



# IoT / M2M Enabled Field Service Management by GeoPal

Job Scheduling  
and Dispatch

Customizable  
Mobile Forms

Mapping and  
Location

Reports and  
Accountability

## Asset Monitoring and Surveillance

Job Scheduling  
and Dispatch

Customizable  
Mobile Forms

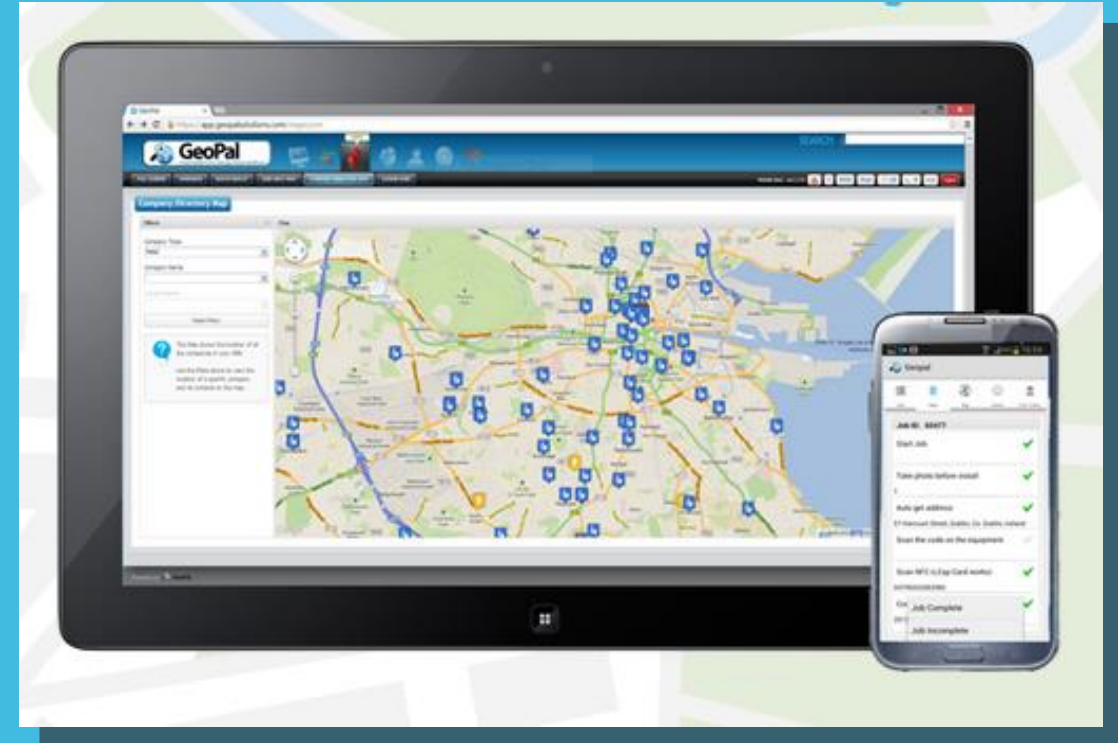
Mapping and  
Location

Reports and  
Accountability

# What is GeoPal



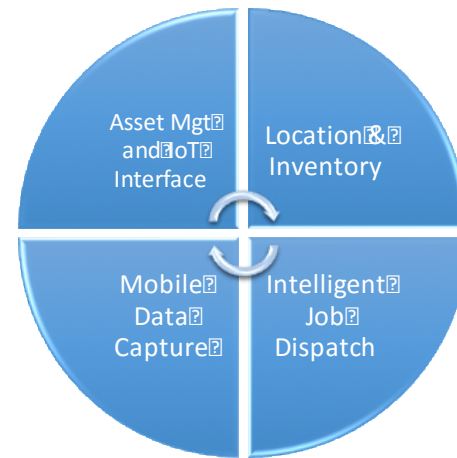
GeoPal is an IoT enabled Cloud Service and Mobile App that transforms Asset Management and Field Service Organisations from a *reactive*, break-fix service model to a *proactive*, preventative model.



## Inputs

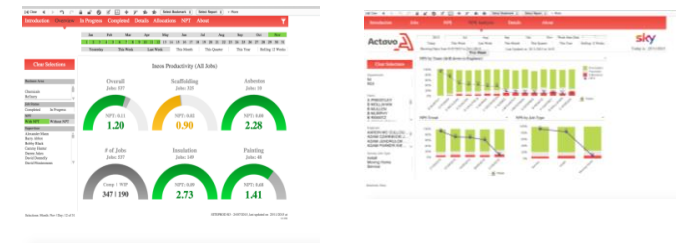
- ✓ IoT/M2M Alarms
- ✓ Field Worker:
  - Collected Field Data
  - Location / scheduling
  - Time and Attendance
- ✓ 3<sup>rd</sup> Party Systems





## Outputs

- ✓ Field Workers
  - 30% increase in jobs completed
  - 50% reduction in admin costs
- ✓ Assets
  - 50% Increase in asset availability
  - 100% Alarms acted on
  - 100% Proof of work done
  - 100% Work compliance
  - 100% Real time asset status
- ✓ Full Dashboards Insight/Optimize



**Data** → **Information** → **Analysis** → **Action**

# Value Proposition of Proactive IoT /M2M and MWM



## Productivity



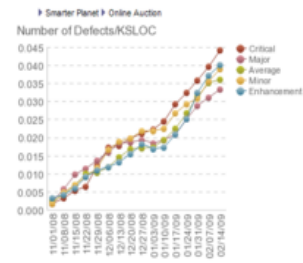
Operational savings of 30% through increased efficient deployment and decreasing false alarms.

