

# Comprehensive internationalization through digitalization, innovation and global-regional coproduction

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#### Partners and history of collaboration





- 2015
  UHR Contact Seminar in
  Colombia. We met both
  UdeA and UTP
- 2016 2017 Linnaeus-Palme initiation grants with both
- 2018 2020 Linnaeus-Palme partnership with UTP
- 2020 2022
   this STINT project with both partners
- 2022 applying for ICM with both partners



# High-level objectives of the project



- Strategic partnerships building strong and broad collaboration with some selected international partners. Applying MDU coproduction model in a broader international context.
- Virtual collaboration distributed student projects combined with short-term physical mobility, virtual mobility, lifelong learning with international partners,...
- Integrated internationalization integrating internationalization into education and research, supporting staff and students at home, developing organization and structure,...

# Kick-off in Sweden in January 2020



We stared with getting to know each other...



...and loaded with a lot of positive energy...



#### Kick-off in Sweden



Then we visited two industrial coproduction labs at MDU to get inspired...



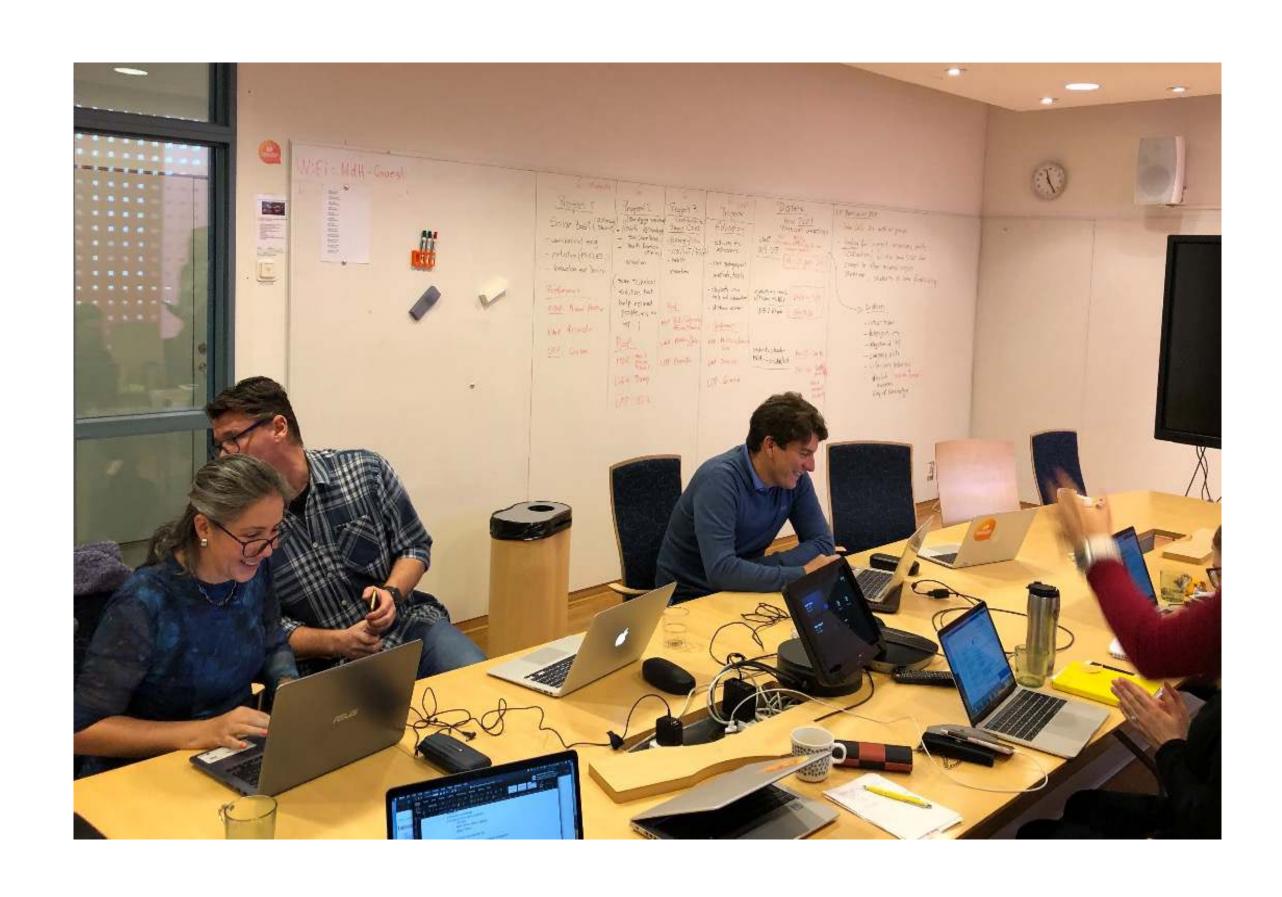




#### Kick-off in Sweden



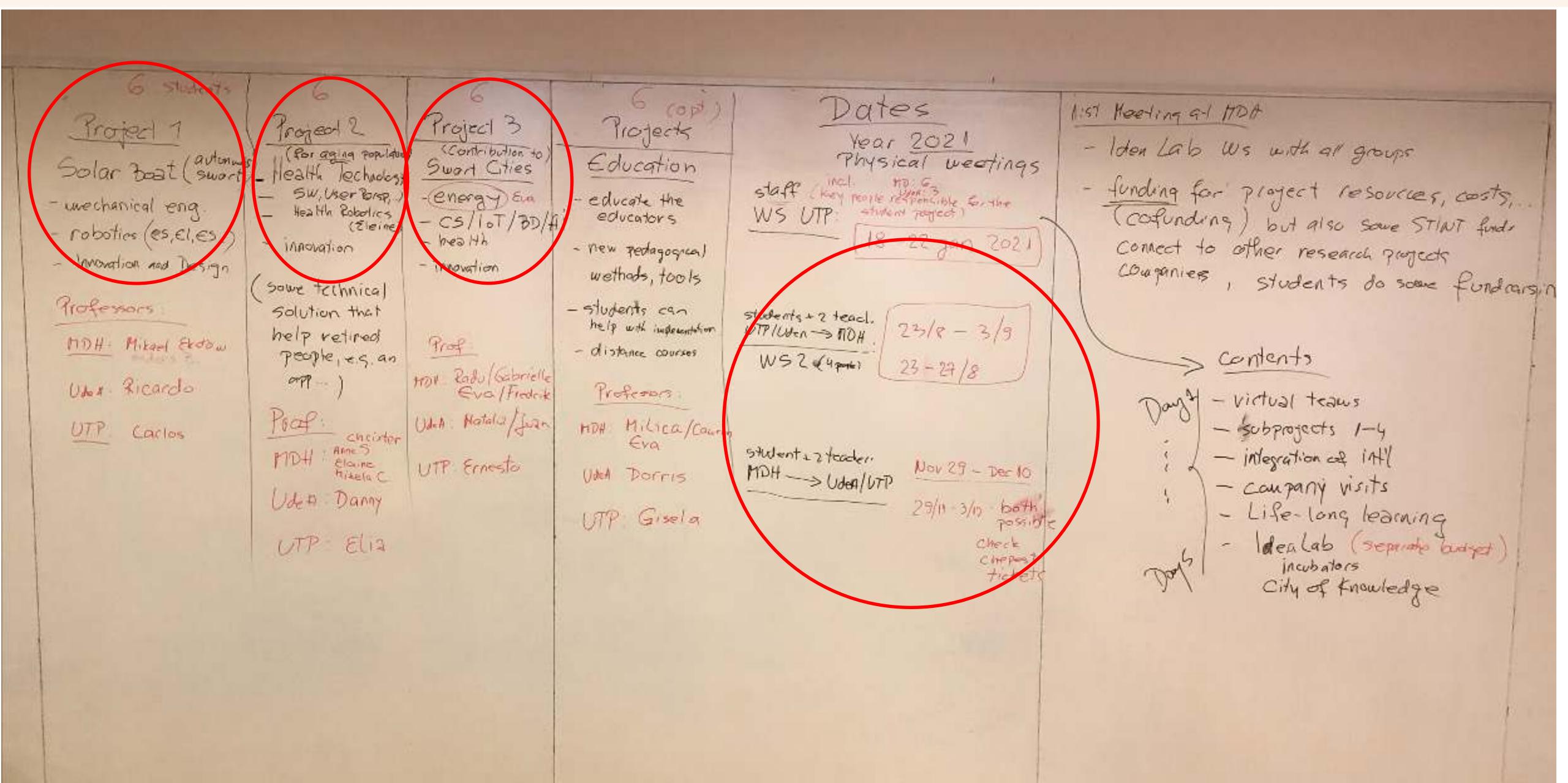
Finally, we we put out brains together to propose three distributed student projects





