

# THE VALUE OF ROUTE PLANNING AND OPTIMIZATION

Doug Hill | Director of Marketing <a href="mailto:dhill@routesmart.com">dhill@routesmart.com</a> | 800.977.7284



# **ROUTE PLANNING AND OPTIMIZATION**



# POSTAL & PARCEL DELIVERY

- Letter delivery
- E-commerce packages



### **PUBLIC WORKS**

- Waste management
- Street sweeping
- Snowplow
- Work orders & inspections



## **NEWSPAPER**

- Home delivery
- Retail distribution
- Total market coverage (TMC)

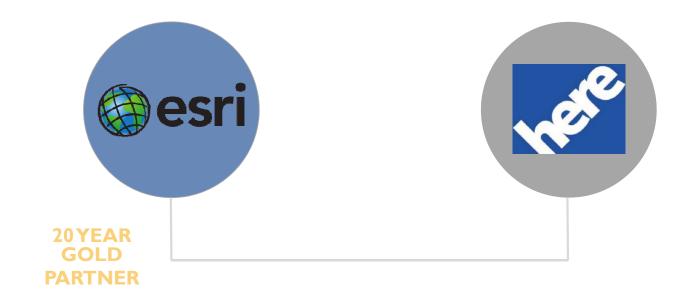


## **UTILITIES**

- Meter reading
- AMR
- Work orders & inspections
- Outage management



# **PARTNERS**





- Traditional route planning
- Large-scale projects
- Route balancing and sequencing
- Detailed editing tools
- Custom features



- Dynamic routing for parcel delivery
- Fast results
- Scalable SaaS solution
- Reduced I.T. infrastructure
- ArcGIS for Server
- Standard APIs



