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Exploring

Research-driven Building Design. Towards 2050

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- Smart living lab takes a uniquely holistic approach to improve energy and carbon performance of buildings
- The new *Towards 2050* series collects, structures and evaluates the knowledge gained throughout the progress of smart living lab's research

Product of a research cooperation between three Swiss universities – the École Polytechnique Fédérale de Lausanne's School of Architecture, the School of Architecture and Technology in Fribourg, and the University of Fribourg – the Smart Living Lab is a research and development centre for the built environment of the future. This high-tech structure also serves as an emblem of the cooperation's aim to translate academic research into actual buildings. A new series of books, entitled *Towards 2050* will be showcasing the ambitious undertaking at various stages. *Exploring: Research-driven Building Design* presents the second phase of research at the Smart Living Lab, which focuses on the various problems that must be solved to satisfy future buildings' sustainability goals. Given that the building sector is one of the world's biggest contributors to CO2 emissions and energy consumption, the research group is seeking strategies to improve energy and carbon performance of the Smart Living Lab, anticipating the expected tight requirements thirty years from now. The book features contributions by Marilyne Andersen and Emmanuel Rey; Anne-Claude Cosandey, Marilyne Andersen, and Emmanuel Rey; Thomas Jusselme; Dominic Villeneuve, Thierry Maeder, Hamed Alavi, Vincent Kaufmann, and Denis Lalanne; Thomas Jusselme, Endrit Hoxha, Cédric Liardet, Himanshu Verma, Derek Christie, Marc Antoine Messer, and Luca Pattaroni; Arianna Brambilla, Cécile Nyffeler, Hugo Gasnier, Jean-Marie Le Tiec, and Arnaud Misse; Didier Vuarnoz, Julien Nembrini, Philippe Couty, and Thibaut Schafer; Florinel Radu; Thomas Jusselme, Endrit Hoxha, Stefano Cozza, Raphaël Tuor, Renato Zülli, Nicolas Henchoz, and Denis Lalanne; and Thomas Jusselme and Didier Vuarnoz. Further volumes in the *Towards 2050* series: *Thinking: Visions for Architectural Design.*

Marilyne Andersen is a Professor of Sustainable Construction Technologies and Dean of EPFL's School of Architecture in Lausanne. **Emmanuel Rey** is a Professor of Architecture and Sustainable Construction Technologies and Head of the Laboratory of Architecture and Sustainable Technologies (LAST) at EPFL's School of Architecture in Lausanne, and a partner at Swiss architecture and urban design firm Bauart.







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