



Pioneering Perspectives: Twente as a Hub for Transitioning to Animal- Free Innovation

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From Transition to animal-free Innovations
Utrecht TPI Utrecht

to

the Center for Animal-Free Biomedical Translation
(CPBT)

Beyond Animal Testing in Biomedical Translation

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Ministerie van Landbouw,
Natuur en Voedselkwaliteit



Transition Programme
animal-free Innovations



TPI Utrecht

[Home](#) [Research](#) [Education](#) [Public Engagement](#) [About](#)

Transition Programme to Animal-free Innovations

Utrecht University (UU), the University Medical Center Utrecht (UMCU) and the University of Applied Sciences Utrecht have joined forces to create an interdisciplinary group called Transition to Animal-free Innovations (TPI) Utrecht. **The mission of TPI Utrecht is to improve the quality** of scientific research and education by supporting animal-free innovations.

Ambition statement on innovation in higher education using fewer laboratory animals in the Netherlands

Commissioned by The Universities of The Netherlands & The Dutch Federation of University Medical Centra (2022)



"To accelerate the transition towards animal-free innovations in research, testing and training, education of stakeholders of all generations in life sciences research in its broadest sense, including veterinary science, biomedical research and pharmacology, is key"

The role of education and training to maximize the potential of new approach methodologies (NAMs)

Ambition statement on innovation in higher education using fewer laboratory animals

Universiteiten van Nederland



Recommendations

Develop and implement NAM courses/materials offered to students, researchers and professionals within and outside universities and in co-creation with industry and contract laboratories and social partners.

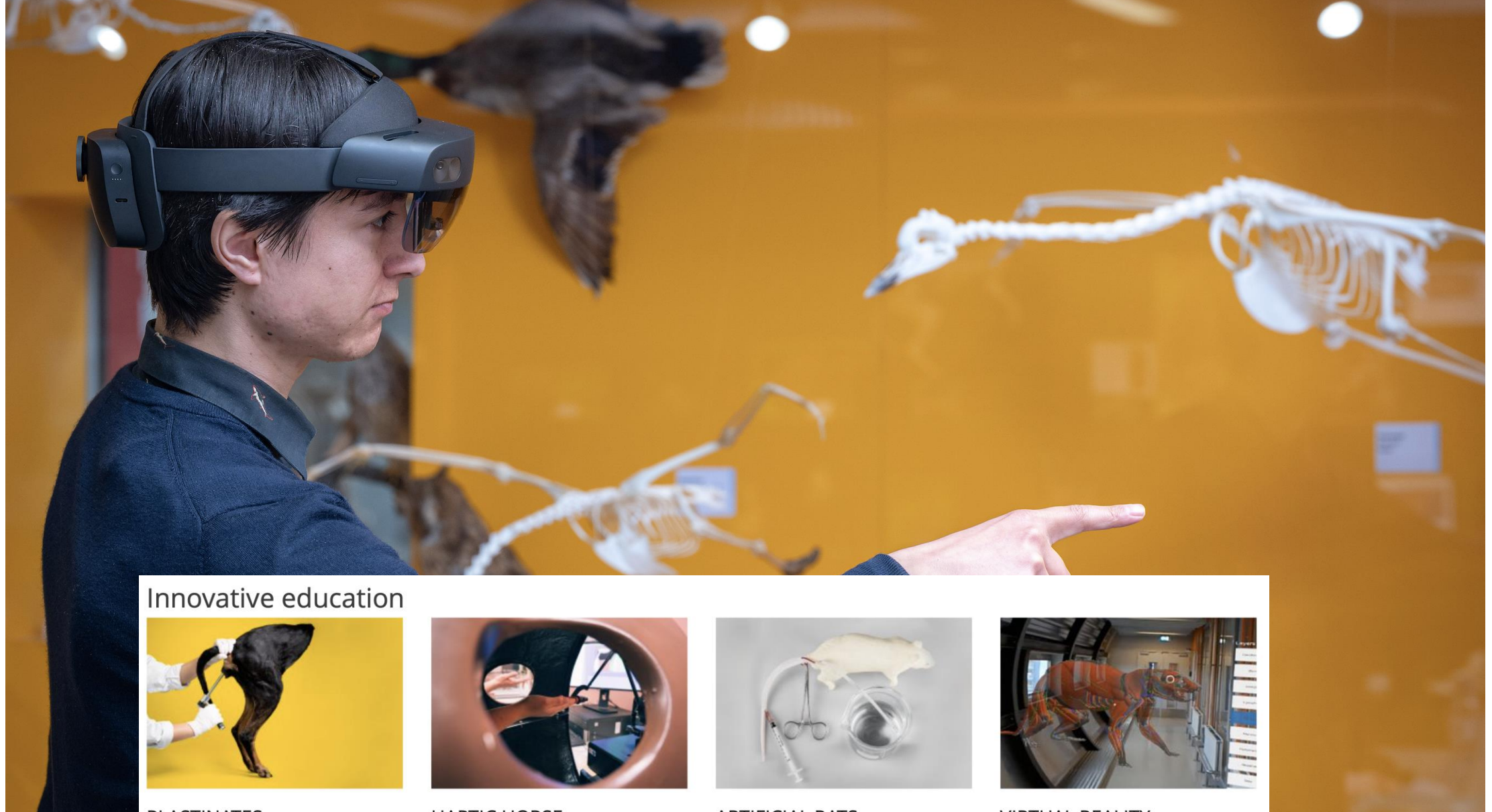
Create funding opportunities for industry and public consortia aimed at positioning projects in the field of education and the training of professionals.

