

New Insides in eLearning at the University of Geneva

e-assessment SIG meeting

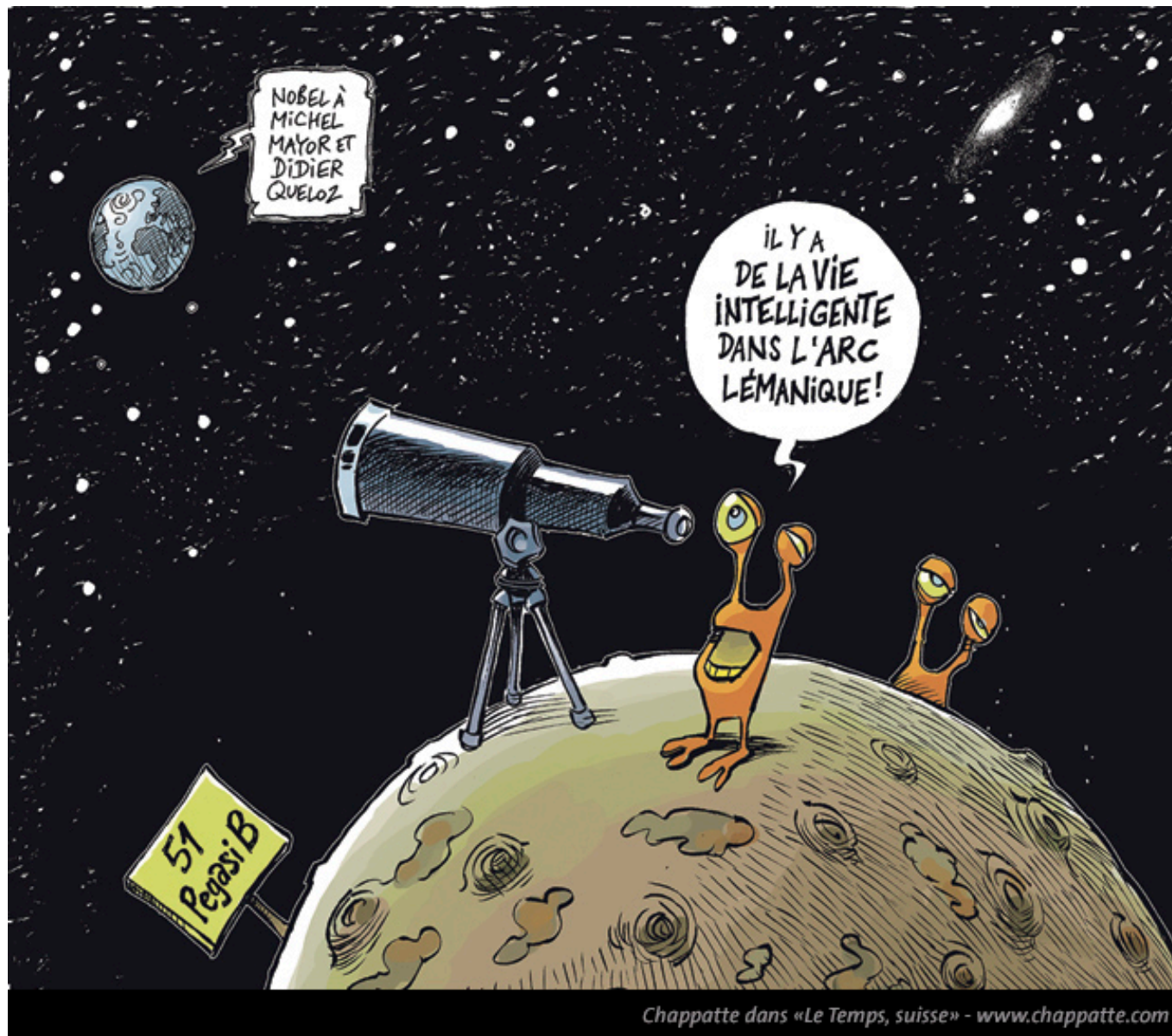
December 3, 2019

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Projet E-assessment



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Chappatte dans «Le Temps, suisse» - www.chappatte.com

