



# EnTranCe: Centre of Expertise Energy

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share your talent. move the world.

EnTranCe  
ENERGY TRANSITION CENTRE

Energy Academy Europe

# October 2015: Opening by King Willem Alexander

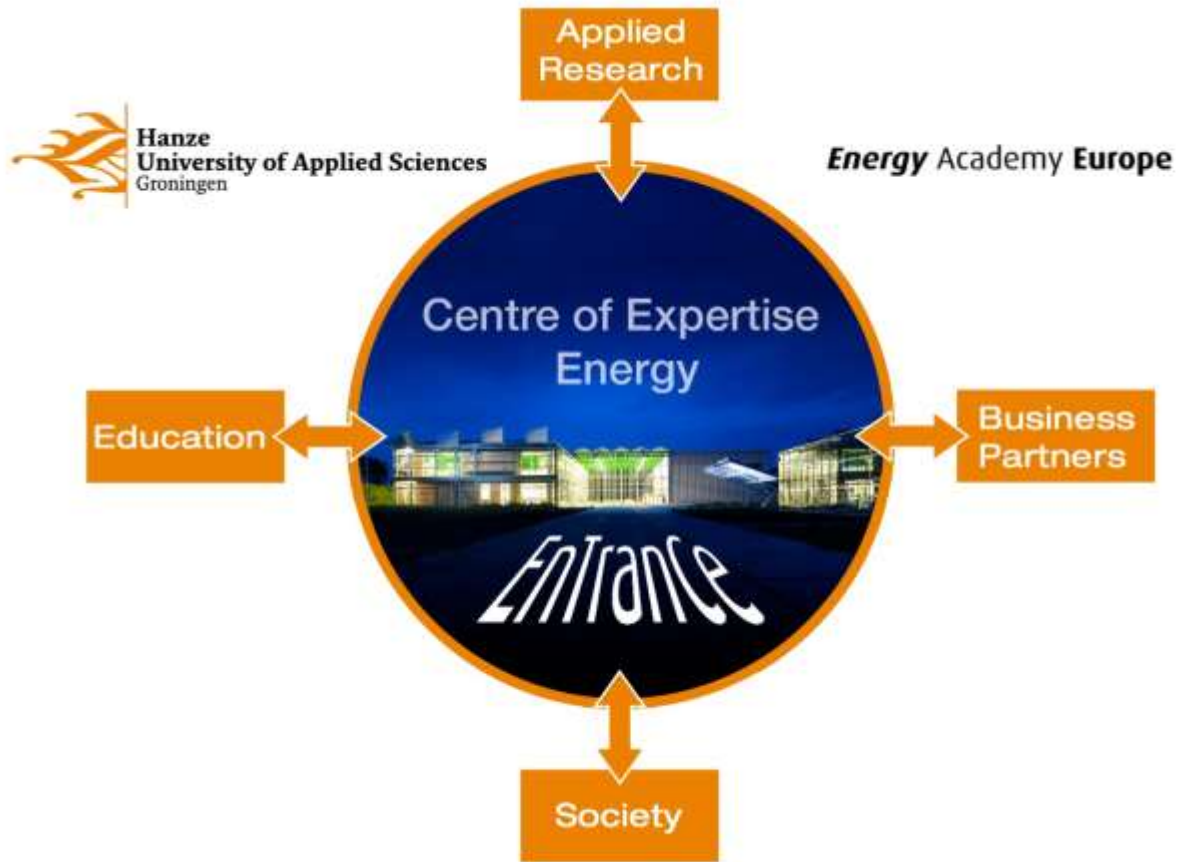




# Focal Area Energy

- Saving energy conservation, specifically in business
- Generating renewable energy
- Supporting local innovative initiatives
- A new energy system (*energiesysteem 2.0*)



