



Collaboration Module CESI-THM

3.5.2024

Prof. Dr.-Ing. Michael Arndt
THM



Schedule

- 10.30 until 11.00 Introduction to project 1 (only CESI students)
- 11.00 until 11.30 enrolling for the Moodle Course, entering the Zoom meeting
- 11.30 until 11.50 Welcome to the collaboration project (Michael, recorded),
Information about the group members (international, national groups)
- 11.50 until 12.30 Group Challenges (in Breakout Rooms)
- 12.30 until 13.30 Lunch break
- 13.30 until 14.30 Lecture on Operational Research (CESI, recorded)
- 14.30 until 15.30 Python Workshop (CESI, recorded)



Note #1

This event will be recorded and made available via the Moodle Course
after the event

There are already several recordings in Moodle, please feel free to use them...

Please change your **profile name in Zoom** according to this sample:

NAME [School, Location] => ARNDT [THM, Friedberg]

Note #2

This is a completely new course type and a challenging environment!

Please be patient and help us to identify difficulties and barriers.

We will do our best to get them out of the way during the course.

The key success factor will be **COMMUNICATION**

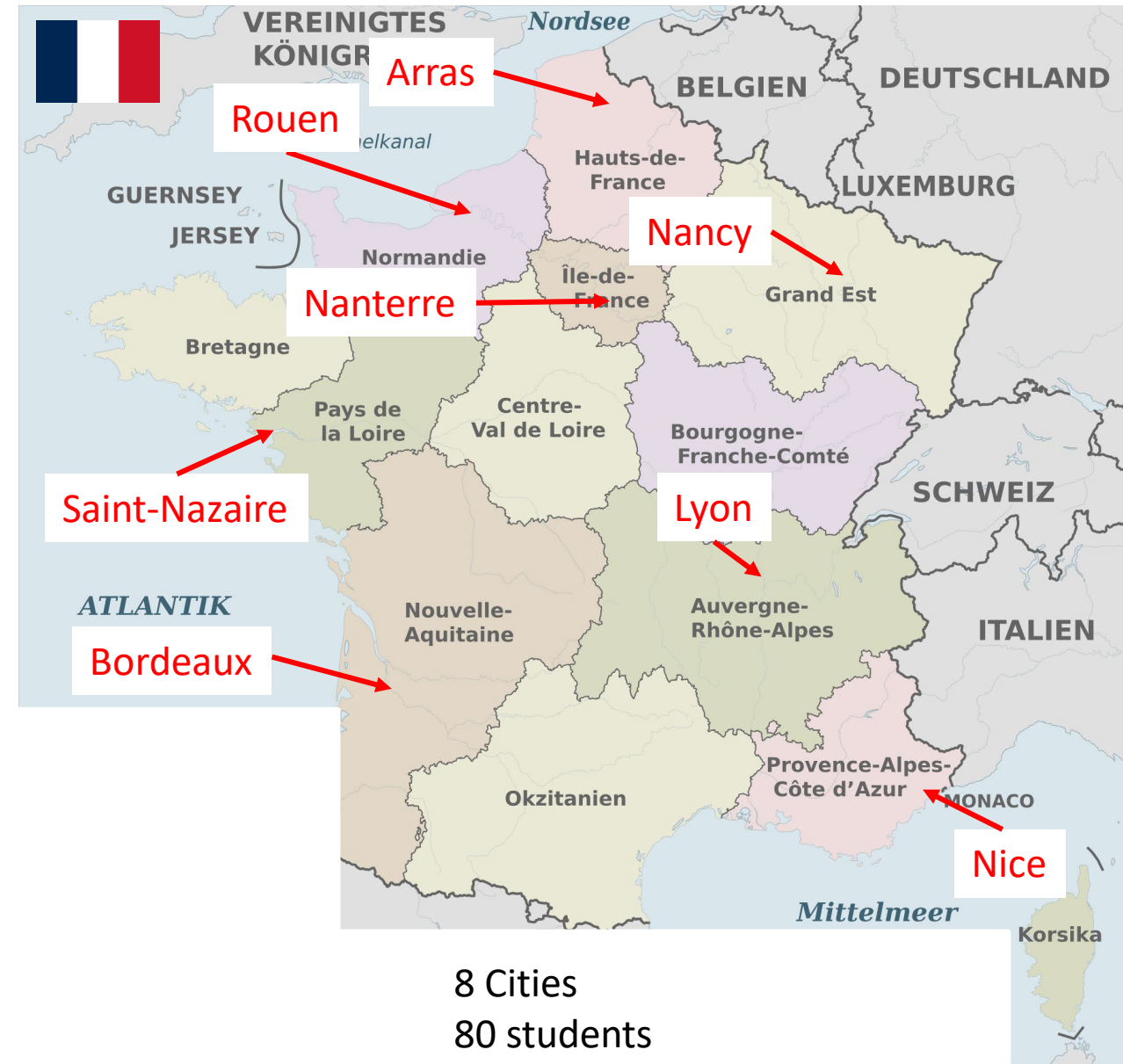
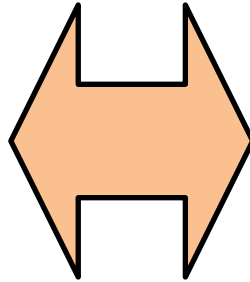
However, this project will still require a high level of independent working from you.



