

## Widening of the cable-stayed bridge over the Rande Strait – Design and construction

Dienstag, 29. Mai 2018  
17:00 Uhr  
Auditorium HIL E 1 (Lehrgebäude Bauwesen)  
ETH Zürich, Hönggerberg, 8093 Zürich

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The Atlantic Motorway, AP-9, crosses the Vigo estuary by means of a 400 m span cable-stayed bridge over the Rande Strait. This bridge was built between 1973 and 1977, and opened to traffic in 1981. In 2006, the average daily traffic reached 47 000 vehicles, close to its effective capacity and therefore resulted in frequent traffic congestion conditions. In order to increase the bridge's traffic capacity, several studies were carried out considering different alternatives. These studies led to a pioneer worldwide solution consisting on the widening of the cable-stayed bridge. This widening solution consists of two new external decks positioned along both the outer sides of the existing deck next to the main piers. This system will allow bridge-widening works without both interrupting the traffic on the existing bridge and affecting the Vigo estuary, a very valuable zone from a natural environmental and landscape perspective.

Anschliessend an den Vortrag ist ein gemeinsames Nachtessen mit dem Referenten im Restaurant Die Waid, Waidbadstrasse 45, 8037 Zürich vorgesehen.