Didier Queloz

51 PEG B

Michel Mayor



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Topics

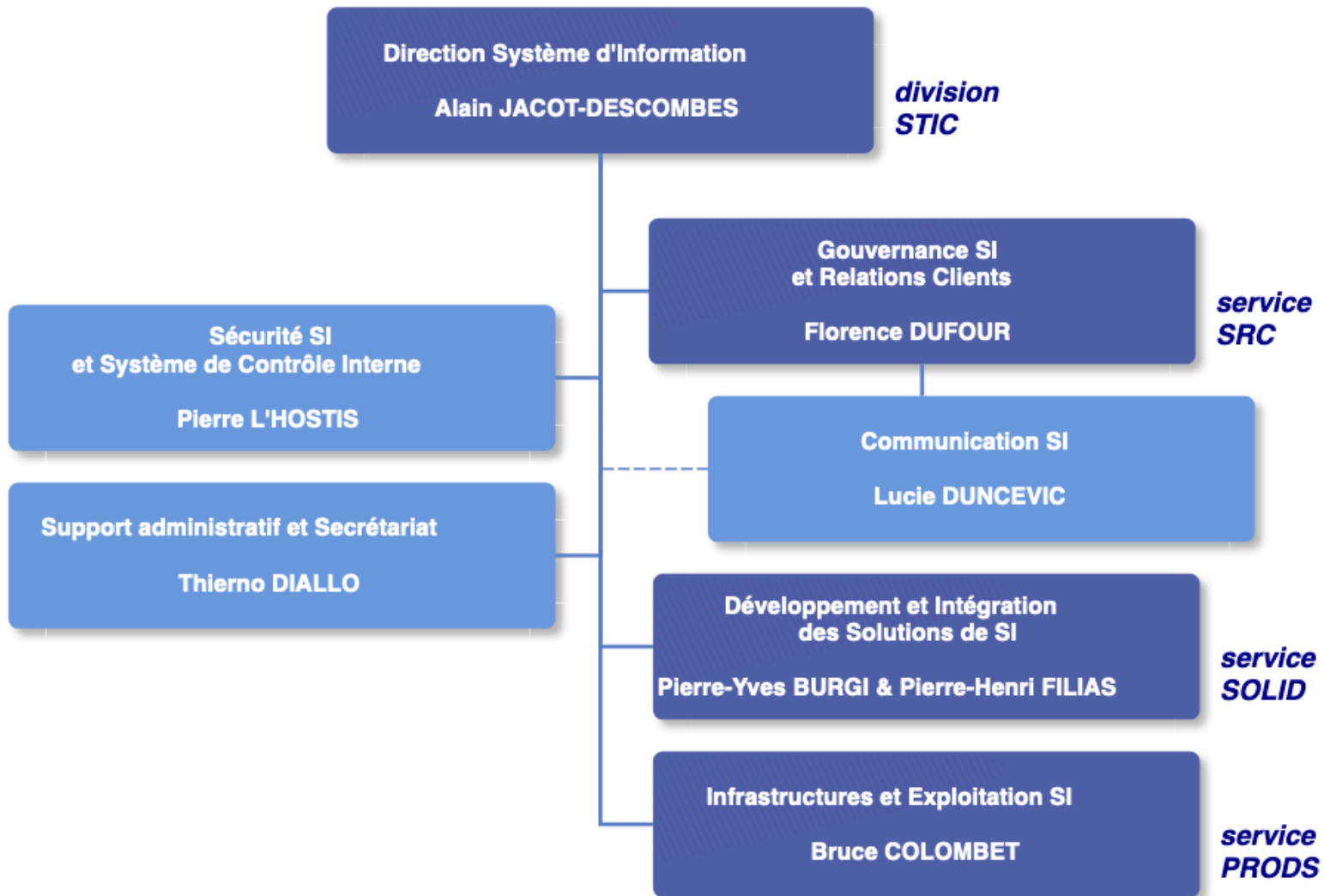
- eLearning Unit
- Live Streaming
- E-assessment
- ePortfolio
- MOOC
- LERU Virtual Exchange
- Misc

