Foodisms.

Understanding food and what it means to us

Understanding the context

PROJECT BRIEF

The Indian retail environment is unconventional owing to the manner in which disposable incomes within the middle class are increasing

Wants are slowly being given equal importance to Needs.

Retail as a sector focuses on the evolving needs of the consumer

- - - The penetration of the organized retail sector is 8%

Great platform for innovation in the constantly evolving system

WHY FOOD?

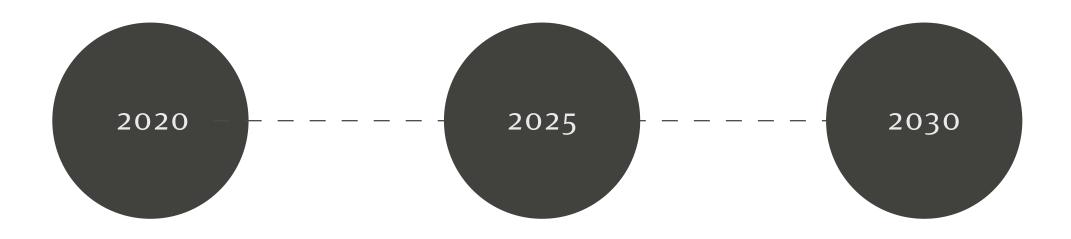
People's interactions with food

It is a need that is high in demand therefore there will always be a market for it, which changes the influence of different stakeholders in the supply chain

Decision making patterns differ in different contexts

Penetration of fruits and vegetables in organised sector is only 2%

only 5% of the Indian market prefers to buy their groceries from supermarkets



Time and Space become a luxury

Demand for efficiency increases |
Transport

Focus on quality of F&V | Physical Retail dying

Biotechnology | Sourcing of produce No physical Infrastructure

Warehousing /
Storage
Technology

Gaps-Need for:

Main Link

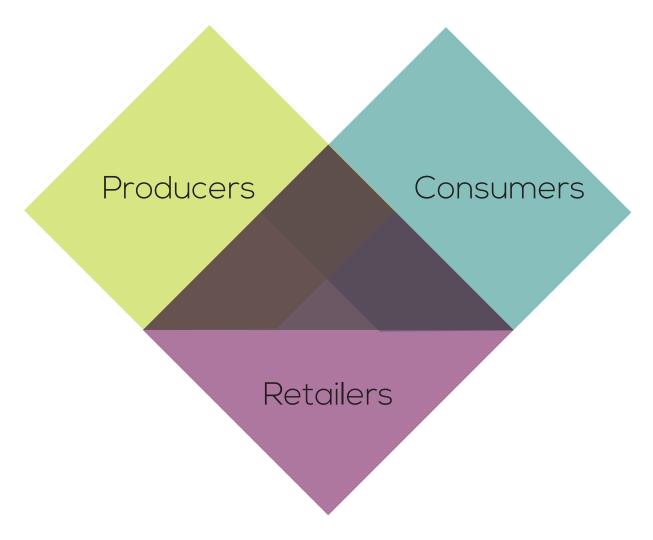
Producer — Retailer — Consumer

-Power to dictate prices -Better understanding of demand

- Providing a seamless experience - Standardisation of quality

-Ability to make informed decisions -Access to better quality and form

Area of interest



Reuse of cartons

Leafy vegetables and their perishability: Wilts easily

Organic Food Supply chain - High demand, low supply

Handling of produce

Temperature fluctuations while transporting

Supply Chain

PREDICTION	Input of numbersComputing of dataSegregation of InformationUnderstanding Behaviour	- Geographically relevant - Input from input Database Creation	- Segregation of demand Tracking Demand	Creating supply demandsSetting pricingGiving Order
	Efficient technologyOrganisation of input methods	Creating patternsComputing dataEfficient input by numbers	- Input from units - Technology to consolidate info	Assessing demandWholesale market studyReaching out to farmers
PLANTING & HARVESTING	- Spacing land - Buying seeds Planning	- Fertilizers & seeds - Waiting time Planting	- Reaping - Sorting Harvesting	- Taking produce to wholesaler/retailer Segregation
	Dividing landFinancial PlanningLand	- Soil Ferility - Seeds and Ckimate	- Manual picking of produce - Labour	- Rudimentary grading based on spoilage, insect infestation
BRINGING TO CC	- Price and demand announced	- Separation of grades of vegetables on the basis of visual quality	- Crating of chosen products - Weight is declared	
	- Study of wholesale martket pricing - Unloading	- Dividing produce into two parts , to return to farmer and to take to DC - Labour	- Physical handling of vegetables - Nature of crates / Type of vegetable	
REACHING DC	Loading into vehicleControlling temperaturesUnloadingTransportation	Weighing againstdeclared weightConfirmation with CCReconfirmation of weight	-Segregation on the basis of supply demand in given area Segregation	TransportSent to storage or displayedSent to Store
	- Dividing land - Financial Planning - Land	- Soil Ferility - Seeds and Ckimate	Collated big data on location specific consumer behaviourHandling of produce	- Food mileage kept in check - Loading/Unloading