## Efficiency



Reduce Admin costs by 50% by eliminating paperwork

## Asset Availability



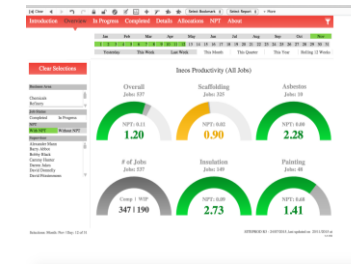
100% on-line asset status. Increase asset availability by 50% with proactive field service.

## Capture All Alarms



Improve reporting, and decision-making with 100% of alarms captured and access to all historical information.

## Intelligent Reporting



Comprehensive reporting with customizable reports delivers greater transparency on KPIs and SLAs

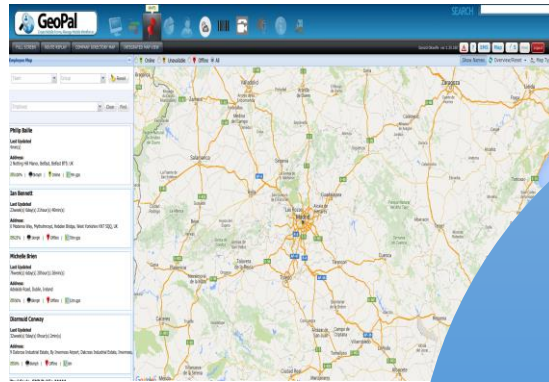
## Prove of Work Done



Reduced risk by speeding up response times and mitigate risks. 100% proof of all work done and compliance



# GeoPal Platform

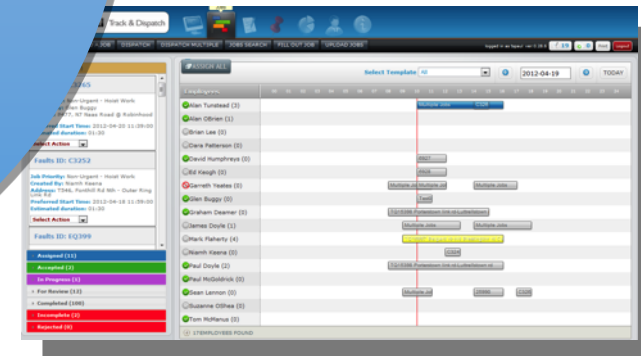


IoT Sensor  
Data  
Interface

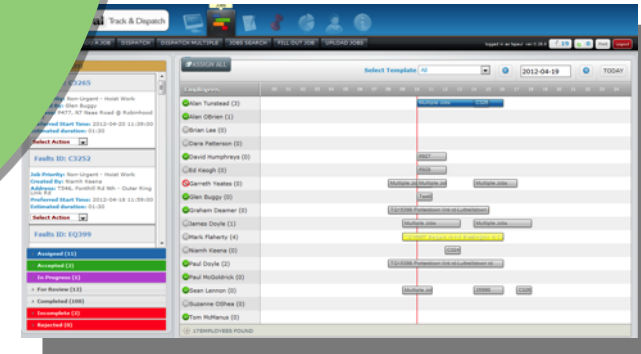
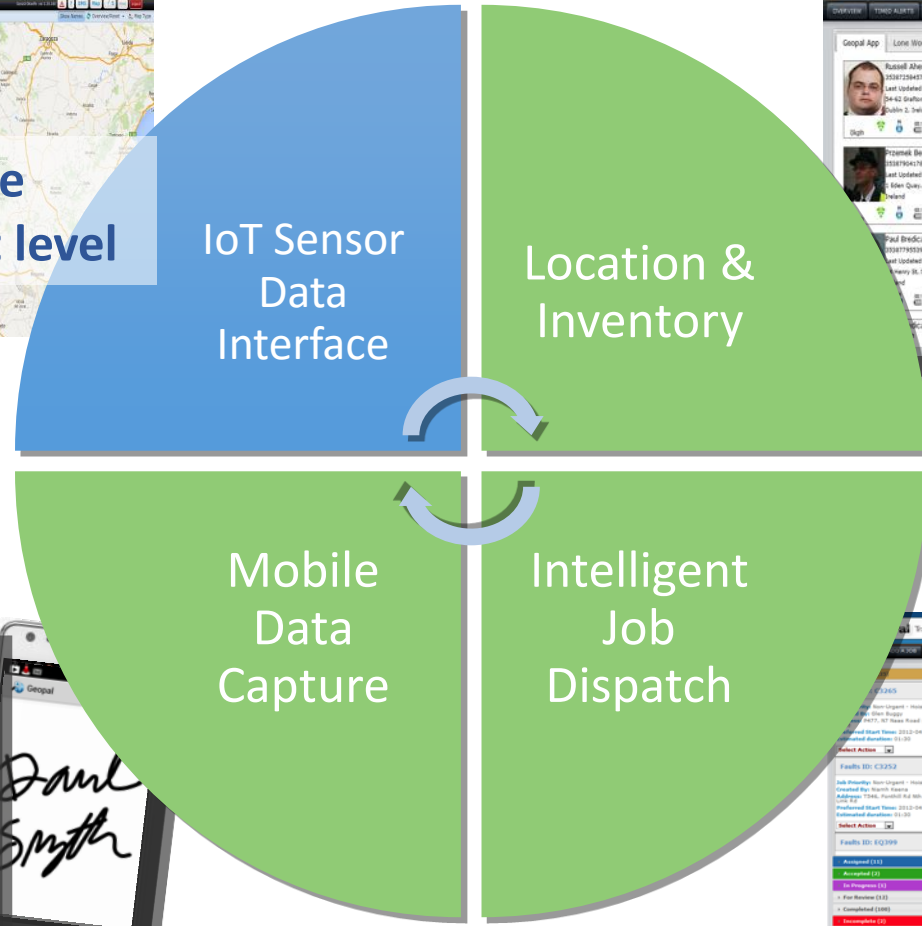
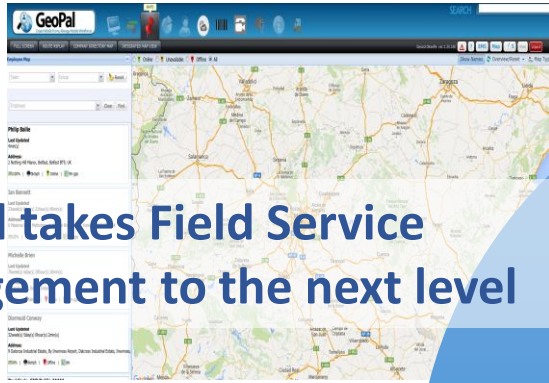
Location &  
Inventory