#### Kick-off in Sweden





#### Then everybody went home and remote collaboration started...

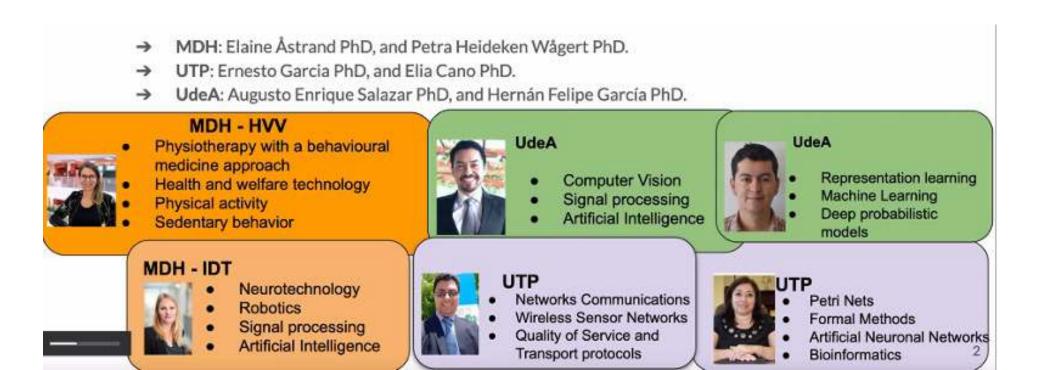


#### **AutoSail**





#### **Health Technology**



#### **Smart Rooms**



AD

UIA





Radu Dobrin

Fredrik Wallin



Sasi Punnekkat





Juan Marcos Castillo





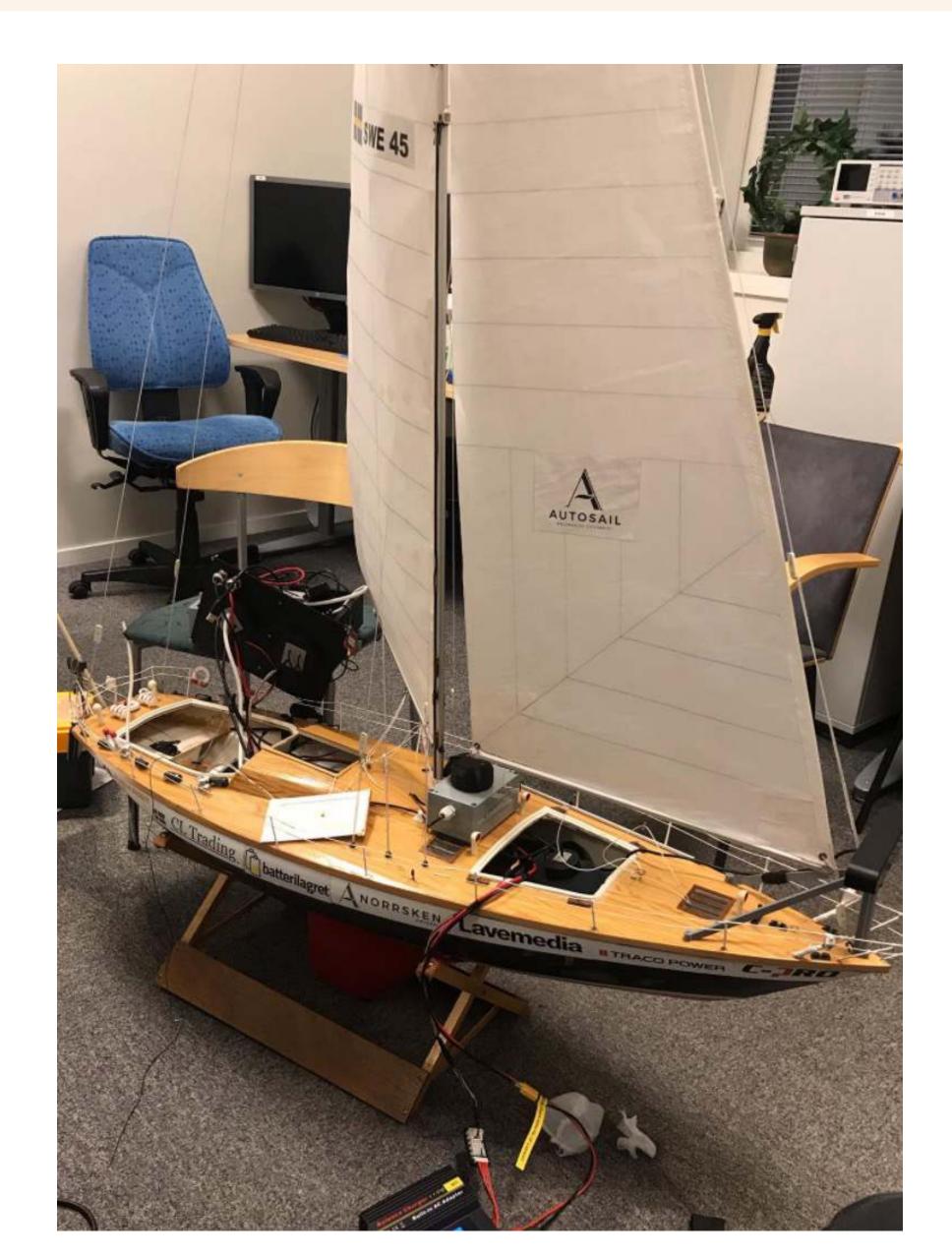
Juan Felipe Botero

#### **Steering Group**

Video meetings every two weeks (Fridays 15.00 Swedish time)

# Shortly after, first results emerged...





A small demonstrator boat was built and successfully tested at Mälaren lake...



