



# Embedding CCU/Volta technology in I-US

**Avantium, Volta Technology**

**Dr. Eric Schuler**

**Industrial-Urban Symbiosis – Business, Funding, and Practical Insights  
The Internet, March 24th, 2026**



# avantium



Ticker: **AVTX**  
Amsterdam &  
Brussels



Headquartered in  
**Amsterdam**



**150+**  
patent families



**300+**  
employees

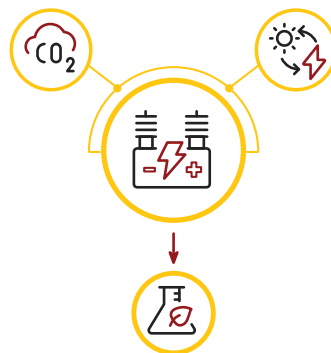
**>75%** scientists  
**35** nationalities



PEF a bio-based  
PET alternative



Converting CO<sub>2</sub> into  
chemicals & polyesters  
via electrochemistry



## R&D Solutions

Systems and Services  
for Catalyst R&D





## Revolutionizing Materials for a Sustainable World

**At Avantium, we're guided by a bold vision: to create a fossil-free world through a circular carbon economy.**

Using advanced chemistry, we unlock the renewable sources of carbon to reshape the future.

# Carbon is everywhere – let's defossilize - not decarbonize



## Biological Carbon Molecules

Carbon forms the framework for proteins, DNA, carbohydrates, and fats essential for life's structure and function.

## Carbon-Based Energy Sources

Fuels such as gasoline, natural gas, and biofuels rely on carbon to power vehicles, homes, and industries.

## Carbon in Materials Industry

Carbon compounds like polyester and polyethylene produce versatile textiles and plastics used daily worldwide. Carbon fibers, semiconductors, and graphene enable advanced electronics and sustainable building materials.

