

Subject	Questions shareholders Avantium EGM 2020
Date	30-September-2020

Questions by Mr Ficken

No	Question	Answer
1	Avantium is becoming increasingly visible in the world. This exposure could also attract the attention of malicious companies/specific countries that try to steal business secrets/technologies with the help of hackers, for example. Is Avantium aware of this potential risk and how does it respond to it? For example, does Avantium cooperate with ethical hackers?	Avantium is aware of these risks. We describe the risks related to cybercrime and IP protection in the Risk Management paragraph in the Annual Report 2019. We manage those risks by taking mitigating actions as much as possible. Those mitigating actions are also described in our Annual Report (page 43). Furthermore, we can confirm that we do an external audit of the IT security of Avantium every two years.
2.	At the AGM 2020, you indicated that various options are being explored to strengthen the cash position with a view to the future. We are now 4 months further on and can you give us some more insight how you have progressed with this?	<p>Cash and cash equivalents at €34.7 million on 30 June 2020 (31 December 2019: €45.4 million). Cash outflow in the first half of 2020 was €10.7 million. We confirm our guidance that cash outflow over 2020 is expected below EUR25m.</p> <p>For the coming months, we will focus on attracting the funding needed for the FDCA flagship plant in Delfzijl, which funding we want to have in place by the end of the year 2020. Parallel to our efforts to obtain equity commitments from strategic partners, Avantium is in discussion with banks for securing commercial debt as part of the financing of the flagship plant.</p> <p>In order to bridge the moment until cash generation from the flagship plan, we need to secure sufficient cash for</p>

		<p>the total company to operate and we are investigating all options.</p>
<p>3.</p>	<p>From previous communications, I understand that the focus is currently on the commercialisation of the YXY and Ray technologies. What does that mean concretely for the commercialisation of the Dawn technology? Is there a disappointing international demand? Has Dawn been brought to the market too early? Can you give an outline of the timelines for the commercialisation of Dawn?</p>	<p>Avantium focuses on commercialising its two lead products, FDCA (furanedicarboxylic acid) and plant-based MEG (mono-ethylene glycol), the two building blocks to produce PEF (polyethylene furanoate). We focus on scaling up PEF to commercial scale first, followed by the commercialisation of plant-based MEG.</p> <p>Avantium’s Dawn Technology™ has completed the first year of operations of the pilot biorefinery. We have run trials using feedstocks from several partners and this has helped to optimise the technology for both hard and softwood residues as well as support the validation of the process. The comparative economics for Dawn’s industrial sugars from non-edible biomass are challenging with industrial sugars from agricultural crops readily available in the market. We continue to operate the Dawn pilot biorefinery with a focus on operational excellence.</p> <p>We strongly believe in our technology to produce industrial sugars from forestry and agricultural residues. We see industrial sugars from the Dawn Technology™ as an imperative of a successful future bioeconomy. When the chemical industry begins to shift to plant-based sourcing, non-food sources of carbon will be required for the world’s product needs.</p> <p>We will monitor what is the right time and optimal manner to scale-up and commercialise the Dawn technology</p>