Mobile  
Data  
Capture

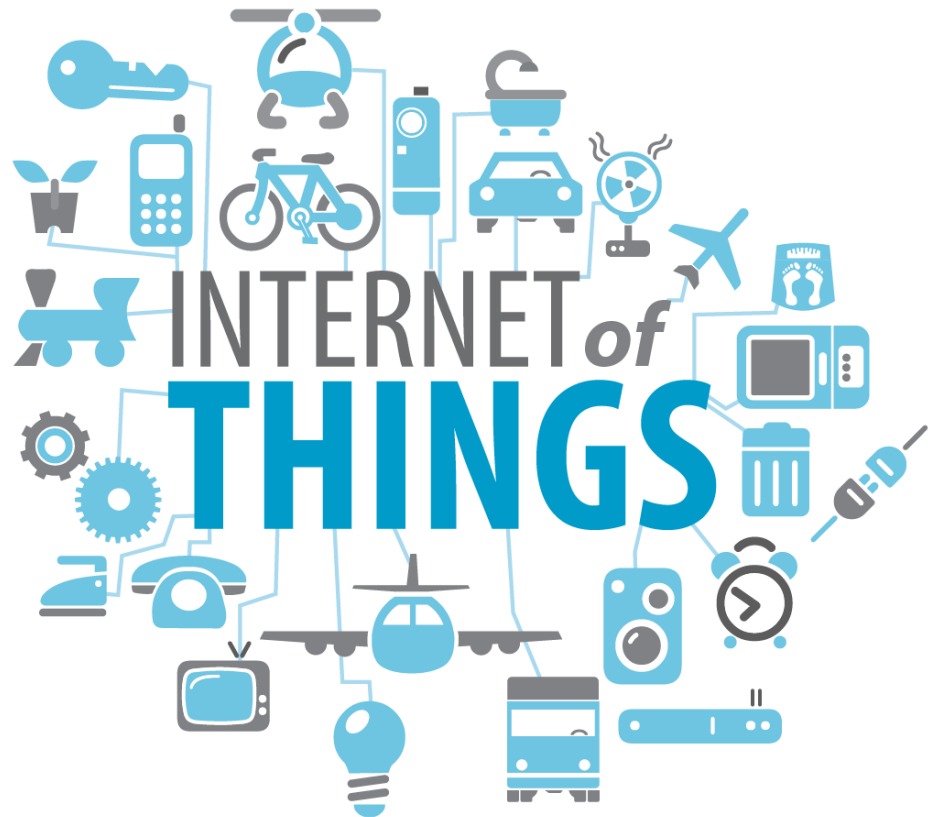
Intelligent  
Job  
Dispatch



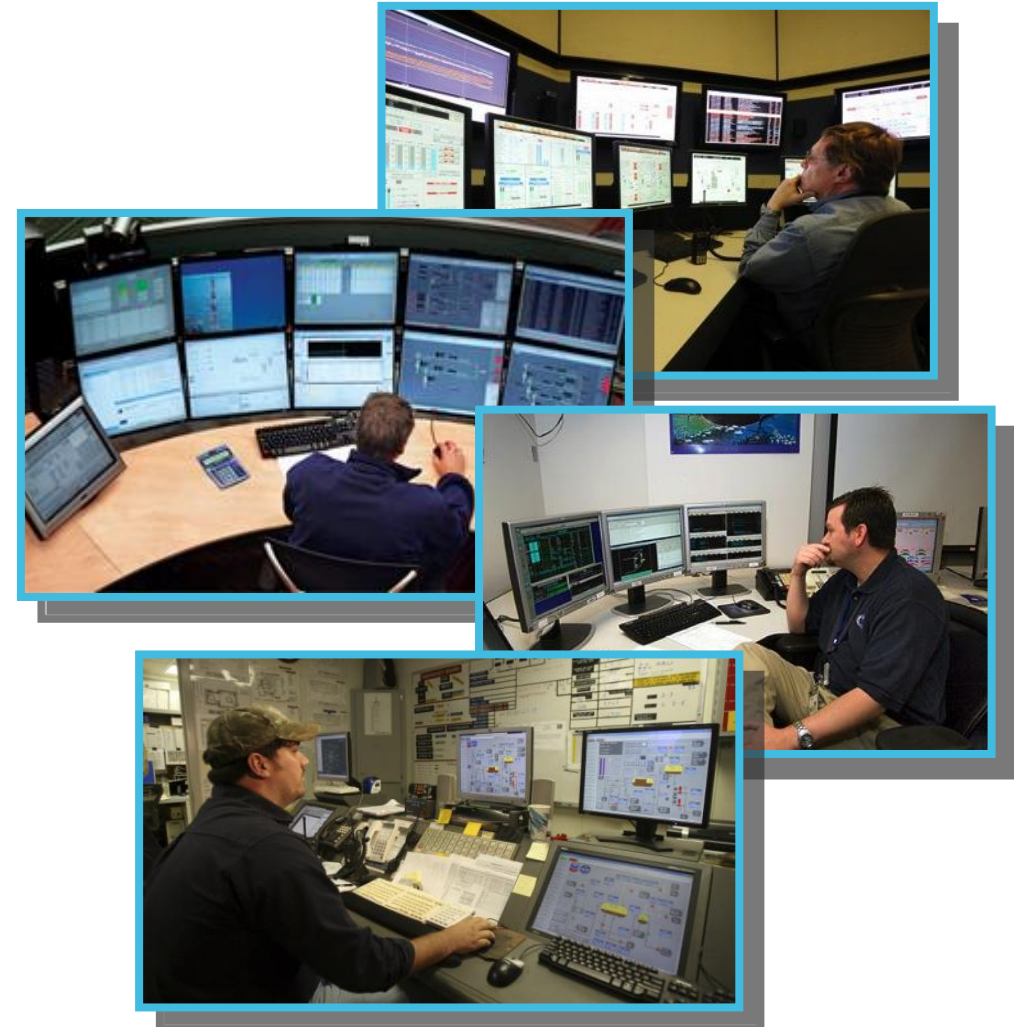
GeoPal takes Field Service Management to the next level