# **VALUE OF ROUTE OPTIMIZATION**











Decrease total route time and distance

Improve customer satisfaction

Solve large problems in seconds

Help drivers on the road

Save time and money with hosted deployment

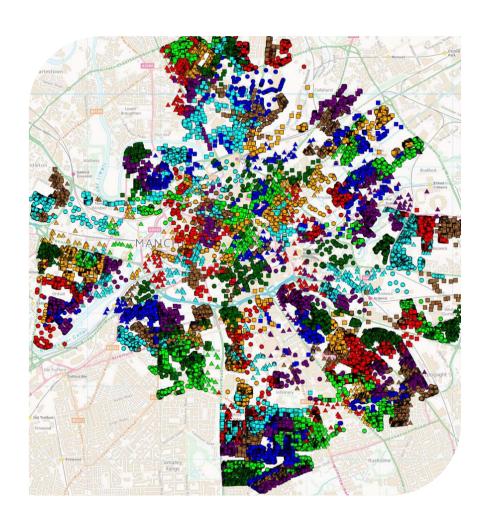


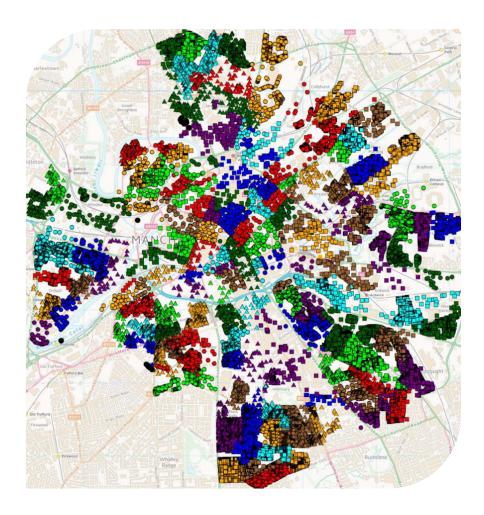




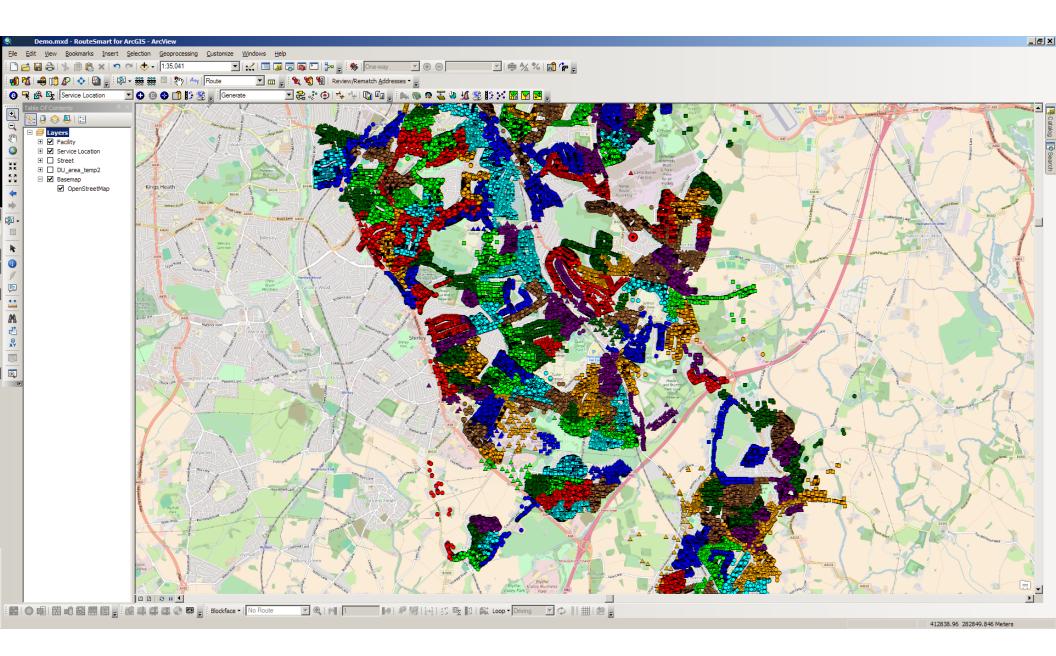
## **ROUTE PLANNING AND OPTIMIZATION**







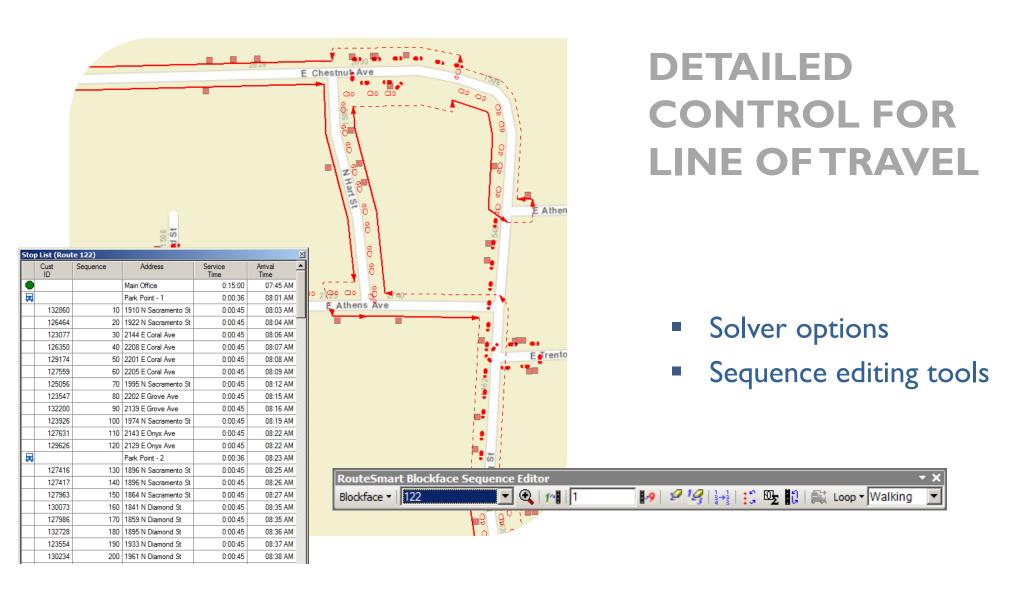
**HIGH-DENSITY OPTIMIZATION** 





# OPTIMIZE SEQUENCES FOR LARGE ROUTES

- Hundreds of locations
- Walking service
- Driving service
- Park and loop problems





