



Build custom geospatial analytics for distribution networks



SaaS product in beta for automated B2B prospecting

### **CASE STUDIES**

- 1. Vehicle routing and fleet sizing
- 2. Inventory management for reps
- 3. Find B2B prospects that match your business

# **ACTORS**



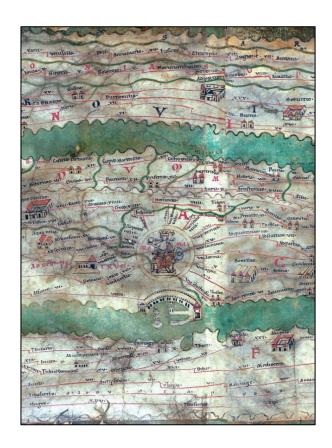
**MAPS** 



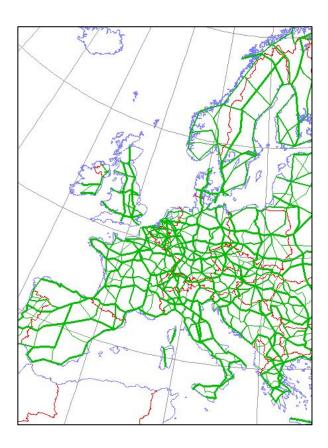
**DISTRIBUTION** 



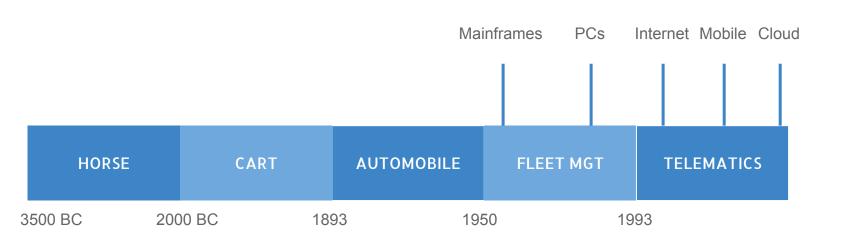
**DATA ANALYTICS** 



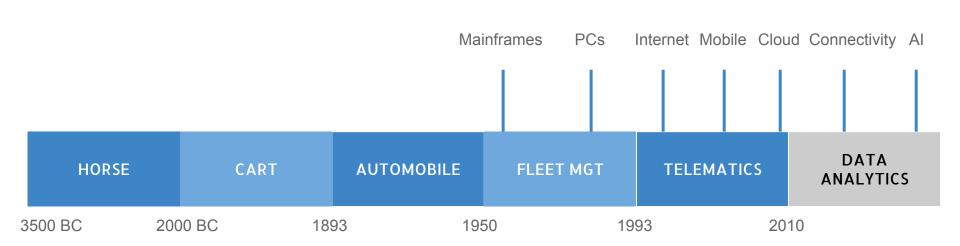




# **DISTRIBUTION**



# **DISTRIBUTION**



# **DATA ANALYTICS**

























Product Catalog

Sensor Data

Server Logs



Network Data













Billing Data







Clickstream



Mobile Date



















Set Top Box

Social Media



Text Files

Text Messages







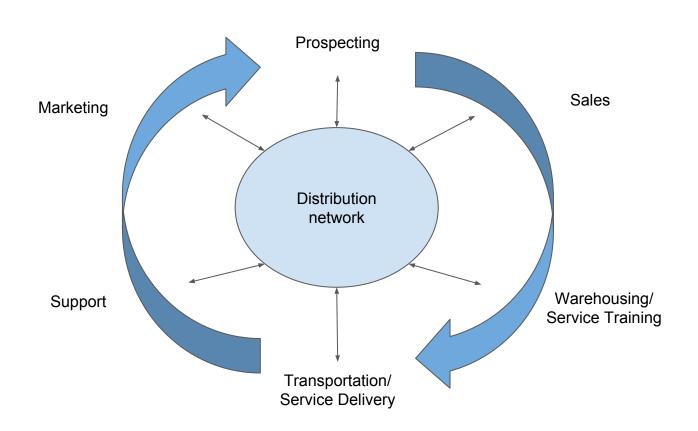








# THE PROBLEM(S)



### 1. Original Routes

The original routing plan was generated following "good rules of thumb", but it is sub-optimal in terms of distance and fleet costs.