Net investment excluding land Sorting practices Retailers connecting with farmers Number of steps = 7



Time taken within DC : 3-4 hours
Distributed according to location specific
demands
Number of steps = 5

Food Mileage



A measure of the distance (and time) travelled by foods between the place where they are produced and the place where they are eaten.

Long distances = lesser quality

Value decreases as mileage increases



Reduce the number of steps Make the steps more efficient

SUPPLY CHAIN



Shrinkage / structural support / handling What Time optimisation/ transportation When How?

Transport

CC -> DC Shrinkage & Handling from CC -> Store

Financial Planning

Risk Mitigation

Impact Damage

Time Optimisation

Focussed Immersion

Risk Mitigation

Why?

To provide a sense of security to farmers
To ensure that there is some assurance in the case of disruption

How?

Providing a margin of savings in order to manage savings Decreasing dependency on factors like climate for better yield

Financial Planning

Why?

To enable better decision making and facilitate better planning and leads to better yield

How?

Aiding the financial independence of farmers
Understanding their spending patterns
Introducing them to the understanding of finance

Shrinkage+ Handling

Why?

To enable better decision making and facilitate better planning and leads to better yield

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Impact Damage

Why?

Firmness of vegetable is used to guage quality
Discoloration and unusual shapes are not preferred by retailers

How?

By ensuring the natural shape/form is retained By reducing the risk of impact during transportation

Time Optimisation

Why?

To maximise on freshness when it reaches the consumer To cater to the consumption patterns of the consumer To encourage more consumers to opt for organised retail in order to buy vegetables

How?

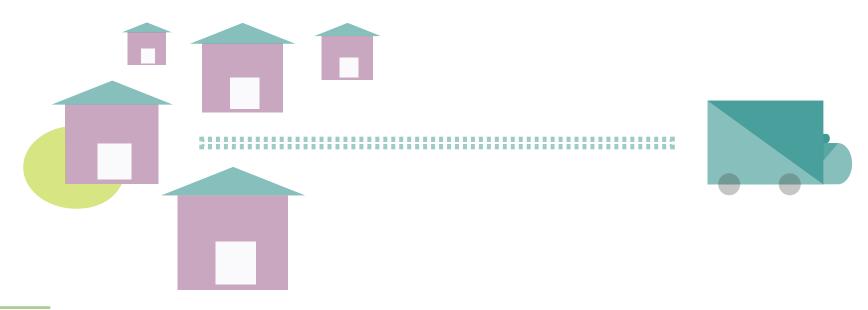
By optimising the time it takes for food to reach the consumer Understanding their spending patterns

Rent A Vehicle The Mechanism

Current Scenario

Each village has 2-3 vehicles that are rented out 2-3% farmers own vehicles

Per bag - Per kg - Distance

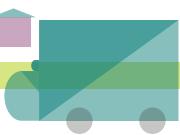


As derived from my contextual inquiry, which I extrapolated into multiple scenarios by observing patterns of behaviour

FARMER CALLS **AGENCY**

CASH FOR RENTED VEHICLE
IS PAID UPFRONT

Current Scenario



VEHICLE REACHES HOME



LOADING IS DONE (UNASSISTED BY DRIVER)