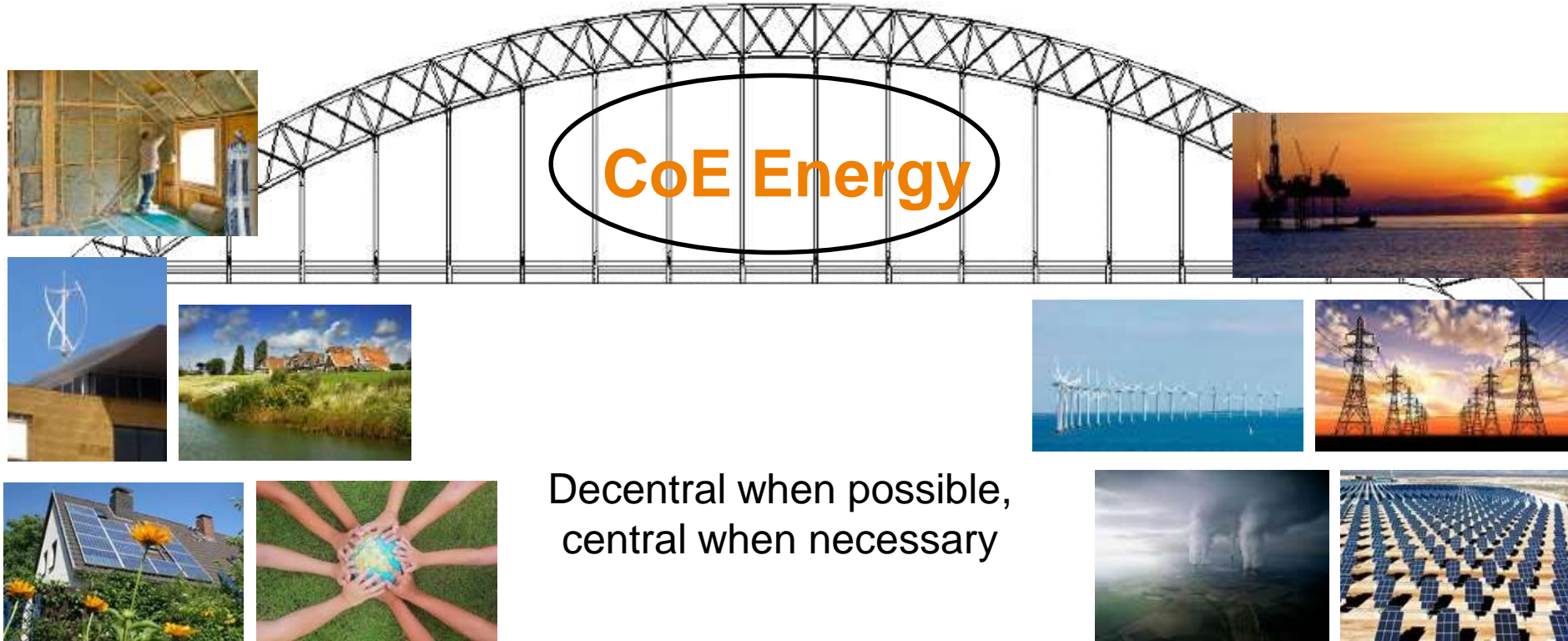


# Hanze University of Applied Sciences

- Professionally oriented higher education
  - 30.000 students
  - 3.100 employees
- **70+** bachelor programs, **18** master programs
  - 22 studies with an energy route
  - 3 energy master programs
  - 8 professorships with topic energy
  - Energy testing ground EnTranCe



# Position: Bridging two Worlds



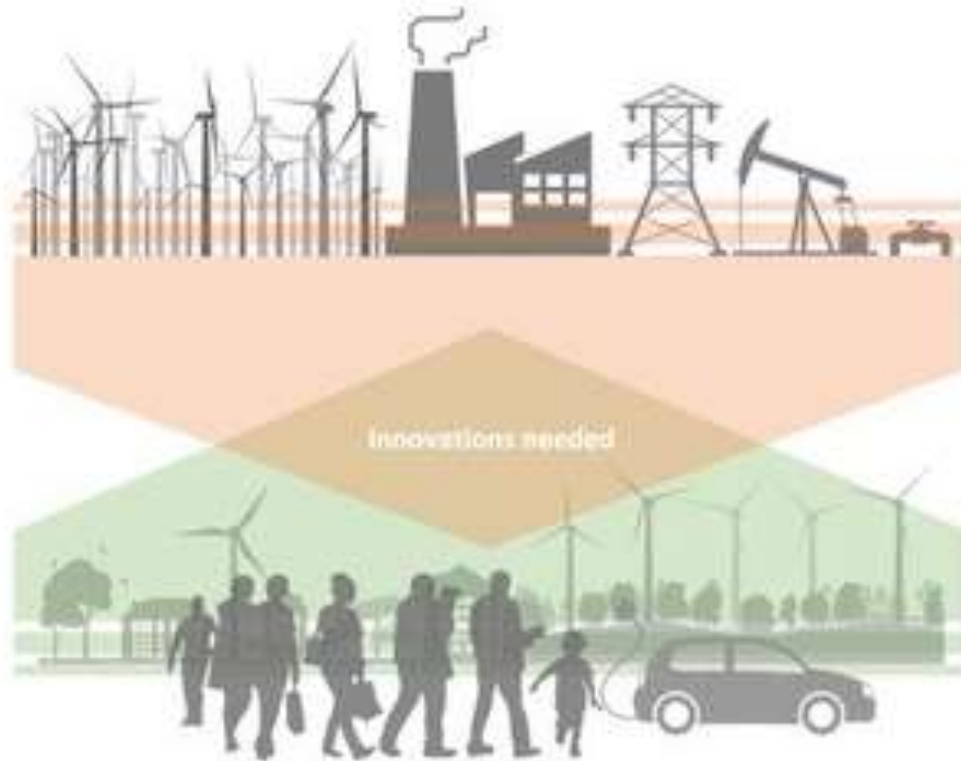
Decentral when possible,  
central when necessary