Locations and Numbers

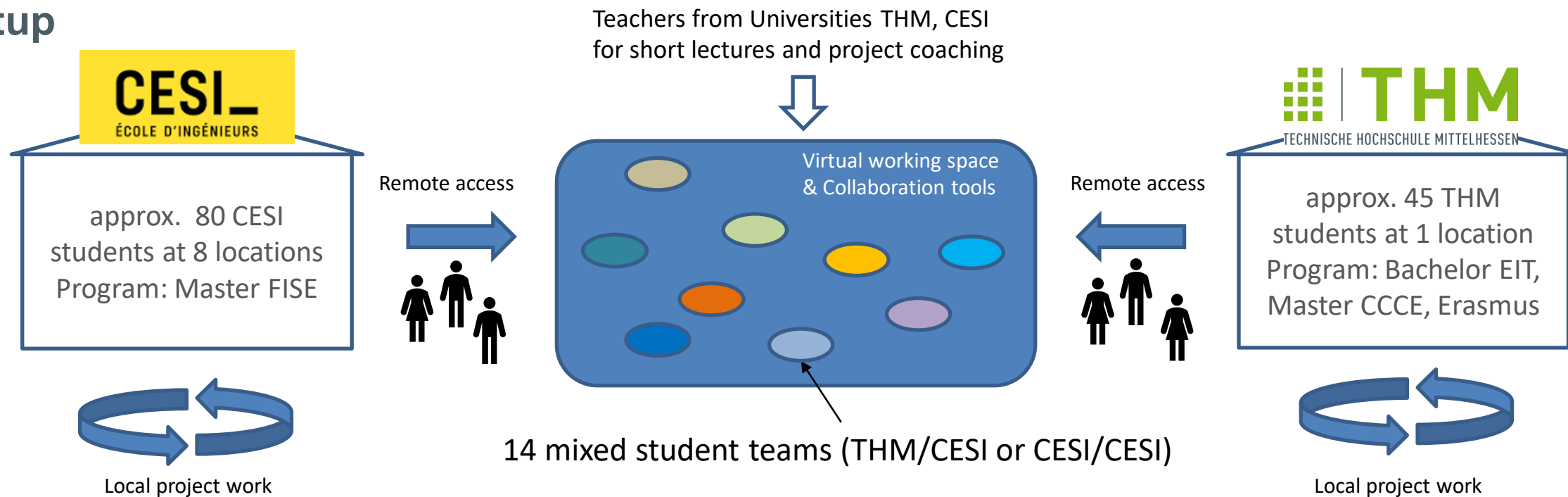


1 City
45 students

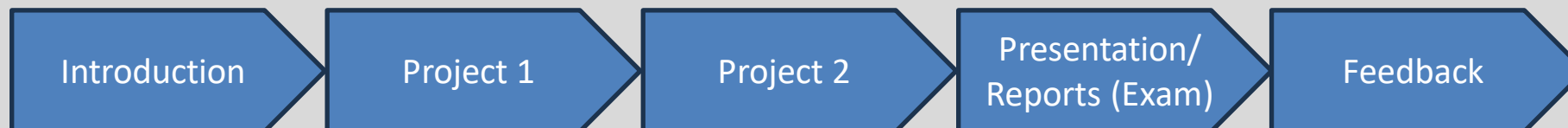


8 Cities
80 students

Setup

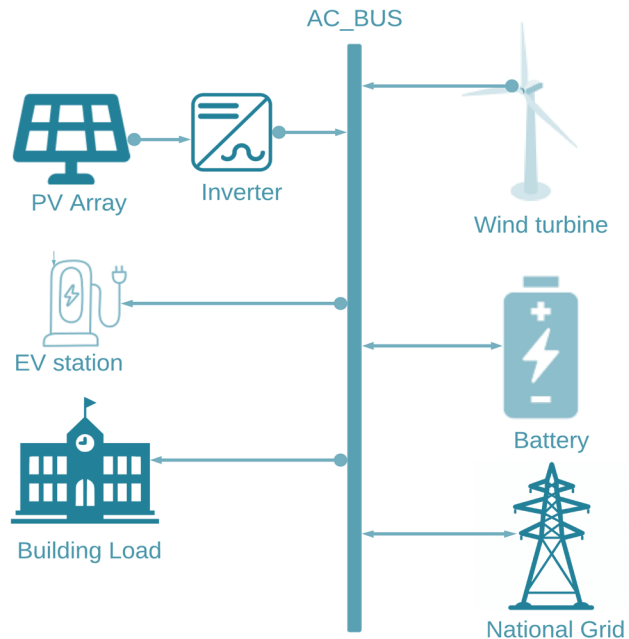


Focus: Project Management & Collaboration
Focus: Technical Project Work
Focus: Both



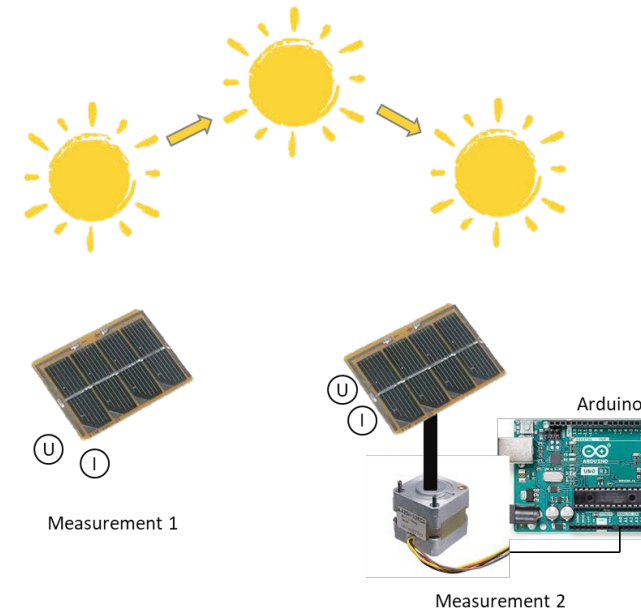
Project 1

- Using the programming language Python, data will be analyzed and a simulation of a microgrid management will be built.



Project 2

- Realization and investigation of a photovoltaic tracking installation.
- Carrying out several experiments with the tracking installation



You will receive more information about the projects during the course

Virtual Collaboration & Tools

Information/ Communication

- **Zoom**
- **Teams**
- **Moodle**
- Discord
- WhatsApp
- ...

Data Exchange

- **Moodle**
- Github
- WeTransfer
- OneDrive
- GoogleDrive
- Dropbox
- ...

Collaboration / Results

- **Google Docs**
- **Miro Board**
- **Zoom/Teams**
- **Whiteboard**
- **Moodle**
- Teams
- MS 365
- ...

Organisation / Management

- **Asana (free)**
- **Jira (free)**
- Google Docs
- monday.com (paid)
- ...

Many Tools are available for virtual collaboration. We have prepared a set of tools for you, but you can use additional tools in your project.



Evaluation

Evaluation of the course will be based on four elements:

- **Project report** consisting of a **project management part** and a **technical project part**
 - **Personal reflection** documents
 - **Final presentation** of the project
 - **Participation** in the team work and meetings
-
- More information about the evaluation of the course, you find in Moodles "Examination Guidelines":
 - <https://moodle-ext.thm.de/mod/page/view.php?id=8920>

International Groups (CESI-THM)

Please note your
group on a sheet of
paper !
You will need it soon!

