



Session	Start-ups/SMEs looking for Finance: pre-seed/angel/seed funding
Title	Building the data foundation for bioprocesses to unlock digital twins and AI
Company	Formical
Speaker	Axel van 't Westeinde
Keywords feedstock (max. 2)	Customer Data
Keywords technology (max 2)	Digital Twin
Keywords End-Product (max 2)	Cloud-based Dataplatform
Abstract:	
Formical — the data-foundation layer for modern bioprocessing. Biotech and alternative-protein companies spend up to 25 hours per week manually gathering, cleaning and integrating experimental data, a bottleneck that drives costly production failures ($\approx$ €1.5 M per run) and wastes €15 M annually across mid-size firms. Our end-to-end platform automates data capture from upstream reactors to downstream purification, unifies laboratory notebooks, LIMS, ELNs and equipment streams, and delivers AI-ready, high-quality datasets. By eliminating manual workflows, Formical reduces time-to-insight, de-risks scale-up runs and creates a universal view of the entire bioprocess. The resulting data integrity powers robust analytics, digital-twin simulations and machine-learning models that accelerate R&D cycles, optimize feedstock use, predict contaminations and fine-tune metabolic pathways. Backed by a team with 10+ years of data-AI leadership and 2 successful exits, Formical is uniquely positioned as the only platform focused on industrial biotech, integrating both upstream and downstream data to deliver a sustainable competitive advantage. We are raising €500k pre-seed to expand the engineering team, finalize the platform architecture and hit our ARR milestone, paving the way for a profitable, AI-driven biomanufacturing ecosystem.	