#### The word got spread...



■ 2021-04-12 D News

# Autonomous sailing boats to replace our present cargo vessels?



In the student project AutoSail, students and researchers at MDH are working on developing an autonomous sailing boat.

In the student project AutoSail, students and researchers at MDH are working side by side on developing an autonomous sailing boat.

- If we can eventually replace the cargo vessels on the Atlantic with autonomous, self-propelling sailing boats



This week, Panama's ambassador in Sweden, Andrés Gregorio Núñez Sánchez, visited our C2 lab - a lab where several of our engineering students carry out projects together with our researchers, other



#### In November 2020, we organized a virtual seminar...





Many people from all three universities participated...



# So far so good!



...but then it started to go downhill due to covid-19...

• Physical workshop in Panama in January 2021 -> cancelled!

• Short-term student exchange in August 2021 → cancelled!

• We needed to act fast and find an alternative way to go on with the student projects...

# We organized a virtual 2-weeks workshop in August 2021

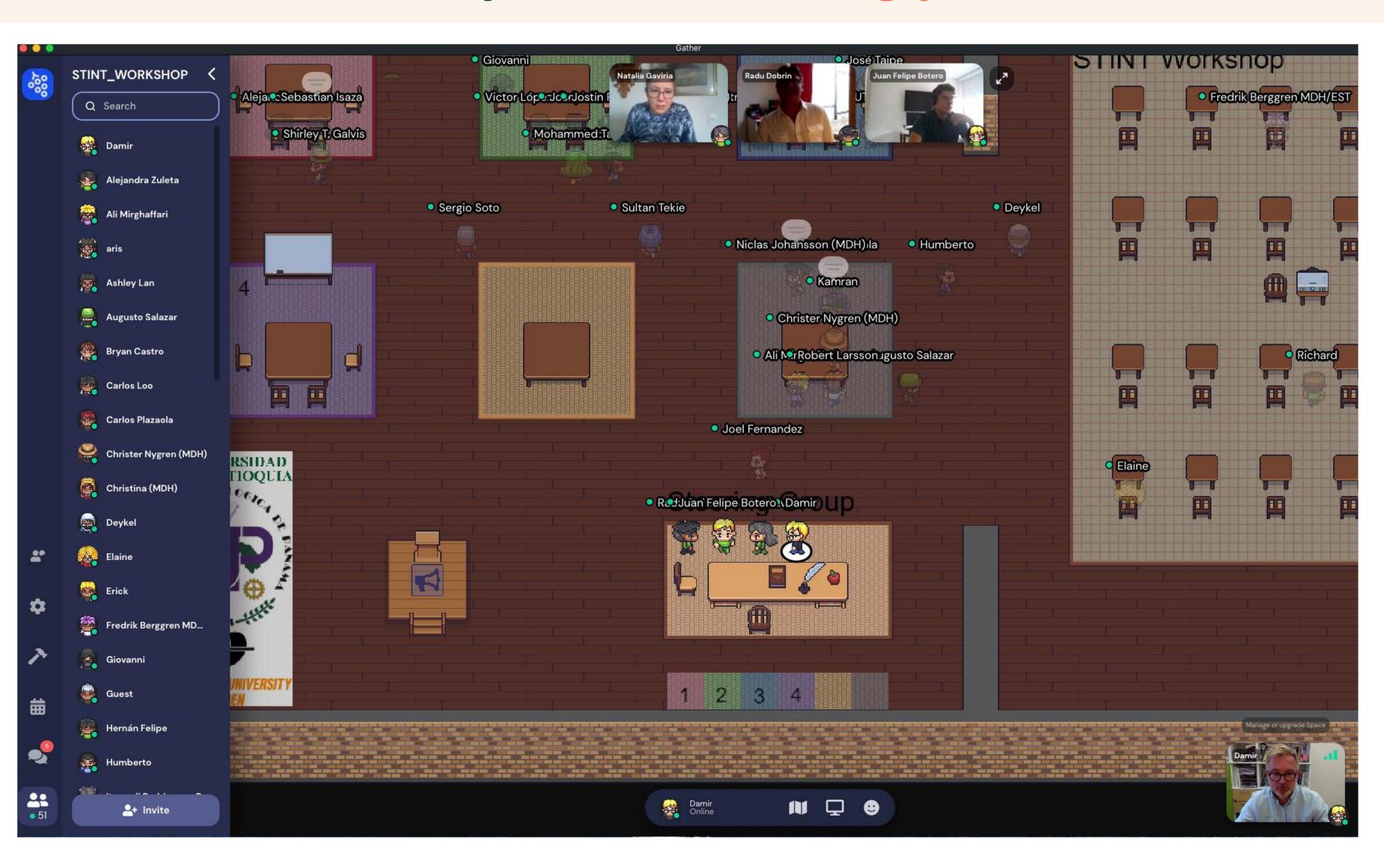


#### Easy to say, not so easy to pull of...

- Technical discussions complex technical issues sometime require face-to-face
- Integration some subsystems must be integrated in a real lab
- Time difference we can only meet a few hours per day (15-18)
- Lack of engagement other things in the background, easy to turn-off camera
- Technical challenges you need reliable network, meeting platform,...
- Cultural exchange having a beer over Zoom is not that exciting...