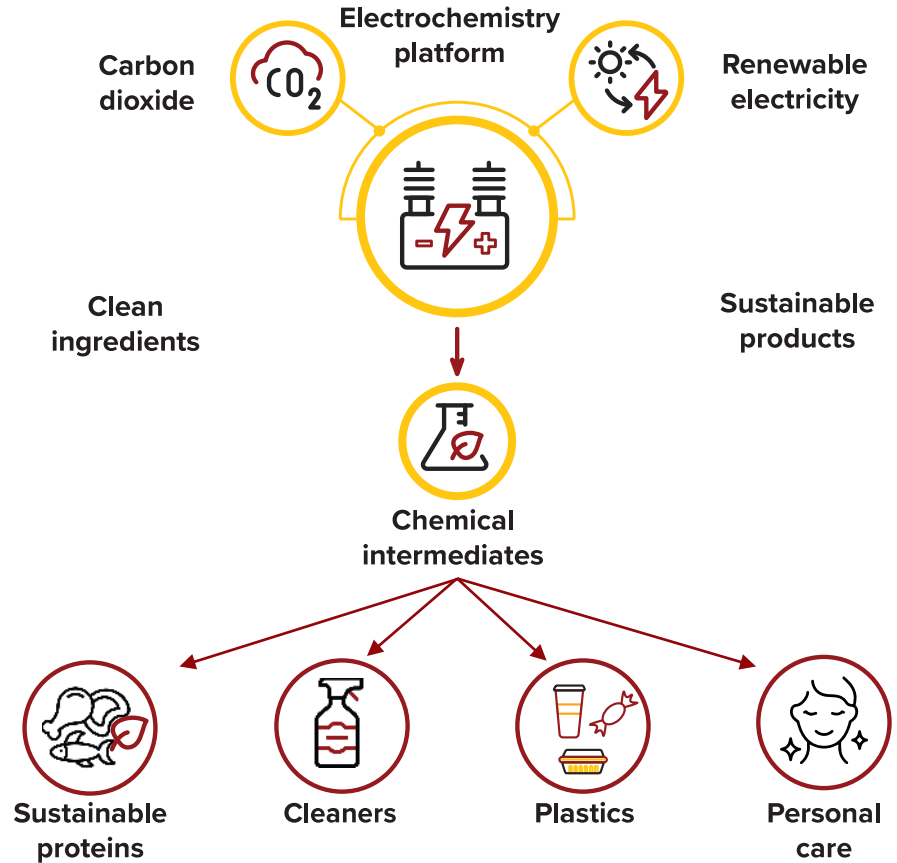


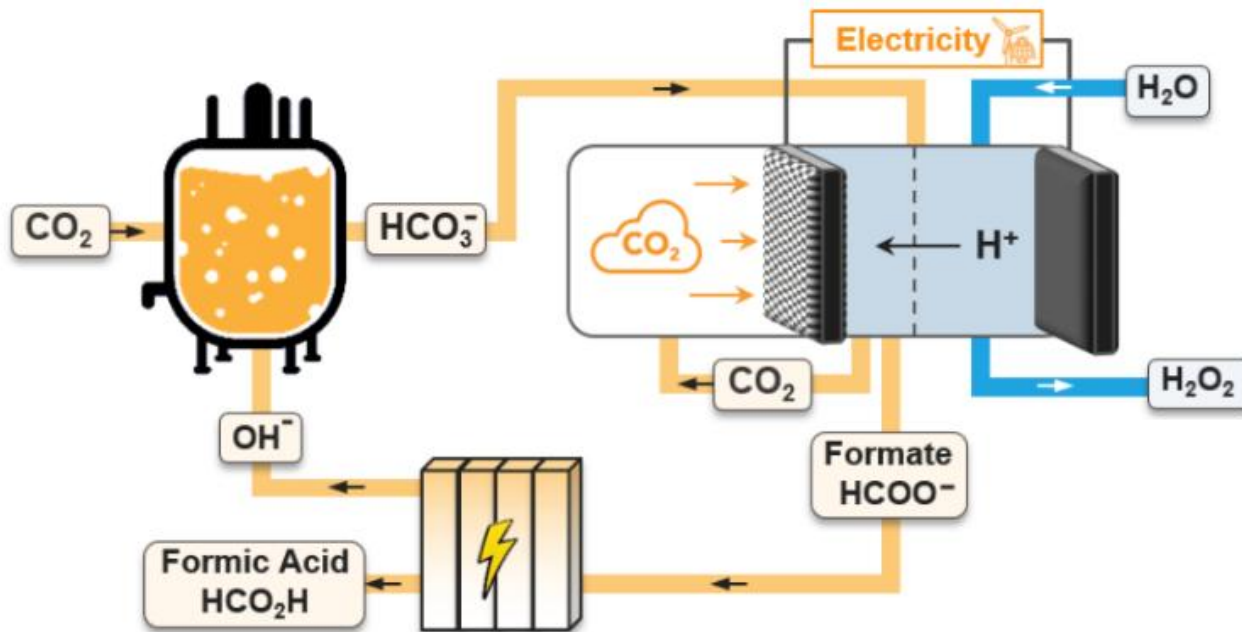


## Products from CO<sub>2</sub>: Opportunity meets Demand

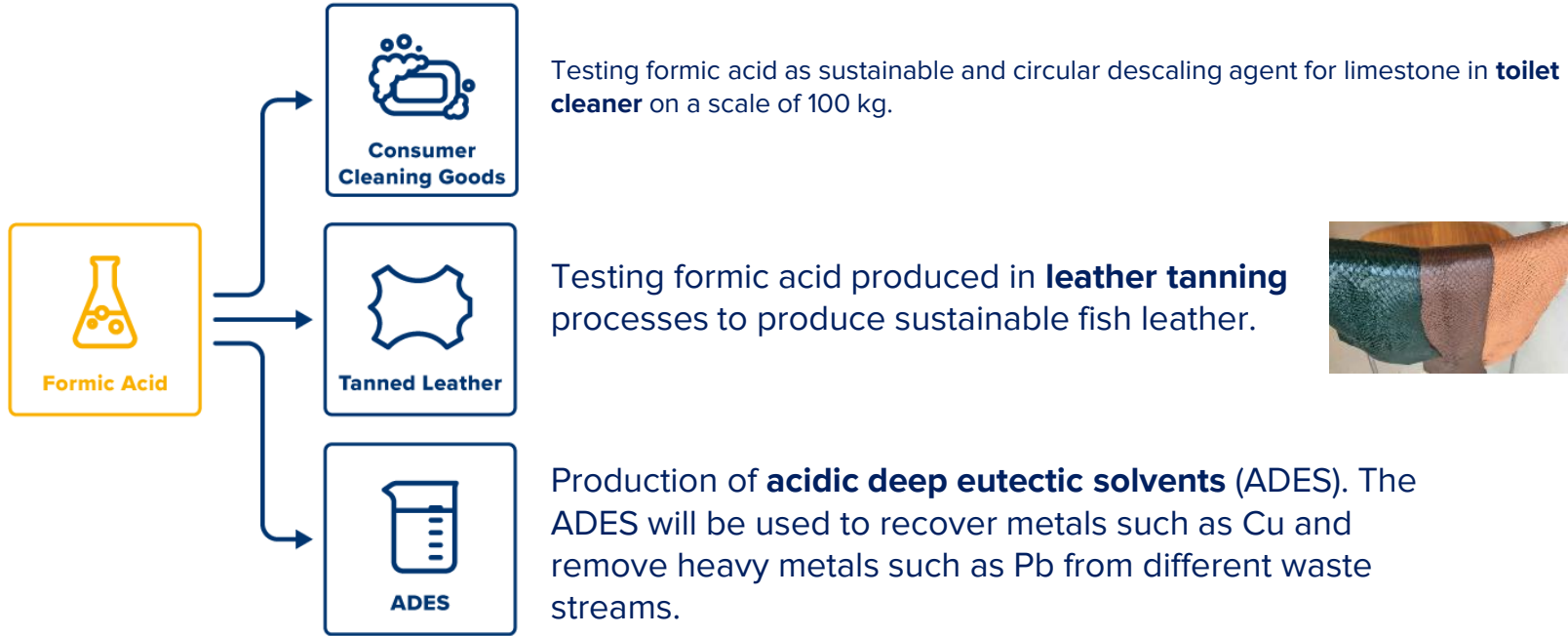
### Volta Technology serves:

- **Broad range of existing end markets,** through identical but sustainable alternatives to fossil-based chemicals
- **Numerous high-potential growth applications,** through new and innovative polymers with unique properties





# Product Implementation and Value Chain Circularity



NORDIC  
FISH  
LEATHER | Iceland

tecna: a  
MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

hvc.  
energie en hergebruik

## Demonstration sites

The CO<sub>2</sub> Conversion Pilot Facility will be installed, integrated and tested:



**Site 1:** Water treatment facility Amsterdam  
Biogas from water treatment is treated to produce green natural gas (mostly CH<sub>4</sub>) and a CO<sub>2</sub> stream.

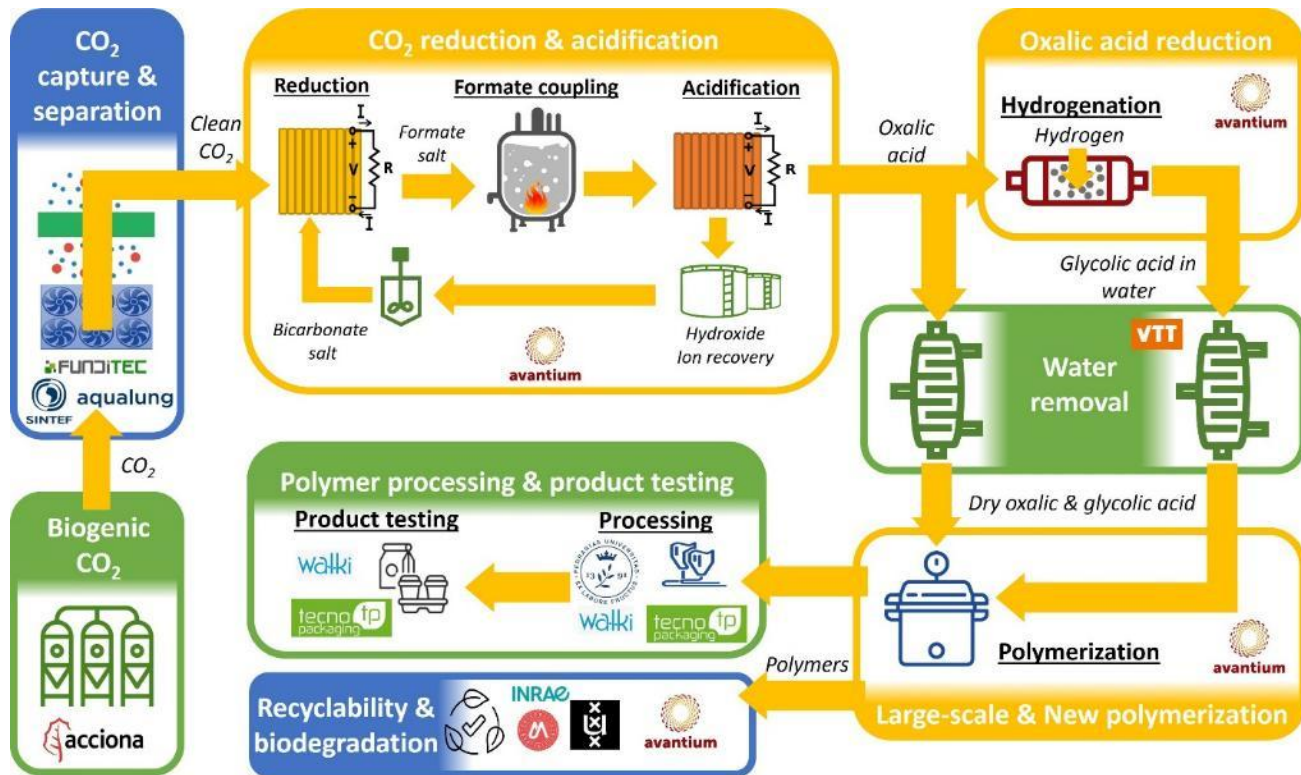
**Site 2:** bio-energiecentrale Alkmaar  
Flue gas from B-wood incineration  
CO<sub>2</sub> capture and liquefaction installation



## Case Study 2: HICCUPS Project

Capturing biogenic CO<sub>2</sub> and electrochemically converts it via oxalic acid → glycolic acid to the polymer PLGA.

Demonstrates packaging uses (e.g., coated paper, trays) as a renewable alternative to fossil PE.



# Thank you for your attention!

## Questions?



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**Thank you!**

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# Does our Glycolic Acid have a low carbon footprint?