## Modern Sensor Networks



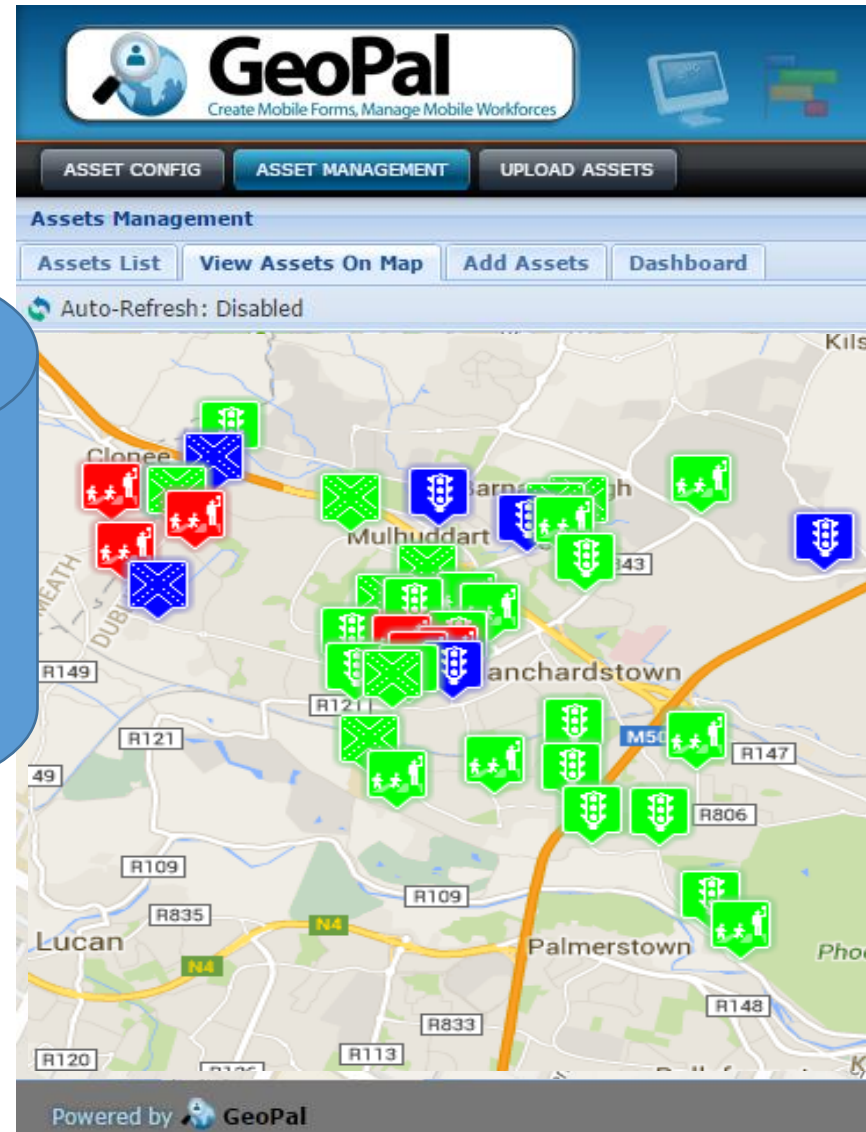
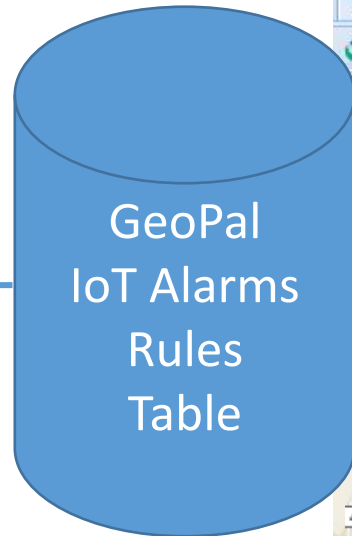
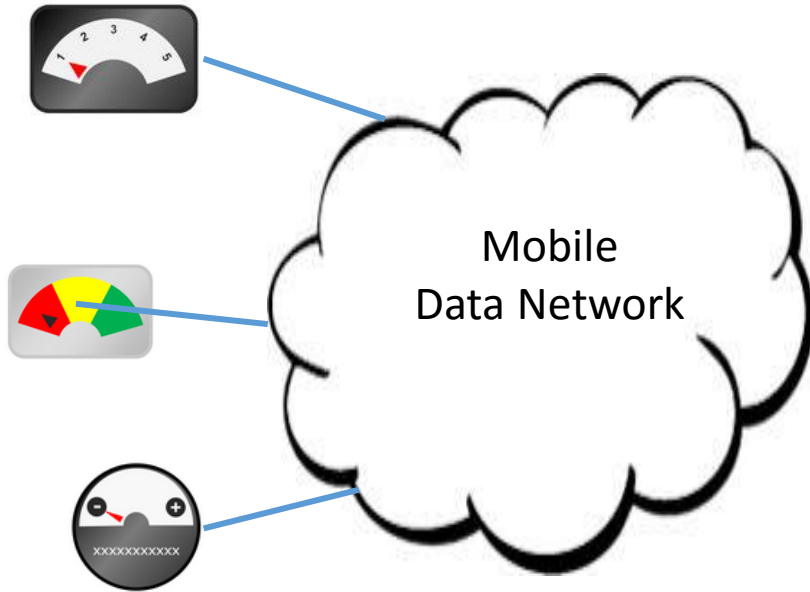
## Old Style Control Room