#### We decided to try a new meeting platform (Gather Town)



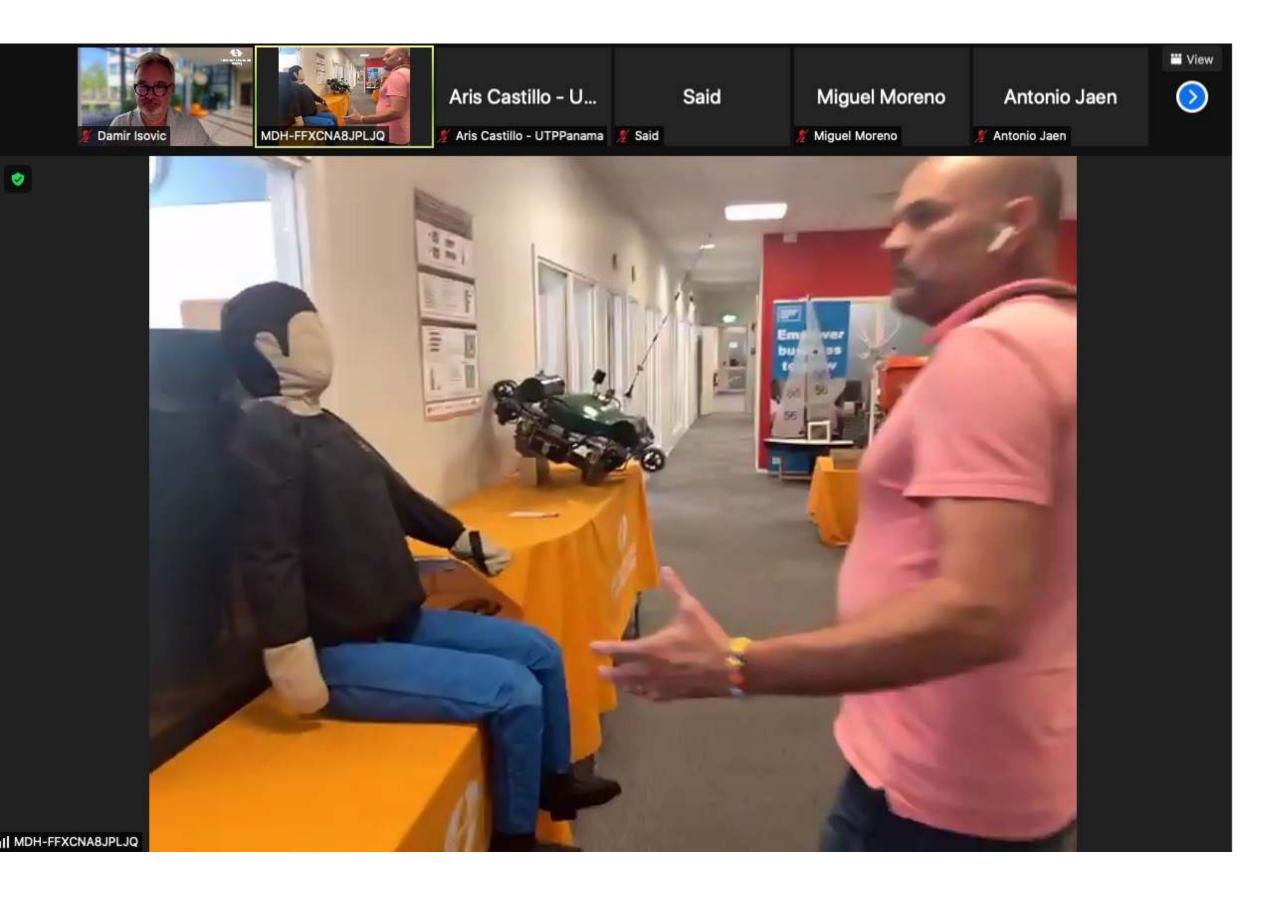


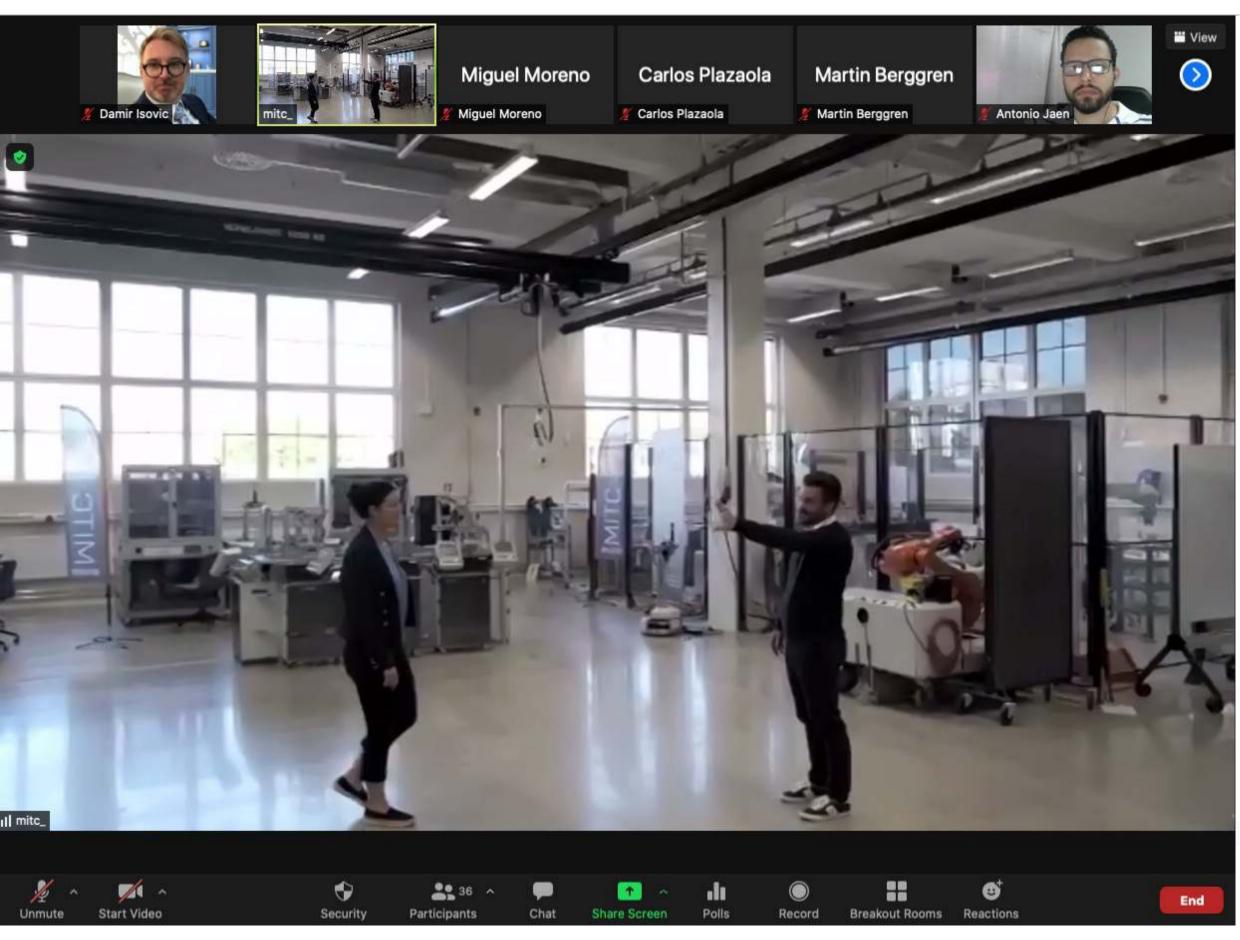
Virtual world where you can move with your avatar and enter different rooms

Each student project had an own room – the place to discuss and present results to others

