



HEGARTY

BUILDING & CIVIL
ENGINEERING CONTRACTORS

Construction Vehicles Movement & Delivery Management Case Study

Who we are

PJ Hegarty & Sons are one of Ireland's most progressive building and engineering organisations, with over 90 years in business. PJ Hegarty & Sons have built up significant resources and expertise with over 400 people directly employed in Ireland.

Our activity is undertaking large, complex projects in commercial, retail, tourism, pharmaceutical, high-tech and institutional buildings, refurbishment and civil engineering works.

Our Challenge

Our projects are confronted with many challenges relating to construction plant and delivery vehicle movement. We must consider many influencing factors from a project:

- Location of the project.
- Size of the project.
- Type of project (what's involved; demolition/excavation/soil haulage/concrete/waste/fit out material etc.)
- Vehicle access routes to and from the site.
- Public roads and pedestrian interface.

The Risk Factors

- Injury or incidents involving road traffic collision.
- Injury to the public and site personnel from movement of site plant and delivery vehicles.
- Injury or incidents involving dislodgement of material in transit.
- Injury or incident from fall of persons or material when unloading deliveries.
- Management of deliveries to ensure no negative impacts to site and the neighbouring community.

Safety initiatives implemented by PJH

1 Planning - Traffic Management Plan

Logistics and traffic management in construction, particularly for projects located in urban centres require detailed planning and execution to ensure the safety of our site staff, public road users and pedestrians.

Every construction project requires a Traffic Management Plan. Here at PJ Hegarty & Sons, we are committed to ensuring a detailed logistics and Traffic Management Plan is developed for each of our construction projects.

It is vital that our project Traffic Management Plans are updated and communicated regularly during the course of the project.



2 Delivery Management

Management of site deliveries is key to ensuring safe and efficient movement of vehicles to and from the site. PJH have invested in an online delivery booking system, which has had a positive impact on both safety and productivity since being introduced in 2018.

The software package is simple to use and easily accessible from a smart phone.

The app allows contractor personnel to book delivery slots, gives our contractor delivery personnel site location, safe vehicle approach to the site, site safety information for delivery personnel, site gate entrances and lay down information.

It allows our site gate personnel to know what deliveries are scheduled, what gate they are to arrive to and what requirements are needed for unloading the vehicle e.g. crane, telehandler etc.

It provides contact information for each delivery and eliminates the build-up of traffic outside the site and on public roads.

We have also removed the time spent by our supervisory staff co-ordinating deliveries. The app has eliminated any delivery confusion and the human error of double bookings.



3 Training

Our Traffic Management Supervisors are CSCS trained in signing, lighting and guarding.

All site Spotters involved in directing site vehicles complete our project specific Spotter awareness training. All site Spotters sit refresher training every five to six weeks to eliminate any complacency.



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4 Effective Communication

Effective communication is the key to success.

Communication in construction is one of our main challenges. With an ever-changing environment and several avenues of communication to distribute to, ensuring the same message is delivered to all can be quite a task. Over the years, we have introduced some key gatherings to support effective communication around co-ordinating deliveries and site logistics. We also communicate to our neighbouring community using regular newsletters, emails and group text alerts.

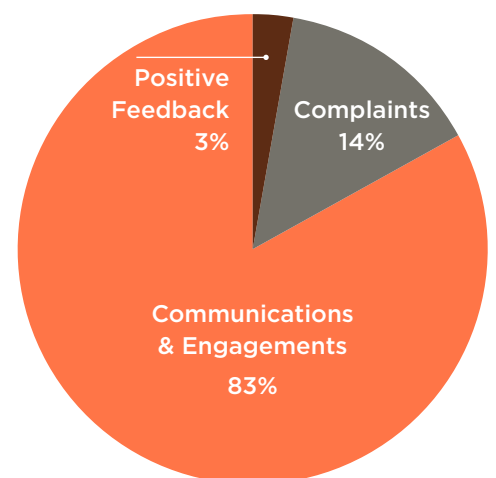


| Communication Platform | Audience | Occurrence |
|--|--|-------------|
| Safety Focus Meeting | Project Management Team | Weekly |
| White Boards | All site supervision & EHS | Daily |
| Task Specific Workshops | All involved in the task - client, design, project management, contractor supervision, all operatives involved in the task | As required |
| Project Newsletters | Issued to neighbouring stakeholders | Quarterly |
| Project Delivery & Logistics Software System | All delivery services, project supervision and gate personnel | Daily |

Public/Neighbouring Interactions

The pie chart shows the level of communications on a PJ Hegarty & Sons project dating over a 2 year period from 2017 to 2019. Communications include one to one interactions, emails and group texts to our stakeholders and neighbours.