FARMER GOES BACK HOME AND RETURNS VEHICLE

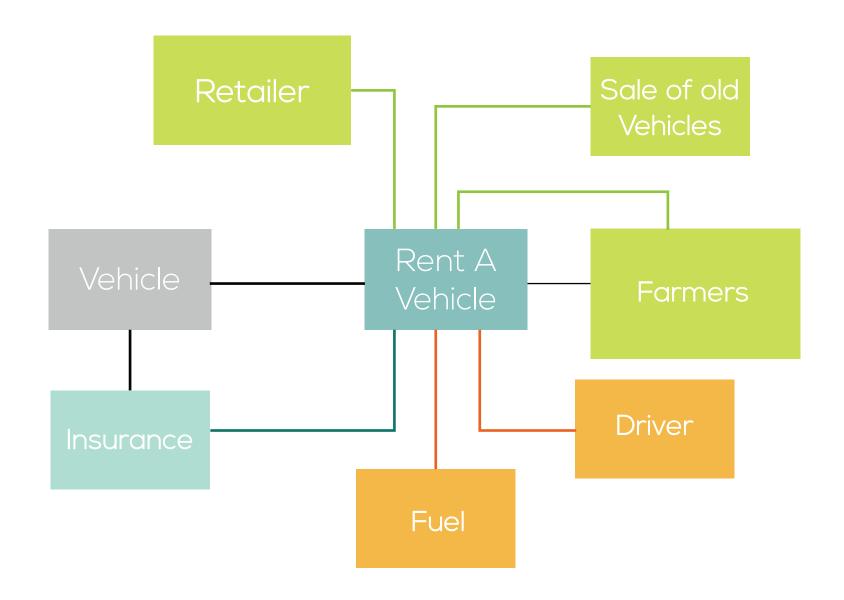


DRIVER TAKES FARMER
TO THE CC

Rent a Vehicle



An approach to improving the efficiency and organisation of transportation from the farmer to the CC, thus positioned to bridge the gap between retailer and farmer



Cash Flow

Who Benefits?

Farmer

Availing of the service means able to save more

Painless process with lesser effort

Retailer

Loyalty and support from farmers

More supply

Revenue generation

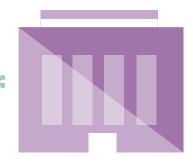
Retailer on the Go The Mechanism

Current Scenario

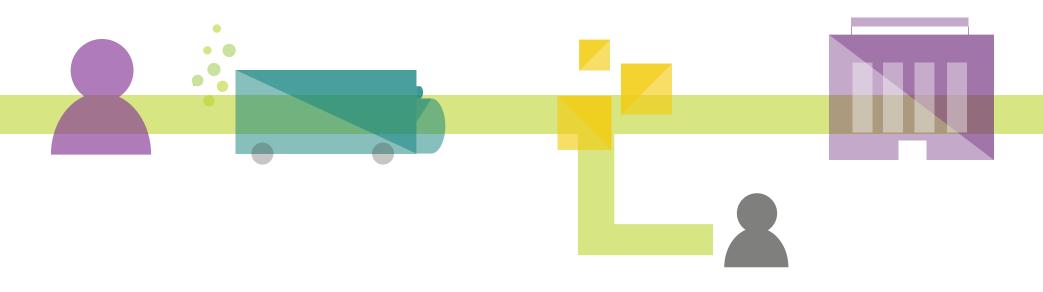
The retailer goes from the DC to the store
The retailer buys about 40% from the farmer
70 % of produce goes to wholesale

CAN THE % OF REJECTION DECREASE?

