

Stuttgart, November 29th, 2017

### **New stadium design for the FIFA World Cup Qatar 2022**

This week the design of the Ras Abu Aboud Stadium in Qatar was revealed to the public.

The unique stadium for the FIFA World Cup 2022 will be the first demountable, transportable and reusable stadium of its kind which enables a sustainable re-use.

Together with Fenwick Iribarren and Hilson Moran schlaich bergemann partner further developed our first ideas into an innovative concept, which can be easily demounted after the quarter-final and re-established into many small stadia on a different location. Therefore, the building represents an exemplary alternative to other sports venues for mega events.

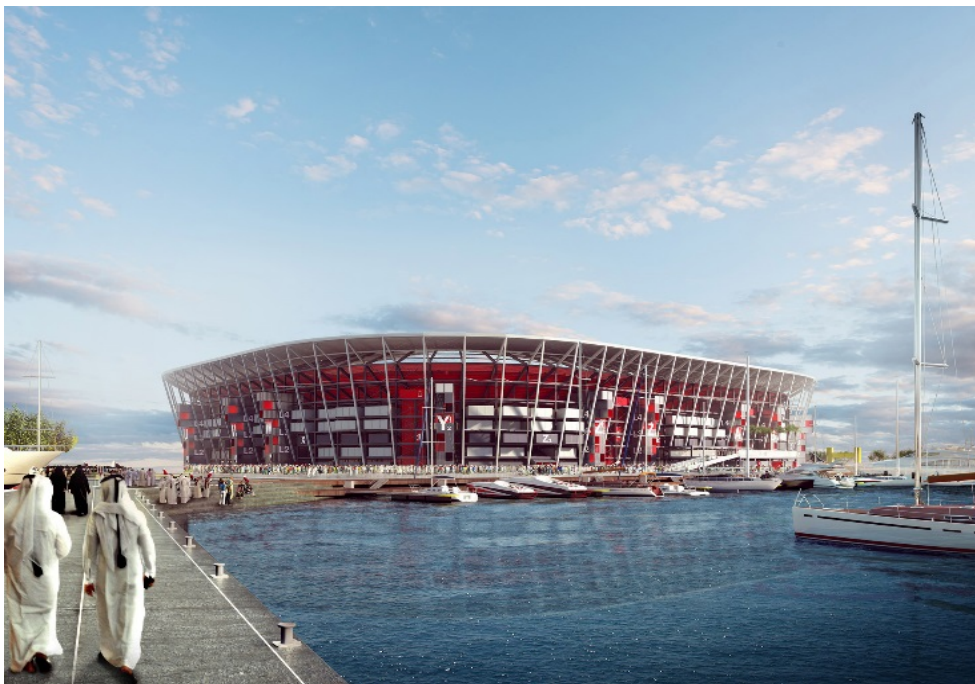


Illustration 1: Exterior view of the harbor  
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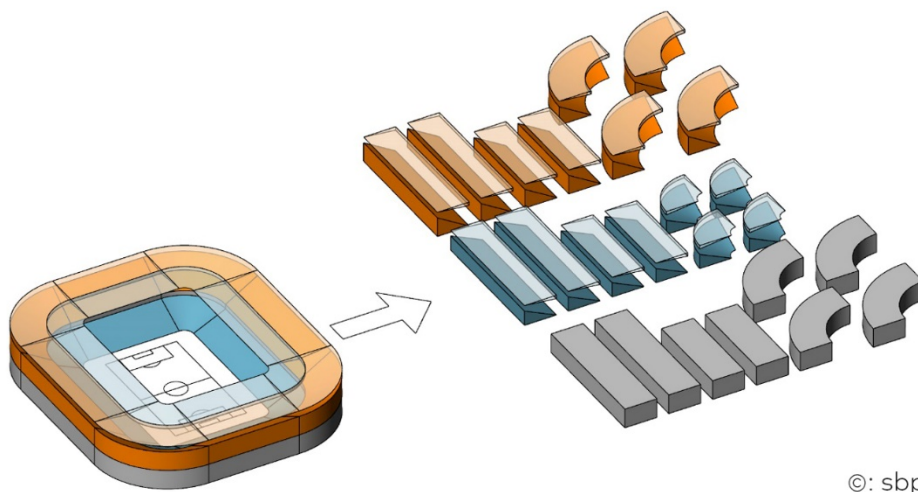
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The structure consists of a steel frame evoking the picture of a high-bay warehouse separated in different blocks, which e.g. include the stands, stalls, and sanitary fittings. All elements are placed in modified, certified shipping containers. The ceiling panels as well as the grandstands can also be easily stacked and transported. Due to the local transport connection to the airport and the geographical position at the coast, the construction site is also predestined for re-use after the World Cup.