Overview Group Members (THM-CESI Groups)			
Prof. Arndt Arras01 - THM01			
THM	THM Course	CESI	Location
von Collas	EIT	Turpin	Arras
Valmary	CCCE	Oddin	Arras
Sulaiman	CCCE	Normand	Arras
Katzer	EIT		
Dietzel	CCCE		
Prof. Arndt Bordeaux07 - THM02			
THM	THM Course	CESI	Location
Welegergs	CCCE	Bellouin	Bordeaux
Savranoglu	EIT	Noel Moucheux	Bordeaux
Keceli	EIT	Tarbourich	Bordeaux
Joseph	CCCE	Willer	Bordeaux
Chhotala	CCCE		
Prof. Penirschke Lyon08 - THM03			
THM	THM Course	CESI	Location
Wiese	EIT	Ben Frej	Lyon
Takacs	Erasmus	Couroubas	Lyon
Mkretschjan	CCCE	Heuveners	Lyon
Manson	CCCE	Magliocca	Lyon
Kakadiya	CCCE		
Prof. Arndt Nancy12 - THM04			
THM	THM Course	CESI	Location
Petruskevic	Erasmus	Urbanc	Nancy
Moula	CCCE	Rousseau	Nancy
Jochim	CCCE	Mellard	Nancy
Hartwig	EIT	Gambetti	Nancy
Dirks	EIT		

Prof. Arndt Nanterre14 - THM05			
THM	THM Course	CESI	Location
Solanki	CCCE	Tourchon	Nanterre
Sivkovich	EIT	Ngounou Kotchap	Nanterre
Kress	EIT	Madzela	Nanterre
Krätschmer	EIT	Chetara	Nanterre
Köprülü	CCCE	Carn	Nanterre
Komar	CCCE		
Prof. Penirschke Nice17 - THM06			
THM	THM Course	CESI	Location
Simmons	EIT	Rhammar	Nice
Salman	CCCE	Kabbaj-Bacri	Nice
Malkmus	CCCE	Abdel-Sater	Nice
Kaze Nanda	EIT		
Binder	EIT		
Prof. Penirschke Rouen18 - THM07			
THM	THM Course	CESI	Location
Tapun Sandjeu	EIT	Gosselin	Rouen
Kamgaing	EIT	Hauguel	Rouen
Hampe	CCCE	Oska	Rouen
Bolla	CCCE		
Prof. Penirschke StNazaire20 - THM08			
THM	THM Course	CESI	Location
Bandhamravuri	CCCE	Chauvelin	StNazaire
Beckmann	CCCE	Kouadio	StNazaire
Dongmo Teguetsa	EIT	Ouattara	StNazaire
Fekete	EIT	Njanga Etouke	StNazaire
Medjoguim	EIT		

National Groups (CESI-CESI)

Team Arras02-Bordeaux04

NomPersonne	PrenomPersonne	Ville	Group
FROMANT	Baudouin	Arras	2
SEGRS	Eugénie	Arras	2
WAFO KENGNE	Kylian	Arras	2
BARDEY	Emilie	Bordeaux	4
LEA	Enzo	Bordeaux	4
QUANTIN	Oihana	Bordeaux	4
TREMONT	Baptiste	Bordeaux	4

Team Bordeaux05-Lyon10

NomPersonne	PrenomPersonne	Ville	Group
BOYER	Tristan	Bordeaux	5
MOREAU	Mathieu	Bordeaux	5
ROUX	Benjamin	Bordeaux	5
VALZER	Yann	Bordeaux	5
CANALE	Ugo	Lyon	10
FALL	El Hadji Saibatou	Lyon	10
TIMENE NAGOLOUM	NAOMIE	Lyon	10

Team Bordeaux03-Nice16

NomPersonne	PrenomPersonne	Ville	Group
BARBALAT	Lucie	Bordeaux	3
GRASSET	Yann	Bordeaux	3
PALVADEAU	Jules	Bordeaux	3
THIOU	Jeanne	Bordeaux	3
ABDELKEFI	Rémy	Nice	16
BOUHLEL	Safwane	Nice	16
NAVARE	Nicolas	Nice	16

Team Bordeaux06-Nancy11

NomPersonne	PrenomPersonne	Ville	Group
MOTI	Pierre	Bordeaux	6
SAVARY	Gaël	Bordeaux	6
VIDAL SAINT ANDRE	Eloi	Bordeaux	6
BOULAY	Roman	Nancy	11
ELMAAROUFI	Salma	Nancy	11
KAUFMANN	Noé	Nancy	11
VOLBART	Rémi	Nancy	11