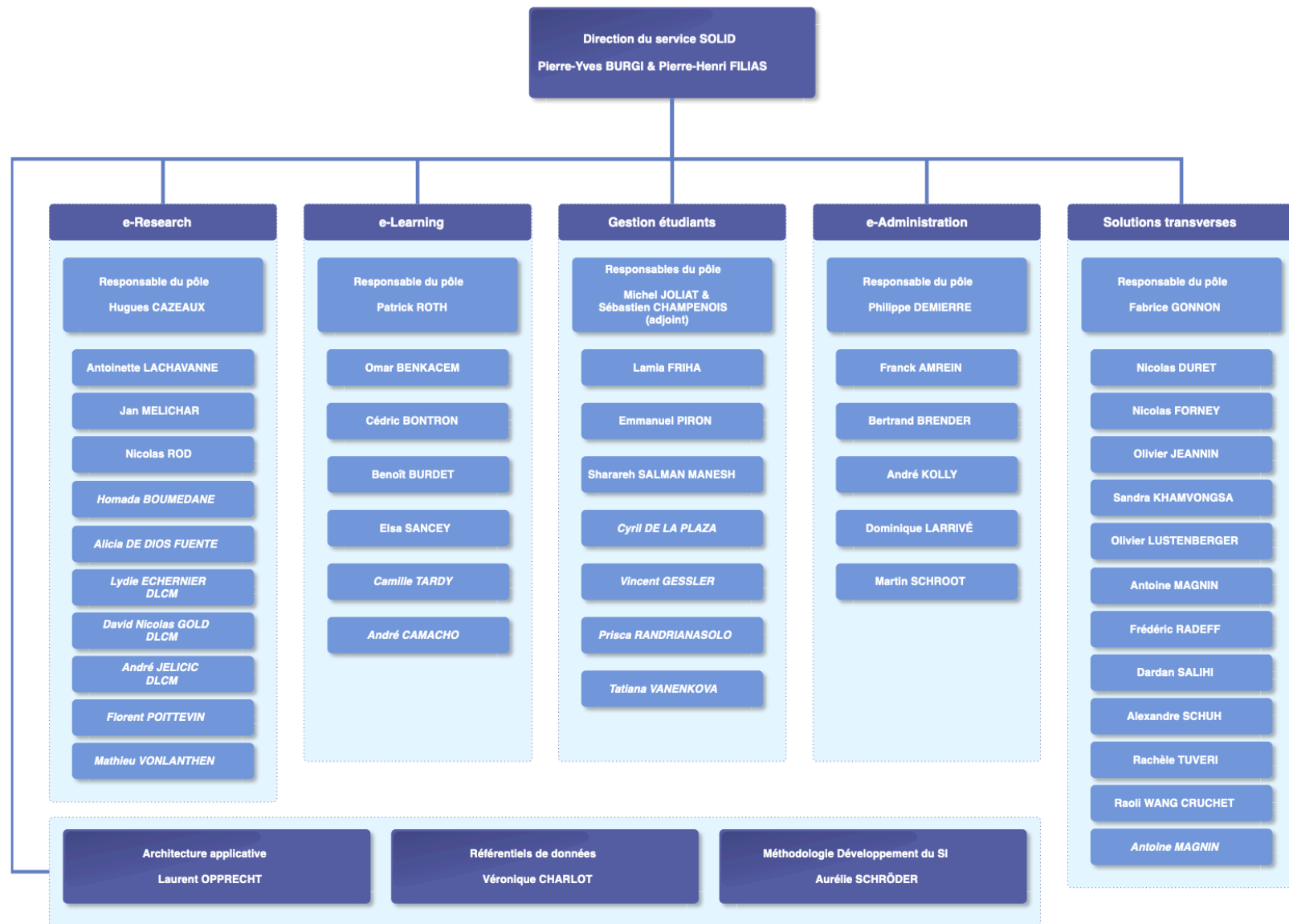
DiSTIC / SoLID / eLearning Unit

