

# HELMotion, our optimised podcast experience

Frédéric Senny



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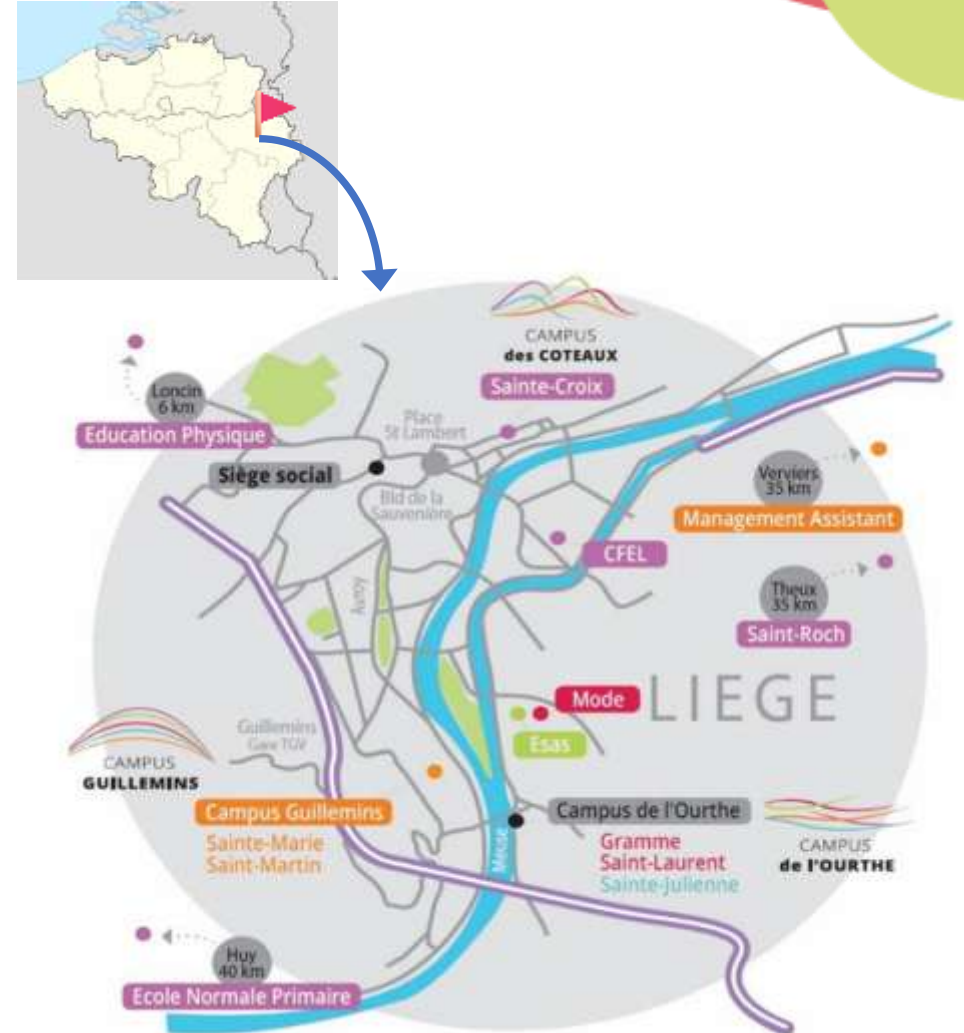


# Content

- Where are we ?
- Who we are ?
- Podcast, our story
  - A long time ago ... a seed was planted
  - It grew
  - It is now a nice tree, each branch with a purpose
- What's next ?
- Conclusions

# HELMo ? A Higher Education Institution in Liège

- ~10 000 students
- ~1000 teachers
- 5 departments
  - ♥ Economics
  - ♥ Informatics & Technics
  - ♥ Paramedical
  - ♥ Pedagogical
  - ♥ Social
- ♥ cross-functional services



