SKIL

Student Creativity and Innovation Laboratory

A new educational infrastructure for ENAC students.

A workshop environment for bottom-up, hands-on projects

– in the framework of Projeter Ensemble

S**K**IL

Student **K**Creativity and Innovation Laboratory

What do we want to achieve?

**We want to create an environment that, for a fraction of our students time:**

◆ **Allows to break with standard, top-down, professor-driven teaching**

◆ **Allows to train 'softer' skills: Creativity,**
Initiative,
Group-work,
Planning,
Communication..

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The physical frame-work – the SKIL building:

15 meters

- ✧ **15 containers**

- ✧ **About 200 m² functional space**

- ✧ **Think of it as an atelier or workshop**
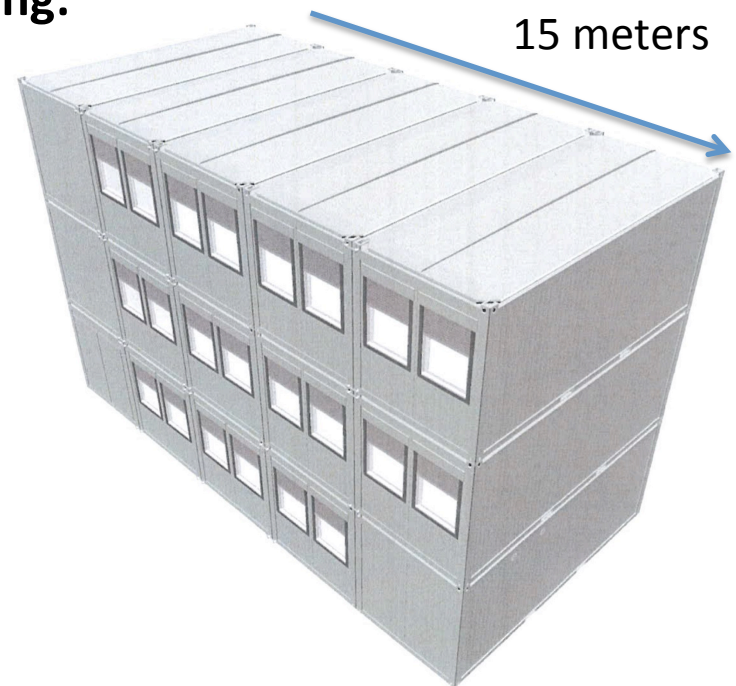
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In the S**K**IL building there will be space for ideation/discussion and tools to work with a wide range of materials and components:

15 meters

wood   3D printers   cameras

metal   electronics   audio-visual

glass   design   software   computers

plastic   small sensors   microfluidics

textiles   robotics   solar cells

optical fibers   micromechanics   sewing machine

light sources   microscopes

drones   apps development   simple chemistry?
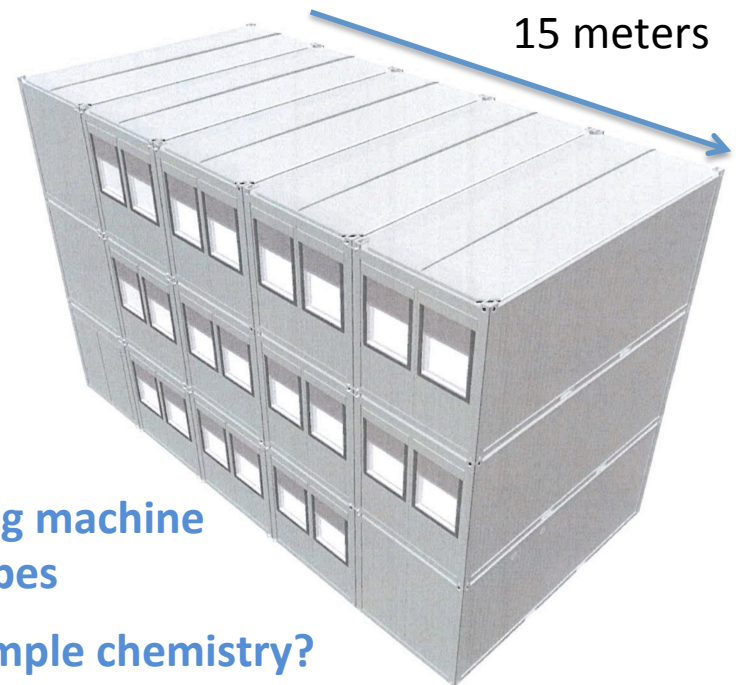
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The SK**IL will also have:**

