

**University of  
Applied Sciences  
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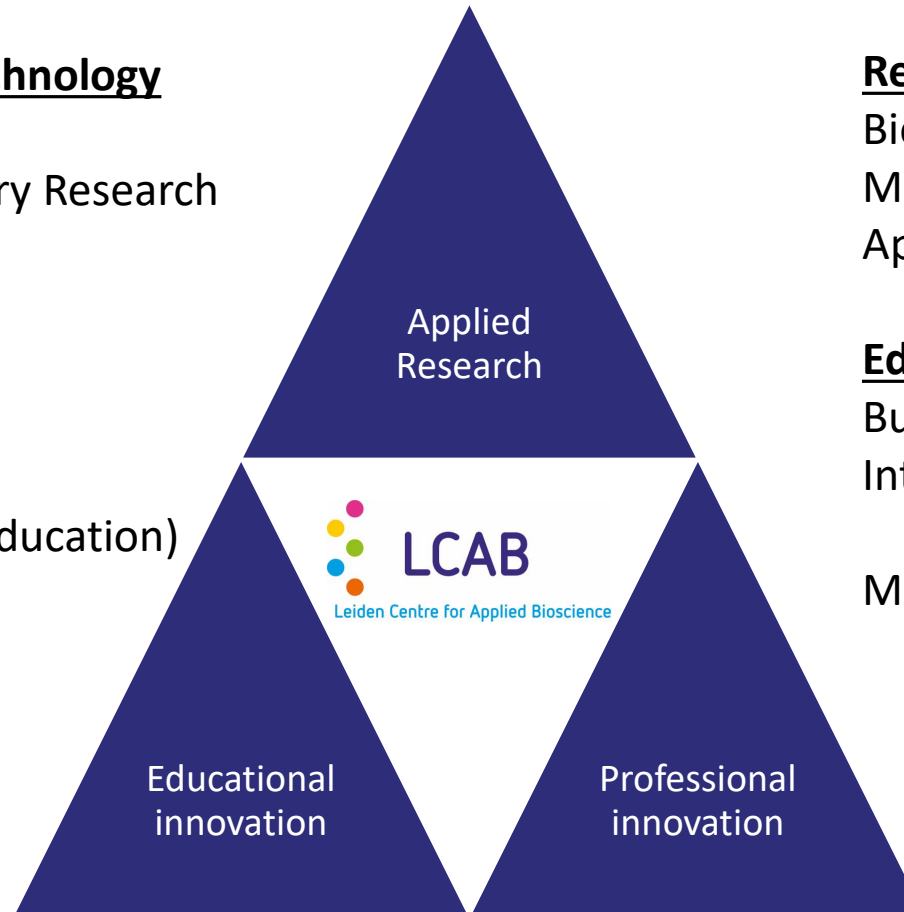
**LCAB**

Leiden Centre for Applied Bioscience

## Educations Faculty Science & Technology

Applied Science:

- Biology and Medical Laboratory Research
- Bioinformatics
- Chemistry
  
- Informatics
  
- MLO (Vocational Laboratory Education)



## Research themes LCAB:

Biodiversity & Health  
Measurement & Detection  
Application of Omics-technologies

## Educational fields of study (Informatics):

Business Data Management (BDAM)  
Interaction technologies

Modules on Geodata and Remote sensing

# INSPIRATION FOR RESEARCH TOPICS: THE EU BIODIVERSITY STRATEGY FOR 2030

## Keywords

- Benefit
- Protect
- Restore



# SENSING BIODIVERSITY

Global-regional coverage

Satellite



Satellite



Regional-local coverage

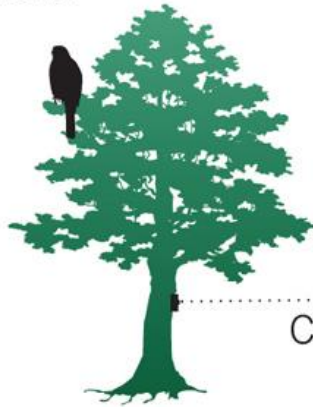


Aircraft



UAV

Citizen scientist  
with cell phone



Drone



Camera  
trap



Sound  
recorder

Wildlife officer with  
receiving antenna



Transmitting  
collar



Collecting environmental DNA

# KEY ENABLING TECHNOLOGIES FOR RESEARCH ON ECOSYSTEMS

## Nanopore sequencing

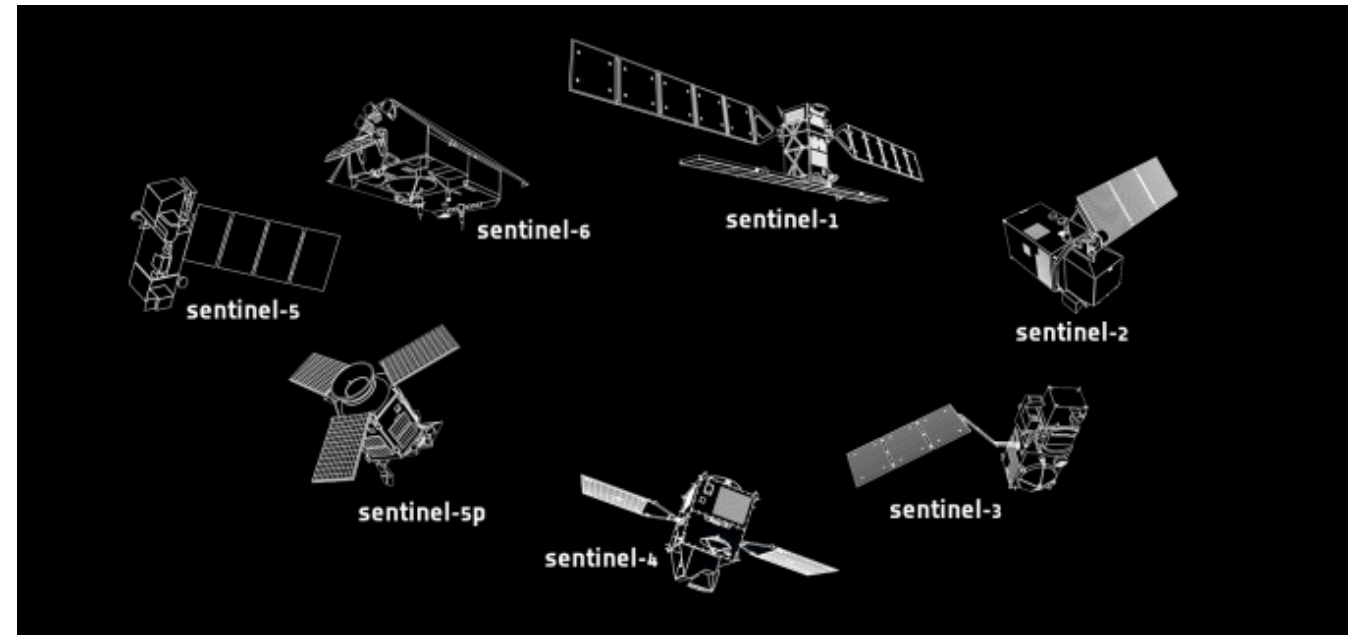


### Environmental DNA

- Air
- Soil
- Water

MinION | Oxford Nanopore Technologies

## Satellite data



Copernicus | European Union

## POSSIBLE RESEARCH TOPICS

### **Protect nature:**

The monitoring of the dynamics in Nature2000 area's due to climate change and seasonal drought.



### **Restore ecosystems:**

Monitoring the effects of water and agricultural management on the restoration of biodiversity in peatland meadow areas (veenweidegebieden).

