

# HEATHROW INTERNATIONAL AIRPORT

## Heathrow Expansion Project

### SCOPE

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Heathrow is adding a third runway and support infrastructure

London, UK

### COST

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Budget: £14,000M

### TIME LINE

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2015 - 2028

### REFERENCE

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### TOOLS

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Autodesk Revit  
Autodesk Infracore  
BIM 360 Suite

### PARTNERS

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Excitech  
Business Collaborators



### PROJECT BACKGROUND

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Heathrow's runways are currently operating at 98% capacity. The Heathrow Expansion Program will add another runway to the airport growing the number of annual passengers that Heathrow can accommodate from 78M passengers in 2018 to a 130M passenger capacity.

The planning and design process for the new runway began in 2015, but Heathrow realized that an expansion of this scale was the ideal opportunity to also rethink their project delivery methodologies. In 2018, Heathrow embarked on defining a new CDE (Common Data Environment) that would guide the planning, design, construction, and asset maintenance programs into the future. Heathrow released a tender for the CDE implementation and Autodesk, with our partners Excitech and Business Collaborators, was granted the award beating out other providers like Bentley's ProjectWise.

Heathrow is focused on data ownership and providing digital interoperability for geometry and data aiming to add efficiency to the project lifecycle. Files created by the design teams will be required to use Heathrow's BIM 360 Docs as a data repository hub. By owning the hub, large owners like Heathrow can be better equipped to control project documents, files, and models. This also gives owners a better vehicle for monitoring model and data standards. Depending on the data type, information is automatically routed to the appropriate project teams and synchronized with Heathrow's localized data repositories.

Heathrow's initial BIM 360 implementation will consist of BIM 360 Docs, Glue, Design, and Build for the runway expansion project. Named Account teams Atkins, Mott MacDonald, Arup, AECOM, Jacobs, Grimshaw, Mace and Wood Group will become engaged with the new CDE in the first 30 days of implementation. Additionally, Heathrow is migrating from their existing GIS platform to ESRI to take advantage of the Autodesk Infracore / ESRI partnership.