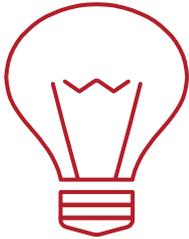




SensUs

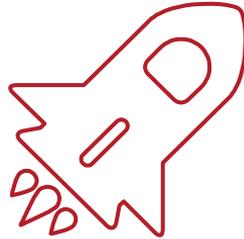
Student Competition 2024

The goal of SensUs



Vision

- Personalized medicine
- Monitoring health rapidly and accurately for everyone



Mission

- Stimulating the development of biosensors and education in a competitive manner

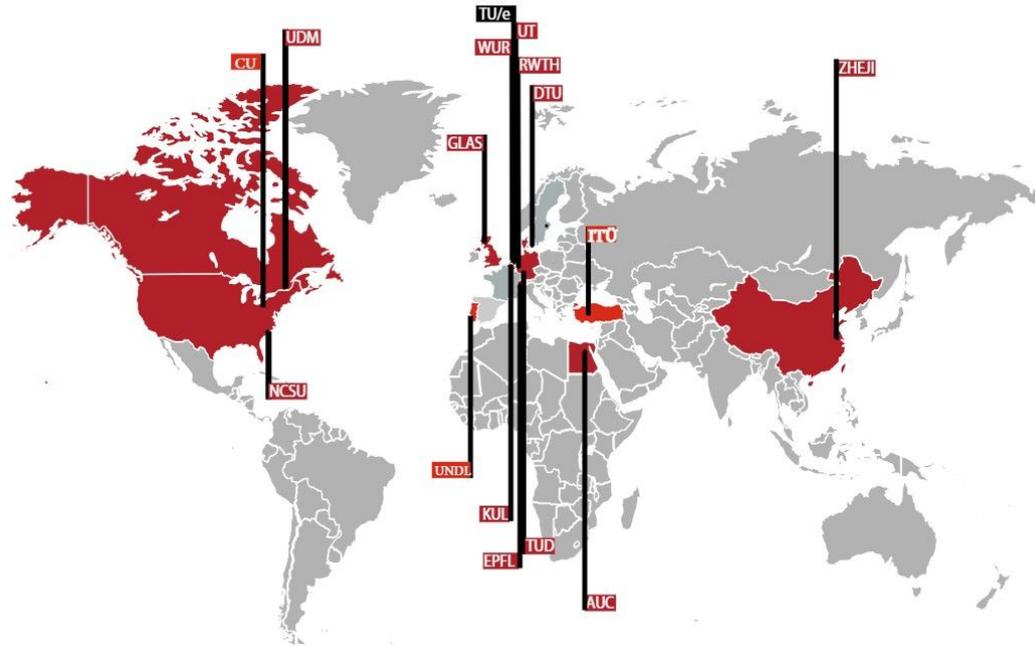


Objective

- Choosing a societally impactful theme and biomarker
- Collaborating with stakeholders to organize a great event

International student competition

11 Countries,
15 Universities



What have we done so far?



2016

Kidney failure

2017

Heart failure

2018

Antibiotics

2019

Rheumatic
disease

2020

Epilepsy

2021

Respiratory
viruses

2022

Acute
inflammation

2023

Traumatic
Brain Injury



SensUs

Aftermovie SensUs 2023



200 students
6000 voters



SensUs

Theme announcement video 2024



What are we going to do in 2024?



2016

Kidney failure



2017

Heart failure



2018

Antibiotics



2019

Rheumatic
disease



2020

Epilepsy



2021

Respiratory
viruses



2022

Acute
inflammation



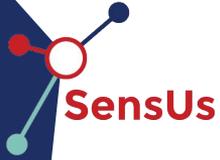
2023

Traumatic
Brain Injury



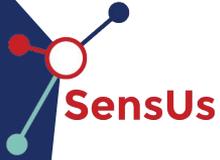
2024

Kidney failure
*with continuous
biosensing*



Acute Kidney Failure

- Kidney failure, also referred to as Acute Kidney Injury (AKI) characterized by one or both kidneys losing their renal function, namely the ability to filter waste matter from the blood.
- 10% of the population globally is affected by chronic kidney disease.
- Most common treatment for AKI is dialysis and kidney transplantation.



Why do we need a AKI biosensor?

- Healthy kidneys are responsible for filtering creatinine out of the bloodstream. Consequently, during kidney failure there is a buildup of high levels of creatinine in the blood.
- A biosensor could be designed to detect the creatinine levels accurately for diagnosing kidney-related conditions including kidney failure.
- Early detection enables prompt diagnosis and treatment.



What is in
it for you?



Learn how to design and build a biosensor



Get to know international teams and experts



Spread the word about your biosensor



Develop your business skills



Inspire and innovate!





SensUs

See you at the SensUs Event!