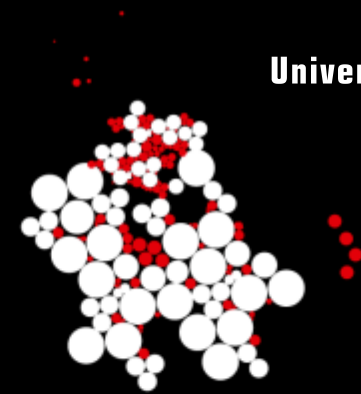




Rijksdienst voor Ondernemend  
Nederland

# Encat-Eddy Bramer



# EnCat

Enhanced catalytic fast pyrolysis of biomass for maximum production of high-quality biofuels



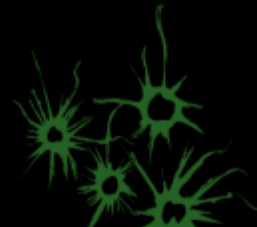
*Ir Eddy Bramer*

*Dr Artur Pozarlik*

*Prof. Gerrit Brem,*

*Energy Technology*

*University of Twente*



# EnCat: from biomass to energy (electricity & fuels)

**biomass**



**agric.  
waste**

**thermal**



**conversion**

**HQ**



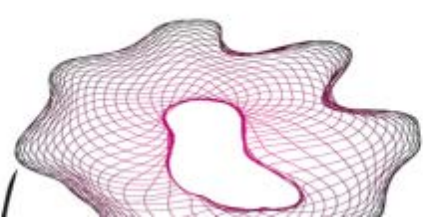
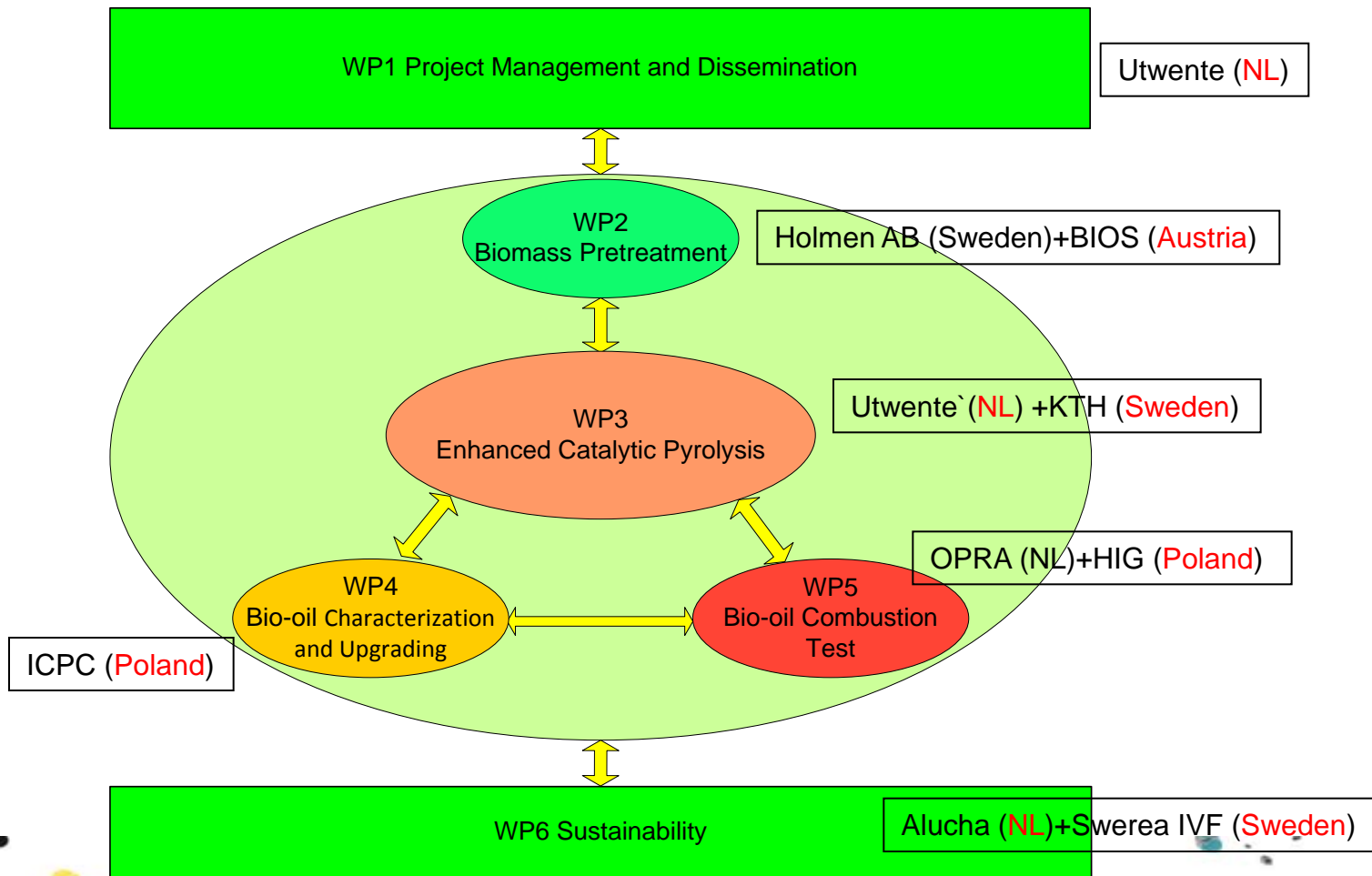
**biofuels**