IoT /M2M Sensors

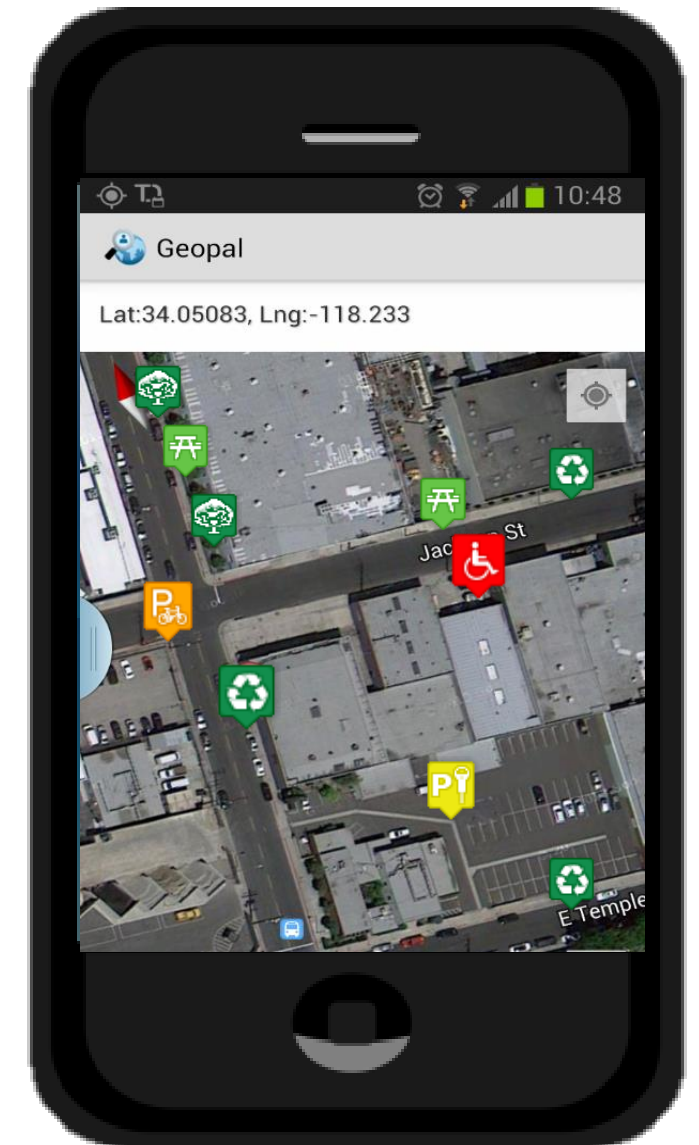


Visualisation of Asset Status on GeoPal.

Asset Status updated by IoT sensors in the field.

Asset Jobs dispatched based on Rules entered in Rules Table.

