# Biography: Dr. ir. Michael Sluydts CEO, ePotentia Dr. Ir. Michael Sluydts is a materials scientist and entrepreneur working at the intersection of artificial intelligence and scientific research. He received his MSc in Engineering Physics from Ghent University in 2012, followed by a PhD in Chemistry in 2016, where he developed high-throughput virtual screening methods for energy materials, including colloidal quantum dots, silicon/germanium doping, and exotic quaternary compounds. After completing his PhD, Dr. Sluydts conducted postdoctoral research at Ghent University, where he collaborated with Umicore to improve germanium wafer production for satellite applications. In 2019, he founded ePotentia, a research company focused on interdisciplinary scientific AI challenges in materials and life sciences. During the COVID-19 pandemic in 2020, Dr. Sluydts led the development of an open course on AI for the materials industry course in partnership collaboration with Ghent University, Umicore, OCAS, and Agfa, with the aim of facilitating the adoption of materials AI. His current work spans various projects in materials discovery and characterization, with a particular focus on combining traditional materials science expertise with cutting-edge AI approaches. Today's presentation highlights one of these innovative projects, demonstrating how AI can transform limited datasets into comprehensive resources while maintaining scientific integrity.