



LOGISTICS CONTROL TOWER



TVC
TOTAL VALUE CHAIN

A **Radhakrishna Foodland**® GROUP ENTERPRISE

OVERVIEW

- Multiple clients in Quick Service Restaurant (QSR), FMCG, Retail & Pharma Sector.
- Primary and Secondary Movement of Material in Dry, Chilled and Frozen environment
- Transportation in multi – temperature vehicle
- Multiple high importance and value SKUs
- Committed lead times



250+ number of routes



150+ Multi-temperature Vehicles



800+ SKUs

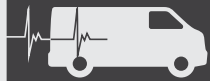
THE CHALLENGES



Limited visibility on vehicle location/ positioning – dependent on SMS and phone call



On route detours and undue stoppages



Limited control on health of the 250+ vehicles on 100+ routes



No Fuel usage monitoring



No visibility on temperature adherence of the food and material being transported



Limited vehicle maintenance monitoring



Limited visibility and communication of ETA of material to client locations



Planning for reverse logistics

THE SOLUTION

- Operations Control tower increases predictability and real time management
- Our control tower provides early warning to supply or demand imbalances, late shipments, and projected stock damages allowing you to pinpoint exceptions and initiate immediate corrective actions

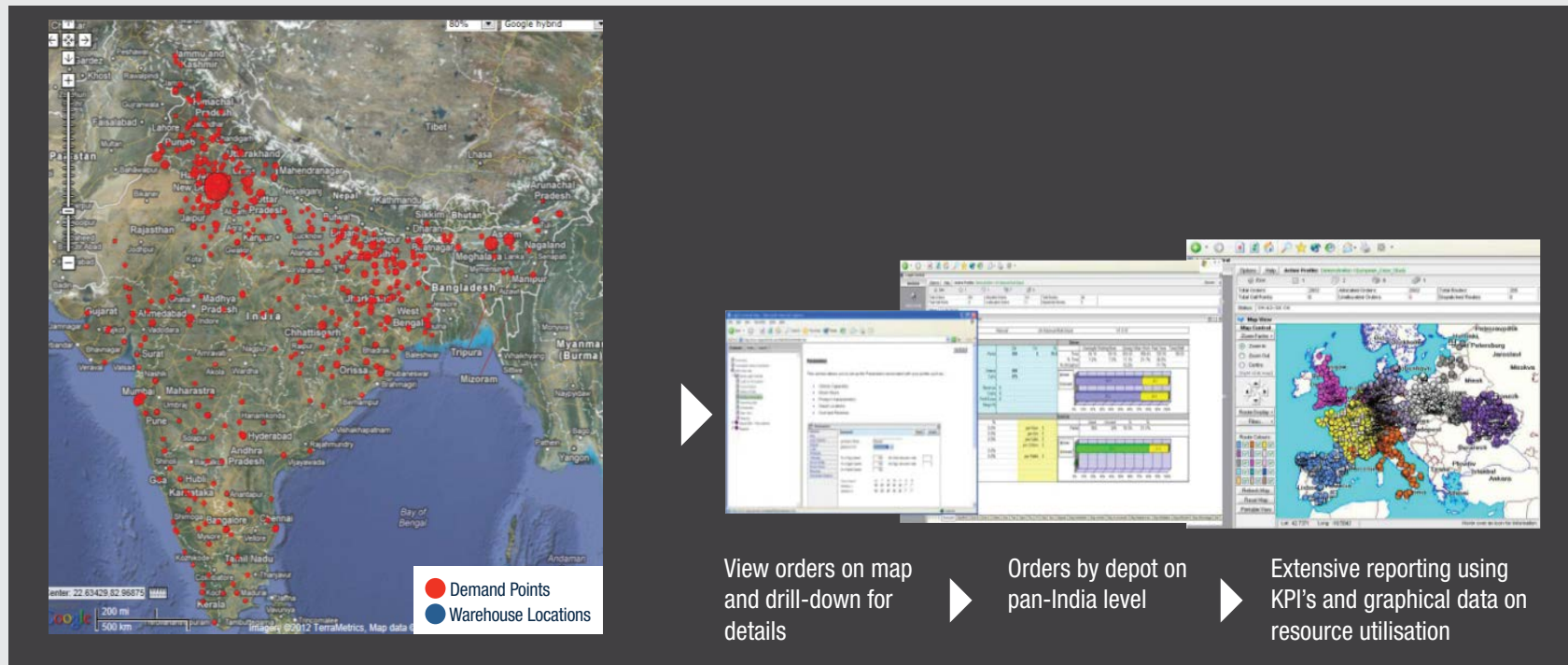


ROUTE OPTIMIZATION

Our routing solution is a new generation scheduling technology, providing a service based on leading edge technology, delivered to you in an easy to use system in a cost effective package