Team Lyon09-StNazaire19

NomPersonne	PrenomPersonne	Ville	Group
BOUAYSS	Wael	Lyon	9
DELAGARDE	Julien	Lyon	9
KINSONA	Bénie	Lyon	9
ROBERT	Raphael	Lyon	9
GOLLY	N'dja-Nanweley	Saint-Nazaire	19
JEGU	Pierre-Antoine	Saint-Nazaire	19
YEO	Domikan	Saint-Nazaire	19

Team Nancy13-Nanterre15

NomPersonne	PrenomPersonne	Ville	Group
MARCHAND	Tom	Nancy	13
MEYER	Maxime	Nancy	13
NTCHINOU CHEKZO	Okrein-Emmanuella	Nancy	13
DUROT	Jules	Nanterre	15
DURRANI	Faizaan	Nanterre	15
GUEDJ	Raphaël	Nanterre	15
LAÏB	Kahil	Nanterre	15
MOQADDEM	SAMI	Nanterre	15
ZIRI	Bissou-Patrick	Nanterre	15

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Zoom Breakout Rooms

Please note your
Breakout Room
Number on a sheet
of paper !

Breakout Room Number	Student Team
1	Arras01 - THM01
2	Arras02 - Bordeaux04
3	Bordeaux05 - Lyon10
4	Bordeaux07 - THM02
5	Lyon08 - THM03
6	Nancy12 - THM04
7	Nanterre14 - THM05
8	Nice17 - THM06
9	Rouen18 - THM07
10	StNazaire20 - THM08
11	Bordeaux03 - Nice16
12	Bordeaux06 - Nancy11
13	Lyon09 - StNazaire19
14	Nancy13 - Nanterre15
15	Teacher
16	Reserve

Group Challenge 1 - Find a name for your team

The task is to find a name for your team.

Follow these steps to define a name for your team:

- Discuss, if your team has any **special characteristics or commonalities**. These should be part of your team name. (Example: You all like "swimming")
- Find an **animal** which all of your teammembers like. (Example: You all like "snakes")
- **Combine** the results of 1. and 2. to your new teamname. (Example: "The swimming snakes")
- Please tell us your teamname by **entering it into the Zoom chat** together with your two locations. (Example: The team from THM and Nancy wants to be called "The swimming Snakes").

Understood?

OK, then lets make it a bit more difficult in the next task...





Group Challenge 2 - Paint a Picture together

Generate a picture that represents your **two locations/towns and your team** on one page! Put your **team name** on top of this picture. The picture will be presented to all groups later this day.

