Vertical farming

Step 1. Rebuild existing farm place to vertical farming.
(For convenience data below about rebuilding one existing farm.)

Small vertical farms spend an average of $3.45 per square foot on energy while large vertical farms spend an average of $8.02 per square foot. Small farms are facilities smaller than 10,000 square feet, while large farms are anything bigger than that.
Indoor vertical farms typically spend 56% of their operating budget on labor, roughly $20.78 per square foot.

Budget:

Plan on spending anywhere between $10,000 and a couple hundred thousand dollars to **rebuild** existing places.

Time period:

1 month

Resources:

5 workers
1 dump truck with earth.
Tools for rebuilding.
LED Lamps.
Materials for construction of the vertical farm.

Step 2. Infrastructure organization.

Sub-step 1: Get the climate right
Sub-step 2: Get the lighting right
Sub-step 3: Get the spacing right
Sub-step 4: Software integration.

Budget:

7000$

Time period:

3 weeks

Resources:

1 expert
1 worker

Step 3. Human recruitment.

Sub-step 1: Talent search and posting jobs positions.
Sub-step 2: Screening and shortlisting
Sub-step 3: Interviewing
Sub-step 3: Evaluation and Offer of employment

Budget:

Vertical farming

Step 3. Human recruitment.

4500$

Time period:

12 days

Resources:

1 HR

Step 4. Employers onboarding.

Sub-step 1: Process introduction.
Sub-step 2: Integrate onboarding with a training program.

Budget:

1000$

Time period:

5 days

Resources:

2 Experts
10 Employees

Step 5. Planting and Caring.

Sub-step 1: Plant.(Mar-Apr)
Sub-step 2: Sow. Prepare the seed bed by removing any weeds and stones and raking over the soil to create a fine texture.Next, make shallow drills (straight rows made by pressing a bamboo cane into the soil) about 1cm deep. (Mar-Sep)
Sub-step 4: Caring for salad leaf crop(All year)

Budget:

50000$ (Per year)

Time period:

March to December(10 month)

Resources:

2 Team-leaders
10 Employees
1 Bag of seed.

Vertical farming

Step 6. Sow cut and come again salads.

Sub-step 1: Sow into containers of multi-purpose compost or directly into soil in a **raised bed**, greenhouse border or traditional vegetable plot
Sub-step 2: Sow seed in rows or broadcast over the surface of a container.
Sub-step 3: When leaves are of an appetising size, use scissors to snip off a few from each plant at 2.5cm (1in) from the base. Avoid damaging the central growing point of the plant and allow the remaining leaves to grow on.
Sub-step 4: Water regularly to help support the production of new leaves

Budget:

16000$

Time period:

April to December(9 month)

Resources:

2 Team-leaders
10 Employees
1000 containers

Step 7. Sale salads.

Sub-step 1: Advertising
Sub-step 2: Salads packaging.
Sub-step 3: Salads delivering to point of sale or direct delivering to clients.

Budget:

3400$

Time period:

April to December(9 month)

Resources:

5 Employees
1 truck
1000 containers
25000 packages