

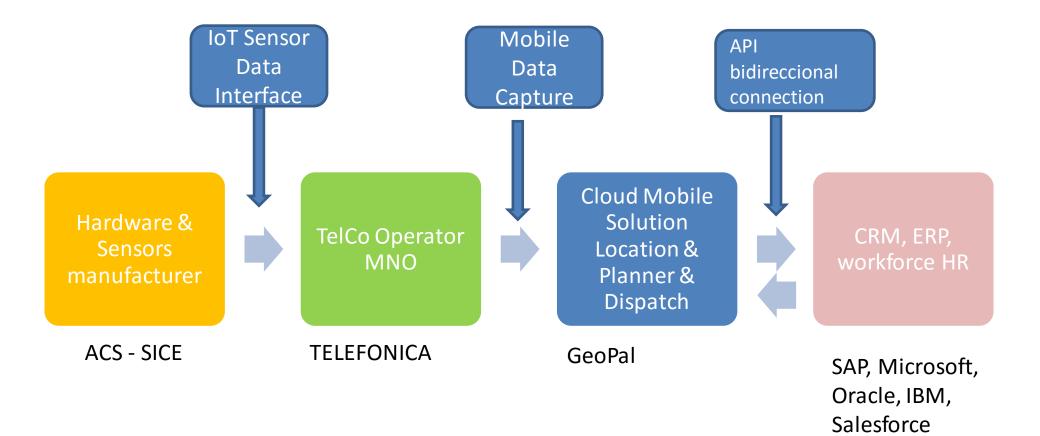
GeoPal – Control de Tráfico M2M / Traffic Control M2M

Making Field Operations World Class

Job Scheduling and Dispatch Customizable Mobile Forms Mapping and Location

Reports and Accountability





Traffic Control Value Chain Hardware & Sensors



Hardware & Sensors manufacturer









INICIO / ACTUALIDAD / SICE COMIENZA A PRODUCIR EL NUEVO REGULADOR DE TRÁFICO MFU3000

22 Marzo 2011, Alcobendas. España. Sistemas inteligentes de tráfico, Tráfico Urbano

SICE comienza a producir el nuevo regulador de tráfico MFU3000

El nuevo regulador incorpora los últimos avances tecnológicos en materia de tráfico urbano.



El MFU3ACT000 incorpora los últimos avances tecnológicos tanto desde el punto de vista de la electrónica como del "firmware" y la Ingeniería de Tráfico Urbano.

INICIO

SOBRE SICE

LÍNEAS DE NEGOCIO

En sus módulos electrónicos se encuentran varios micro controladores de última generación (Tecnología ARM) que garantízan una conectividad nativa total en cualquier entorno y capacidad de almacenamiento.

Los aspectos más relevantes a destacar respecto a los modelos anteriores son: su elevada conectividad, la agrupación de toda la funcionalidad de Ingeniería de Tráfico admitiendo distintos modos de

funcionamiento y, por último, la compatibilidad 100 por 100 tanto a nivel de hardware como de software con su antecesor, el MF4.

Sevilla va a ser la primera ciudad de España que instale masivamente este nuevo regulador, seguida de Lima y Trujillo, en Perú. Con estos datos, hacia el verano, nos encontraremos con un parque de alrededor de <mark>300 d</mark>e estos nuevos equipos instalados en distintos lugares de Perú y alrededor del centenar en la ciudad de Sevilla.













