

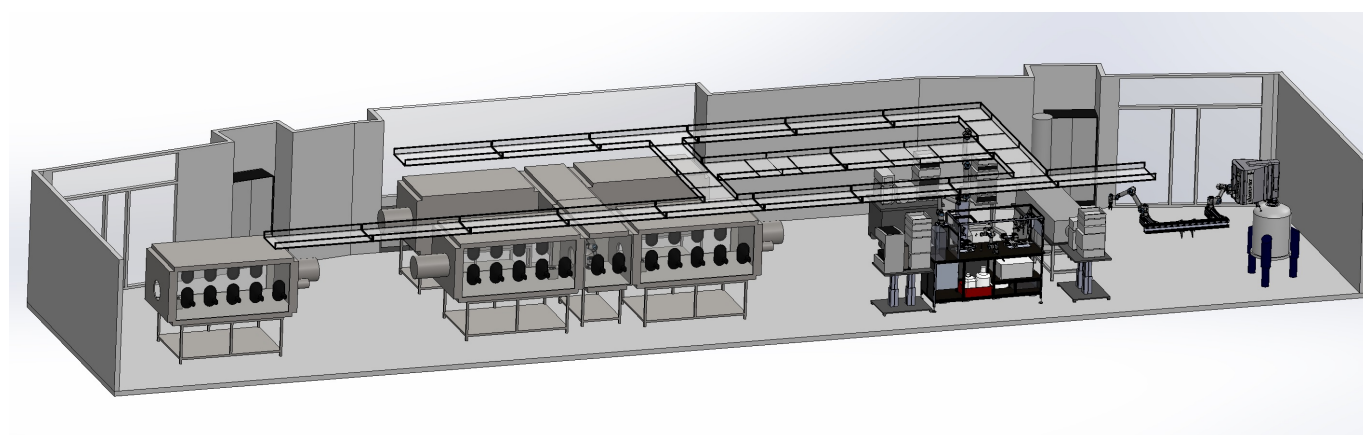
Swiss CAT+ , a data-driven autonomous research infrastructure for new catalyst discovery and optimization

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Making laboratory autonomous and data-driven is an important step toward complete digital chemistry. It is essential to be able generate reproducible, highly controlled and integrated data sets to feed the analysis models and the optimization algorithms. At Swiss CAT+, we are building such a completely automated and integrated data-driven laboratory for the development, discovery and optimization of new catalysts.



During this talk, we will present this new ETH-RAT research infrastructure project started in 2021 with a detailed description of its West (EPFL) and East (ETHZ) hubs respectively dedicated to homogeneous and heterogeneous catalysis. We will describe some of the conceptual, hardware and IT developments and present remaining challenges and potential future evolutions.