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## London Luton Airport Dart

### *Careful Planning and Implementation*

**End user:** London Luton Airport LTD.

**Client 1:** VolkerFitzpatrick-Kier (VFK)

**Client 2:** Doppelmayr Cable Car (DCC)

**Total Project Value:** £225m

### Scope:

**Gel Engineering** were selected by both VFK and Doppelmayr to complete works on this state -of-the-art DART system that will revolutionise transport to and from London Luton Airport. **GEL** were chosen by VFK to design and install the Walkway Access Steel and by DCC to install the guideways and drive machinery for the cable car system.

### GEL Expertise:

The project demonstrated **GEL's** expertise in:

- Design, manufacture, and installation of an innovative new modular walkway.
- Full construction management and installation of entire APM including drive room and train installation.
- Full electrical and ICA instrumentation control and automation.

### Project Status:

**GEL** had a team of highly experienced fitters and as **GEL** and its clients are committed to education, two apprentices were added to the team. As **Gel Engineering** won both tenders, we were able to offer savings to both clients therefore, the project was more cost effective. **GEL** worked meticulously with both clients to forge this innovative new transport system over 5 different types of sites. Working through tunnel, viaduct, trough and running slab, **GEL** created two guideways 2km long with over 600 runway beams to make up the 4km of track. The team were flexible in their delivery altering to clients' needs as they developed, such as adding waterproofing to the viaduct and bridge. **GEL** installed 119,350 bolts on this project, equivalent to the population of Gloucester! This new innovative DART will allow for fast and seamless transport to and from Luton airport and St Pancras station in just 30mins.



Photo 1: Walkway and guideline entering the terminal building.



Photo 2: Drive Machinery



Photo 3: Maintenance Facility