Show Original Routes

#### 2. Optimised Routes

Using automated optimisation algorithms, we can reduce the total distance travelled, saving fuel and time.

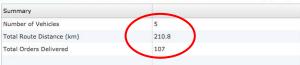
Show Optimised Routes

#### 3. Optimised Fleet

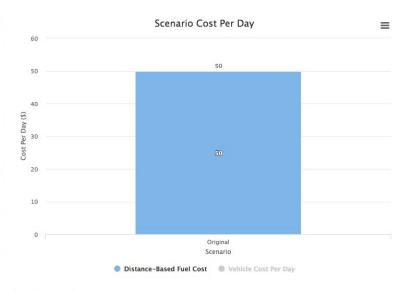
We can take optimisation a step further by considering fleet composition as well as routing, saving on total cost of ownership and operation.

Add Fleet Optimisation





Vehicle	Distance (km)	Orders Delivered
Vehicle 1	39.9	12
Vehicle 2	30.5	15
Vehicle 3	26.2	10
Vehicle 4	27.1	30
Vehicle 5	87.2	40



#### Scenario comparison

Scenario	Num Vehicles	Fuel Cost (\$ Per Litre)	Total Distance (km)	Vehicle Cost Per Day (\$)	Distance-Based Fuel Cost (\$)	Total Cost Per Day (\$)
Original	5	1.20	210.8	251	50	301

#### 1. Original Routes

The original routing plan was generated following "good rules of thumb", but it is sub-optimal in terms of distance and fleet costs.

Show Original Routes

#### 2. Optimised Routes

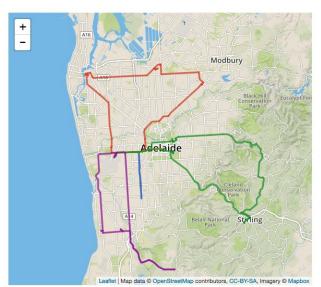
Using automated optimisation algorithms, we can reduce the total distance travelled, saving fuel and time.

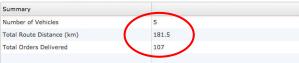
Show Optimised Routes

#### 3. Optimised Fleet

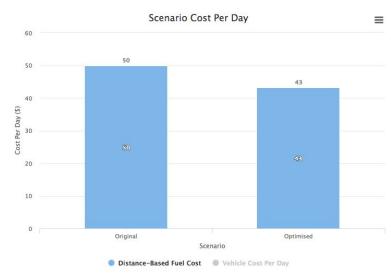
We can take optimisation a step further by considering fleet composition as well as routing, saving on total cost of ownership and operation.

Add Fleet Optimisation





Vehicle	Distance (km)	Orders Delivered
Vehicle 1	18.0	10
Vehicle 2	12.5	13
Vehicle 3	47.1	33
Vehicle 4	45.6	36
Vehicle 5	58.3	15



#### Scenario comparison

Scenario	Num Vehicles	Fuel Cost (\$ Per Litre)	Total Distance (km)	Vehicle Cost Per Day (\$)	Distance-Based Fuel Cost (\$)	Total Cost Per Day (\$)
Original	5	1.20	210.8	251	50	301
Optimised	5	1.20	181.5	251	43	294

### 1. Original Routes

The original routing plan was generated following "good rules of thumb", but it is sub-optimal in terms of distance and fleet costs.

**Show Original Routes** 

#### 2. Optimised Routes

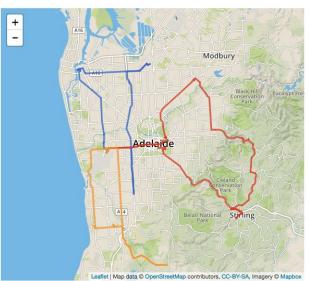
Using automated optimisation algorithms, we can reduce the total distance travelled, saving fuel and time.

Show Optimised Routes

#### 3. Optimised Fleet

We can take optimisation a step further by considering fleet composition as well as routing, saving on total cost of ownership and operation.