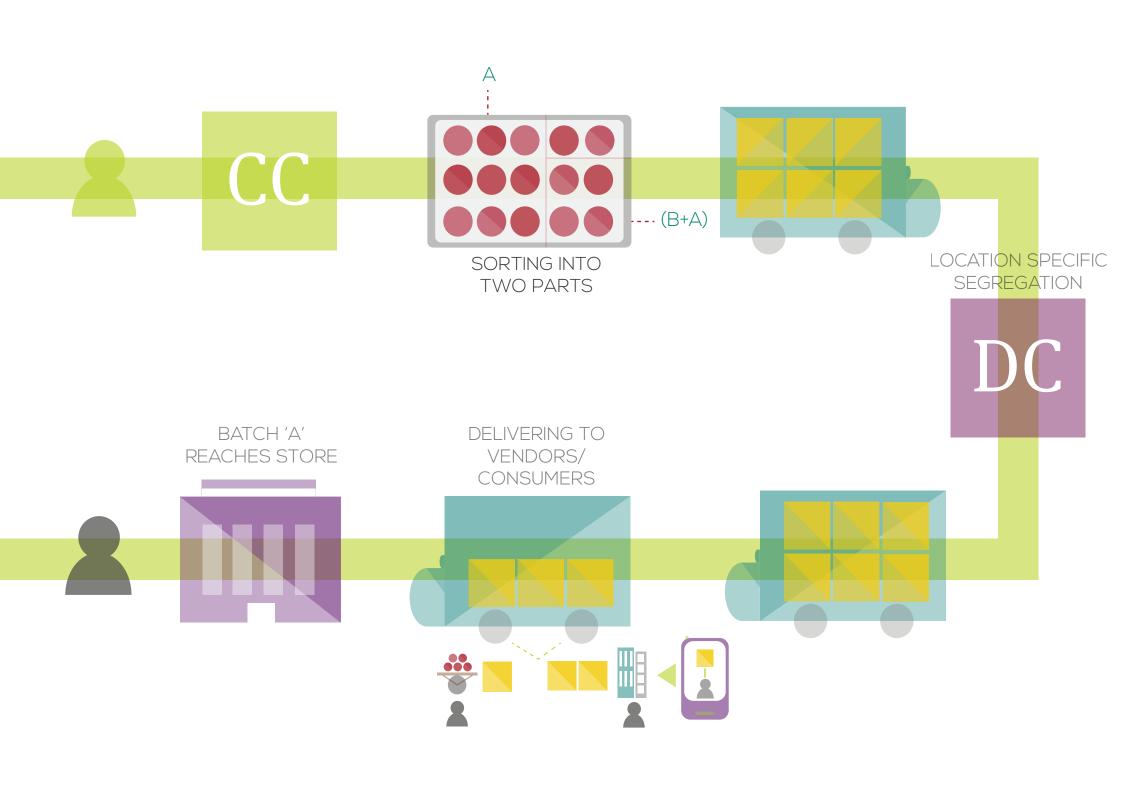




Retailer On The Go



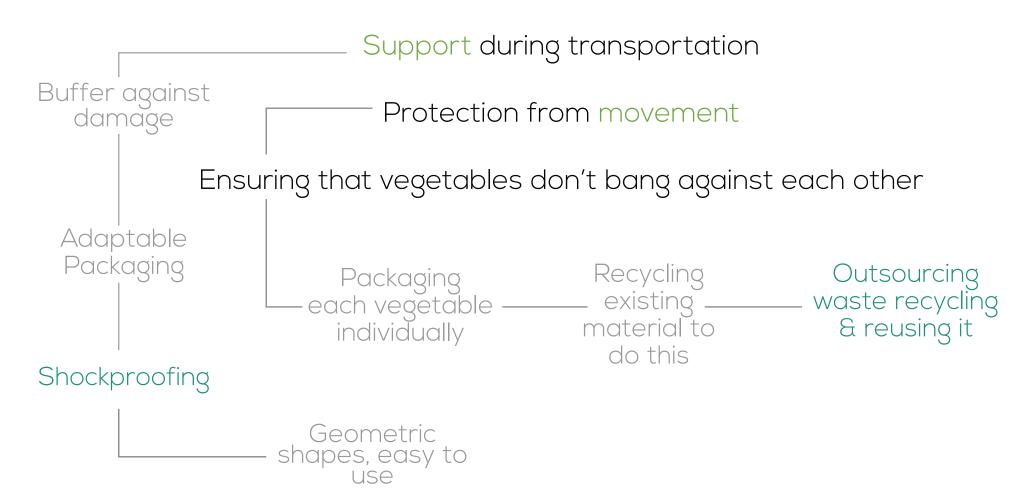
An opportunity to make the best of the distribution chain and increase the distribution efficiency



The Big Picture

Impact Damage

What?



Financial Planning

What?

Business model to plan spending

Introducing the concept of financial planning through infographs/campaigns



Risk Mitigation

What?

Enabling foresighting for farmers

Strategies for on-farm measures

Increasing interdependency between Farmer -> Retailer

Involving farmers in grading and sorting

Providing assurance by providing service

Teaching other farmers how to grow other crops

Renting Transport

Looking at fast moving crops for next season

Creating a self sustaining farm

Shrinkage+ Handling

What?