A lab-manager (TBD):
- **Maintenance of S**K**IL space and safety**
- **Instructing students in use of equipment**
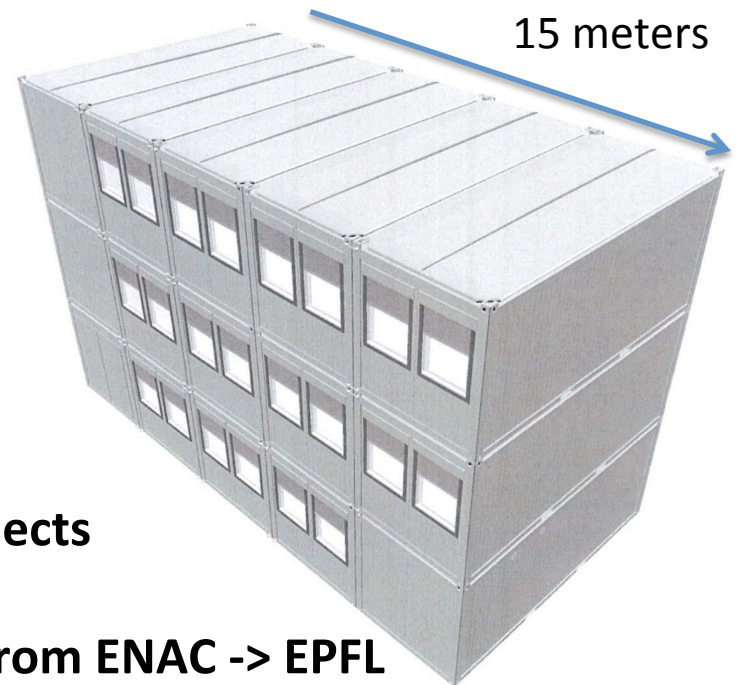
A SK**IL coordinator (Samuel Cotture)**
- **Interfacing with students**
- **Monitoring day to day progress of projects**
- **Overseeing:**
  A dozen hands-on coaches (primarily from ENAC -> EPFL
  e.g. PhD-students / Postdocs / Technical- and Scientific personnel /Profs?
- **Organize events & workshops**

15 meters
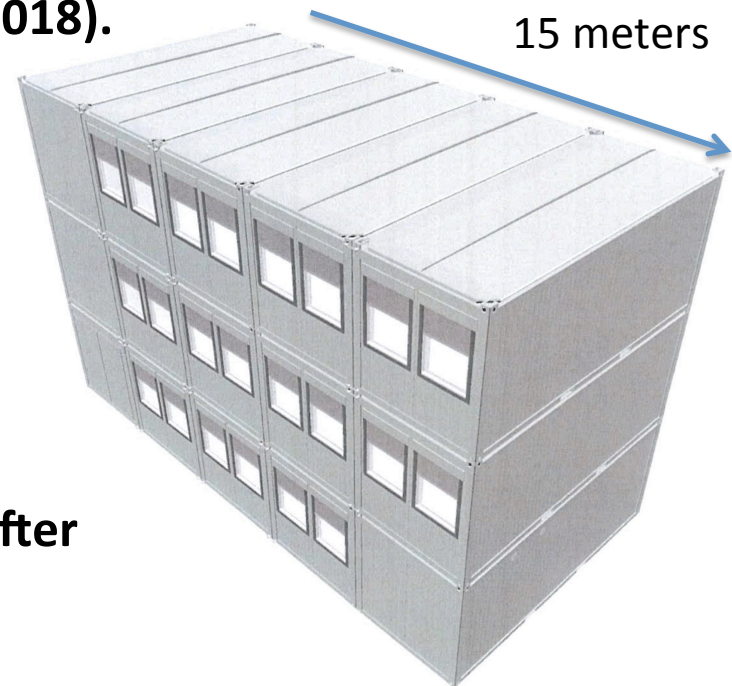
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The SKIL will have a clear place in the ENAC curriculum (from spring semester 2018).

Projeter Ensemble:
- **Unités d'Enseignement (from 2018)**
- **ENAC weeks (as of spring 2019)**

But also for Semester Projects

... and other student projects (accepted after review of students proposition).

15 meters

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The SKIL process.

Typically, a process with different phases:

- Brainstorming / Ideation / Pitching
- Implementation
- 'Online' adjustments w. coaches
- Half-way presentation (audio-visual?)
- End of semester: each group presents the 'story' of their project.

Emphasis of evaluation will be on the process.

15 meters