CTBUH rope-less and non-vertical elevators
Research team holds fourth meeting

29 May 2018

CHICAGO – The fourth meeting of the team involved in the research “A Study in the Design Possibilities Enabled by Rope-Less, Non-Vertical Elevators” was held at the CTBUH HQ in Chicago, USA, on May 29, 2018.

The purpose of the meeting was to present to Markus Jetter, Head of Product Development of thyssenkrupp Elevator, the progress of the research and to discuss together some points of what will be the final output of these two years of research. In fact, during this meeting, Dario Trabucco presented an advanced draft of the final publication that will refer to the series of research reports guides produced by CTBUH.

The contents of this publication had already been discussed and approved previously, they were designed to be able to re-propose to readers the research path that has been conducted by the research group in these two years.

In fact, the first section of the publication will cover a backward historical journey, aimed at understanding what were the crucial moments in the history of the evolution of vertical transport systems - and not only - in relation to the building type of the tall building. In fact remember the premises of this research that already Mujica, in 1977, had perfectly summarized “The entire history of skyscrapers contains an homage to the inventors of elevators [...].” The team decided than to study different and less conventional systems of transportations, including the Paternoster, multi-cabs designs and solutions designed ad hoc to solve specific needs, up to reach the most recent rope-less and non-vertical proposals, move by linear induction motors and finally freed from many of the previous limits. Thanks to these notions acquisition, the main section of the output – developed through the support of the external experts involved in the research – is dedicated to the presentation of some design considerations facing the application of rope-less and non-vertical elevator systems in the main design of a tall building. Finally, to have a more effective idea and to make architects, developers and in general people involved in the sector, even more curious about the possibilities enabled by the application of such revolutionary systems some visions and case studies of future tall buildings will be presented, developed by students of architecture universities spread all around the world and supported by the international experts.

The final output, is aimed as a document for architects, developers and interested in the topic of new design possibilities, innovation technologies and future cities development. The main idea is to tempt with a quick view on the wide range of new possibilities made available by new technological innovations, such as the rope-less and non-vertical systems.
Dario Trabucco, research manager of the CTBUH, and Markus Jetter, Head of Product Development of thyssenkrupp elevator.