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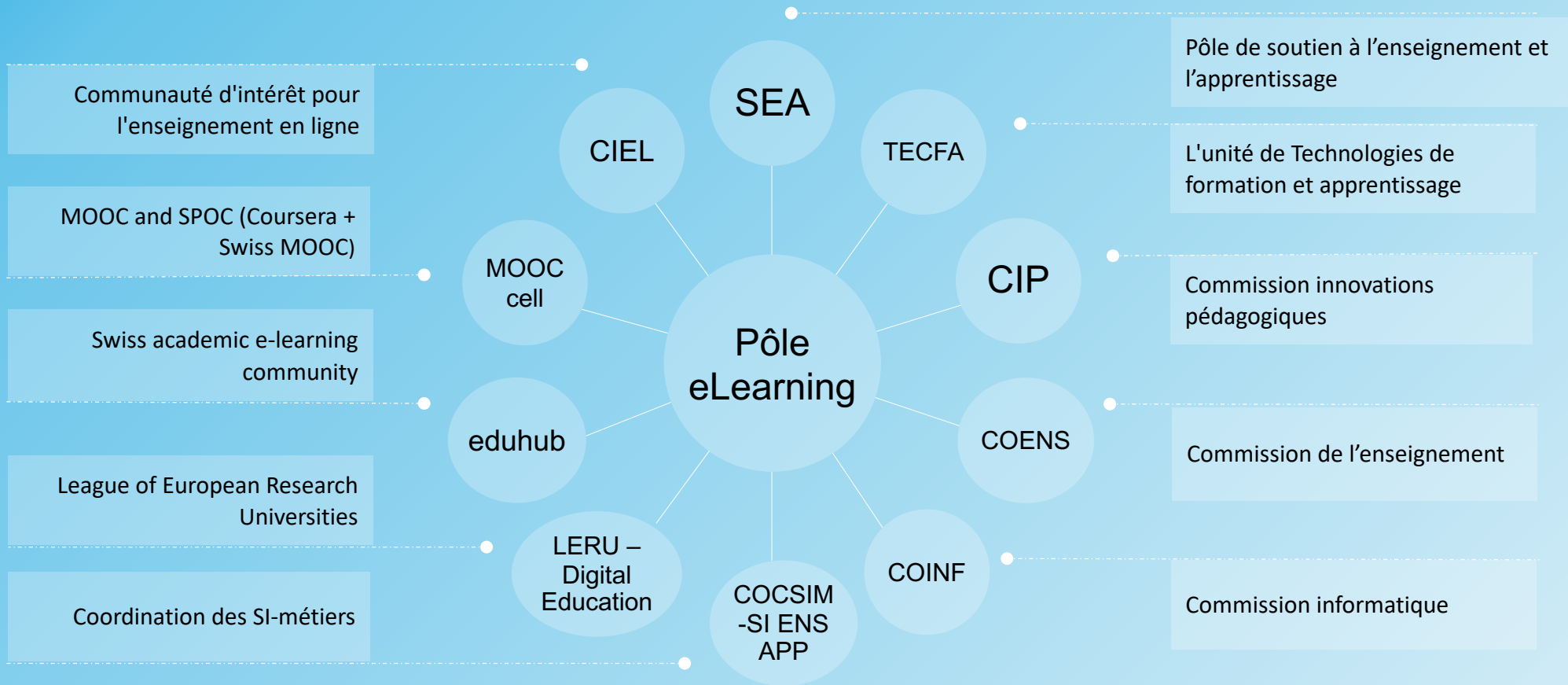