# 1. Applied Research

At the Centre of Expertise Energy we focus on **FIVE** main topics

1. Hybrid energy system design & management
2. Alternative gasses & hybrid fuels
3. Energy interventions & behaviour, public support & communication
4. New economic realities, labour market, governance & legal aspects in the energy sector
5. Sustainable communities & local initiatives





# Circulair worden: Meer met minder



Kas als energiebron

## Tuinbouw:

Aardgasverbruik in 20 jaar met een derde teruggebracht

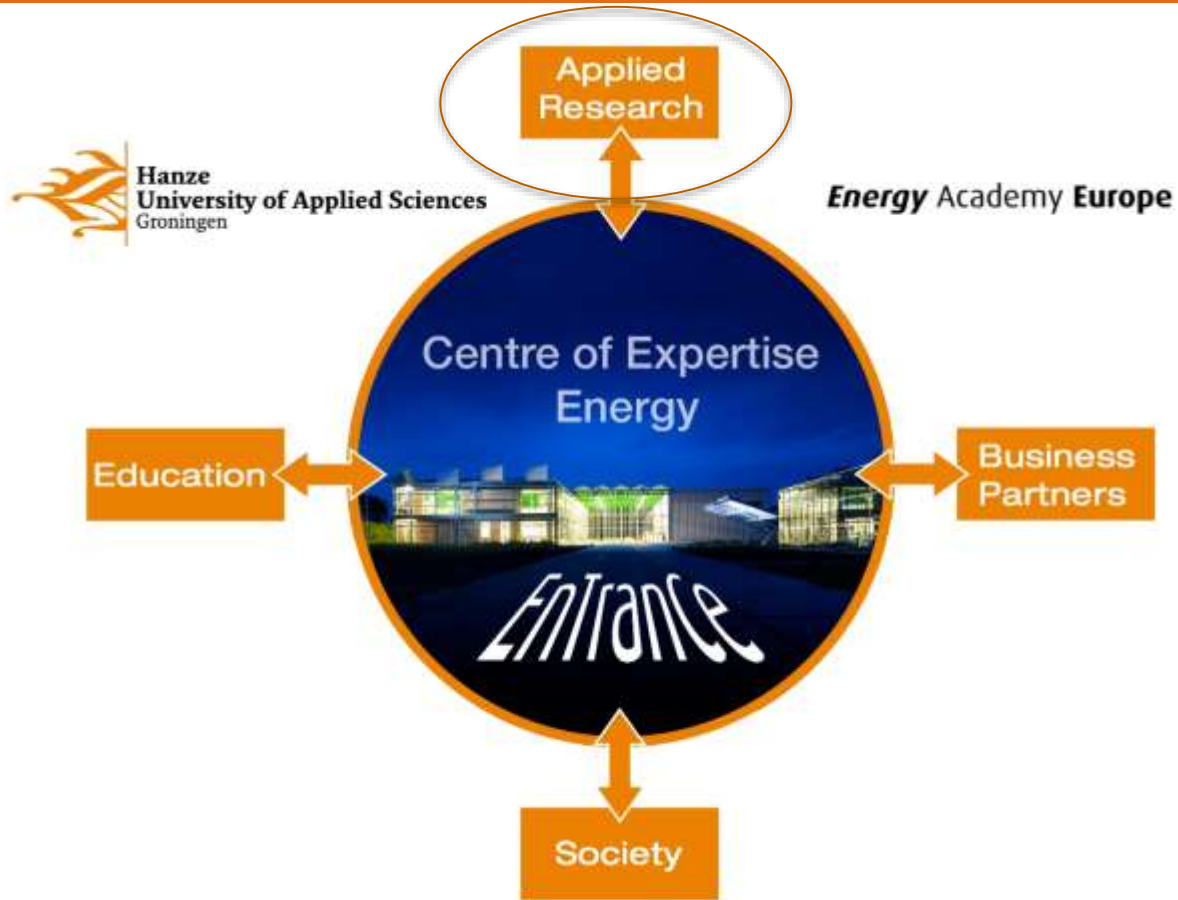
Watergebruik met 60% teruggebracht in 5 jaar

