



## Workshop Design brief: Realising a Vision – Architectural Competition for a Pavilion for Expo2020 Dubai

Andreas Gianoli

*Luchinger + Meyer, Zurich*

Contact: [agi@luechingermeyer.ch](mailto:agi@luechingermeyer.ch)

### Abstract

The world exhibition "Connecting Minds, Creating the Future" will take place in Dubai in 2020. For the Swiss pavilion, an architectural competition was launched, and the real competition project will be used within the workshop. The workshop focuses on the collaboration between the structural engineer and the architect. Since such a collaboration is not possible within the framework of the workshop, a project was selected which, through the very clear concept of the building form, enables the engineer alone to develop different bearing structures and to align these with the architectural design. The aim is to gain an understanding of a given geometry and use and the creative design process for the development of a convincing supporting structure.

### 1 Description Project

The structure serves as a platform for presenting the research capacity and innovative power of Switzerland. It should express the attributes of tradition and innovation, openness and tolerance, stability and reliability, attractiveness and intellect, sustainability and ecology, and make it apparent to all visitors.

The concept consists of a sphere with an integrated lift and an attached ramp. The inside of the sphere is a projection surface, and the guests

access the sphere via a chair lift. Once at the top, the guests walk down the ramp to get back to the ground. The ramp forms separate areas and spaces through the structure that serve as exhibition rooms and event areas. The outer skin consists of screens that radiate outwards. For the ramp, they serve primarily to create shadow, but from the outside, they transform the building into a huge screen, allowing the building's appearance to change easily. The intent is for the building to appear like a cloud without any connection to the ground, so the structural system should be as slender and hidden as possible. There are also