Planning the utilisation of space within the truck

Restricting the behaviour of handling the fruit

Integrating packaging from CC -> Store and using the same within the store

Allowing only selected vegetables Shrinkage to be touched Making sorting transparent

Dividing between

'Now' & 'Later'

Time Optimisation

What?

Integrating processes together

Ensuring that are the most appropriate route is taken

Making use of distribution efficiency

Mapping shortest route

Making use of travel time

Retailer on the Go

Current Scenario

Renting Transport

RENT A VEHICLE

Connecting retailers to more farmers

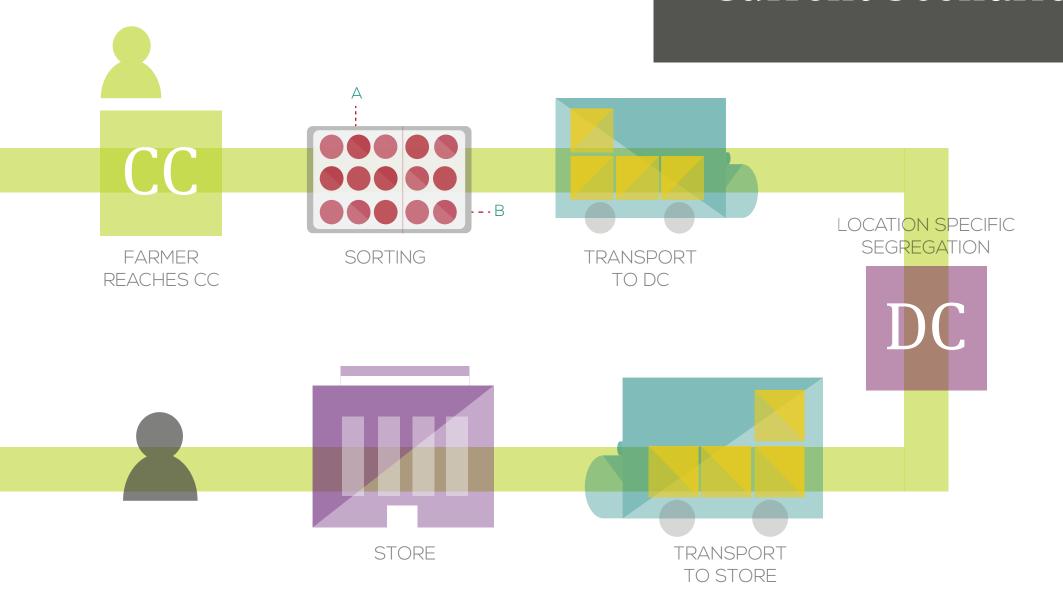
Dividing between 'Now' & 'Later'

