

Summary

Mott MacDonald and the Institution of Civil Engineers have developed CapIT, an online Construction Capital Cost and Carbon Estimating Tool. CapIT currently provides the only source of UK construction cost and carbon data for building and civil engineering projects.

Developers: Mott MacDonald

Applicable sectors							Themes		
All Infrastructure	Buildings	Roads	Water	Energy	Transport	Construction	Materials	Ecology	Wastewater
							Potable Water	Carbon/GHG	Other

Countries	UK	Access	Commercially available from Mott MacDonald.
Compatibility with other tools	INDUS; Sustainable Water Engineering Opportunity Tool	Guidance for Users	CapIT support comes in the form of Mott MacDonald consulting services. The tool is accessed via a secure log-in to the website and is available to customers on a subscription basis.
Inputs & Outputs	CapIT prompts the user to select a variety of construction data including materials, modes of transport, construction methods and quantities. The tool outputs the total embodied carbon and capital cost of construction. Priced and unpriced reports showing labour, plant and material splits can also be produced as well as total (summary) reports.	Methodology	CapIT enables the following: <ul style="list-style-type: none"> - Estimation of the initial capital costs and embodied carbon in a single calculation of the capital works of civil engineering, highways and/or building projects; - Specification optimisation; - Enables the user to view and change the background data for auditability and flexibility; - Models the impact of transporting resources.
Database library	CapIT contains an in-built database derived from the UK Building Blackbook with cost and embodied carbon of construction materials and elements. Civil engineering and highways libraries are also available in CapIT.	Data intensity & flexibility	Data flexibility is high in that the user can use pre-assigned values or can choose to insert their own carbon and cost data. Data intensity is relatively low due to the tool's accompanying database and consultancy services.