# Our Happy E-learning Team

The Boss

Our R2 unit

Our Com' Lady

Me ☺  
Jedi Master

A funny Guy  
who helped me  
on this topic





# The podcast

- Podcast = i**Pod** + broad**cast**ing = audio/video file on the web for on-demand listening/viewing (Roland, 2013)
- Added values ?
  - [Teacher]
    - Keep a record of past courses (Temperman et al., 2009)
  - [Students]
    - Review, fill in personal notes (Temperman et al., 2009)
    - Mobile Learning (Caron et al, 2007)
    - Additional supports, « wherever – whenever » (Nataatmadja et al., 2008)
    - Inclusion (Lemarchand et al., 2009)

# The **podcast** @HELMo ? Think about a **garden** ...

2017

A first research  
*A first seed ...*



2020

First 6 rooms  
*... seeds grow ...*



2025

+ 3 rooms  
+ Dji mobile kit  
*... more and more ...*



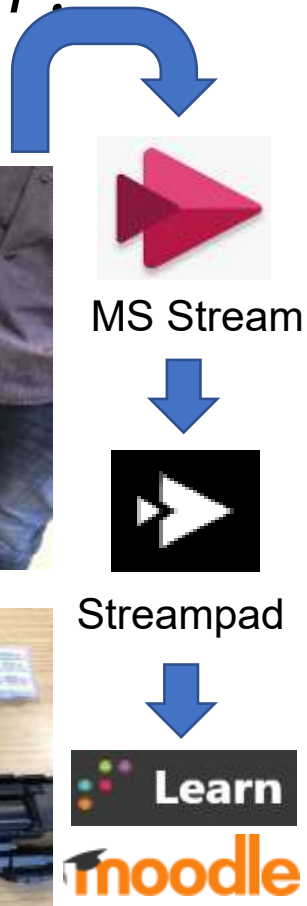
# The seed was planted in 2017 ...

**Our question :** *What about podcast in Higher Education ?*

- Mobile recording equipments (funded by the AdN)
- Development of [Streampad](#)
- Tested by some teachers

## **Results/Feedback ([report](#))**

- + Added value (revision, catch up, ...)
- 🏃 Students do not flee classrooms
- 💡 New ideas for teachers




# Design of the podcast garden @HELMo

- **Fences** 📋 : We defined what podcast is to us and clarified the concept to our colleagues
- **Flowers-vegetables-fruits** 🍏 🥬 🌸 : different uses
- **People** 👤 🧑 : E-team and colleagues
- **Tools** 🛠️ : In 2020, we chose Ubcast as fulfilling our technical needs

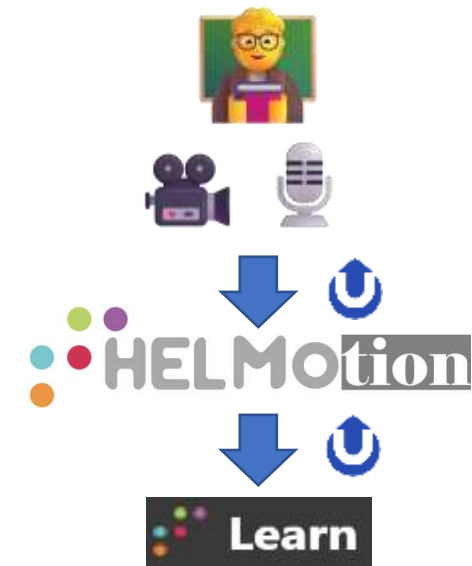
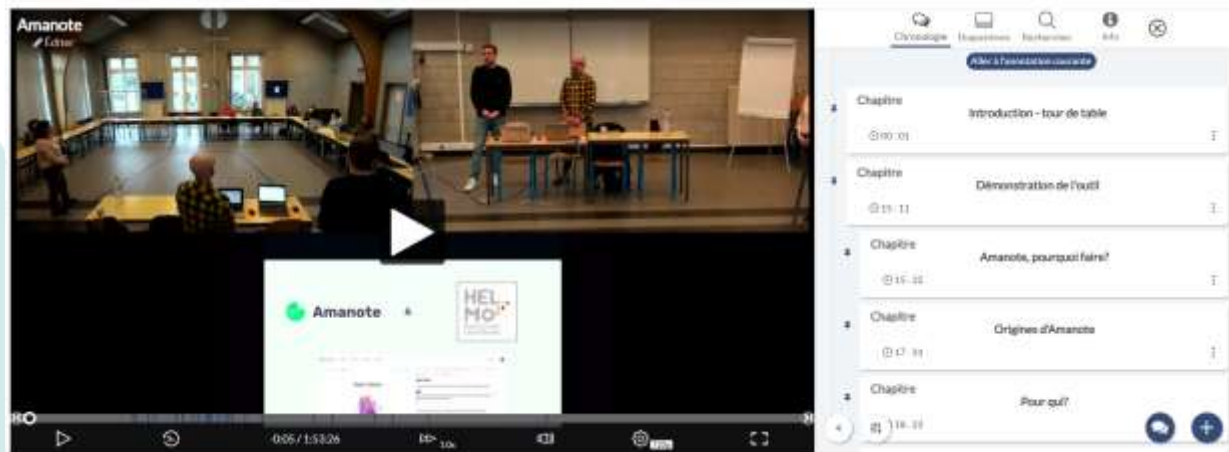




