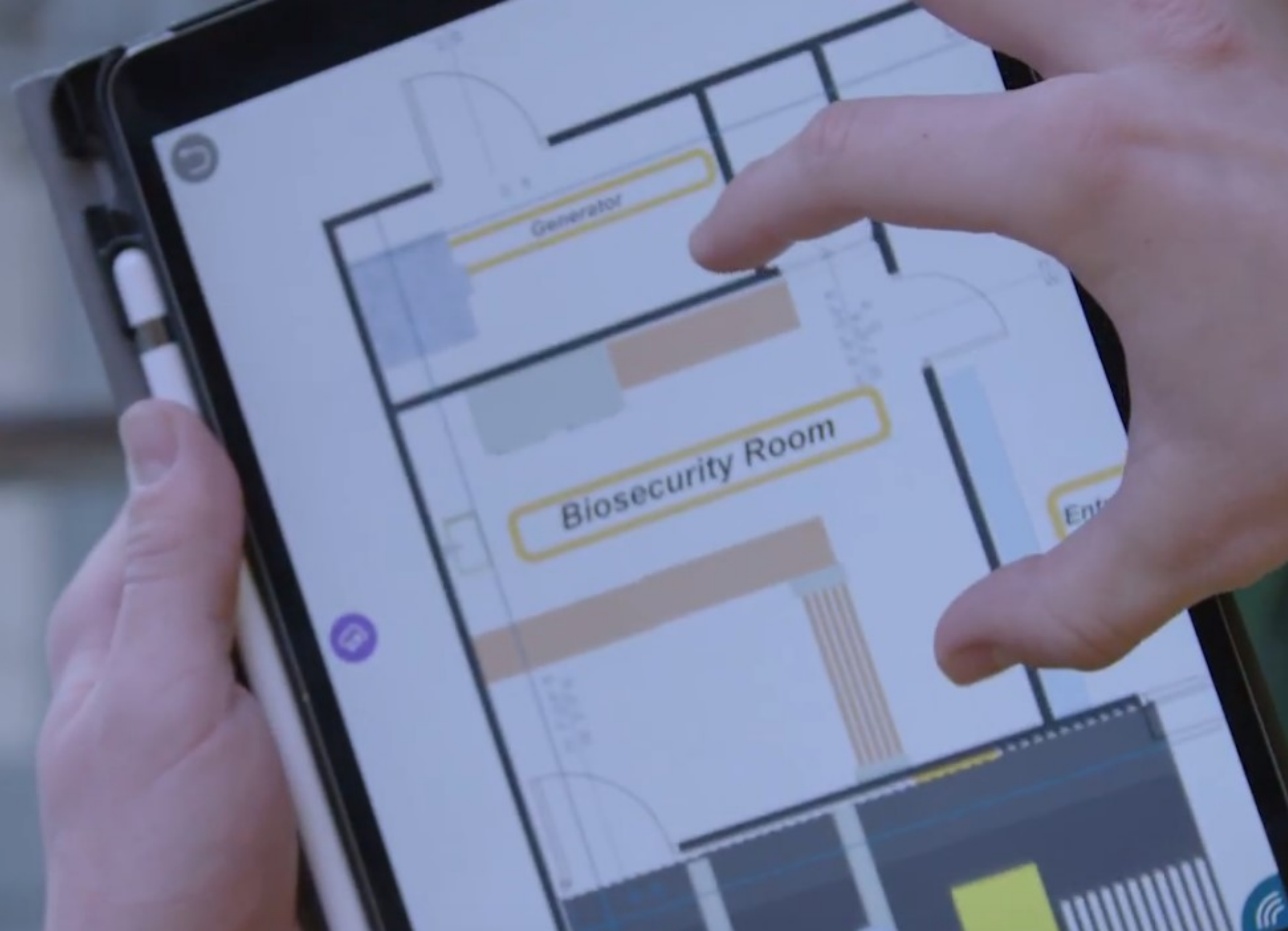


Fixed Costs: \$10,000,000.00

Operating Costs: \$771,618.00







Generator

Biosecurity Room

Ent

Thank You

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