Traffic Control Value Chain Communications M2M



	Telefunica BUSINESS SOLUTIONS	Telefinica BUSINESS SOLUTIONS
TelCo Operator	m2m Telefonica leading the IoT pathway	m2m Telefonica leading the IoT pathway
MNO		About Us Connectivity Hub Transport Utilities & Sustainability Connected Car Managed Connectivity Smart Device Services Business Advisor Smart Business Control
TELEFONICA	Managed Connectivity Smart Device Services Business Advisor Smart	CONNECTIVITY HUB Smart Device Services
Managed connectivity	CONNECTIVITY HUB Managed Connectivity	
Smart Device Services		

Traffic Control Value Chain GeoPal Cloud Platform & App 🏵 GeoPal

Cloud Mobile Solution Location & Planner & Dispatch

Filtering IoT alarms with Rules

Creating Jobs using the Rules

Visual Planner

Job Dispatching









Traffic Control Value Chain GeoPal API Connect Module & GeoPal



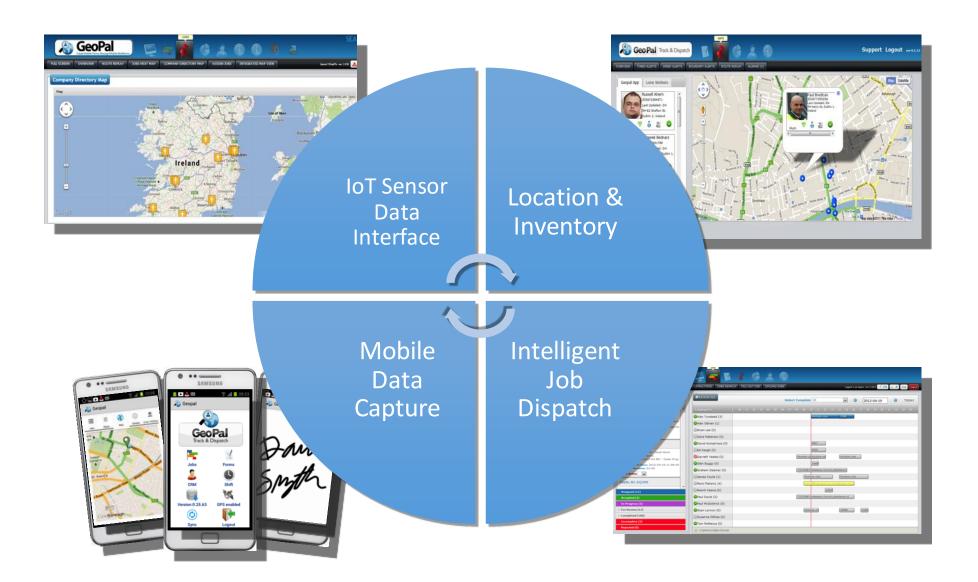
Integrate GeoPal with :

- Finance systems : Sage, Quickpay,
 Freshbooks, Xero, etc
- CRM : Microsoft Dynamics CRM
 Salesforce, SugarCRM, Zoho, etc
- ERP : SAP Business 1, Microsoft Dynamics Nav, NetSuite, Sage, etc.