# Our setup in 2020

- 6 rooms equipped with camera and microphone
- Recording procedure in four steps 
- Media data pushed on HELMotion, powered by Ubicast
- Uses (colleagues' needs) : courses, conferences, ...

Equipped room :



# RRF as fertilizer and our setup grew in 2025

- RRF - Recovery and Resilience Facility - project started in 2023 until 2025
- It allowed to boost our setup
  - + 3 rooms, including 2 with tracking camera
  - New recording procedure including **QR code**
  - **Dji Osmo Pocket 3** recording kit for nomad uses
  - Training, support, dedicated Learn/Moodle spaces, ...
- So our ***flowers-vegetables-fruits*** 🍏 🥦 🌸 grew and cover many uses brought up from colleagues' needs ...

*Which ones for instance ?*

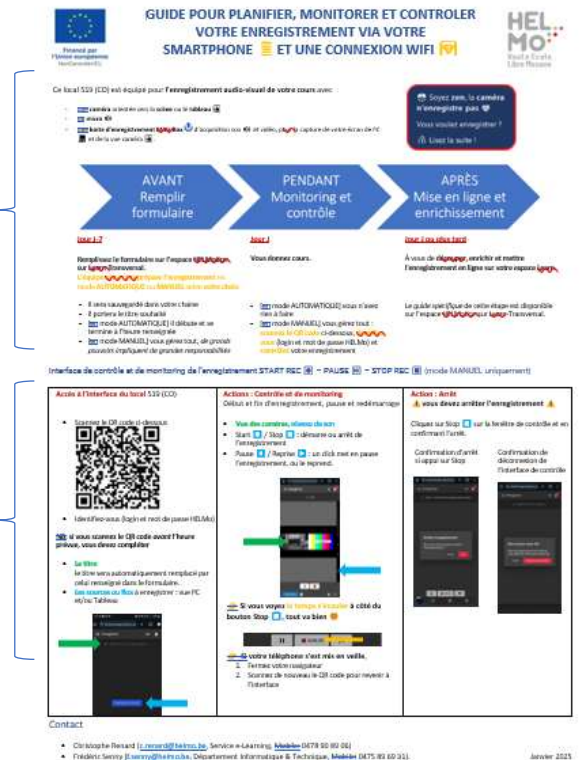
# The teacher-who-does-not-want-to-think-about-recording

- ... and is in an equipped classroom
- ... must follow the procedure (fill in a form to **schedule recording** )
- ... does not manage recording ( **automatic mode - no pause** )
- ... may cut some parts
- ... include its recording on the moodle course with Ubicast plugin



# The teacher-who-wants-to-manage-recording

- ... and is in an equipped classroom
- ... *may* follow the procedure (fill in a form to **prepare data recording** )
- ... does manage recording by scanning QR Code ( **manual mode** - )
- ... may *still* cut some parts
- ... include its recording on the moodle course with Ubcicast plugin





