

**Project:**

New Tube For London (NTfL) – Platform Enabling Works.

**Client:**

London Underground

**Value:**

Estimated £3.8 billion for Piccadilly line upgrade project (until 2026).

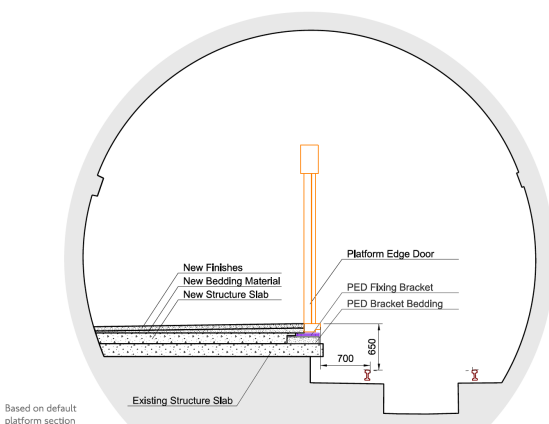
**Background:**

London Underground plans to provide new rolling stock and associated signalling, track and station infrastructure within the New Tube for London (NTfL) programme, covering Piccadilly, Central, Waterloo & City and Bakerloo lines.

The NTfL programme is to increase the capacity of these lines to up to 36 trains per hour at peak hours by late 2020s or early 2030s.

The programme is currently at System Concept Design stage with secured funding for the period of two years, until March 2016

The adoption of increased automation of train service is being explored. If adopted, this will require major infrastructure changes including the installation of platform edge doors (PEDs) and level access to trains at every platform.



Indicative design with platform edge door installed

**initiate's role:**


**initiate Consulting** has been appointed to lead the development of the NTfL Piccadilly line Programme focusing on the platform-

train interface (PTI). Within the NTfL Team, Initiate is specifically developing infrastructure solutions for the 97 No platforms and are currently working on:

- Platform enabling works, including solutions of platform raising or lowering; cost effective modifications to reinforced concrete platforms; relocation of the train stopping locations within the existing platform layout; investigating opportunities for raising or lowering track; provide stabilising solutions for embankment raising; review effect of raising or lowering of the track on track drainage; selection of the most appropriate option (raising or lowering) to provide the lowest cost for the enabling works.
- As part of the enabling works, intrusive surveys have been undertaken on the Piccadilly line in order to provide information for PTI concept design in order to select 6No pilot sites. The 6No sites will then be implemented in the year 2017/18 to trial the introduction of Platform Edge Doors on the Piccadilly line.
- Asset surveys are undertaken to provide estimated costs for moving or modifying the asset to accept the introduction of PEDs.
- Drafting reports to the NTfL Programme board, including the overall PTI strategy (with dwell time impact), gap filler testing results and platform edge door mock-up proposals.
- Prepare scopes for surveys and managing survey investigation works.
- Input to programme and cost control on PTI works.

**Outcome:**

**initiate Consulting's** team of consultants is continuing to support the NTfL Programme during feasibility and tendering of the train supply contract. Furthermore, the team is continuing to work on defining key components of the Platform Train Interface



(PTI) system and the overall system performance and cost.