PJ Hegarty & Sons also have included communications and interactions with public bodies such as the County Council and Garda representatives. This initiative has resulted in a low level of complaints received by the project.



Safety initiatives 2016 - 2019

2016 - 2017

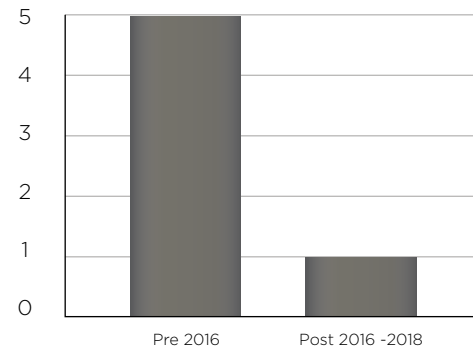
- Mandatory HGV & LGV pre-start walk around inspections and introduction of a company specific check sheet.
- Interactive toolbox talks for drivers on carrying out their pre-start inspections.
- Introduction of a driver's responsibility form, which lays out the company policy on operating a company commercial vehicle.
- Introduction of a driver transport induction and assessment, explaining the company policies on driving for PJH.
- Processing faults once reported and resolution in a timely & traceable manner.
- Tracking weekly pre-start inspections by means of a compliance log, building a profile of drivers and vehicles.
- Implementing a companywide service and maintenance schedule, using only genuine parts and as per manufacturers' recommendations.
- Renewal of LGV fleet, introduction of a policy for constant upgrading of company fleet.
- Revised SOP for our Plant delivery Truck and Hi-ab. Training staff on the same.



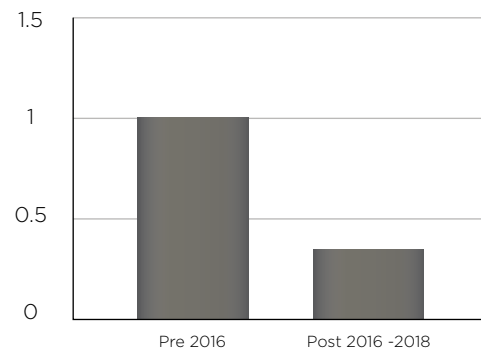
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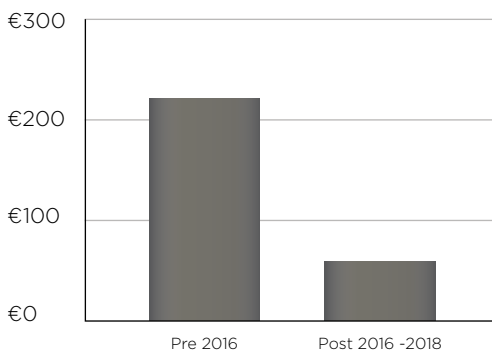
Average breakdowns per annum



Average claims per annum



Average damage/Repair cost per vehicle per annum



- 10% increase on residual value of vehicles post 2016.
- 10% reduction in lease cost on hired vehicles.
- No recorded vehicle incidents since 2016.

2018 - 2019

- Introduction of delivery software to manage construction delivery traffic movement to site.
- Company Participation with Irish Road Safety Week**
 - Attending Driving for work seminars.
 - Staff tyre and light check service.
 - Distribution of kids' high visibility vests.
- Company Safety Poster campaign**
 - Plant and Pedestrian Safety
- RSA and Garda Síochána visit to projects to discuss road safety with all our site operatives.
- External health organisation invited to give a Safety Talk about sleep. The talk is tailored to construction workers, as majority of our site operatives are travelling long distances.
- Promoting carpooling and public transport use among staff on our city centre projects.
- Vehicle tracking for delivery vehicles - ensuring the safe turning of vehicles into and away from sites.



For any queries please contact: PJH Dublin EHS Manager on pjhdublin@pjhegarty.ie

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ENVIRONMENT, HEALTH
& SAFETY