# The teacher-who-is-not-in-an-equipped-classroom



- ... but still needs a camera + microphone
- ... schedules a kit (1 per dpt) 📅
- ... uses the kit 😊
  - as a standalone camera/webcam so ... copy the files on computer 💻
  - use Ubcast plugin 📶 to record directly into the moodle course
- ... brings back the kit 😊
- ... may edit the video ✂️ 🎥



# The student-who-needs-a-camera



- ... same as previous use-case
- ... but cannot use the Ubcast plugin (does not have access to it, *teacher's role only*)



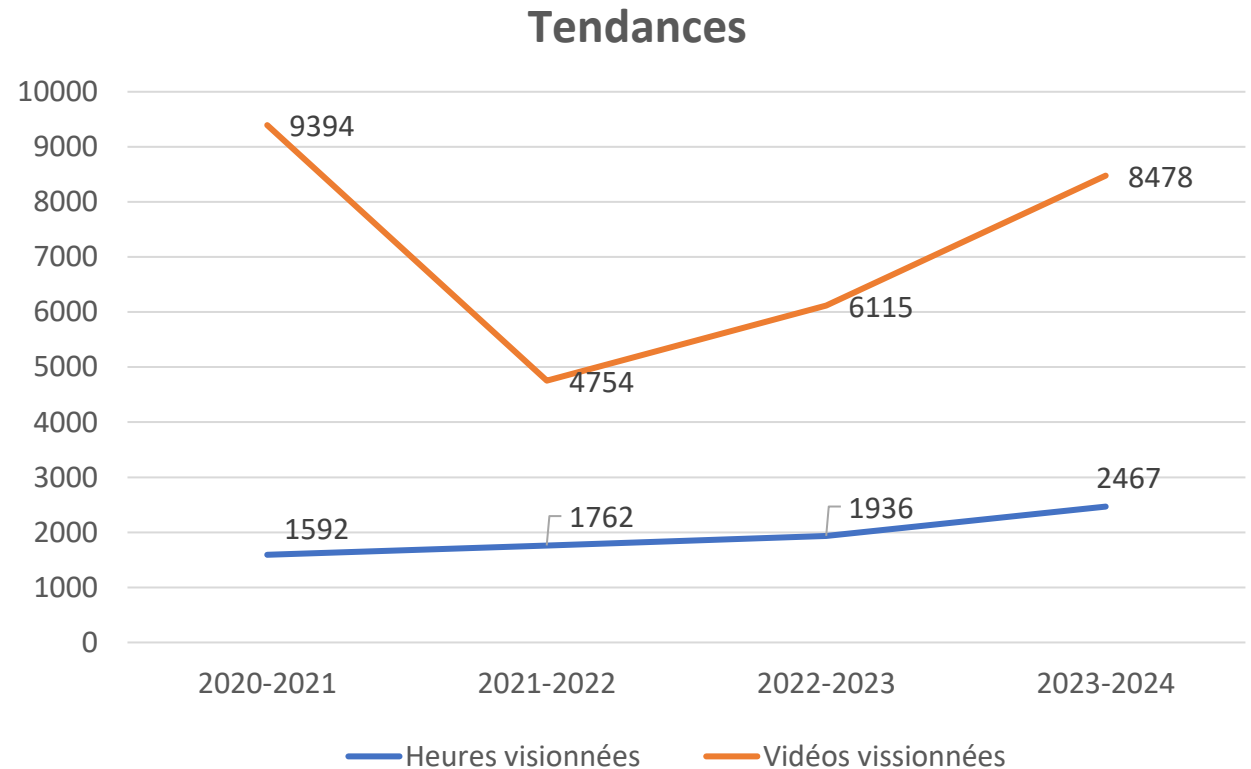
# The teacher-who-works-from-home

- ... is not in an equipped room
- ... has forgotten to schedule the Dji Osmo Pocket 3 kit
- ... still may use the WebStudio (Ubicast plugin) to record the computer screen

*Ok, how many videos are pushed on the HELMotion system ?  
How many views ? How long ? When is it used ? ...*