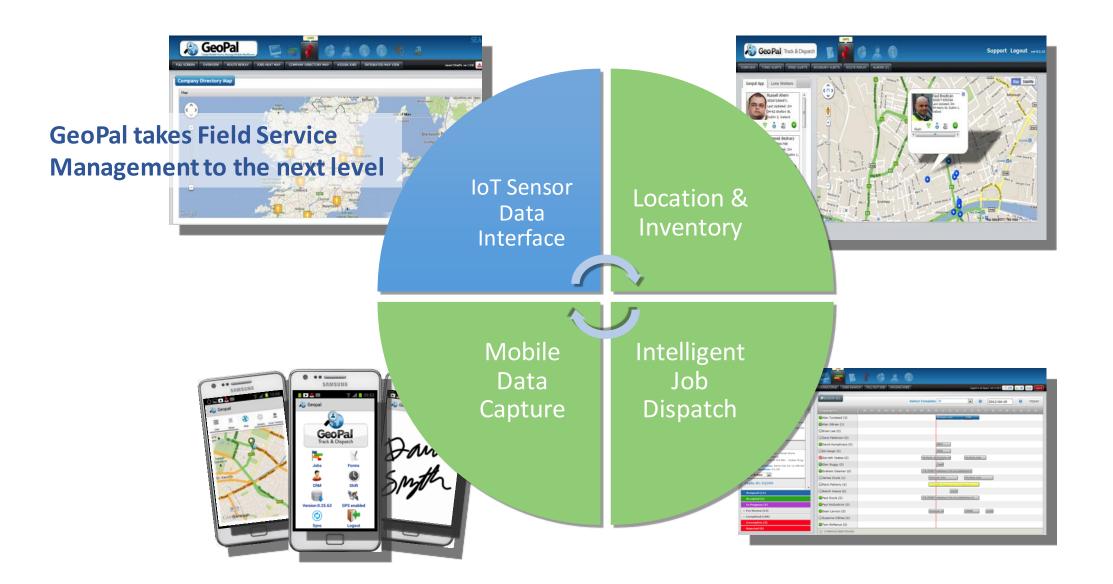
GeoPal Platform





GeoPal Platform





GeoPal Enterprise Mobility Agile Platform





GeoPal API Connect Module

 SAP Business
 N

 NETSUITE
 maximo

 Microsoft
 Microsoft

 Dynamics*CRM
 MAY

GeoPal Web Module



Value Proposition of Proactive IoT /M2M and MWM





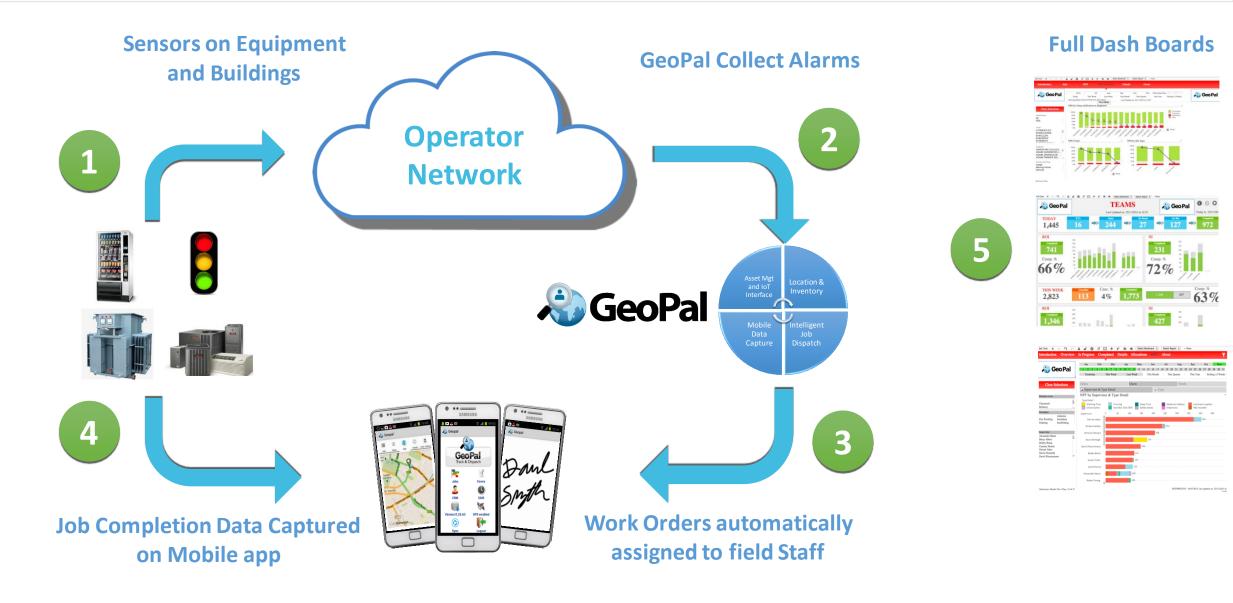
operational savings of 30% through increased efficiency in deployments and decreasing false alarms. Reduce Admin costs by 50% by eliminating paperwork

100% on-line asset status. Increase asset availability by 19% with proactive field service.