A knowledge agenda for the transition towards animal-free science (ZonMW)



ISSN 1831

Non-animal methods in science and regulation
EURL ECVAM status report 2022

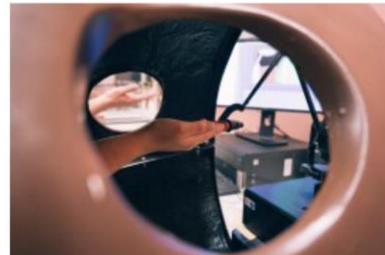


Innovative education



PLASTINATES

Life-like plastinates allow internal examinations to be practiced.



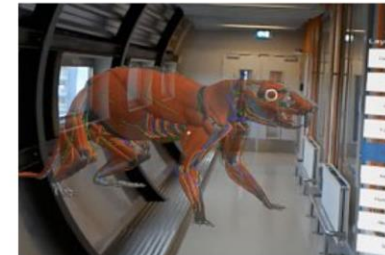
HAPTIC HORSE

A robotic artificial horse is used to practice rectal sensing.



ARTIFICIAL RATS

Plastic artificial rats can be used to practice blood collection from the tail.



VIRTUAL REALITY

VR glasses and holograms allow anatomy models to be studied in 3D.

The Global Education Hub for Animal-Free Innovation



Global Education Hub

Collaborative space to share ideas and co-create educational tools to advance animal-free communication, education & training

18 countries worldwide, including NGOs, governmental institutions, industry, and academia, including educators and students

Organized in 4 working groups focused on specific target audiences:

High School and Bachelor & Master

PhD & Postdoc

Regulators

Funding



Join our community!

Next meeting the 28th of October

Initiated by a collaboration of



Transition
Programma
animal-free
Innovations



the Center for Animal-Free Biomedical Translation

cpbt

Generating safer and more effective treatments, while reducing animal testing

The CPBT raised EUR 125 m from the Dutch government together with industry partners to develop a European center for animal-free biomedical translation

Core consortium



Partners [selection]



In continuous dialogue with



The CPBT ambition: Accelerate the transition to animal-free biomedical translation



Improve predictive quality

Animal experiments **lack translatability** to humans, especially in personalized medicine.

