

Deutsches Museum in Munich Undergoes First Ever Comprehensive Refurbishment

This year's International Museum Day will be held on 13 May 2018 under the motto *Hyperconnected museums: New approaches, new publics*. Deutsches Museum (Masterpieces of Science and Technology) in the German city of Munich is also pursuing a new approach. True to the guiding principle: *A journey to new worlds*, the Museum's *Future Initiative*, which was established specifically with modernisation in mind, is pursuing the aim of bringing both its exhibitions and its exhibition buildings up to date. The Initiative's sponsors include private individuals, companies, the public sector and the museum itself. Drees & Sommer is providing project management and Lean Construction Management (LCM) support for the refurbishment project.

Over 50 Exhibitions to be Redesigned

'This is the first time in its history that the Deutsches Museum will have undergone comprehensive refurbishment. What we are doing here is creating one of the most modern science and technology museums in the world,' says Professor Wolfgang M. Heckl, the Museum's Director General. It is estimated that the project will cost EUR 445 million, with particular emphasis on redesigning over 50 exhibitions, modern technical standards and fire safety. The federal government and the State of Bavaria will each contribute EUR 180 million of this total, with a further EUR 40 million coming from the Museum's own budgetary resources. The Museum has raised a further EUR 45 million in charitable donations. The modernization has been running since 2015. The project will be implemented in two sections. The first part of the Museum will reopen in 2020 with the inauguration of new exhibitions dealing with topics such as atomic physics, bridge construction and hydraulic engineering, chemistry, agriculture and food, music, space travel and robotics. It will then be the turn of the second part of the exhibition to undergo refurbishment. The plan is for the modernization work to be completed right on schedule for the building's 100th anniversary in 2025. The project will be supported by the Munich-based architecture firm Schmidt-Schicketanz und Partner GmbH.

Refurbishing Museum While it Remains Open Calls for a High Level of Coordination

‘One of the challenges involved in the Deutsches Museum project is refurbishing the listed building while it remains open to the public. This is why the work will be undertaken into two implementation phases. So far as project management is concerned, we will seek to fine-tune the work schedule for everyone involved in the project and ensure precise coordination – in the final analysis, over 25,000 exhibits have to be moved from one location to another in stages, with construction work geared precisely around this,’ explains Felix Voisard, Senior Project Partner at Drees & Sommer SE. Lean Construction Management, a methodology first employed within the automotive industry, will be used to ensure the project’s timing, cost and quality objectives are met. Construction boards with plug-in cards will identify potential risks at an early stage and will make it easier to ensure close cooperation between all the parties involved.

Building Taken Back to Its Shell State

Museum Island in the middle of the River Isar has seen a great deal of activity since the refurbishment work began in October 2015. This included reinforcing the walls on the banks of the river to provide flood protection, removing everything from the exhibition areas, relocating large exhibits, and assembling technical building equipment. The initial phase, which is due to continue until May 2020, included taking the first part of the building back to its shell. This was necessary in order to meet new fire-safety requirements such as underground escape tunnels, new staircases, new building networks, ventilation systems, an integrated lighting system and modern elevators. 25,000 square meters, corresponding to over half the entire exhibition space, nonetheless continue to be accessible during the refurbishment work.



Caption: For modernization, the JU 52 is being lifted out of the exhibition hall by a crane.

© Deutsches Museum

* * *

Drees & Sommer: Your Innovative Partner for Consulting, Planning, Construction and Operation

For over 45 years, Drees & Sommer has been supporting private and public sector principals and investors in all aspects of real estate and infrastructure. The Group is managed by its partners and has a workforce of around 2,400 employees at 43 offices worldwide. Its headquarters are in Stuttgart, Germany.

Economy, quality and ecology are the basic values of Dress & Sommer's services. The Group calls this holistic and sustainable approach 'the blue way'.

Drees & Sommer and EPEA Internationale Umweltforschung (Environmental Research) in Hamburg, Germany, are jointly committed to the Cradle to Cradle® principle in the building industry, bringing principals, investors, architects and manufacturers together to promote the approach.

Nadja Lemke
Head of Media Relations and International Communications
phone +49 (0)711 1317 177 • mobile +49 (0)172 7699566
nadja.lemke@dreso.com

Barbara Wiesneth
Deputy Head of Media Relations
phone +49 (0)711 1317 2411 • mobile +49 (0)172 7995752
barbara.wiesneth@dreso.com