Improve reporting, and decision-making with 100% of alarms captured and access to all historical information. Comprehensive reporting with customizable reports delivers greater transparency on KPIs and SLAs Reduced risk by speeding up response times and mitigate risks. 100% proof of all work done and compliance

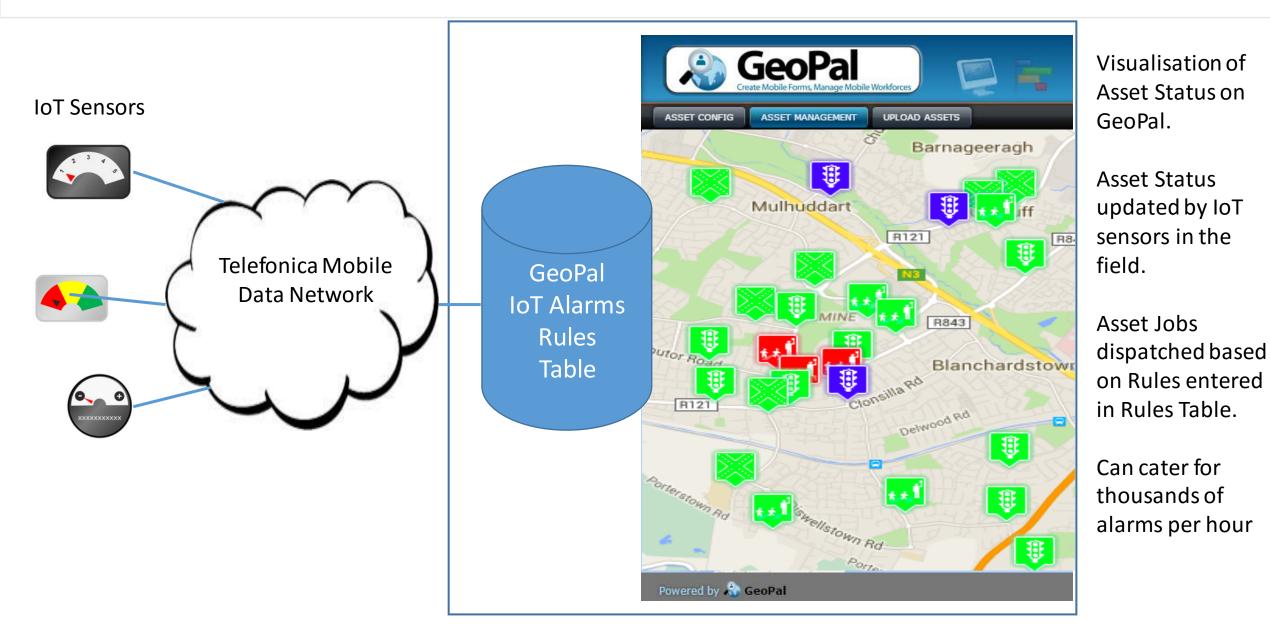
GeoPal Intelligent Job Dispatch with Full Dash boards





IoT / M2M Sensor Data Interface





Award winning



IDTechEx

Best IoT Technology Development:

The winner here was Geopal Solutions and the company's intelligent dispatch system that has so far received a very positive response from many customers. GeoPal's IoT-enabled mobility platform and intelligent job dispatch gives businesses with assets in the field the ability to eliminate expensive, reactive maintenance and leads a shift towards a proactive, preventative model of maintenance. With IoT sensors on assets, alarms are raised when assets go out of tolerance, but before they become faulty. These alarms can automatically trigger work orders that are sent to field technicians' mobile devices, maximising asset uptime.

Dublin City BID won a Merit Award in Downtown Leadership and Management at the 2013 IDA Awards. The winning project uses GeoPal to improve the productivity of street ambassadors and office staff, and reducing the cost of providing their service to Dublin Town.

"GeoPal has resulted in a 30% time saving for the Ambassadors, so we have redirected that time to



Sample: Emergency Orders

Dashboard This screen provides an overview of Emergency category Emergency Orders work orders and there geographical location.