This **limited predictive value** delays the halt of unsuccessful projects, leading to **high follow-up costs**



Reduce animal testing

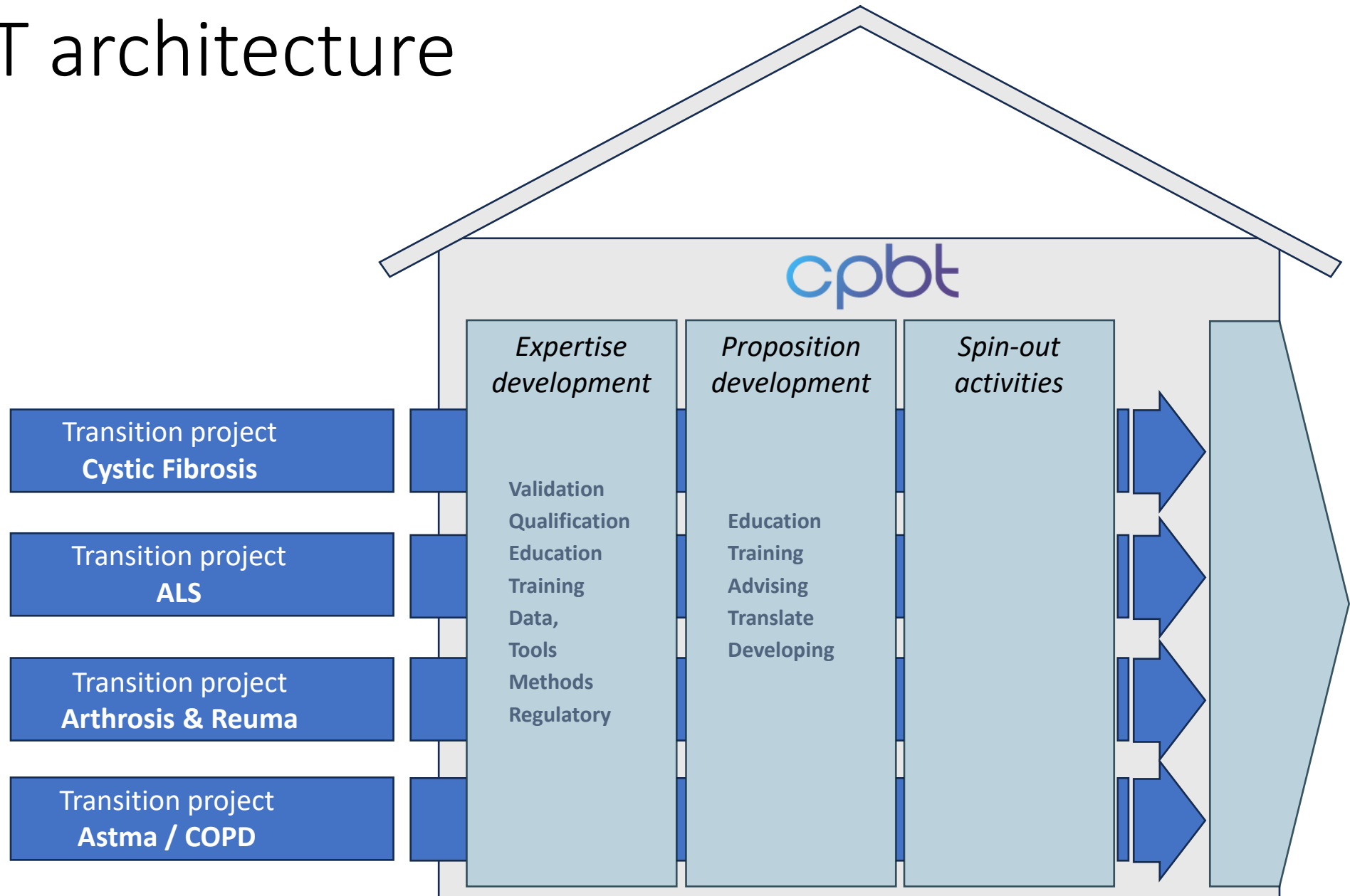
Animal testing for biomedical translation **harms well-being**, causing pain, stress, and loneliness. Additionally, **~90% of lab animals are killed**, with a surplus bred unnecessarily.

CPBT will lead the transition to animal-free biomedical translation by proving it's achievable and empowering researchers and companies.

This transition will:

- **Enhance biomedical translation** with more predictive preclinical development
- **Enable personalized medicine** through alternatives to animal testing
- **Improve health** with safer, more effective products
- **Create business opportunities** with animal-free innovations
- **Reduce animal suffering** by minimizing animal tests

CPBT architecture



cpbt

Generating safer and more effective treatments, while reducing animal testing



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