Agrichain

Blockchain for Sustainable Agriculture Supply chains

Key Issues ⟶ Fair price

Tracking

consumer awareness

Food Lifespan

mediator are getting more benefits

Problems from point of view of Farmer

mediator Dominance

pricing Instability

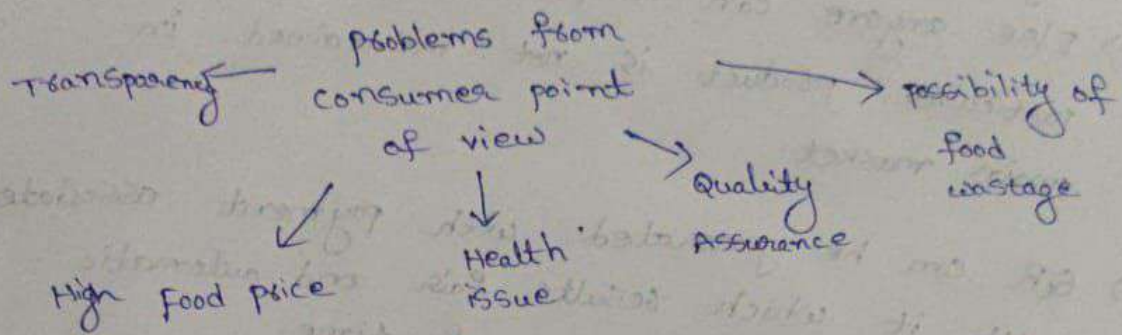Awareness

Lack of Resource Utilization

climate change
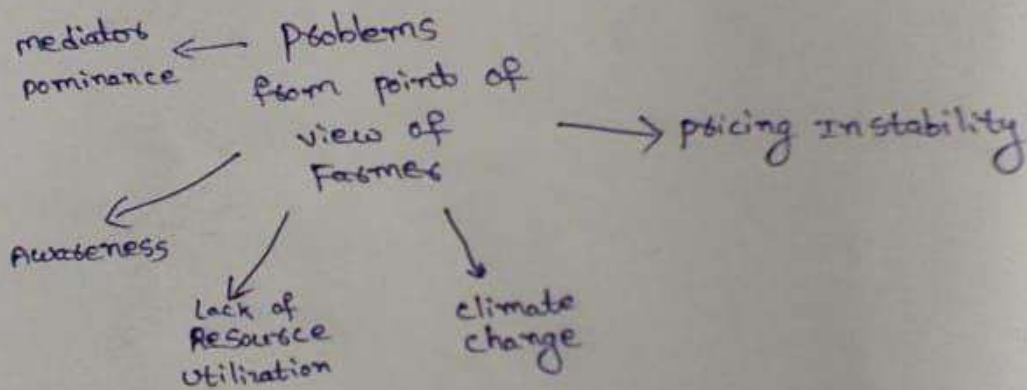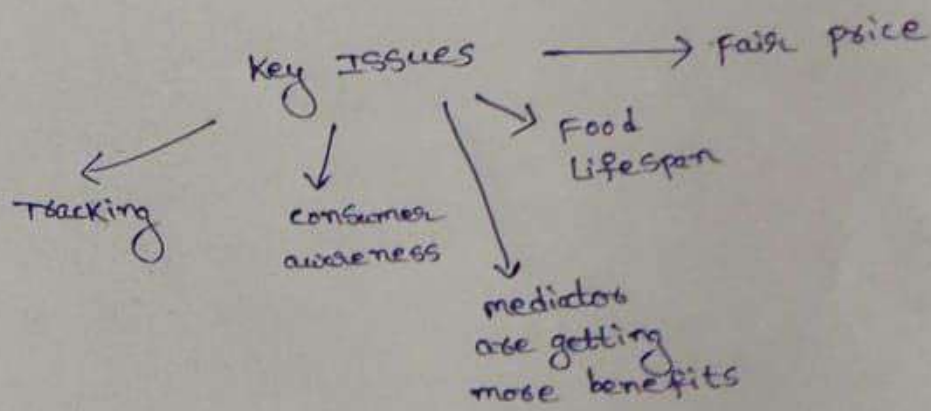
How Agrichain is solving key Problems

1) Farmers can go to any panchayat/can upload video of himself for fair utilization of application

2) Automatic decryption of data farmers video is done with high accuracy

3) Government can keep track of farmers and help with loss occurred

4) Farmers can keep track of prices

5) Fair pricing

Transparency — problems from consumer point of view → possibility of food wastage

High Food price ← Health issue → Quality Assurance

How Agrichain is solving above problems

1) Food wastage is Reduced by donation feature

2) Donation required such as orphanges.. can register, can collect if there is any excess amount of food is left.

3) Food price will be controlled

4) with High transparency, Quality can be maintained.

Process / work flow

→ Farmer registers through web application of Agrichain

→ farmer can keep upto date information about products

→ product Id can be generated after registration of products.

→ By noting down the product Id, farmer can track his/her produced crops usage.

→ Information will be updated by everyone involved in chain.

→ If product registered should be consumed by completing overall chain

→ Else anyone can complaint / raise issue if particular product is not maintained in main market.

→ QR can be generated with payment associated with it which results fair and automatic updation at any point of time.

Why Blockchain is required?

→ To enhance transparency

→ To reduce manipulation of data in Supply chain.

→ For fair transmition

→ No centralized party to manipulate

→ Cost Reduction

Path

Farmer

Farmer → Direct from Farmer

Farmer ← Local collection centers

Local collection centers → Transport to processing center

Transport to processing center → Processing & Packaging

Processing & Packaging → Distributors

Distributors → Retailers (milk) → consumes

Distributors → Exporters (Eg:- mango) → Consumes

Transport to processing center → Local markets (Eg:- Grains & pulses)

Local markets → wholesales → Retailer → consumes

markets → consumes

Farmer → Hotels, Restaurents → Consumer

Direct from Farmer → Farmer's market → consumer

Direct from Farmer → Eg:- Fruits/vegetables community supported Agriculture → consumer

Direct from Farmer → on Farm Sales → consumer