

General Information

- **Project Title:** Automated and Sustainable Building Construction
- **Project Acronym:** DAAD-RGCJoint Research
- **Sponsor/Client:** this project has received funding from the German Academic Exchange Service (DAAD Grant No. 57217359) and the Research Grants Council of Hong Kong (Reference No. G-HKU704/15)
- **Budget:** ca. 60.000 €
- **Duration:** 2016 - 2017

Abstract

As part of the study, the Chair for Building Realisation and Robotics (TUM, Prof. Bock) and the Hong Kong University's Department of Civil Engineering (Prof. Wei Pan) cooperated for the identification of scenarios in the context of using automated and robotic technologies for sustainable high-rise construction. The study integrated the complementary knowledge of the partners in the field of automated construction (TUM) and sustainable high-rise construction and build scenarios for 2025 for Hong Kong by considering a broad array of influencing factors.

Key Facts

- The consultancy project Research subject: Sustainable and Eco-System friendly Automation
- The Automated and Sustainable Building Construction was a two-year study co-funded by a grant from the Germany/Hong Kong Joint Research Scheme



Figure 1: The image shows the high-rises of the city Hong Kong and expresses the urban density and thereby the need of a proper automated as well as sustainable and eco-friendly automated building construction