# IoT / M2M Assets View

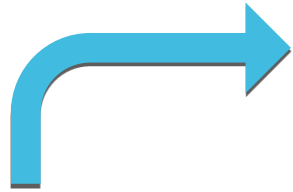


# GeoPal Connect Retail Intelligent Job Dispatch and Full Dash boards



Sensors on Equipment  
and Buildings

1



GeoPal Collect Alarms

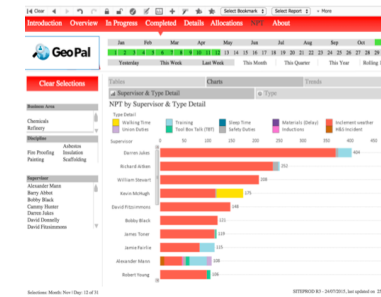
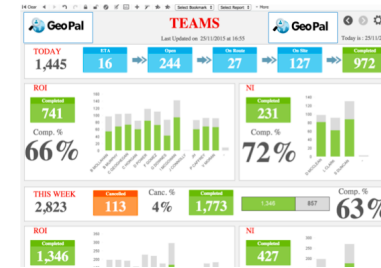
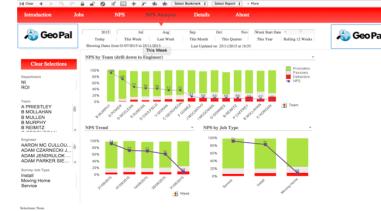
2



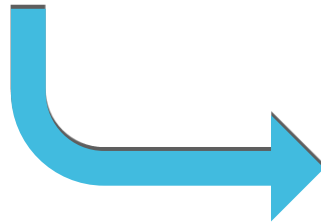
# GeoPal

5

Full Dash Boards



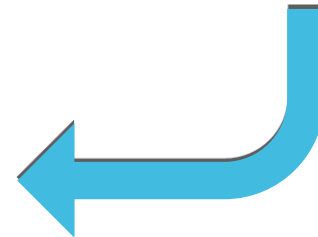
4



Job Completion Data Captured  
on Mobile app



3



Work Orders automatically  
assigned to field Staff



# Dash Board Vending Metrics to be Monitored



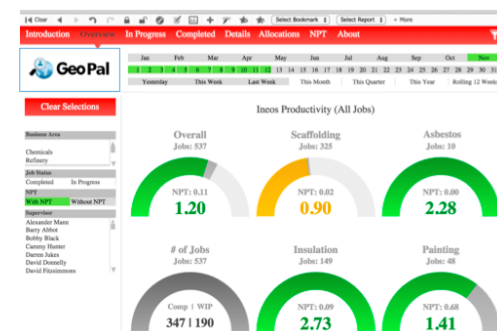
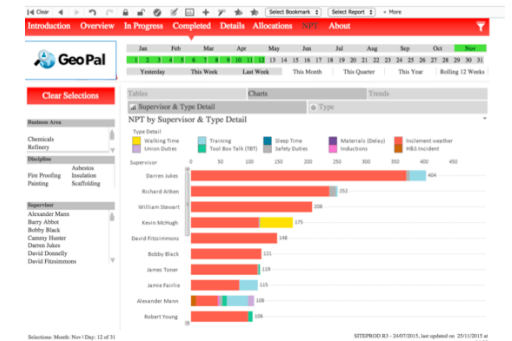
Customised Reports providing KPIs

✓ Electrical and Mechanical Alarms

- Security
- Temperature
- Control Ingress and Egresss
- Heating, Ventilation, Air-conditioning (HVAC)
- Fire alarm system
- Water leakage