# WEB SERVICES FOR DYNAMIC ROUTES



# **ROUTE OPTIMIZATION - INTEGRATED**







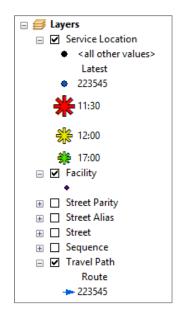


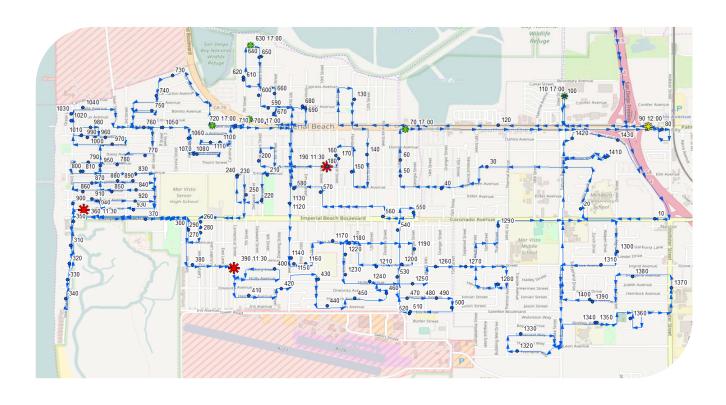


HANDHELDS TELEMATICS

Esri NAVIGATOR RS NAVIGATOR TOMTOM

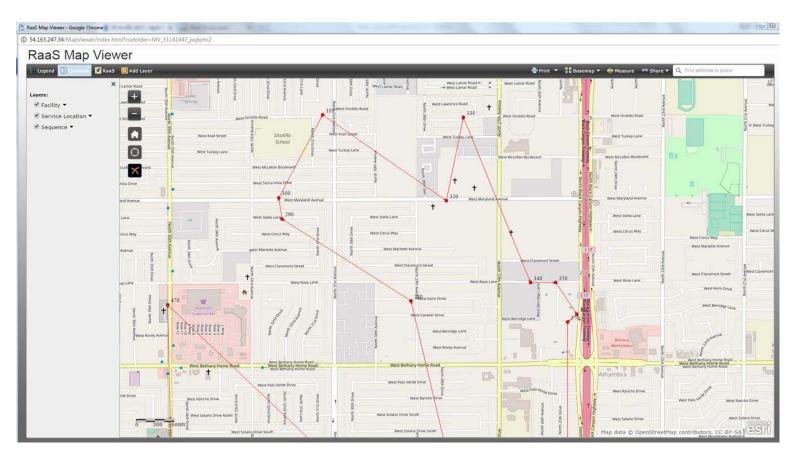
GIS VIEWING REPORTING





# GENERATE ROUTES AND OPTIMIZE SEQUENCE

- Hundreds of locations
- Walking service
- Driving service
- Time-definite deliveries







- Coming later in 2017
- View the results of RaaS in your browser



# CASE STUDY - ONTRAC



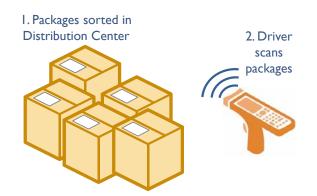
- Western US last-mile fulfillment
- 1400 routes per day in RaaS
- 70-75 stops per route
- Option for contract drivers
- RaaS integrated with handhelds



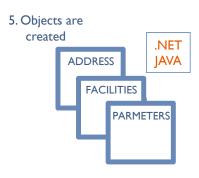


- Drivers sequence routes in <30 sec.</li>
- 30 minutes more time for deliveries
- Time definite deliveries being met
- Fewer drivers making more deliveries
- I million routes in April

















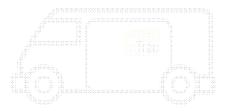
6. Sent to RaaS Geocoded Sequenced

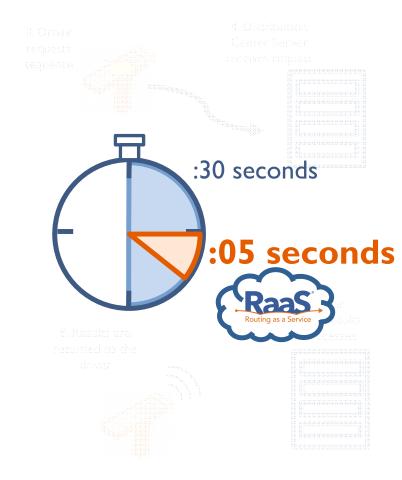






Driver leads
 the van and goes





5. Objects are



6. Sent oo RasS Geocoded Sequenced





CLIENT BENEFITS	
Reduce average travel distance	8-10%, 50 miles per route ~ 4.5 miles, \$1.25/mile
Decrease route planning time	30 minutes, 6-8 additional stops \$10/hour
Save time sorting and loading, load in waves	15 minutes, 3-4 more stops \$10/hour
Reduce number of routes	10% fewer routes Fixed costs \$100/route
Meet critical delivery times	Fewer redeliveries 1-2 per route \$1-\$2



# **CASE STUDIES**

RouteSmart

**United States Postal Service Finds** 

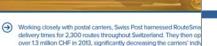
The United States Pestal Service required a new solution for a new line of business, so they implemented RouteSmart

RaaS to optimize routes for Sunday deliveries of Amazon packages. The Postal Service relies on RaaS to improve efficiency by 30%, and has been able to double their Sunday deliveries over the past year.