Add Fleet Optimisation





Vehicle	Distance (km)	Orders Delivered
Vehicle 3	49.6	35
Vehicle 4	45.6	36
Vehicle 5	69.0	36



#### Scenario comparison

Scenario	Num Vehicles	Fuel Cost (\$ Per Litre)	Total Distance (km)	Vehicle Cost Per Day (\$)	Distance-Based Fuel Cost (\$)	Total Cost Per Day (\$)
Original	5	1.20	210.8	251	50	301
Optimised	5	1.20	181.5	251	43	294
Optimised Fleet	3	1.20	164.2	156	39	195

Truck Visit Analytics v1.0.1 - Demo

Scorecard

Not Visited

Achievement

Utilisation

Stops

Plan - View

Plan - Entry

Exceptions

Definitions

### >7 Days

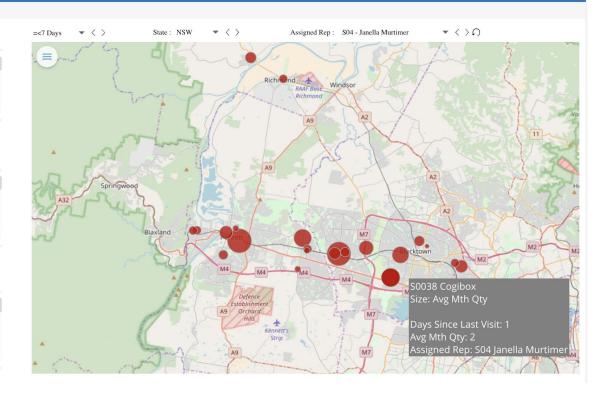
TA-Ship-to	Last Visit (days)	Avg Mth Qty	Avg Mth \$
S1510 Meeveo	11	5	368
S1396 Realblab	11	2	166
S1673 Demivee	12	1	102
S1884 Blogpad	12	1	85
RTM2756 Aivee	11	1	58

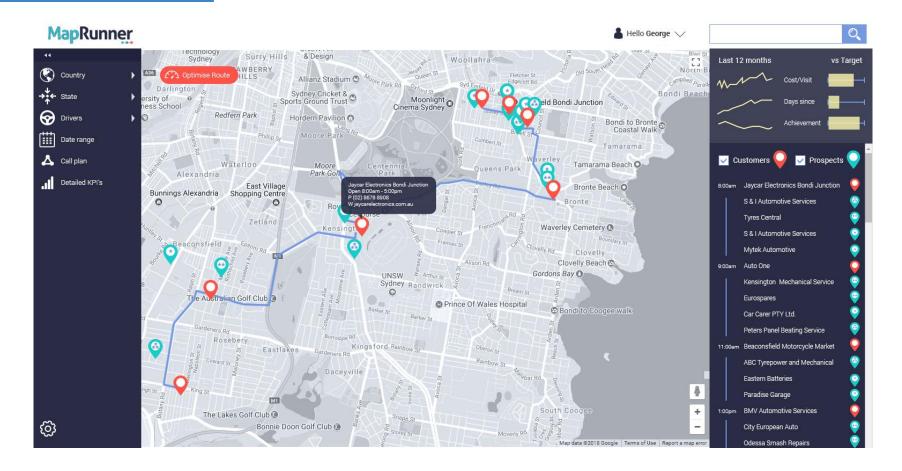
### >14 Days

TA-Ship-to	Last Visit (days)	Avg Mth Qty	Avg Mth \$
S1584 Zoomzone	19	3	224
S1186 Realbuzz	18	2	184
S0336 Divanoodle	20	1	76
C28274 Twiyo	22	1	61
C25583 Tagfeed	19	1	61
\$1615 Edgewire	28	1	60

### >30 Days

TA-Ship-to	Last Visit (days)	Avg Mth Qty	Avg Mth \$
S1826 Meevee	39	1	205
S1790 Rooxo	34	1	63
S1487 Feedfire	39	1	61
S0777 Eidel	35	0	31
C20319 Zoonoodle	32	0	26
C23618 Eidel	35	0	17





- Convergence of enablers
- Unstructured data provides "infinite contextual layer"
- Time is now for data analytics or lose competitive advantage

# Thank you.

Kale Needham | CEO & Founder

E kjn@spiraldatagroup.com.au

spiraldatagroup.com.au