Making some use of travel time

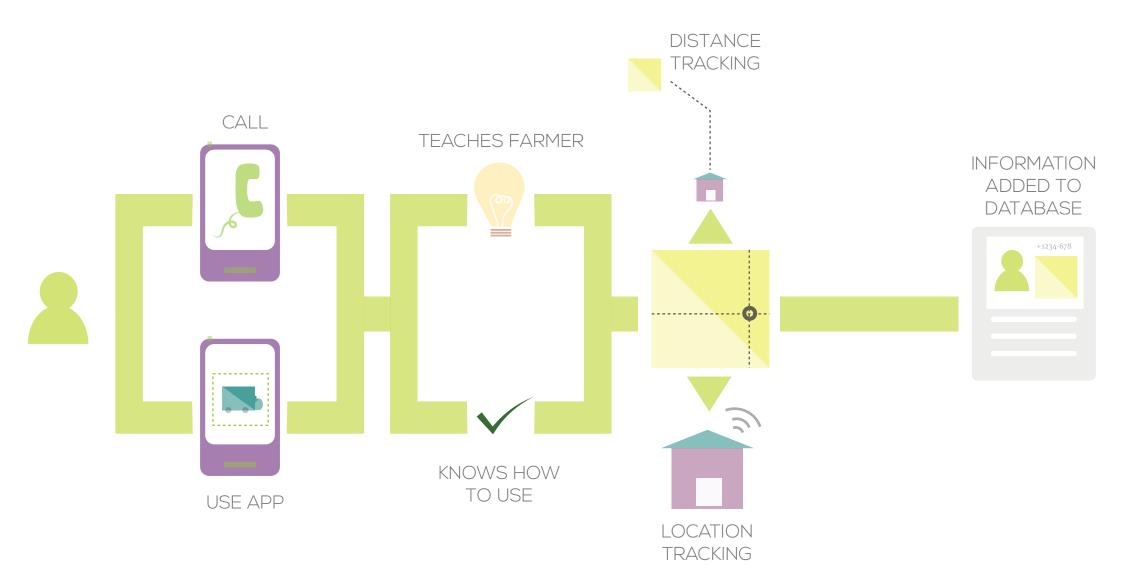
Mapping shortest route

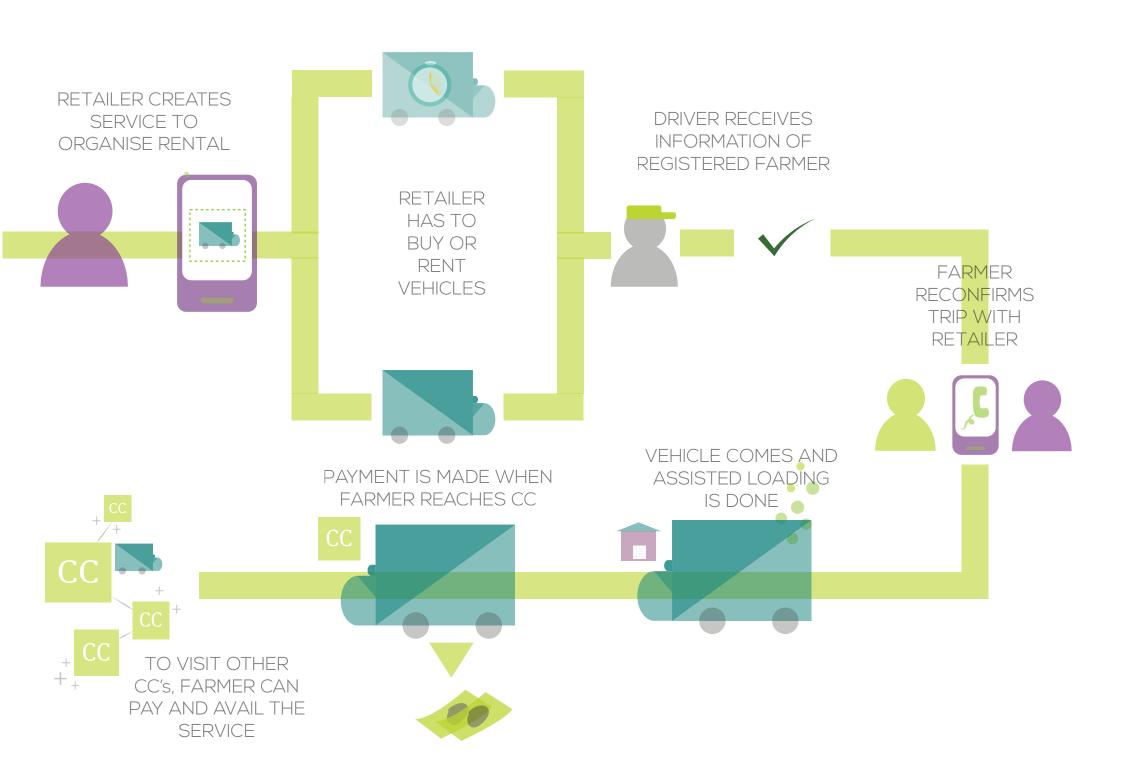


Current Scenario



Registration





Who Benefits?