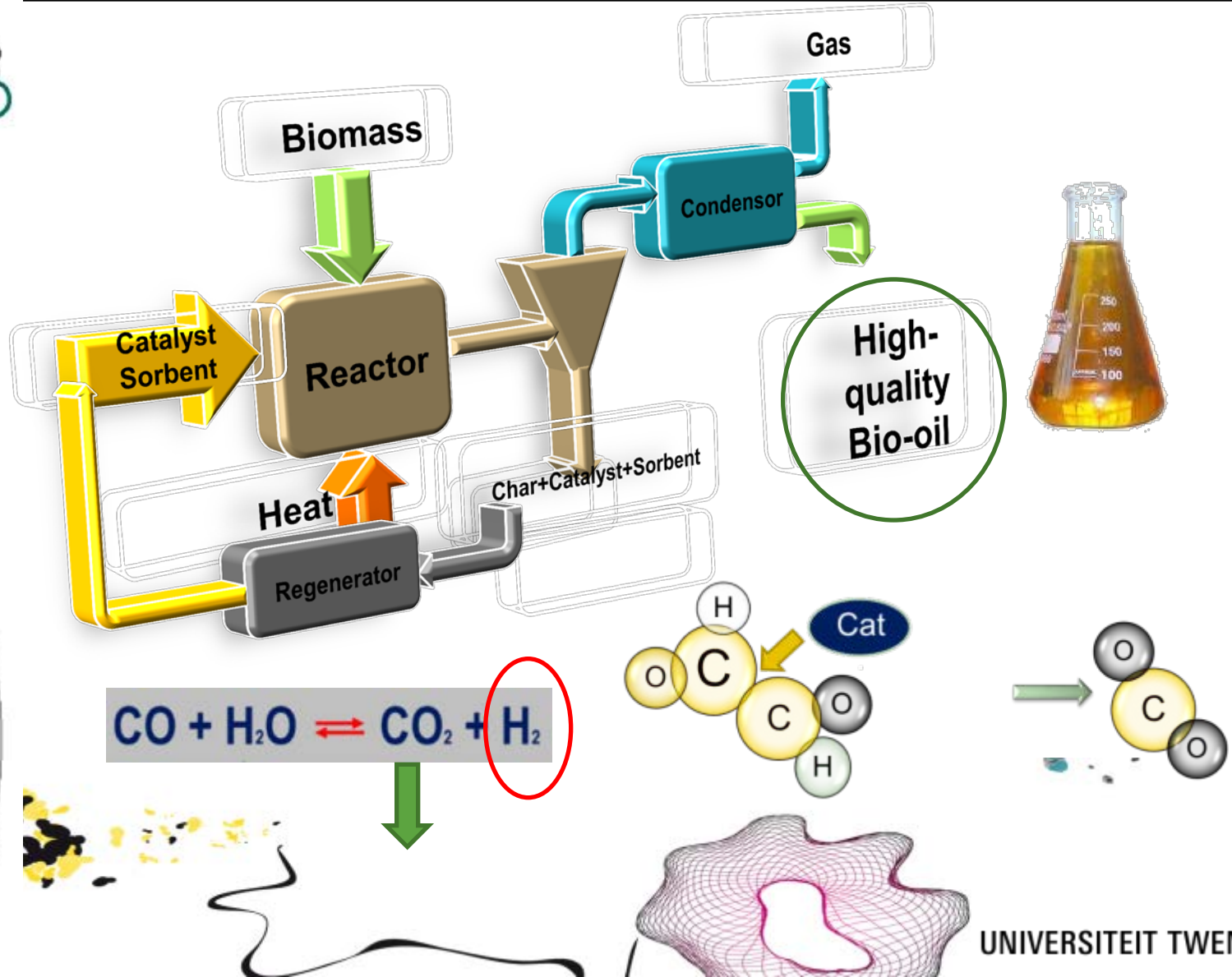
**automotive**



# EnCat project & consortium

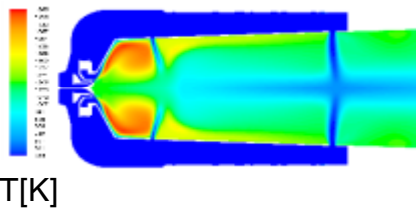
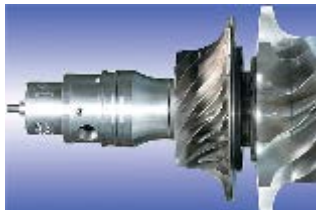
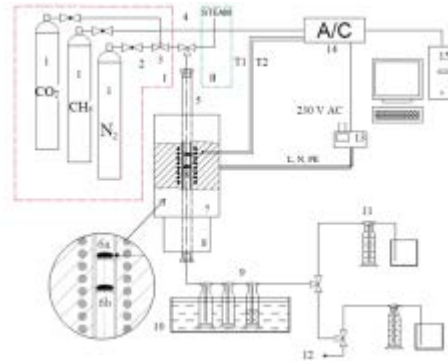


# Sorption Enhanced Catalytic Flash Pyrolysis





# Facilities in our well-equipped academic and industrial labs

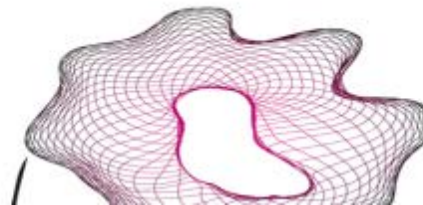




## In conclusion!

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- Strong Dutch consortium (UTwente, Alucha, OPRA, BTG) in cooperation with international partners
- Development of a novel concept of sorption enhanced catalytic pyrolysis → HQ bio-oil
- Next innovative step in pyrolysis to further continue and expand our knowledge position (2<sup>nd</sup> generation flash pyrolysis!)
- To utilize the HQ oil in gas turbines and diesel engines for the production of heat, power and automotive fuels



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# Questions