# We organized virtual lab visits...



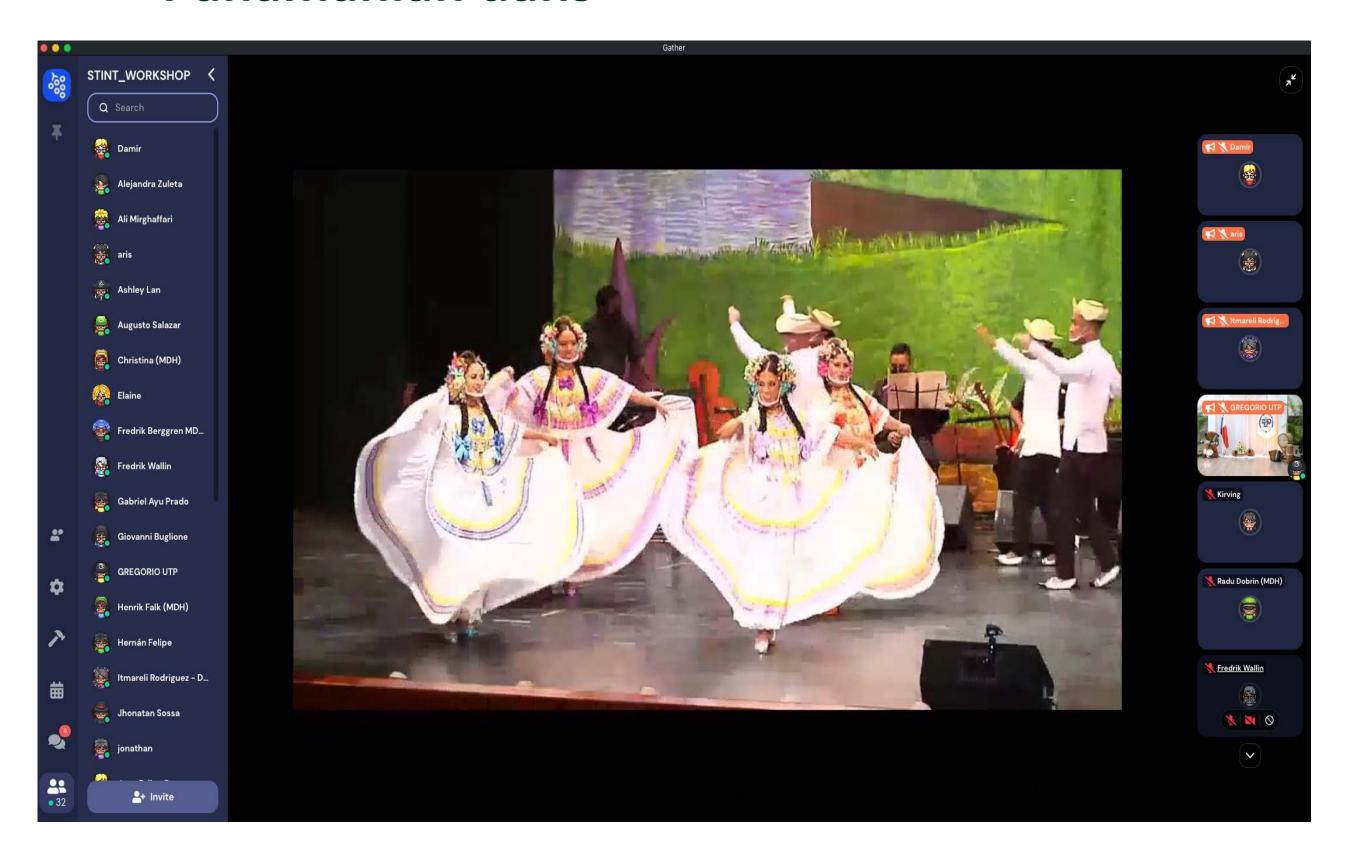




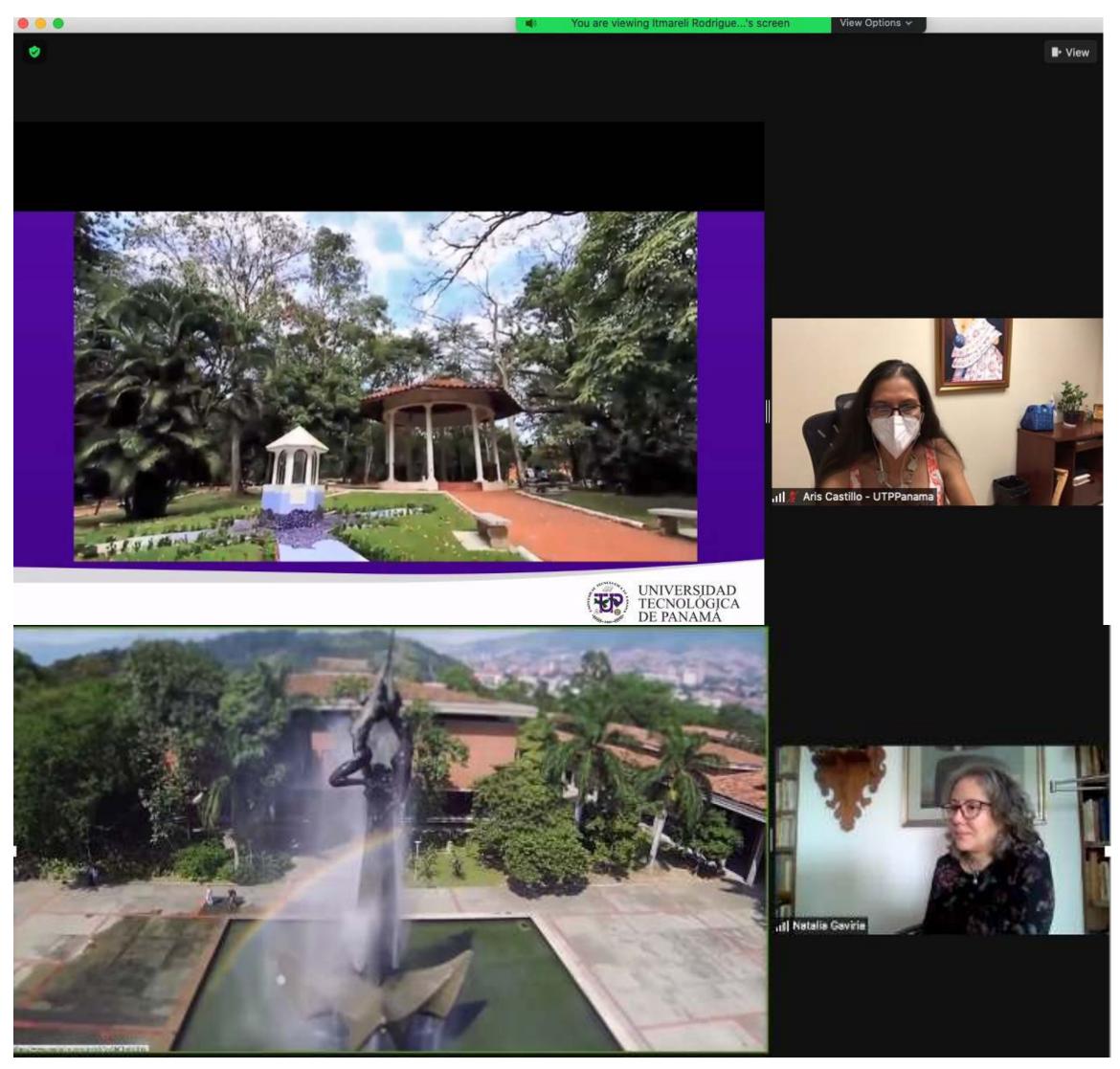
### ...and we had some meaningful social activities...