Success with RouteSmart's RaaS

CASE STUDY // RouteSmart for Postal & Parcel Delivery

How the Swiss Post optimized over 2,300 mail routes and saved





### THE CHALLENGE

The Swiss Post has been delivering mail throughout Switzerland sir services vasity different geographic areas, ranging from the country's cosmopolitan cities like Geneva and Zürich.

The Head for Route Planning and Editing, Markus Steinmann, toge Specialists, has reorganized over 2,300 routes in more than 90 facili The verification of the sequences by the Delivery Team Manager v (manually), then moved to Microsoft Excel and color coded maps.

As Switzerland grew, the buildings, related traffic, and mail volume to new delivery points were added manually at the apparent best sequemal sorting centers. The process was not ideal because new points

(a) Isle of Man Post Office has increased p of postal delivery rounds

CASE STUDY // RouteSmart for Postal & Parcel Delivery





### THE CHALLENGE

The underlying trend with volumes over recent year They are also the most ti background that the lide from integrated Skills Li

analysis of each route. To was time consuming and the analysis was subje-

### THE SOLUTION

As Mike Cubbon, Special for the investment was to a without the need for labor still, we needed to remove Digital mapping allows ac required a solution that en in our approach to review The RouteSmart software and street box collection

"RouteSmart

plays a big

future."

role in Posti's

CASE STUDY // RouteSmart for Postal & Parcel Delivery



Beginning in 2008, Postl Group began a successful route improvement project with RouteSmart at its core. The team integrated RouteSmart into their operations processes, improved geographic data, and learned to better handle variations in daily volume. The results of the project more than achieved the required minimum 5% cost savings across the board, and showed positive returns much faster than expected.

Posti provides businesses and consumers with delivery services for letters, direct mail. newspapers, and magazines throughout Finland and 11 more countries. The company, owned by the state of Finland, has been operating for pearly 400 years, and had 2014 net sales of EUR 1.859 million. They provide a solid background and long-term commitment to their

Russia, and OpusCapita. Through its 23,000 employees and 1,000 post offices, and 400+ parcel stations, Post! serves 5.5 million locations and delivers 9 million sendings every day.

### THE CHALLENGE

Business challenges for Posti included measuring and increasing delivery efficiency, improving operating scenarios, and increasing cost savings throughout the organization.

From an operations perspective. Posti needed to meesure, plan, and optimize their routes as well as perform analytic modeling. These would be required to more effectively react to changing delivery volumes. But Posti would first have to integrate RouteSmart into their existing infrastructure, and improve geographic data such as delivery location information and street data

They would use RouteSmart to help them attain all goals.









Posti Group's four divisions include Postal Services. Parcel and Logistics Services. Itella

Post's ambitious goal of 5% targeted cost savings at each delivery center needed to be met by decreesing total travel distances, effectively modeling the proper number of routes based on delivery volumes, and increasing vehicle utilization. In addition. Posti desired to achieve even higher

# **ABOUT ROUTESMART**































# **DRIVING CLIENT SUCCESS**



- We build RouteSmart
- We support it
- We back it
- We partner with industry leaders



# Client Services

- Experienced Implementation Consultants
- Product training
- Special projects
- Dedicated Support Staff



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Added Benefits

- Networking forums
- SmartDirections news and info
- Skill Builder program
- Routing U
- Intersect conferences



# **INTERNATIONAL CLIENTS**



Mrvatska pošta







Post



















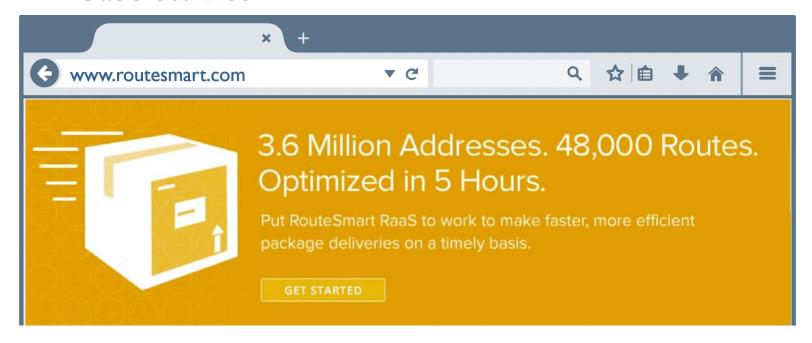
Jersey Nost





# **WWW.ROUTESMART.COM**

- Company information
- Industry profiles
- Case studies





Doug Hill
Director of Marketing dhill@routesmart.com 800.977.7284