©: sbp

Illustration 2: The stadium is composed of individual elements

All individual elements can easily be dismantled and transported as certified shipping containers from the harbor located in the direct neighborhood. At the same time this special construction also enables a reduced CO<sub>2</sub> footprint due to less construction material and waste. Hence, the Global Sustainability Assessment System awarded the concept a 4-star certificate already during the design phase.

The modular system has been approved by FIFA for large scale events which turns the stadium into a milestone within the development of mega sport venues. The 40.000 seat stadium will be venue of games preceding the quarterfinal of the World Cup 2022. The construction work already began in order to the stadium to be finished in 2020, two years prior the opening game.

schlaich bergemann partner are currently working on the detailed design. The following movie provides a tangible insight on the stadium's structure: [LINK](#)

### **schlaich bergemann partner– Experience of large-scale project planning**

schlaich bergemann partner (sbp) gained well-founded experience with large-scale projects and the construction of stadia, as well as adaptive systems, through a great variety of projects worldwide. Next to numerous stadia for the UEFA and FIFA Football World Cup, sbp developed well-known structures such as the roofing of the Olympic Stadium in Berlin or the host venue of the World Cup 2006 in Germany. Additionally, sbp was involved with the reconstruction of the Estádio do Maracanã in Rio de Janeiro and the Nelson-Mandela-Bay-Stadium in Port Elizabeth, stadia part of the World Cups in

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Brazil and South Africa. With the stadia in Warsaw, Bucharest and Frankfurt, sbp proved their competence in the construction and realization of movable roof structures. Lightweight support structures for wide-span roofs which allow new spatial experience and usage scenarios for these stadia have been developed and improved over decades.

Simultaneously sbp has been focused on sustainability and the research and usage of innovative building materials since the foundation of the office in 1980. It was perceived as appealing opportunity to design a structure in Qatar which on the one hand would suit the event and on the other hand represents a sustainable concept. The previously gathered experience could hence be implemented to deliver the idea which served as the foundation stone for this fully modular container stadium.

**Concept** schlaich bergemann partner, Knut Stockhusen und Fenwick Iribarren Architects, Mark Fenwick und Javier Iribarren

Please find the high resolution pictures as zip [file here](#) (link valid for ten days)

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The stadium rises in immediate neighborhood to the harbor. The embedment into the public transport network, such as the 1.5 kilometer distant airport, is being assured by an individual metro station.

© Fenwick Iribarren Architects



During nighttime, the stadium serves as landmark due to its exposed location

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The facade is characterized by the unique container structure, which serves individual functions such as stalls or sanitary fittings.  
© Fenwick Iribarren Architects