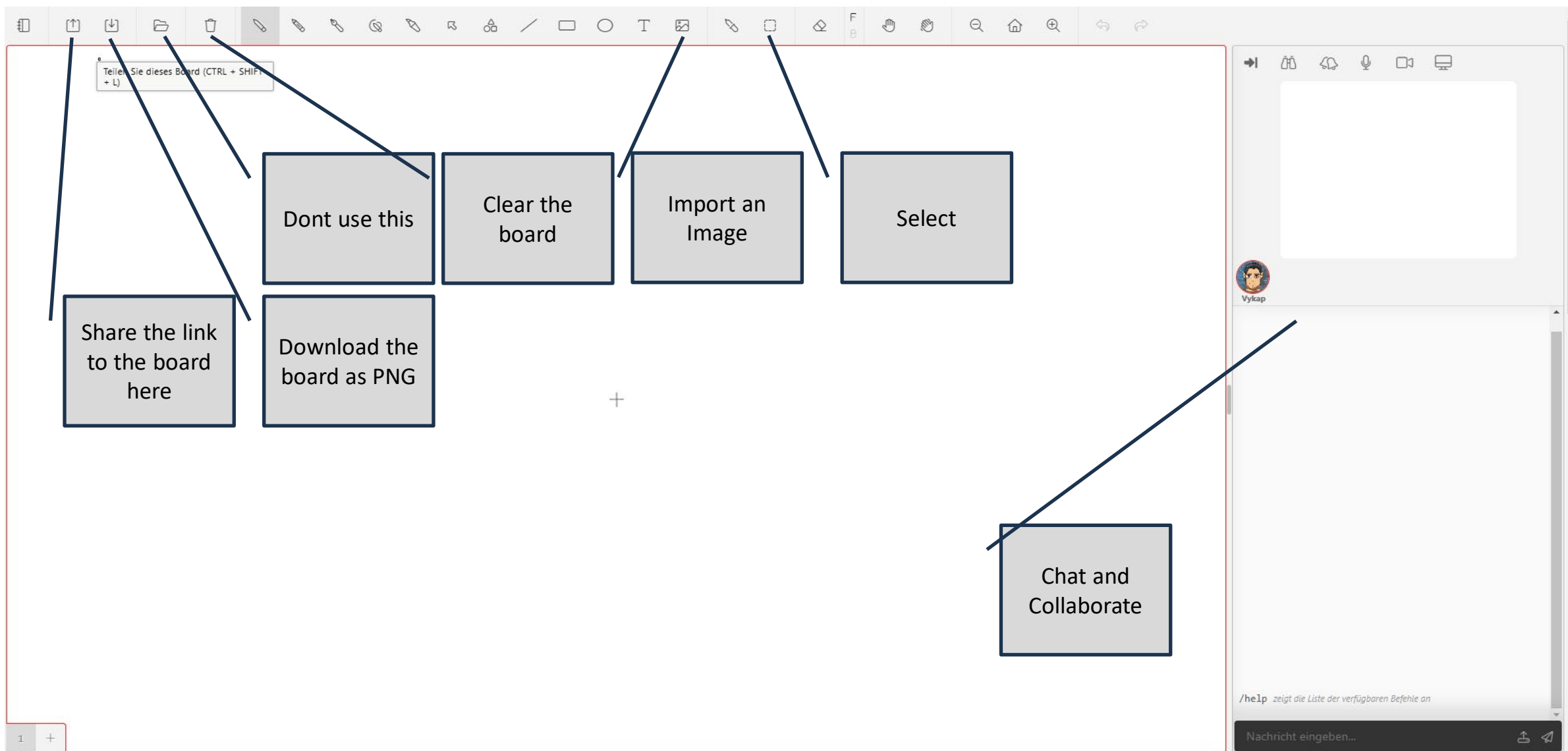
You can use the following tool to generate this picture: <https://draw.chat/> (It takes some time until the board is available)

You can draw, paint or combine photographs or any other media that you think is helpful.

You must be able to upload this picture as a jpg, png or pdf file to our moodle course (1 picture per group).

When you are ready, please submit your picture here:

<https://moodle-ext.thm.de/mod/assign/view.php?id=8944>



The screenshot shows a digital whiteboard interface with a toolbar at the top and a sidebar on the right. Annotations with arrows point to specific features:

- Share the link to the board here**: Points to the 'Teilen' (Share) icon in the toolbar.
- Download the board as PNG**: Points to the 'Download' icon in the toolbar.
- Dont use this**: Points to the 'Erstellen' (Create) icon in the toolbar.
- Clear the board**: Points to the 'Löschen' (Delete) icon in the toolbar.
- Import an Image**: Points to the 'Importieren' (Import) icon in the toolbar.
- Select**: Points to the 'Auswählen' (Select) icon in the toolbar.
- Chat and Collaborate**: Points to the chat area in the sidebar.

A tooltip in the top left corner reads: "Teilen Sie dieses Board (CTRL + SHIFT + L)".



Backup Slides

Moodle Course - Enrolment

Attention: This is a course in the external THM Moodle system. Therefore, you must first register in the external Moodle and then dial into the course.

Step 1:

Register on THM's external Moodle platform using the following link: <https://moodle-ext.thm.de/login/index.php>
(You can change the language at the bottom of the page).

Then go to “Use your user account at CAS” (green bar). Log in with your THM account.

Step 2:

Go to the Homepage (Startseite) (at the top next to the THM logo).

On the Homepage, scroll down to the “Search Courses” box

Enter “**CESI-THM**” in the field. The course “Cooperation CESI-THM” is now available.

Register for this course with the password “**CESITHM24**”.

