



Session	Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed: Chemicals
Title	REINVENTING DENIM DYEING
Company	NordicBlue ApS
Speaker	Line Holst Graves
TRL	TRL 4 - 7
Keywords feedstock (max 2)	glucose glycerol
Keywords technology (max 2)	Enzymatic dyeing
Keywords End-Product (max 2)	Indican Indigo
Abstract:	
Denim is one of the world's most popular textiles, yet conventional indigo dyeing still depends on oil-based chemicals and harsh reducing agents that drive pollution, wastewater and worker-safety concerns, especially in production regions. Nordic Blue is a Danish biotech company developing, manufacturing and scaling drop-in, eco-efficient dyeing solutions that reduce hazardous chemicals in the textile industry. Our core technology uses a bio-based indigo precursor and enzyme based activation to replace petrochemical indigo and the toxic reducing chemistry in the dye bath. The result is a biological indigo solution that integrates into existing industrial dyeing lines: no new machines, no change to the dip-dyeing process, and compatibility with current dye ranges. Lab-scale work in an industrial dyeing setup shows dye performance comparable to standard synthetic indigo, while life-cycle assessment indicates up to around 50% lower environmental impact across climate, resource use and toxicity indicators. This provides mills and brands with a practical route to eliminate hazardous chemistry from indigo dyeing and move towards cleaner, scalable denim production.	