# Our uses with numbers

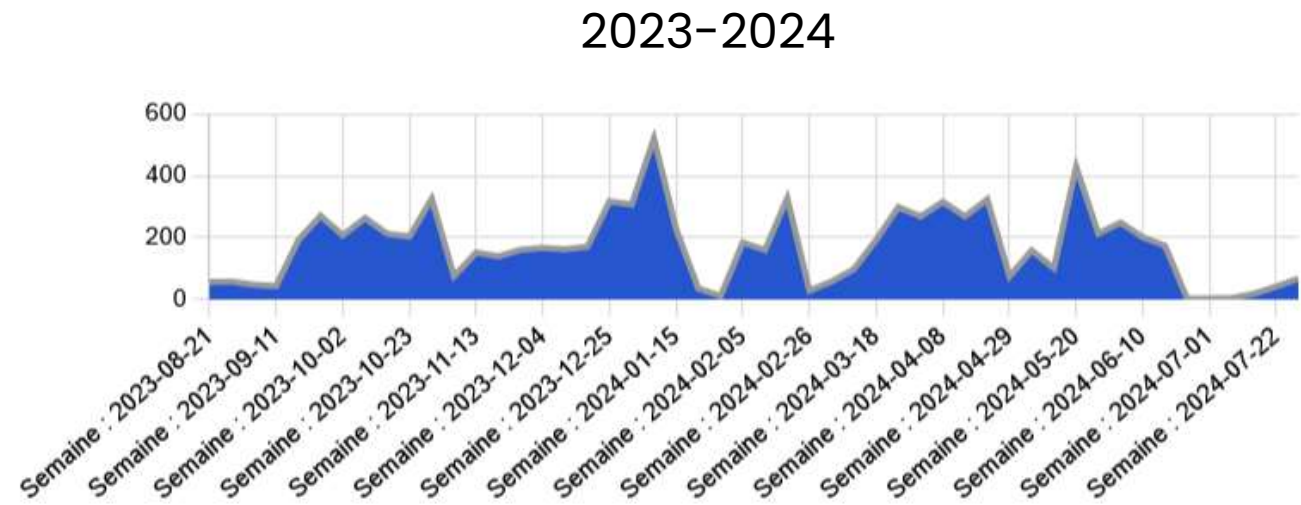
- 9000 videos
- 500 new media / year
- 2500 hours viewed
- 30 minutes average viewed per video (speed x1.7 😊 )





# Our uses with numbers

- Heavy use
  - October–December 
  - March–April 
  - January & June 
- Low use
  - End January 
  - July–August 



# Discussion – light and dark sides

- **[+] light side**



- Many uses covered
- Recording on-demand
- Platform used by teachers and students
- Storage well used (1,5TB)

- **[-] dark side**



- The use « Live transmission » is not covered
- not as full potential (not all courses are recorded, neither all the videos are viewed fully,...)
- Limited storage, hence video management (delete each new academic year, except on demand)

# What's Next ?

- ❑ QR code was used successfully in I&T departement; So deploy this functionality in all departments
- ❑ ⚙️ Python scripts to
  - ✓ Customise and automate tasks 💻
  - ✓ time saving for IT service, E-Team and teachers ⌚
- ❑ 💾 Storage Optimisation
  - ✓ Our IT service and e-learning team try to find a solution to store media on a custom and intern media server [WIP] 💻
- ❑ 📢 Promote our Podcast system and training
  - ✓ Communicate on every campus of HELMo 🎤
  - ✓ Training teachers 🎥

# Final thoughts

- Well-done to our Team, especially Christophe Renard (the funny guy) ! Thanks to the support of Ubcast / ESI / RRF (EU) to make it work
- Podcast and videos are a real need for students
- Wide variety of video uses
- Record-on-demand is respectful
- Our colleagues may pick (almost) whatever their needs
- Happy to share our experience



