

Rushlight Summer Showcase, 20<sup>th</sup> June 2019  
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# Altalto waste-to-jet-fuel project



# Velocys: sustainable fuels from waste

- Technology demonstrated at commercial scale
  - Reactor and catalyst for hydrocarbon synthesis (jet, diesel, naphtha)
- Combined with proven gasification, purification and hydrocracking technologies in end-to-end process
- Expert team with experience of designing, commissioning and operating synthetic fuel facilities
  - UK and US
- Traded on AIM (ticker: VLS)



ENVIA plant in Oklahoma City: commercial-scale demonstration of Velocys technology

# ALTO

Project to build UK commercial waste-to-jet-fuel plant



- >60 million litres/year of clean drop-in fuel (for jet and petrol) – already approved, no engine changes
- Avoids 500,000 tonnes/year of waste going to landfill
- 70% greenhouse gas savings
- 90% reduction in key exhaust pollutants (sulphur and particulate matter)



**Product burns more cleanly than conventional fuel...**  
...as well as the greenhouse gas savings



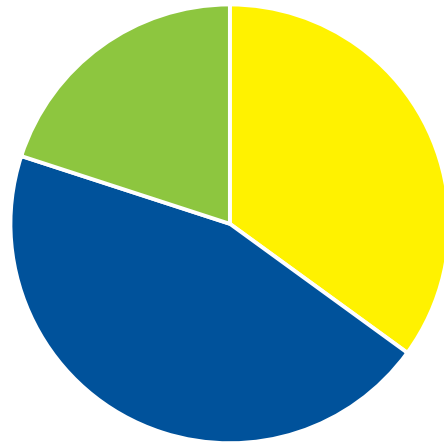
Left: Diesel made using Velocys process; right: diesel from a UK filling station



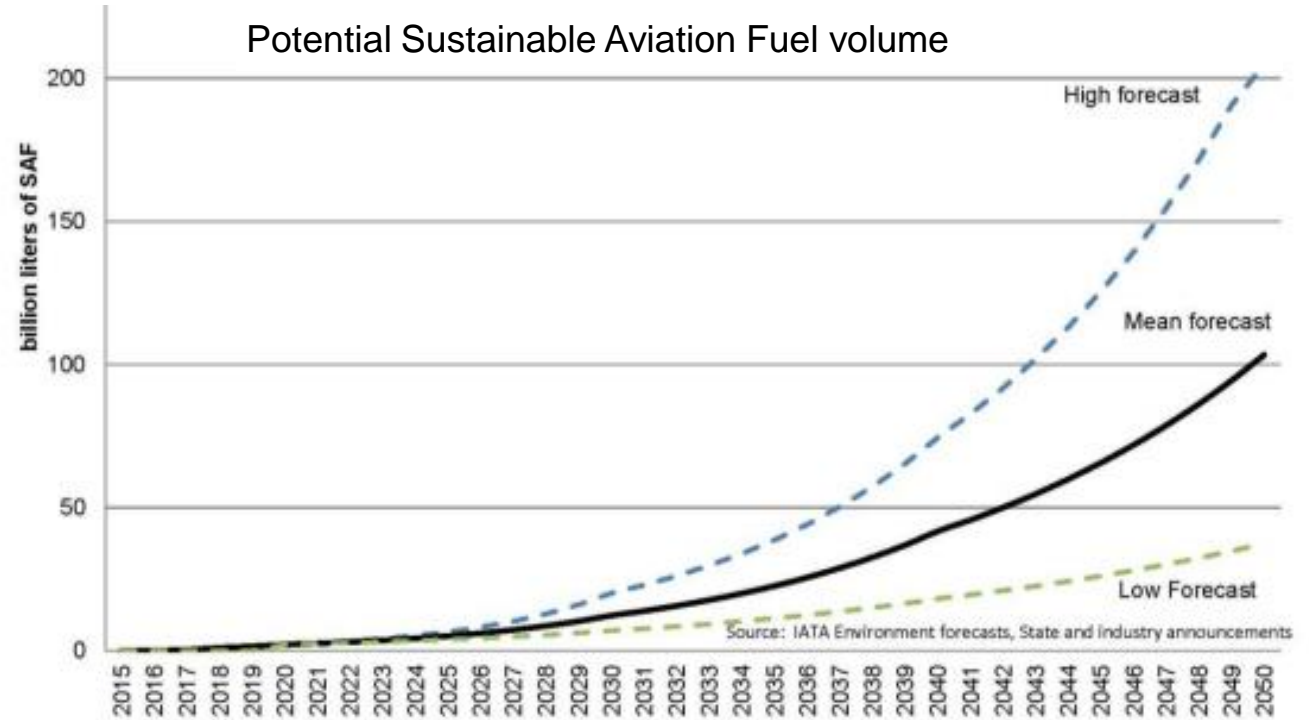
# One of few ways to address huge need for sustainable aviation fuels

## And beneficial use of waste

Altaero revenue sources



- Waste treatment fees
- Development Fuel credits
- Base fuels value



# Project status

- £5 million invested in current stage including £434k F4C Stage One grant<sup>1</sup>
- Site selected, planning consultation in progress
- Plan to start construction 2021 subject to planning and funding

<sup>1</sup> F4C is the Future Fuels for Flight and Freight Competition, funded by the Department for Transport



Model of plant on site near Immingham, North East Lincolnshire, UK