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Main Actors



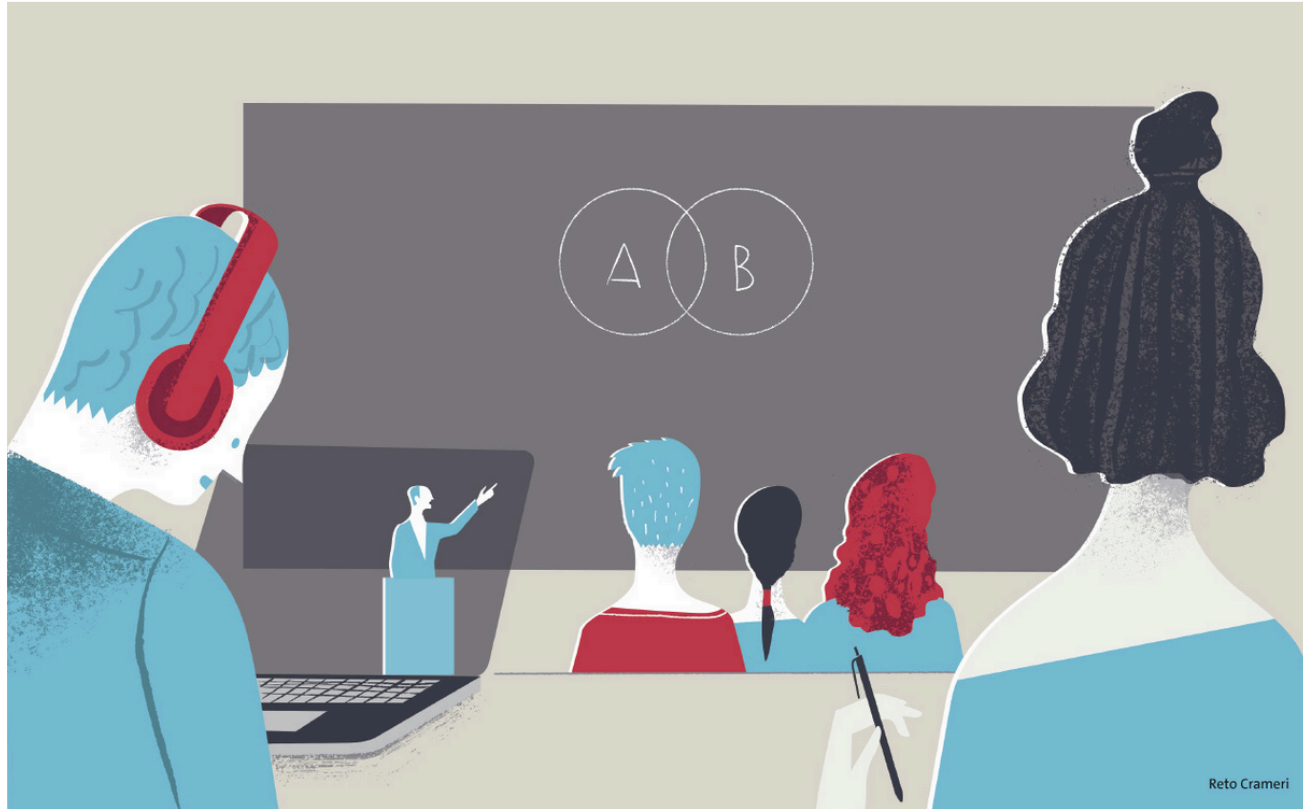
Live Streaming

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«Les étudiants sont unanimes à saluer cette innovation»



Afin d'être mieux concentrés, certains étudiants ont recours au «live streaming» dans les auditoriums. Illustration: Reto Cramer.

Issues

- More and more students are attending classes (increase of near 10% since 2016)
- Our large lecture rooms are limited in capacity (400-600)
- Overcrowded auditoriums do not seem to offer good conditions for learning

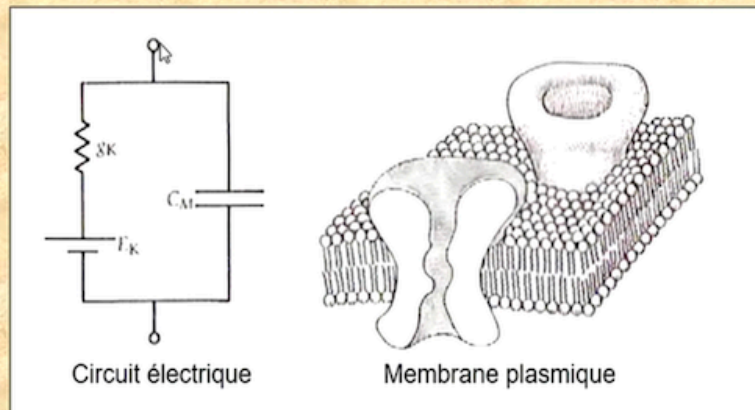
Solutions

- Adapt the technical infrastructure of the large lecture rooms to host live streaming
- Integrate the video stream in our multimedia platform (mediaserver.ch)
- Provide the necessary tools for interactive activities
- Offer a didactical support to teachers and students

