The power of the Smart Phone







Farming Dynamics

Weather Risks(Intensity)

- Rainfall
- Temperature
- Wind
- Hail
- Flood
- Drought

Resource Risks

- Soil
- Water
- Access to Inputs
- Pollution

Economic Risks

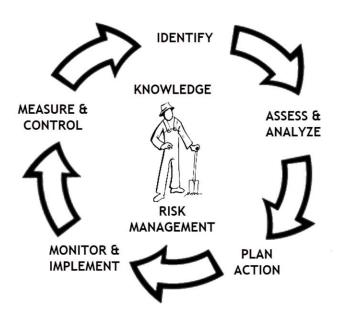
- Prices
- Access to Markets
- Trade Tariffs
- Administrative costs

Labour Risks

- Access to labour
- Labour Cost
- Labour Reliability

Locational Risks

- Crop Suitability
- Distance to Market
- Safety



Health Risks

- Aids
- Malaria
- Zoonosis

Biological Risks

- Diseases
- Insects
- Weeds

Financial Risks

- Access to Finance
- Input Costs
- Unforeseen Costs
- Interest rates

Policy and Political Risks

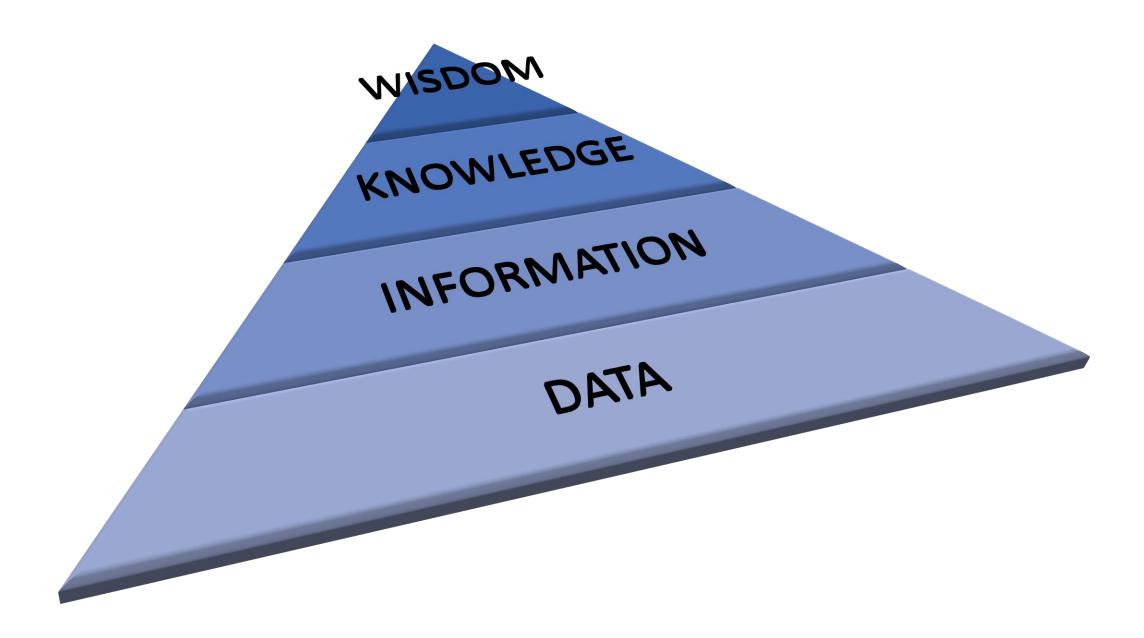
- Trade Policy
- Tenure Security
- Certainty

Infrastructure Risks(condition)

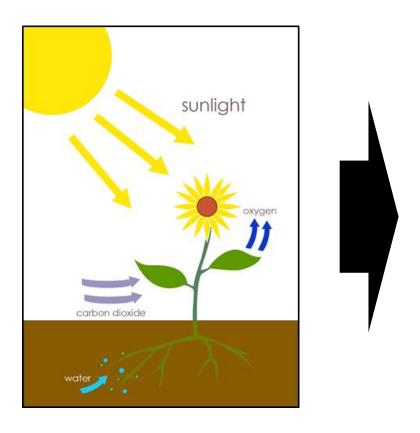
- Energy
- Water transport
- Roads
- Storage Facilities
- Processing Facilities
- Communication
- Access to Equipment and Spares



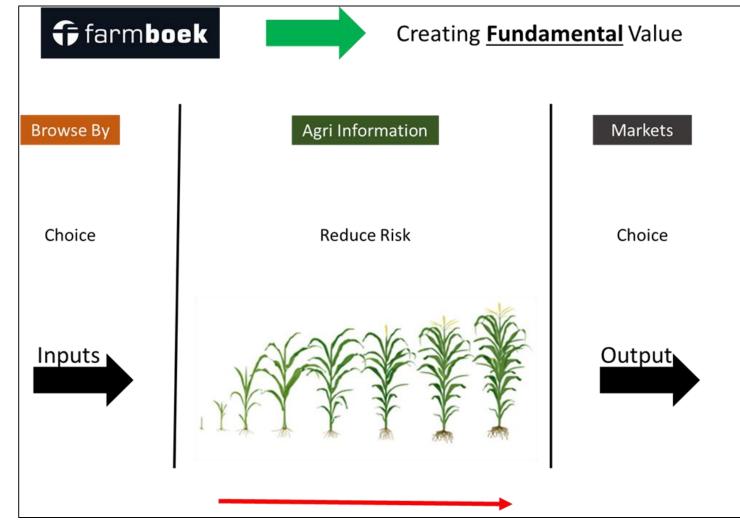
Experience



Everything starts with Photosynthesis Value is created by utilising free resources, namely: sunlight and CO2