# Live streaming of traditional Panamanian dans



#### Virtual campus visits



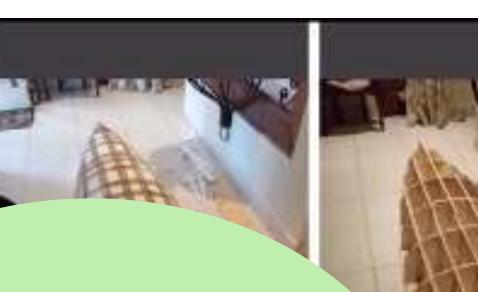
#### Most importantly, we made a significant progress with student projects...



Real smart room built in Sweden, to be connected to UdeA and UTP



Real boat built in <u>Panama</u>, we need to integrate MDU and UdeA results to make it autonomous







But now, we really need to meet physically!

Digital health
platform built in
Colombia, we need
to integrate MDU
and UTP results



#### Some other projects activities and outcomes...



So far, I presented mostly the activities related to student projects, which have contributed considerably to several overall project goals.

Of course, we discussed and implemented many other things in the project:

- Integration of internationalization at home universities
- Boosting up entrepreneurship and innovation
- Offering lifelong Learning courses to UTP, UdeA and their local partners
- Spin-offs, e.g. new project application and joint research initiatives

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#### New Action Plan for internationalization



| Activities  |
|---|
|   |
| Develop a model for integrating and following up internationalisation in the quality work (see e.g. EPAS model) |
|   |

| Goals   | Activities   |
|---|--|
|   | Investigate how international experience can form a basis for staff qualifications in appointments and promotions, as well as salary criteria.                     |
| Internationalisation forms the basis of staff qualifications. | Raise the question of internationalisation during performance reviews, make an agreement that time for mobility is planned into the work schedule where necessary. |

| Goals   | Activities   |
|---|--|
| The proportion of study programmes offering relevant outgoing and incoming student mobility is to increase in all areas of education. | Each area of education is to ensure that there are relevant study programmes within the area which have:  • at least one semester for outgoing student mobility  • at least 30 credits of continuous courses in English for incoming student mobility.  • at least three suitable international partners for mobility (agreements) |

#### Goal: to build a sustainable ecosystem for internationalization



This STINT project has already contributed to the most of all those things...

Some other things that we are currently working on:

- Internships Work placement abroad
- Talent attraction together with industrial partners
- Remote Labs virtual classroom to support LLL and online courses



#### To summarize...



#### This STINT project has been extremely valuable to us:

- o Broad collaboration more than <u>50 people</u> involved so far
- Virtual collaboration distributed student projects, remote labs, virtual exchange,...
- Short-term student mobility not yet but hopefully soon
- Comprehensive internationalization integration in our core business
- o Internationalization at home everybody that contributed to the project so far did it at home
- Entrepreneurship and innovation new innovation support organization at MDU
- Spin-off effects new project applications (ICM), joint research initiatives (publications),...

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• ...and we are only halfway in the project (hopefully, we will get extension;-)