



Session	Start-ups/SMEs looking for Finance: Series A and Series B/C Funding
Title	Biotech Turning Rubber Waste into Green Molecules
Company	Recircle
Speaker	Barry van Bergen
TRL	TRL 4 - 7
Keywords feedstock (max 2)	Rubber Waste
Keywords technology (max 2)	Enzymes
Keywords End-Product (max 2)	Green Molecules
Abstract:	
We are an industrial biotechnology company focused on resolving the growing 58 million tons per annum of rubber waste problem using ground breaking technology to transform end of life rubber waste into high value green molecules. Our solution turns a local waste stream into a domestic source of critical raw materials, reducing Europe's reliance on imported virgin feedstocks and strengthening supply chain resilience. We utilise a portfolio of highly specific engineered enzymes in combination with our unique bioprocessing system to efficiently and economically breakdown and separate the complex rubber matrix into clean high value raw materials. We recover oligomers, ash-free graded carbon black, silica, process oils and waxes. Our products can either be used as feedstock materials for the speciality chemical industry or as drop-in bio-based alternatives for the rubber value chain, while delivering a lower carbon footprint than virgin materials and competing on price without a green premium. Samples are in the hands of multiple global chemical companies at various stages of evaluation. The potential of our solution is tremendous, with industry demand outpacing our current supply, while we also have a clear plan in place to scale towards two-tonne batches which will create the foundation for our first 8.4ktpa pilot plant to meet the clear industry pull for our products.	