Rabat-Salé Urban Infrastructure Project
Rabat and Salé, Morocco

Architect: Marc Mimram Architectes
Client: Agence pour l’Aménagement de la Vallée du Bouregreg

Project Description

Linking Rabat and Salé to form an urban hub, the project was born out of a new vision of large-scale regeneration, one in which improved transportation and mobility were to be priority components of the larger urban plan, generating the specific infrastructure projects that would have the most significant and immediate impact on the populations of the two cities. With its provision for vehicular, tram and pedestrian links between the two cities, the design still respects the overwhelming horizontality of the built and natural environments, allowing Rabat’s 12th-century Hassan Tower to retain its vertical dominance of the skyline. The bridge is divided into three separate carriageways on the same level, each supported by structural arches; one for the tramway and the other two for vehicular traffic. Separate decks are maintained over the regular, shorter spans of the Salé viaduct but united as the asymmetrical structure curves into the nautical base bridge on the Rabat side. The concrete supports, in subtly varying arced forms, are deliberately delicate and lace-like in appearance. Besides providing transport connections, the structure also offers an urban roof over the alluvial plain of the Bouregreg River, creating a protected public space for markets and leisure activities. The project is a successful outcome of the combination of exemplary bridge design, infrastructure improvement and urban planning. The Hassan II Bridge has become a new iconic symbol of Rabat-Salé, reinforcing a modern, progressive, twin-city identity and laying a sound basis for future infrastructure development.
Jury Citation

“The promise generated by the new Hassan II Bridge anticipates a long-term vision of the cities of Rabat and Salé. Its planning provides opportunities for future development and successfully combines a bridge design with urban planning, landscape and infrastructure improvements. The dynamic complexity of time-based planning is coordinated in multiple layers, providing immediate improvements as well as incremental developments and future opportunities. The ambition of the designer challenges the ordinary boundary of transportation infrastructure and engineering by extending the Bridge beyond the river banks and creating a space for future public activity. The project is a sophisticated and cohesive model for future infrastructure projects, especially in places of rapid urbanisation.

“The Bridge profile is low, acting as an impressive horizontal extension of an existing flat plateau, presenting respectful views of the Hassan Tower. Built with great care and high quality of detailing and construction precision, the Bridge has a thin profile and elegant, fluid geometry. It is a pivotal icon, reinforcing the identity of the place, and symbolises a new progressive future for the twin cities.”

Project Data

Client
Agence pour l’Aménagement de la Vallée du Bouregreg, Rabat, Morocco: Lemghari Essakl, director general; Said Zarrou, former director of infrastructures; Nada El Kasmi, director of infrastructures; Hassan Mahfoudi, chief engineer of bridge project; Tarik El Idrissi, chief engineer of viaduct project; Mehdi Ouguerd, chief engineer of roadway projects

Architect
Marc Mimram Architectes, Paris, France: Marc Mimram, project manager; Nathalie Kreib, Aldo Turchetti, Sergio Pauletto, Nicolas Videgrain, Fabien Mauduit, project team

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Engineer
Marc Mimram Ingénierie, Paris, France: Marc Mimram, project manager; Jacques Durst, Razvan Ionica, Arnaud Delugeard, Laurent Becker, project team

Associate Project Manager
CID (Conseil Ingénierie Développement), Rabat, Morocco: Moncef Ziani, Fouad Bouklou, Taib Bensied, Chakib Lahjomri

Contractors
SGTM, Casablanca, Morocco: Ahmed Kabbaj, director; Serge Bisson, project director; Youssef Kriem, assistant project director
SOGEA Maroc, Rabat, Morocco

Detailed Design
Hassan II Bridge: Egis JMI, Saint Quentin en Yvelines, France: Michel Duviard

Nautical Base Bridge
T-Ingénierie, Geneva, Switzerland: Jean-François Klein; Freyssinet International, Velizy Villacoublay, France: Jean Pierre Buys

Salé Viaduct and Tram Platform under Rabat’s Cliff: SOGEA, Rabat, Morocco: François Panafieu, Arnaud Warcholak

Tramway Platform and Rabat Bridge Abutment: TEAM MAROC, Rabat, Morocco: Hicham Hidsi; SECOA, Nanterre, France: Bertrand Lenoir

Consultant
Corrosion Engineering, Annecy, France

Total length
1030 m
Hassan II Bridge global length: 330 m
Nautical Base Bridge global length: 100 m

Cost
US$ 130 million

Commission
May 2006

Design
January 2007 – December 2007

Construction
January 2008 – May 2011

Occupancy
May 2011

http://www.akdn.org/architecture
Marc Mimram

Born in Paris, France, in 1955, Marc Mimram holds a Master’s Degree in Mathematics and graduated as an engineer from the École Nationale des Ponts et Chaussées. He is also an architect (DPLG) and holds a Master’s Degree in Civil Engineering from the University of Berkeley in California, in addition to a postgraduate degree in Philosophy.

He founded his own consultancy and architecture-engineering firm in 1981 and has completed a large number of civil engineering structures and architectural projects in France and abroad. Marc Mimram taught at the École Nationale des Ponts et Chaussées, at the École Polytechnique Fédérale de Lausanne, and at Princeton University (USA). He was appointed as Professor of Architectural Schools and currently teaches at the École d’Architecture de Marne-la-Vallée near Paris.

Websites

http://www.bouregreg.com
http://www.mimram.com