



Session 2	Start-ups/SMEs looking for finance - series A and series B/C funding
Pitch Title	Bio-based chemical blocks for the development of bio-plastics and recyclable polyurethanes.
Company	Mevaldi b.v.
Speaker	Roger Ottenheim - CEO
Keywords feedstock	Biomass – cellulosic sugars
Keywords technology	Fermentation and chemical downstream processing
Keywords End-Product	drop-in platform chemicals
Amount investment needed	Euro 5 mln
Abstract:	
<p>Mevaldi is scaling up a revolutionary, integrated hybrid bio-thermochemical process for the biological fermentation of sugars (1G+2G) to mevalolactone (MVL), a highly versatile platform chemical, and its cascade thermocatalytic conversion to several bio-monomers like 3-methyl-d-valerolactone (3MdVL) and 3-methyl 1,5-pentenediol (3MPD).</p> <p>3MPD is a drop-in molecule, chemically identical to the incumbent fossil-based chemical. 3MPD is a diol which is used as building block in specialty polyols, polyurethanes, adhesives, inks and coatings. Mevaldi's technology to produce bio-based 3MPD offers a lower cost price than the comparable fossil alternative, while still possessing superior properties.</p> <p>3MdVL is a new molecule which can be used not only as a product improver for polyesters and polyurethanes, but also can be linked with other bio-based molecules like PLA to produce very versatile and tunable co-block polymers. These block polymers have a very wide range of applications ranging from very strong elastomers (for shoe soles for example) to very rigid engineering plastics can be used in the automotive industry for example.</p> <p>Mevaldi is currently producing these molecules at pilot plant scale (50-100 kg batches) and are preparing the company to move to small commercial volumes next year (ton scale) at a custom manufacturing site. Interest from customers all over the world is extremely high and we just started shipping the first samples for testing by these customers.</p> <p>The goal is to have a 20 ktpa production facility up and running by 2029, once demand in the market has been validated.</p>	