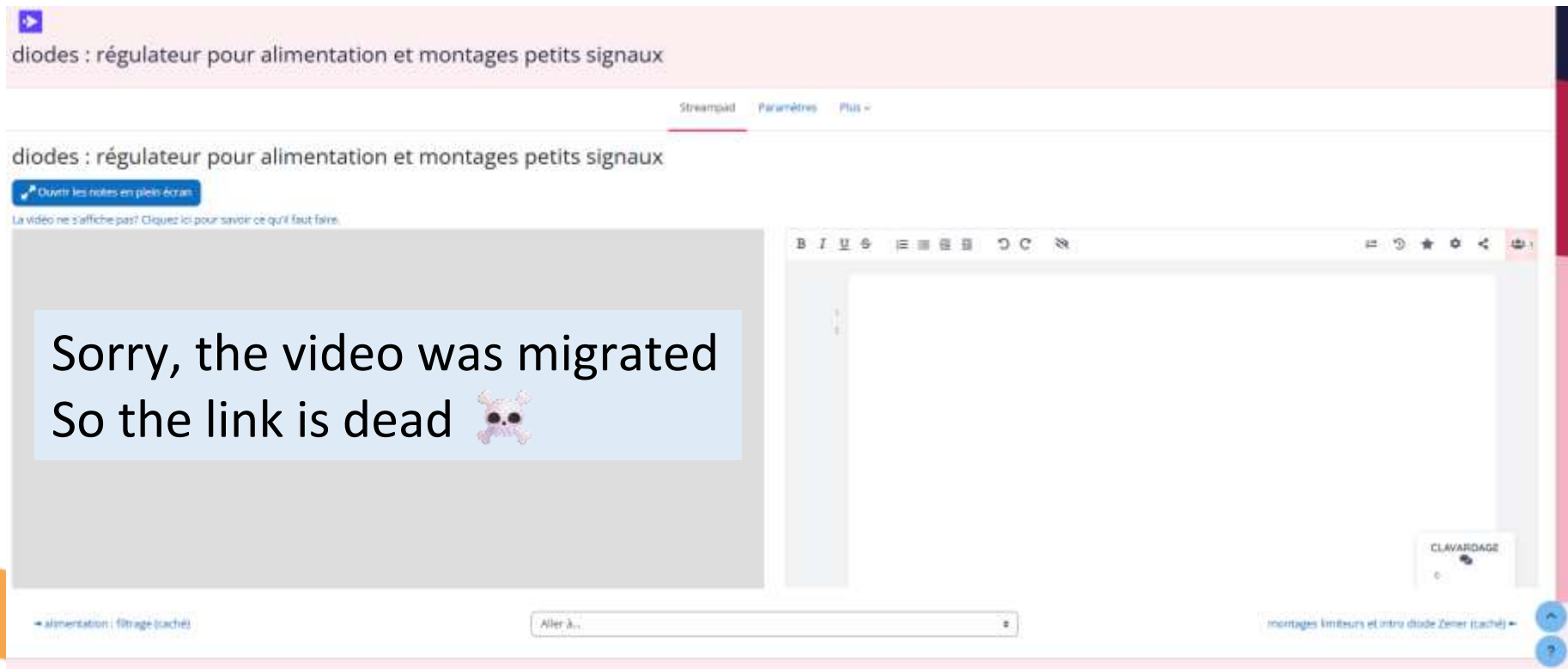
Thank you



[www.helmo.be](http://www.helmo.be)

# Streampad

- A custom plugin that integrate a video from Stream into our Moodle LMS



# How is podcast defined @HELMo (sorry in FR)

✓ C'EST :	✗ CE N'EST PAS :
du podcast un outil de diffusion d'un cours en <u>présentiel</u> qui a été enregistré	Pour donner un cours à distance
une activité HELMo Learn pas de droits d'accès à gérer, pas de vidéo à déposer,... Accessible uniquement aux personnes inscrites dans l'espace de cours.	pour donner un cours en comodal les étudiants à distance pourront visionner le podcast dès qu'il sera disponible
de riches possibilités d'interactions commentaires, chapitres, lien, pièce jointe, ...	pour faire du montage vidéo la diffusion est "brute"

# The 2 classrooms with tracking camera (Aver PTC310U)

The field of view of the the camera switches between 3 defined zones



👉 **Tracking** of teacher between left area ↔ center area ↔ right area

😬 If teacher's tracking is lost ➡ come back to center area and find someone to track