



# ZIGGY

Optimized Scheduling & Routing

## Business Challenge

Effective route planning and scheduling yields superior outcomes. For organizations with tens, hundreds and thousands of target sites, a random approach to assignments of personnel will always prove to be counterproductive.

Operations managers and supervisors need to come up with ways that ensure the quickest and most efficient path to scheduling and dispatching. In the absence of a data-driven approach, this process can be more costly and prone to miscalculations and reliance on guesswork.

# Solution

ZIGGY is a smart AI-driven scheduling & route optimization solution which helps organizations devise the optimal schedule that includes the most efficient route-to-site with the least travel time and with the quickest and most efficient path. The solution protects the organization from unnecessary cost, waste of resources and enhances service time and quality.

## Product Value

Plan your logistic operation instantly and optimize for top productivity.

# Features

- ❑ Flexibility to input right data for employees, zones and fleet of vehicles
- ❑ Routes optimization with all your predefined parameters, priorities
- ❑ Comprehensive schedule board for work field planning
- ❑ Ability to incorporate traffic data in order to provide accurate and timely estimation of travel time
- ❑ Live tracking for what's done, who's on time, who's behind

# How It Works



1. Upload Logistics data

2. Define Constraints and priorities

3. Generate daily, weekly, monthly visits schedule

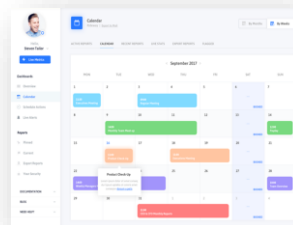
4. Obtain route path for each visit

1

2

3

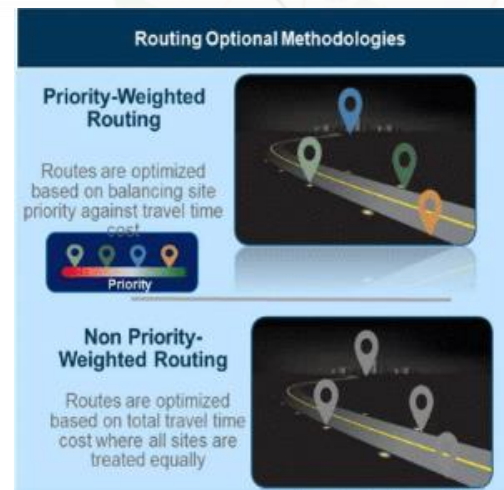
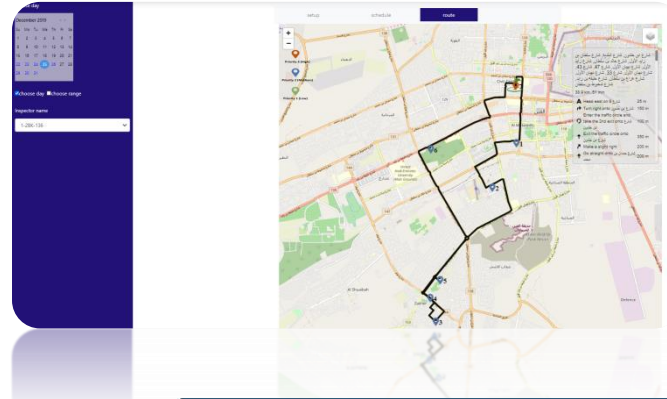
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# Why Ziggy For Your Business?

- ✓ Reduce travel time due to the selection of the shortest path.
- ✓ Save on fuels consumption and Prioritize Your Deliveries.
- ✓ Driving time and number of resources minimized.
- ✓ Dynamic and smart schedule for your field work.
- ✓ Get the optimal sequence of locations to visit on the map.
- ✓ Monitor your team's progress on a map view with real-time data.
- ✓ Easily manage large volume of orders/routes your business process every month.
- ✓ Keep your delivery and pick up on time.



## Industries



# Case Study

## Challenge

The client is a government organization responsible for monitoring the regulating the food and agricultural industry through routine inspection

The organization recruits around 150 inspectors to inspect about 4000 sites, with each inspector assigned to certain geographical area.

Client wanted an efficient method to improve inspectors performance based on smart scheduling.

## Solution

Using evolving technologies built on AI and perspective analytics, Cognitro successfully resolved the challenge by applying the route optimization solution ZIGGY.

With sophisticated route mapping algorithm, we resolved the challenges with great precision . Here's how we did it –

- We assembled the data, configured the model and provided the recommended schedule/route back to the client for verification
- Cognitro provided a side-by-side comparison of a randomized test and an optimized test taken priority into account for 12 days run
- The client had the ability to add more inspectors, and zone data parameters than before.

## Results

### Cost Saving

Saved yearly on fuel cost

**1.2 Millions USD**

### Productivity

Total working hours gained

**12,166 Hours**

### Efficiency

The number of sites visited per day has increased by

**+37% Sites**

## Interested? Get in touch.

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