

Define your problem statement

increasingly volatile weather and more extreme events — like floods and droughts — change growing seasons, limit the availability of water, allow weeds, pests and fungi to thrive, and can reduce crop productivity

PROBLEM

- 1) Climate change
- 2) Irrigation
- 3) Soil erosion
- 4) Biodiversity loss
- 5) Loss of agricultural land



Brainstorm

Person

Ploughing: Through ploughing, we prepare the soil for growing crops. This is done with a tool called a plough. The soil is turned and gets loose after ploughing and ready is owing seeds.

Sowing: When soil gets ready, we place seeds for germination into it.

Many types of tools are used for this. Seeds are sown in rows.

Person 2

Adding fertilizers and manures: These substances are added to the soil to increase fertility. Manure is completely natural and is made by the excreta of animals. Fertilizers are some chemicals that are synthesized artificially

Irrigation: The seeds need water for germination. So, water is provided in the soil through many procedures.

Person 3

Protection from weeds:
Weeds are plants grown
in the fields along with
the desired crop plants.
These are removed by
using chemicals or other
methods.

Harvesting: In harvesting, the desired or valuable parts of plants, like grains, are collected.

Person 4

Storing: After collecting grains, they are dried and then stored in large containers to keep them protected from spoiling.

By improving the crop variety through cross-breeding and hybridization, the crop yield can be increased.



Group ideas

Ploughing: Through ploughing, we prepare the soil for growing crops. This is done with a tool called a plough. The soil is turned and gets loose after ploughing and ready is owing seeds.

Irrigation: The seeds need water for germination. So, water is provided in the soil through many procedures.

Harvesting: In harvesting, the desired or valuable parts of plants, like grains, are collected.

Storing: After collecting grains, they are dried and then stored in large containers to keep them protected from spoiling.



Prioritize

Storing: After collecting grains, they are dried and then stored in large containers to keep them protected from spoiling.

Harvesting: In harvesting, the desired or valuable parts of plants, like grains, are collected.

Irrigation: The seeds need water for germination. So, water is provided in the soil through many procedures.