Benefits

- Visibility of vehicles and their routes
- Real time optimal route planning
- SMS & e-mail notifications are sent to client with estimated arrival times so that the stores can make plan accordingly
- Support to drivers on detours



VEHICLE TRACKING

- Vehicle route and performance tracked on a real time basis to ensure smooth delivery of goods
- Sends alert to the stores manager on the likely delivery time at the stores

Benefits

- 24*7 tracking of vehicles through GPS
- 24*7 in transit temperature monitoring of food and goods through sensors
- Reefer unit performance monitoring and temperature control - Sensors installed in the vehicles monitors any changes in the temperature and helps take corrective measures.
- Visibility of vehicle condition, ensuring timely assistance

Refresh time interval: 1 | 00:52 min

Overspeed 1
Running 26
Idle - Ign On 9
Idle - Ign Off 84
Inactive 11

SNo	Last Updated	Group Name	Status	Vehicle No	Driver	Location	Checkpoint	Speed (km/hr)	Distance (km)**	AC	Temperature 1	Temperature 2	
1	3 sec ago	Kalamboli	Idle since 6 hrs and 39 mins	MH 46 F 3326	Not Allocated (8888888888)	Near MH SH 76, Navade, Talaja, Navi Mumbai, Maharashtra 410208, India [19.055238,73.098148]	OUT-Kalamboli DC since 6 hrs and 49 mins	0	139.78	Off since 7 days 9 hrs	27.42°C	27.19°C	✕ +
2	3 sec ago	Kalamboli	Idle since 1 days 10 hrs	MH 46 AC 4684	Not Allocated (8888888888)	Near Kalamboli DC, ... [19.045998,73.104200]	OUT-Bangalore DC since 4 days 12 hrs	0	0.01	Off since 31-03-2017			✕ +
3	4 sec ago	Kalamboli	Running since 4 sec	MH 46 AF 9314	Not Allocated (8888888888)	Near Pune - Solapur Hwy, Loni Kalbhor, Maharashtra 412201, India [18.488922,74.037407]	NA	40	120.05	Not Active	Not Active	Not Active	✕ +
4	4 sec ago	Kundli	Idle since 11 days 12 hrs	MH 46 E 2064	Not Allocated (8888888888)	Near NH509, Baraus, Uttar Pradesh 281306, India [27.334793,78.031102]	OUT-McDonalds Family Restaurants - GIP DT (D0184) since 21 days 14 hrs	?	0	Off since 11 days 14 hrs		Not Active	✕ +

CUBE OPTIMIZATION

We improve **Cube Utilisation** in the DC's at loading by running an algorithm which helps in suggesting the best loading to Optimize Cube Utilisation of transport vehicles

Benefits

- Determine how many trucks or containers to use and how to load them ensuring Optimum vehicle space utilization.
- Create stable mixed pallets
- Find the right shipping box for an order
- At least 5-8% increase of cube usage, translating to similar savings in shipping costs.

Access with a web browser

Database Web Service: Upload master data from your database

User Interface

Master Database (Cargo & Container) | Engine | Load Plan Database

Archive Web Service: Download load plans to your database

Load Calculation Web Service: Send the shipment data to the engine and take the load plans back

MSN10 Load Factor Table

Max Load

Product	Max Load
Corsair Nautilus - High Speed	3.5
Corsair Nautilus - Low Speed	4.0
Scythe Wings	7.4
Thermalright XP-120	8.2
Corsair Nautilus - High Speed (OC)	8.8
AMD Stock Cooler	10.1
Corsair Nautilus - Low Speed (OC)	10.4

Delta, (1° C)
Smaller is better

Annual Containers	Annual Savings				Assumptions: Avg Cost per Container \$3,000.00
	0%	10%	15%	20%	
100	24,000	30,000	45,000	60,000	ROI on \$2,500.00 Enter the number of containers shipped per year in the pink cell, assuming these % savings from MaxLoad Pro: 8% 10% 15% 20% 1.29 1.81 2.47 3.31 weeks weeks weeks weeks
200	48,000	60,000	90,000	120,000	
300	72,000	90,000	135,000	180,000	
400	96,000	120,000	180,000	240,000	
500	120,000	150,000	225,000	300,000	
600	144,000	180,000	270,000	360,000	
700	168,000	210,000	315,000	420,000	
800	192,000	240,000	360,000	480,000	
900	216,000	270,000	405,000	540,000	
1000	240,000	300,000	450,000	600,000	
600	144,000	180,000	270,000	360,000	

ROI AND SAVINGS ANALYSIS

CUBE UTILISATION

ROI AND SAVINGS ANALYSIS

Indicative Only

RESULTS



100% vehicle visibility, 100%
on road issue resolution



>85% real-time on-time
performance of vehicles (in
case of uncontrollable factors



>95% real-time on-time
performance of vehicles (in
case of controllable factors)