Bestrijdingsmiddelen ruim 20% minder in 5 jaar

(Bruggink et al, Groene Groei)

# Leidend in pootaardappelen...





# Bio-P2G

Research about the technical and economical feasibility of Bio-P2G



Zernike Advanced Processing (ZAP)

GRONINGEN



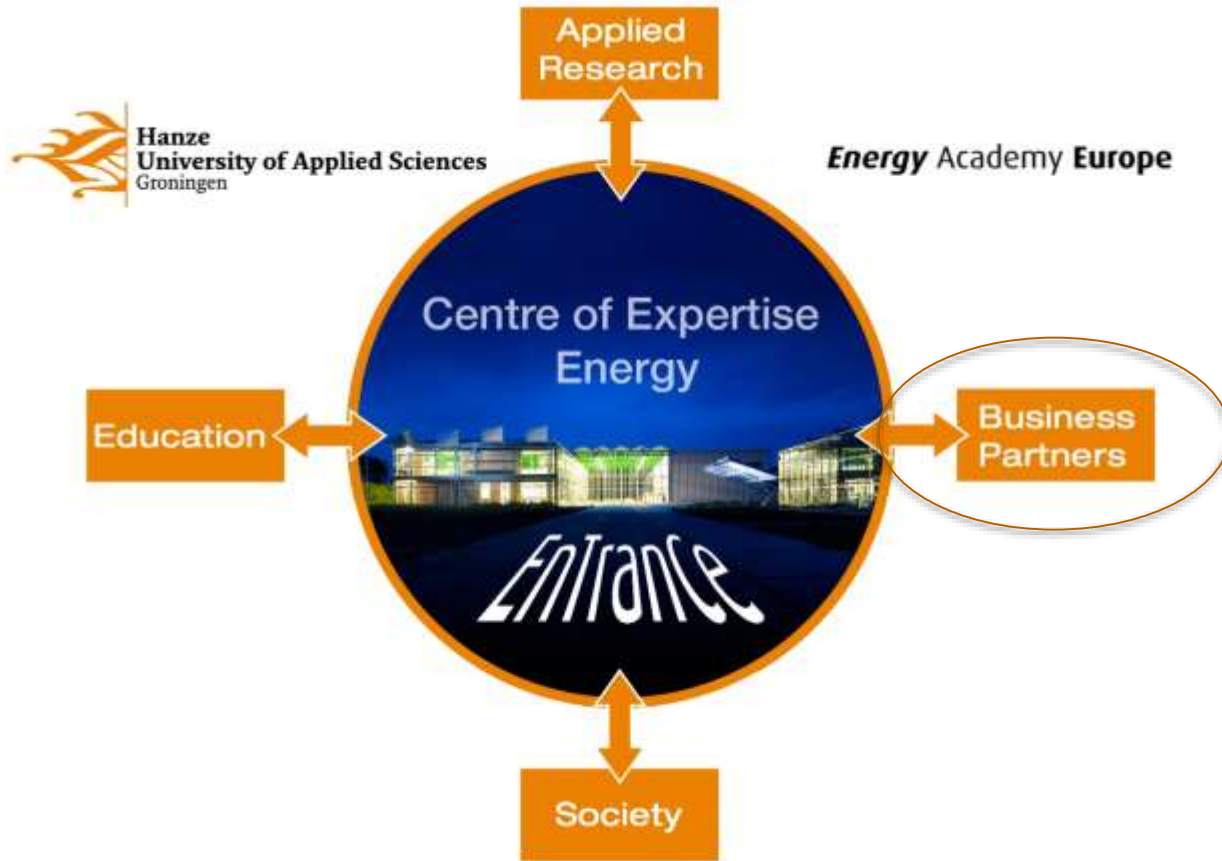
ZAP

ZAP staat voor Zernike Advanced Processing en is een unieke testomgeving voor biobased experimenten in Noord-Nederland. ZAP speelt in op de steeds sterkere signalen dat het gebruik van fossiele bouwstenen snel moet verminderen.



# BioBTX start pilot plant bij ZAP







# 3. Partners



# For you