Moodle Course Content

- Organisational Information
- Group Assignment
- Lecture videos and notes
- Platform for Data Exchange with french students
- Information about the projects
- Upload of reports for examination

Cooperation CESI-THM

Course Settings Participants Grades Reports More ▾

> General

> Lectures Hidden from students

> Virtual Cooperation

> Student Teams Area Hidden from students

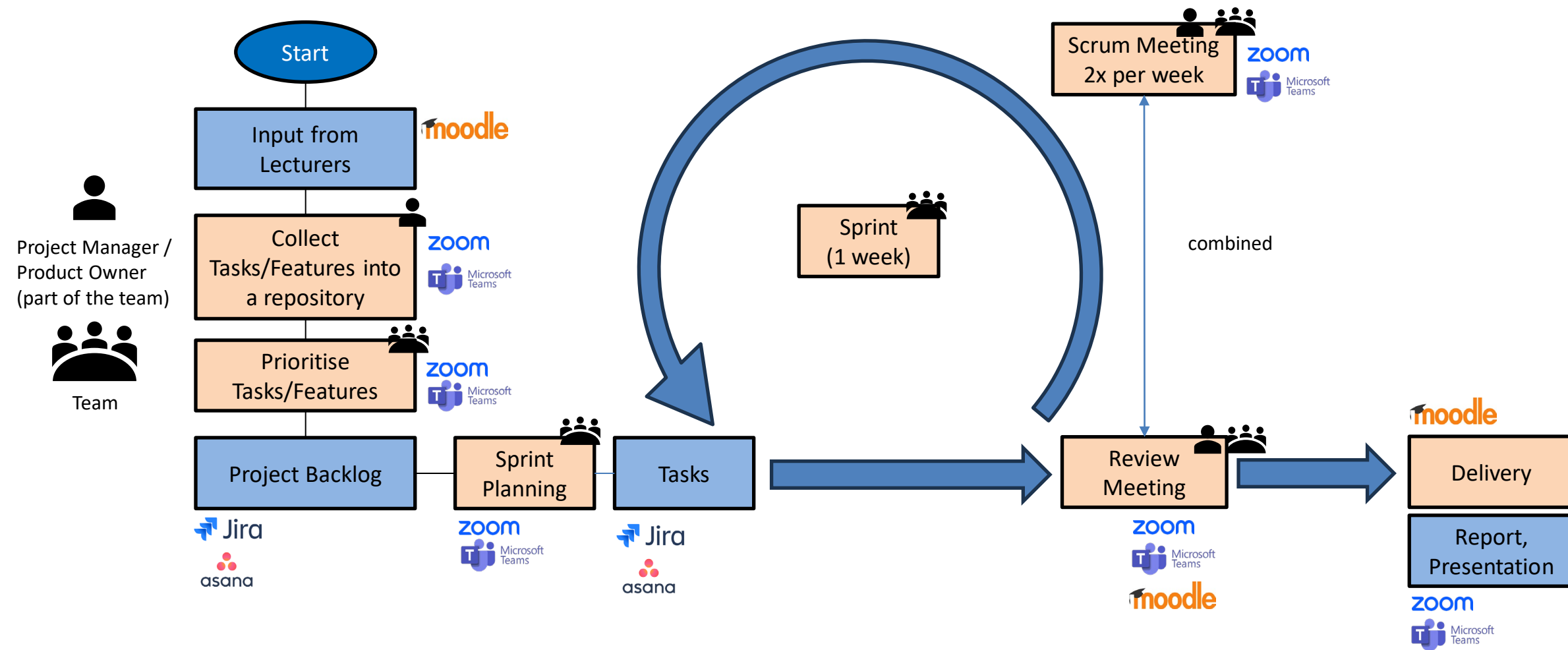
> Project 1 - Operations Research and Smart Grid Hidden from students

> Project 2 - Energy Performance Hidden from students

> Course Organisation Hidden from students

Task: Activity to be done by someone
Feature: Characteristic of the end result

Proposed Working Mode and IT Tools



THM Schedule (weekly)

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8.00 - 9.30					
9.45 - 11.15					
11.30 - 13.00					Presence Time
13.00 - 14.00				Consultation	Presence Time
14.00 - 15.30					Presence Time
15.40 - 17.10					
17.20 - 18.50					

Time for Collaboration (self organized)
Time for Consultation (Prof. Arndt, Prof. Penirschke)
Presence Time (Lectures, Plenum, Collaboration)

Individual Consultation by Appointment

The Open Consultation Meeting will be published in Moodle until Monday