III: Avg	Time To Res	pond by Shift	B Open Emerge	ency Call Age Profil	
Open En Order	nergency Ca Days Open	Il Age Profile Order Ty	уре	Assigned To	
2	6	External	Gas Escape	Larry Garcia	
4	6		Gas Escape	Larry Garcia	
52	6	External	Gas Escape	Vicente Atkinson	
202	5		ncy Gas Safety C	Larry Garcia	
243	5	Priority C	Call	Alton Quinn	
271	5	External	Gas Escape	Dirk Glass	
310	5		ncy Gas Safety C	Clemente Cantrell	
390	4		Gas Escape	Ted Gibson	
426	4	Priority C		Domingo Sawyer	
471	4	Priority C		Mohamed Holman	
577	4	Priority C		Rufus Kaiser	
651	3		ncy Gas Safety C	Gerardo Andrade	
686	3	Priority C		Morris Yarbrough	
713	3		ncy Gas Safety C	Michale Guy	
733	3	Priority C		Florencio Bentley	
767	3		Gas Escape	Dirk Glass	
831	2		ncy Gas Safety C	Marshall Cohh	

Time Profiles

Emergency

Utilisation

Scorecard

Shifts



Job Reports About





Filters

Sample 8 : Field Assets. Traffic Lights



Visualisation of Asset Status on GeoPal.

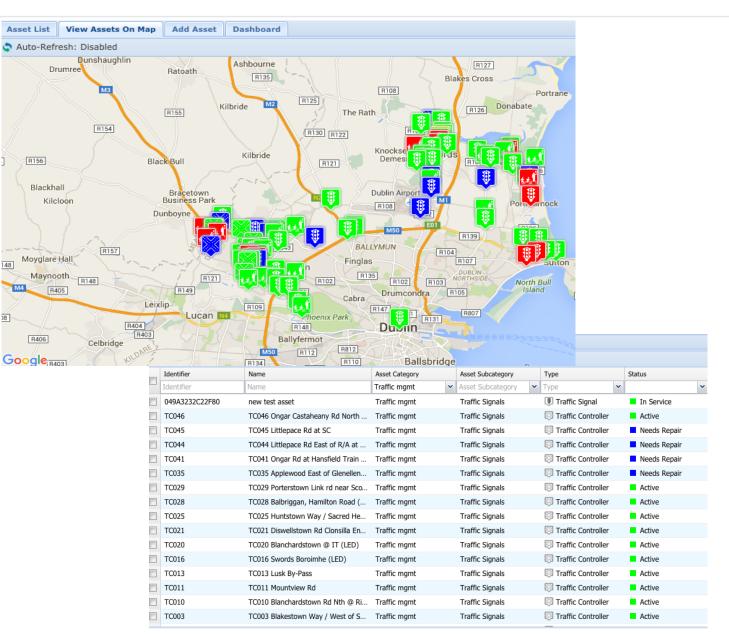
Asset Status updated by IoT sensors in the field.

Asset Jobs dispatched based on Rules entered in Rules Table.

Track in Real Time:

✓ Asset Availability

- ✓ First Time Fix Rate
- ✓ Total Service Revenue
- ✓ Mean Time To Repair
- ✓ Mean Time Between Fails





