

Project idea/ Field of expertise:

Organisation Name:

Digital twin, Soil processing model, Discrete element method (DEM), Finite element method (FEM), Wear analysis. Faculty of Engineering (FE) Czech University of Life Sciences Prague (CZU)

Addressed topic(s):

Horizon Europe Cluster 4

C4-D1-Climate neutral, Circular and Digitised Production C4-D3-World-leading Data and Computing Technologies C4-D4- Digital & Emerging Technologies

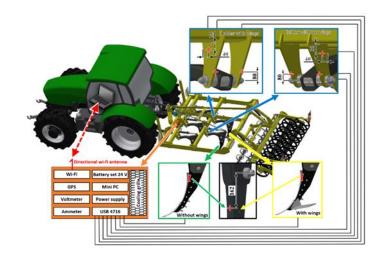


Faculty of Engineering, Czech University of Life Sciences Prague

Public; established in 1952; over 8,000 graduates, 10 departments

- precision agriculture;
- design and development of smart solutions for the use of new technologies in the agri-food sector and its digitalization;
- design and construction of digital twins





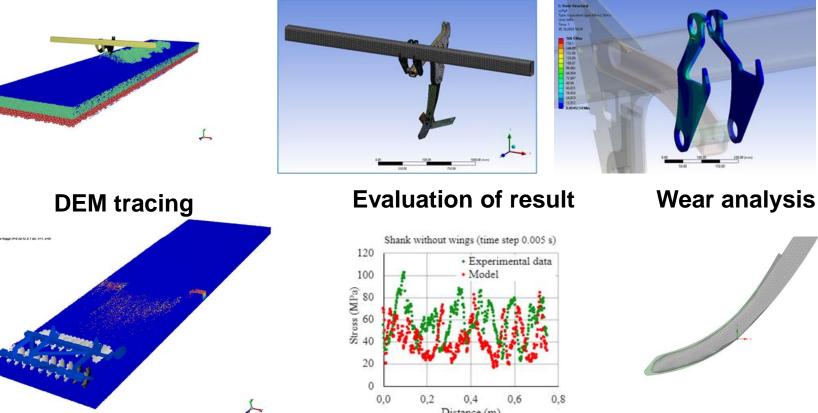
Over 3 mil. EUR from national and international funding programmes at FE (more info Faculty of Engineering, CULS Prague (czu.cz))

Usage of digital twin concept in agri-food sector and smart farming

- \succ FEM and DEM method application in agriculture and soil processing;
- \succ fertilizing and seeding processes simulation;
- \succ abrasive wear analysis;
- \succ worn surface comparison to the actual shape.

DEM

FEM



Distance (m)

10th Novembre 2022 – KETs

Contact details

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