Consumers

Easier access to better produce

Vendors
Cheaper to buy from Retailer

Farmer

Retailers buy more

Retailer

Food Mileage decreases More access to consumers

Anticipated Outcome

Short Term

Customers value efficiency of supply chain more

Food Mileage decreases

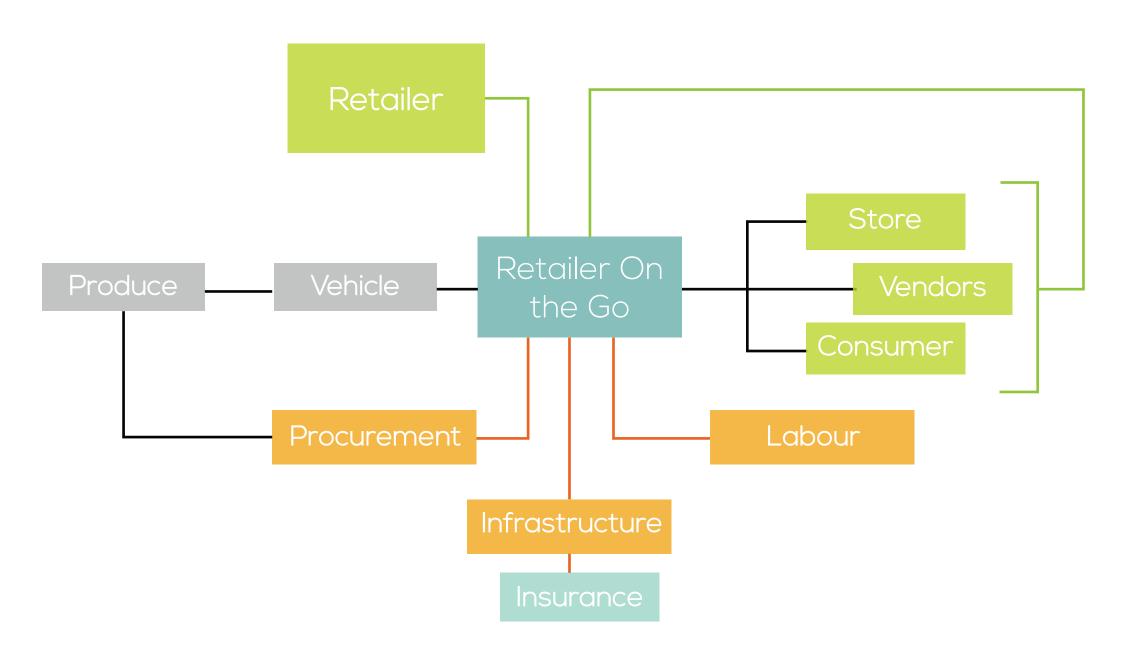
Long Term

Farmers are able to save more

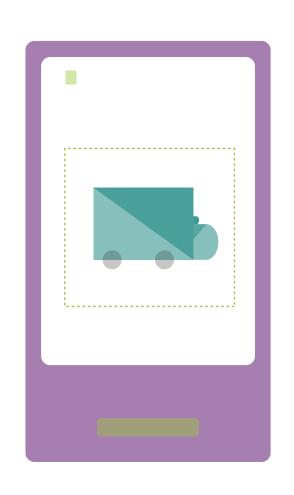
Demands for efficiency are met

Share of organised retail in Fruits and Vegetables expands