Move to a more Proactive and Preventative

Maintenance Model

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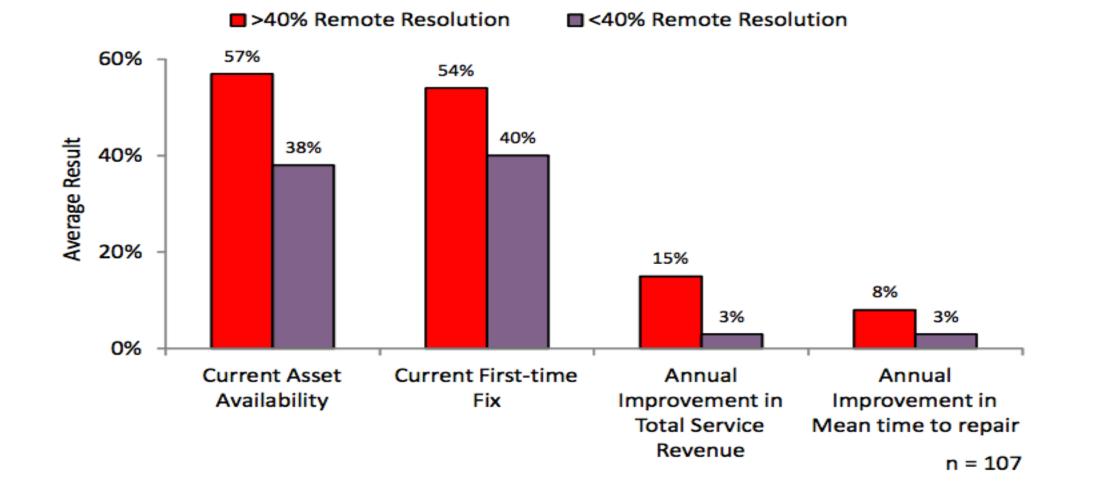


Uses of Information Enabled via Machine / Remote Connectivity	Leaders	Followers
To alert service organization of asset failure / downtime	68%	54%
To monitor condition of asset and its parts	61%	48%
To monitor asset performance and output quality	61%	44%
To inform field technicians of failure and recommend resolution scenarios prior to dispatch	50%	44%
To monitor asset usage information	43%	35%
To provide customer with self-service information	43%	38%
To develop new revenue-specific service business models (pay per use, etc.)	36%	25%
To improve design of product	36%	27%
To improve security of asset	32%	21%
To ensure timely / accurate invoicing or billing	32%	16%

Source: Aberdeen Group, May 2013

IoT / M2M Drives Efficiency





Source: Aberdeen Group, May 2013



Field Workforce Management

Job Scheduling and Dispatch Customizable Mobile Forms Mapping and Location Reports and Accountability

GeoPal Mobile Work Force Management Standard Features



- ✓ Mobile Data Capture
- ✓ Job Scheduling & Dispatch
- ✓ Location Tracking
- ✓ Time and Materials capture
- ✓ Health & Safety Compliance



Mobile Data Capture



- Replace paper job reports with mobile forms.
- Capture job start and end times.
- Capture all parts/materials used on the job.
- Capture photos, signatures, barcodes, GPS coordinates, comments, sketches, etc.
- All job data sent to the office for immediate invoicing.