An indirect lighting highlights the prominent color scheme in the twilight  
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Next to their usage, the overhanging container elements pick up the guidance system for the viewers.  
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Within the access area, the visual appearance is characterized by the striking support structure combined with the sea containers  
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The subtle composition steers the visitor experience on the terrace fully onto the match.  
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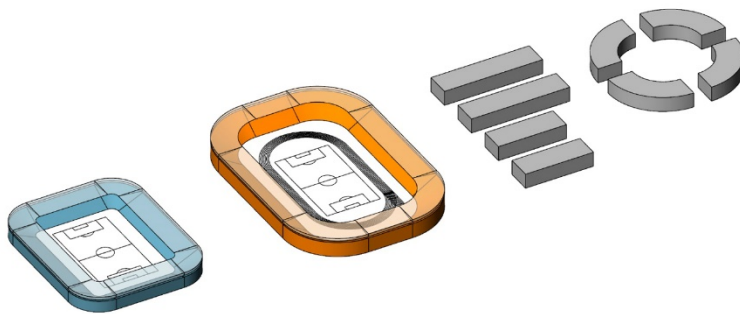
The roof structure is also designed in modules which allows the re-use for other venues.  
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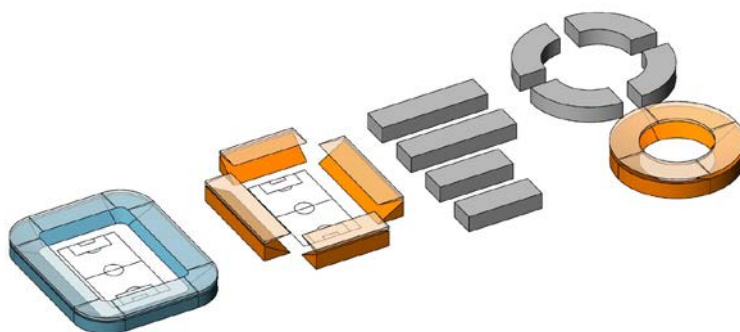
Night view on the stadium from the harbor. The lighting concept highlights the outstanding structure of the building.

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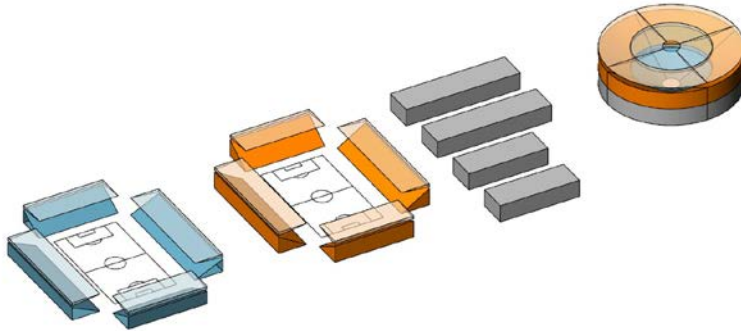
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The stadium is composed of individual elements, which simplify the future reuse. It allows to design two separate stadia – out of the lower – and upper tiers including separate roof structures.



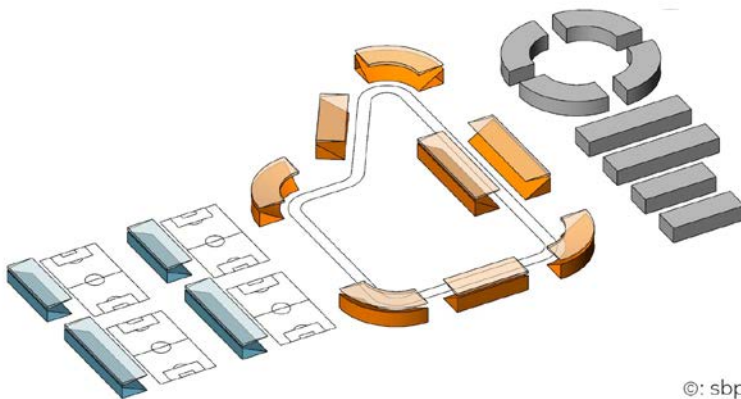
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Various versions of reuse. The lower – and upper tiers can be used separately including or excluding the corner segments because of its divisible roof structure.



©: sbp

The round segments of the corner constructions are easily readjustable.



©: sbp

A separate usage of individual stands for smaller stadia or racetracks is also possible.