



## Design of Ponte dei Congressi in Rome, Italy

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### Abstract

The Ponte dei Congressi is a new bridge designed for the city of Rome over the River Tiber. This design is developed by the professional association of engineers and architects who won the international design competition held for this bridge in 2001. 15 years later this project is becoming a reality, with construction due to start in 2016. The design has been adapted and renewed according to the new conditions of the road and traffic design planned in the area. The new design is a steel bowstring arch bridge with 175 m main span, which holds a 24,5 m wide deck, and two side footbridges that are suspended from the deck at a different level, in order to link the footpaths and bicycle lanes at both river banks. It forms part of a large road connection operation improving South West access to the city of Rome from Fiumicino Airport.

**Keywords:** Arch Bridge, Rome, River Tiber, Steel arch, bowstring.

### 1 Description of the Bridge

The design for the new Ponte dei Congressi over River Tiber in South West Rome, is an arch bridge which crosses completely the river bed without intermediate supports.

This design is developed by the team of engineers and architects that won the international design

competition held in 2001. 15 years later the project will finally become a reality.

This bridge is the characteristic element of the complete operation, and thus it has a symbolic and iconic value. This reason leads to choose the arch form, strongly related to Roman architecture, as the best option for the new gate to the city, when arriving from Fiumicino Airport.