Job location

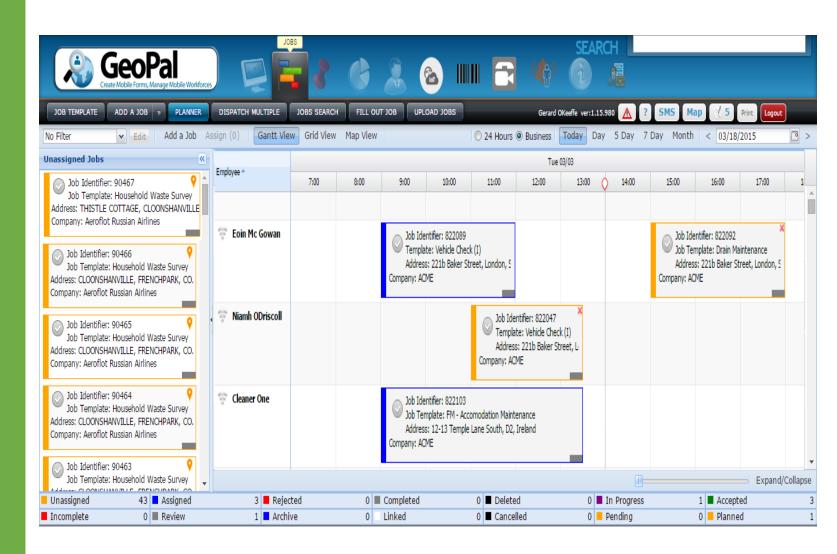


🕽 Review Job	942136	001- Fingal Fault Template	Please confirm your Vehicle Ignition is Switched off and the Keys are removed	Yes	2015-05-05 15:55:28	Paul Doyle
🕑 Edit Job	942136	001- Fingal Fault	If No to the above give reason			
🕑 Download Files		Template				
Download 2 Excel	Info	004 Flagel Fault	i Tala akaka Kanadada a Kanadada kumukan dalamp		2015-05-05 16:14:07	Paul Doyle
Download 2 Excel - Report Fields Only			Aquatour · Map Satellite	(from :		
Download 2 PDF	a 💾 a sa ta ta	1	Ellismore Cottage	mobile)		
Download 2 PDF - Report Fields Only	+ - +	1. 19	Ellismore House	replaced 1 red koiphone optic	2015-05-05 16:08:48	Paul Doyle
) Email as	Castleview	Streamsto		Yes	2015-05-05	Paul Doyle
Print .		Cottage Granite Lodge	107 Myra Manor	53.433077 -6.176915	2015-05-05 16:09:11	Paul Doyle
	Green Meado		Leafield The Orchard Belme	elle.k	2015-05-05 16:09:14	Paul Doyle
		Finger Post		mobile)		
	HALL	Realt Ban	Yes	2015-05-05 16:10:16	Paul Doyle	
	Google	Map data 82015 Google Ima	agery ©2015, DigitalGlobe Terms of Use Report a map error	No	2015-05-05 16:10:22	Paul Doyle
	942136	001- Fingal Fault Template	IF TM is required please fill in Form 1)TM design Survey Sheet in forms section			
	942136	001- Fingal Fault Template	Are the repairs completed ?	Yes	2015-05-05	Paul Doyle

Job Scheduling and Dispatch



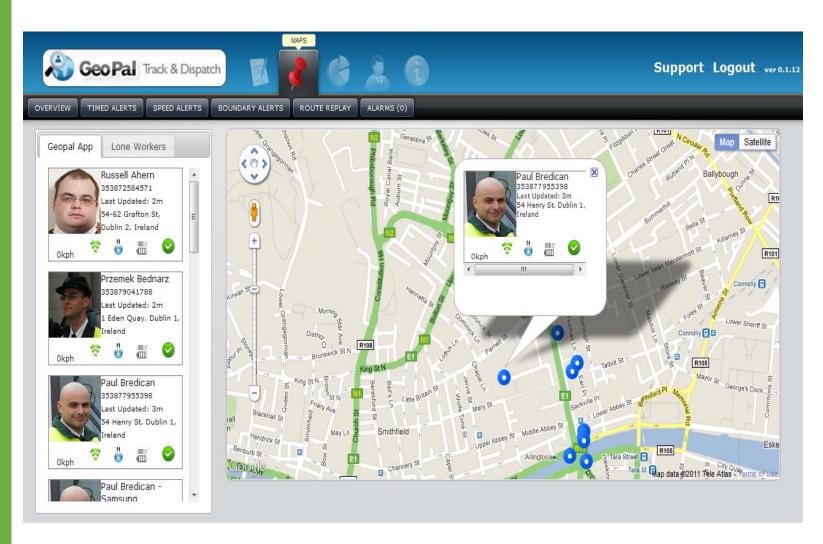
- Simple drag and drop assignment of jobs
- Different views available planner, list, map view
- Colours indicate different jobs statuses – accepted, in progress, completed, etc.
- Worker receives all job details and workflow steps to be completed.



Location Tracking



- View the real-time location of workers
- See the jobs they are working on and the status of each job
- Assigned jobs to the worker closest to the job location
- See if the worker is logged in to the mobile app.



Time and Materials Capture



- On the mobile app the Worker clicks "start job" and "end job" to record time spent on job.
- Can also "pause job" and return later.
- On the mobile app the worker selects the parts & materials used on the job.
- Customer can add signature to confirm agreement.