✓ Financial

- Electrical energy usage
- Asset utilisation





## 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*





## Field Workforce Management

Job Scheduling  
and Dispatch

Customizable  
Mobile Forms

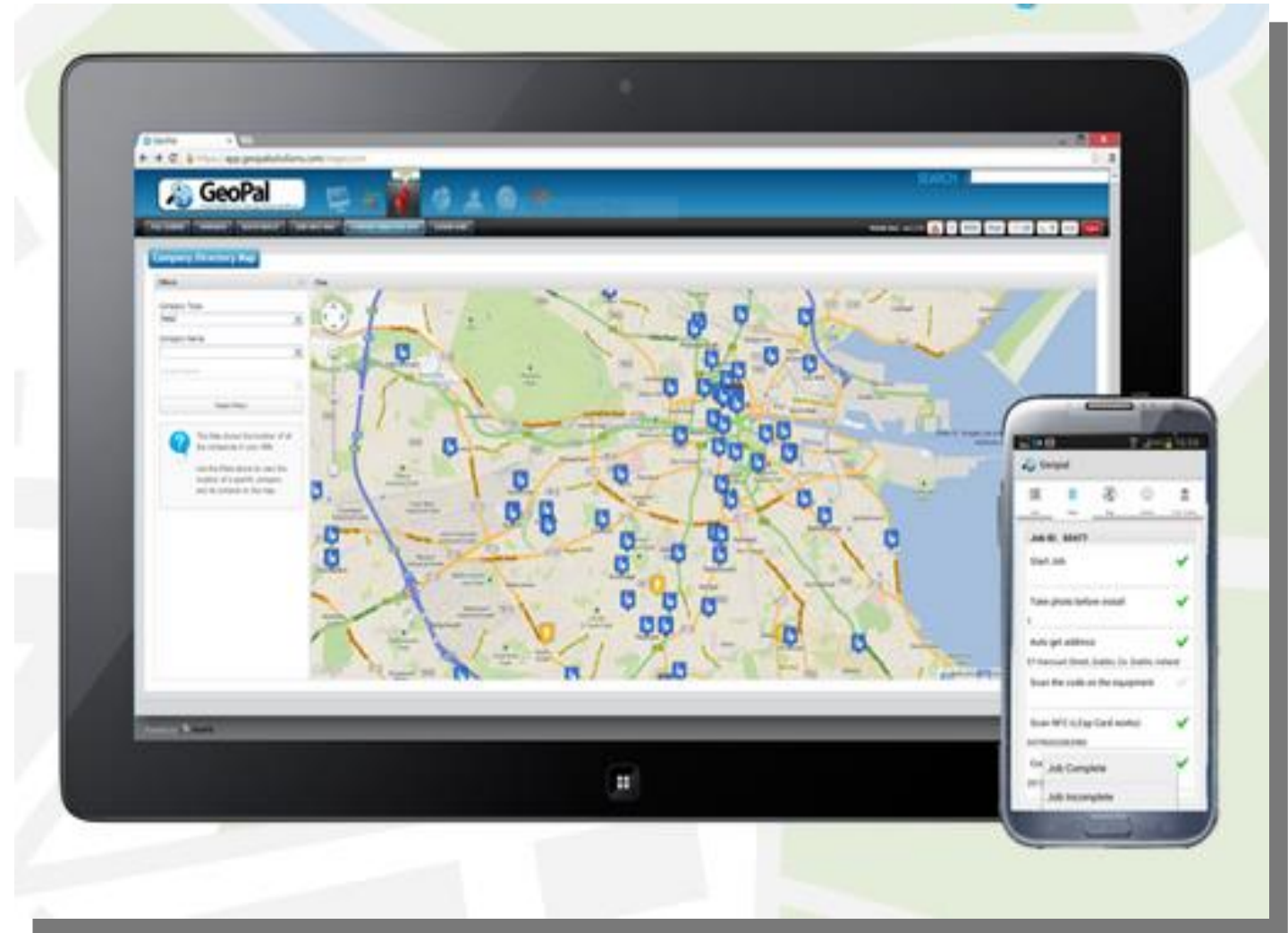
Mapping and  
Location

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
- ✓ Reports



# 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 Details – Data from job completed on mobile app



FINISHED AT: 2015-05-05 16:11:22

- [Review Job](#)
- [Edit Job](#)
- [Download Files](#)
- [Download 2 Excel](#)
- [Download 2 Excel - Report Fields Only](#)
- [Download 2 PDF](#)
- [Download 2 PDF - Report Fields Only](#)
- [Email as...](#)
- [Print](#)

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
942136	001- Fingal Fault Template	If No to the above give reason			
942136 ↓	001- Fingal Fault Template	Take photo if required, e.g. Knockdown/Vandalism	 (from: mobile)	2015-05-05 16:14:07	Paul Doyle
942136 ↓	001- Fingal Fault Template	List repair details and parts used	replaced 1 red koiphone optic	2015-05-05 16:08:48	Paul Doyle
942136 ↓	001- Fingal Fault Template	Fill details in Controller log book	Yes	2015-05-05 16:09:00	Paul Doyle
942136 ↓	001- Fingal Fault Template	Site GPS info	53.433077 -6.176915	2015-05-05 16:09:11	Paul Doyle
942136 ↓	001- Fingal Fault Template	Enter signature	 (from: mobile)	2015-05-05 16:09:14	Paul Doyle
942136 ↓	001- Fingal Fault Template	Confirm the site is Left Clean & Tidy	Yes	2015-05-05 16:10:16	Paul Doyle
942136 ↓	001- Fingal Fault Template	Is TM required to carryout any repairs e.g.Slot cutting or K/Down	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 16:10:27	Paul Doyle



# Job location

Review Job

Edit Job

Download Files

Download 2 Excel

Download 2 Excel - Report Fields Only

Download 2 PDF

Download 2 PDF - Report Fields Only



Email as...

Print

**Info** ✕



Map data ©2015 Google Imagery ©2015, DigitalGlobe | Terms of Use | Report a map error

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
942136	001- Fingal Fault Template	If No to the above give reason			
942136	001- Fingal Fault Template	Take photo if required on Knockdown/Needle	 (from: mobile)	2015-05-05 16:14:07	Paul Doyle
		replaced 1 red koiphone optic		2015-05-05 16:08:48	Paul Doyle
		Yes		2015-05-05 16:09:00	Paul Doyle
		53.433077 -6.176915		2015-05-05 16:09:11	Paul Doyle
		 (from: mobile)		2015-05-05 16:09:14	Paul Doyle
		Yes		2015-05-05 16:10:16	Paul Doyle
		attng or 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 16:10:27	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.

The screenshot displays the GeoPal software interface for job scheduling and dispatch. The top navigation bar includes the GeoPal logo, a search bar, and various icons for different features. Below the navigation bar, there are tabs for "JOB TEMPLATE", "ADD A JOB", "PLANNER", "DISPATCH MULTIPLE", "JOBS SEARCH", "FILL OUT JOB", and "UPLOAD JOBS". The main interface is divided into several sections:

- Unassigned Jobs:** A list of jobs on the left side, each with a job identifier, template, address, and company. The jobs are color-coded: orange for "Unassigned", blue for "Assigned", red for "Rejected", grey for "Completed", black for "Deleted", purple for "In Progress", green for "Accepted", red for "Incomplete", grey for "Review", blue for "Archive", white for "Linked", black for "Cancelled", orange for "Pending", and yellow for "Planned".
- Employee Schedule:** A Gantt chart view showing the schedule for employees. The employees listed are Eoin Mc Gowan, Niamh ODriscoll, and Cleaner One. The schedule is for Tuesday, 03/03, from 7:00 to 17:00. Jobs are assigned to specific time slots and color-coded to match the job status in the list.
- Summary Table:** A table at the bottom of the interface showing the count of jobs for each status. The table is as follows:

Status	Count
Unassigned	43
Assigned	3
Rejected	0
Completed	0
Deleted	0
In Progress	1
Accepted	3
Incomplete	0
Review	1
Archive	0
Linked	0
Cancelled	0
Pending	0
Planned	1



# 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.

The screenshot displays the GeoPal Track & Dispatch web interface. At the top, there is a navigation bar with the GeoPal logo and "Track & Dispatch" text. To the right, it says "Support - Logout ver 0.1.12". Below the navigation bar is a menu with buttons for "OVERVIEW", "TIMED ALERTS", "SPEED ALERTS", "BOUNDARY ALERTS", "ROUTE REPLAY", and "ALARMS (0)".

The main content area is split into two panels. On the left, a sidebar titled "Geopal App" and "Lone Workers" lists three workers:

- Russell Ahern**: 353872584571, Last Updated: 2m, 54-62 Grafton St, Dublin 2, Ireland. Status: 0kph, signal strength N, battery 100%, and a green checkmark.
- Przemek Bednarz**: 353879041788, Last Updated: 2m, 1 Eden Quay, Dublin 1, Ireland. Status: 0kph, signal strength N, battery 100%, and a green checkmark.
- Paul Bredican**: 353877955398, Last Updated: 3m, 54 Henry St, Dublin 1, Ireland. Status: 0kph, signal strength N, battery 100%, and a green checkmark.

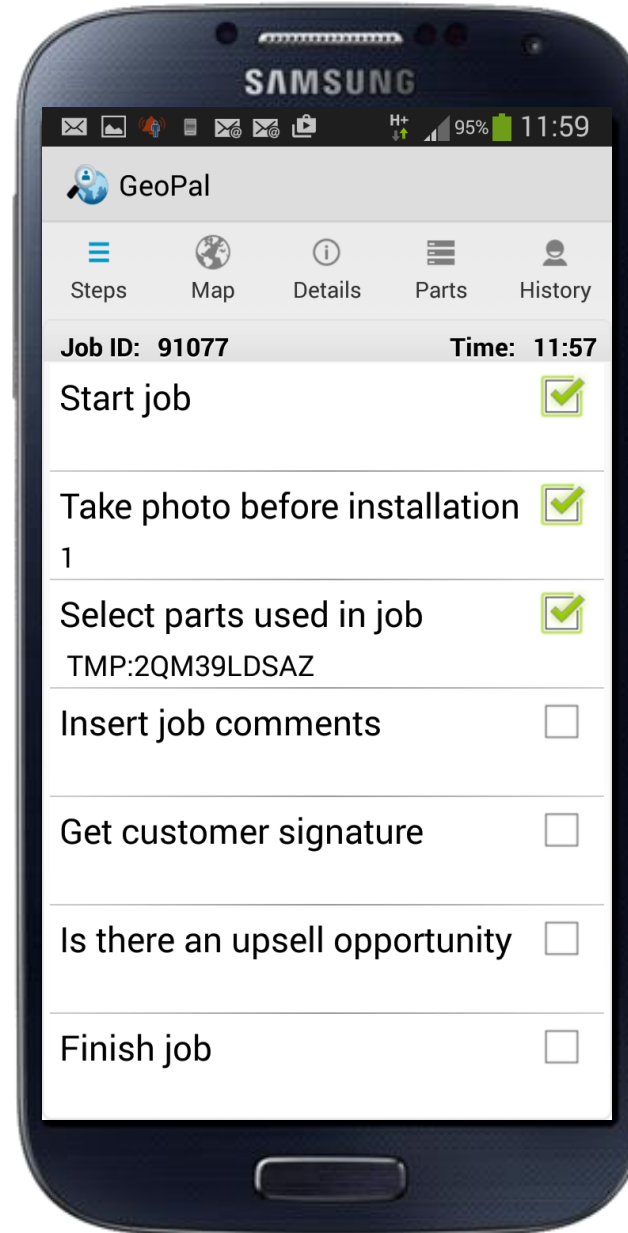
At the bottom of the sidebar is a partially visible entry for "Paul Bredican - Samsung".

The right panel shows a map of a city street grid. A white information popup is open over a blue location marker, showing a profile for **Paul Bredican** with the same details as in the sidebar. The popup also shows "0kph", signal strength N, battery 100%, and a green checkmark. The map includes street names like "Constitution Rd", "King St N", and "Smithfield".

# 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.



# Health & Safety Compliance



- Fill out Risk Assessments on the mobile app
- Complete vehicle inspection checks on the mobile app
- Video collaboration between the office and the field worker
- Lone Worker features : Panic alarm, non-movement detection.





# Integration with Third Party Software



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.





## Dashboards

Job Scheduling  
and Dispatch

Customizable  
Mobile Forms

Mapping and  
Location

Reports and  
Accountability



- SIM and SIM management
- Data package
- Sensor hardware and associated costs





# IoT / M2M Enabled Field Service Management by GeoPal

Job Scheduling  
and Dispatch

Customizable  
Mobile Forms

Mapping and  
Location

Reports and  
Accountability