Supply Chain becomes more organised



Application





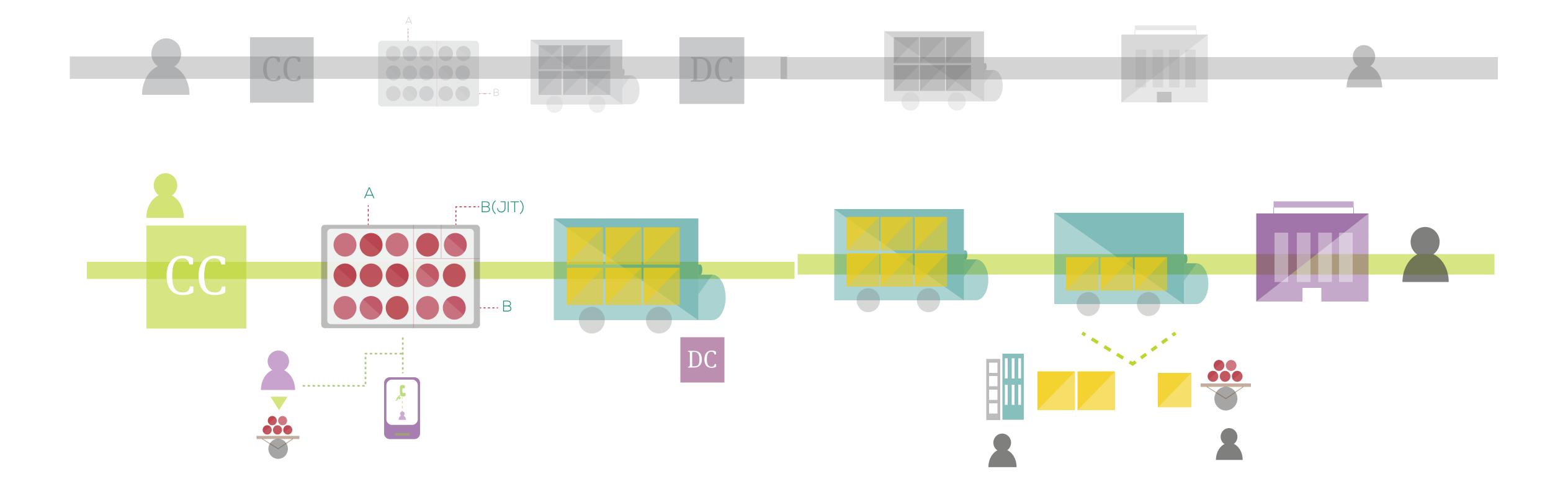




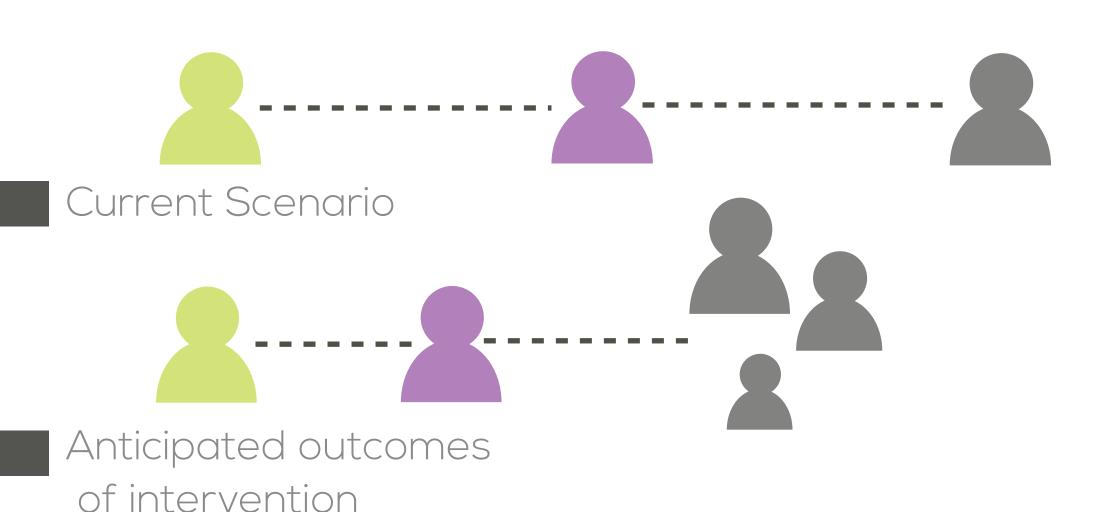
BOOKING SERVICE



TRACKS
TRUCKS IN
PROXIMITY



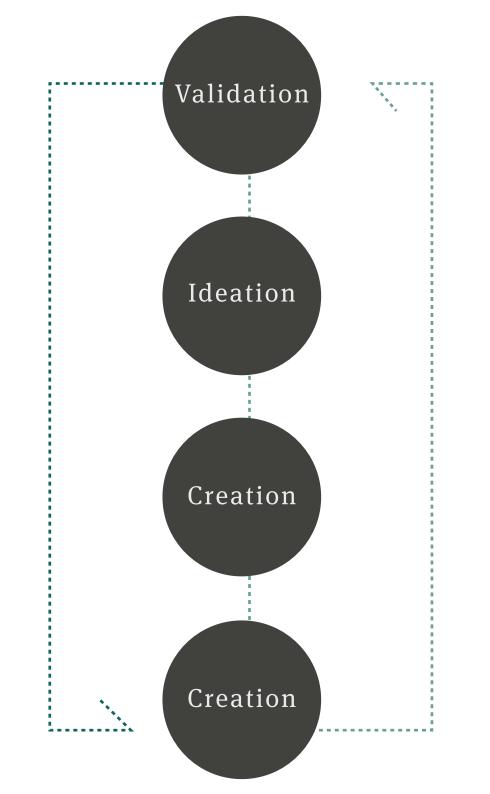
In Conclusion



Application







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Unfolding the Napkin; Dan Roam

Buyology; Martin Lindstorm



Bringing Retailers, Consumers and Farmers closer together using the lens of Service,
Technology and Sustainability