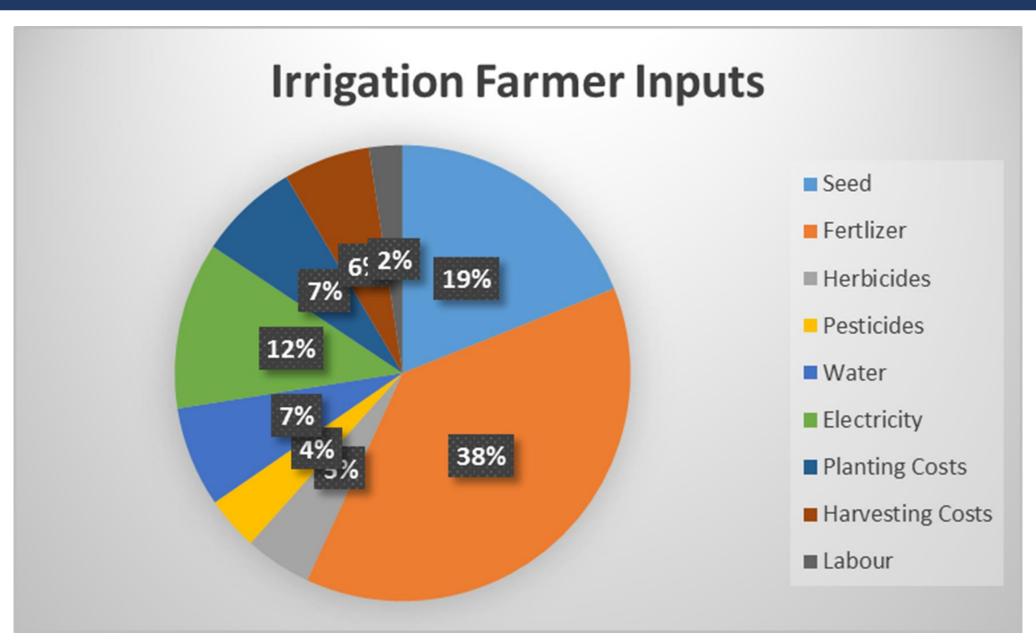
Agriculture is the only industry that can create **Fundamental Value** in the **Value Chain**.



What is needed?



Adding Value



The Commercial Farmer

Irrigation Maize Farmer Inputs

	Seed	19%	R	3,990.00	
st	Water	7%	R	1,470.00	
Cost	Electricity	12%	R	2,520.00	9
	Planting Costs	7%	R	1,470.00	53%
Fixed	Harvesting Costs	6%	R	1,260.00	L)
Ξ	Labour	2%	R	420.00	
		53%	R	11,130.00	

r <u>.</u>	Fertilizer	38%	R	7,980.00	
	Herbicides	5%	R	1,050.00	%
	Pesticides	4%	R	840.00	47
Va		47%	R	9,870.00	

The small-scale Farmer

Irrigation Maize Farmer Inputs - Small Scale

J	Seed	R	3,990.00	
st	Water	R	1,470.00	
Cost	Electricity	R	2,520.00	%
	Planting Costs	R	1,470.00	74%
Fixed	Harvesting Costs	R	1,260.00	7
ΙĪ	Labour	R	420.00	
		R	11,130.00	

riables	Fertilizer Herbicides Pesticides	R R R	3,000.00 500.00 420.00	.6%
Var	resticiaes	R	3,920.00	2

The difference

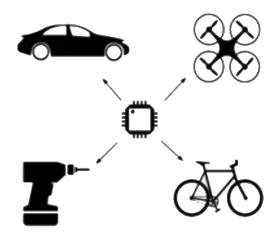
Yield(t/ha)	Price		
12	2100		
Output	R	25,200.00	
Input	R	21,000.00	
Profit	R	4,200.00	

Yield(t/ha)		Price	
7	2100		
Output	R	14,700.00	
Input	R	15,050.00	
Profit	-R	350.00	



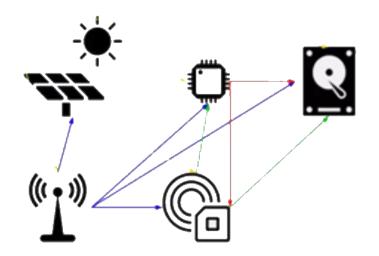


Sharing Economy



Access Trumps Ownership

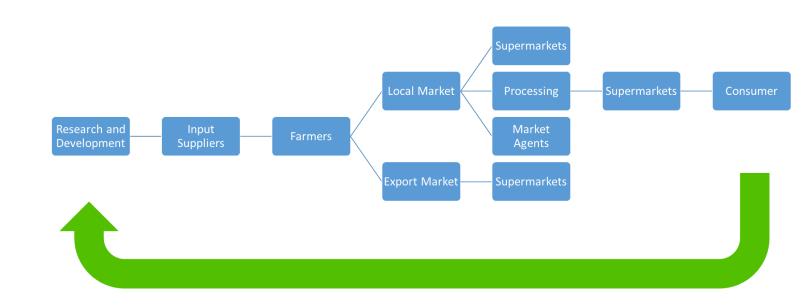
- Information
- Maximise Asset Productivity
- Economy of Scale



Supply Chain Auditing and Efficiency

- Traceability
- Global Gap
- Quality Control

Bigger barrier to entry
than
trading tariffs



Full Circle - Profitability