Example of the layout

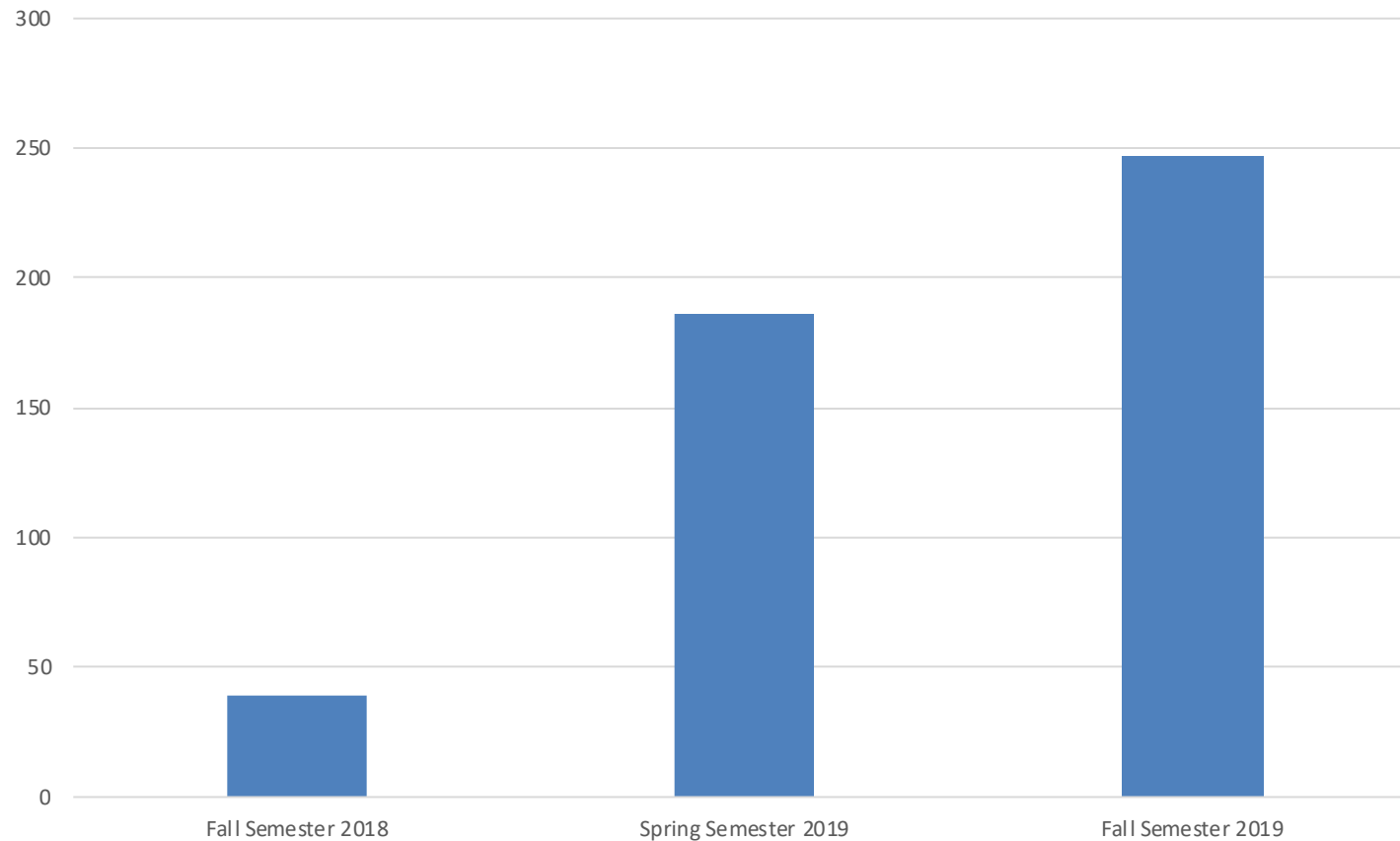


Potentiel de membrane

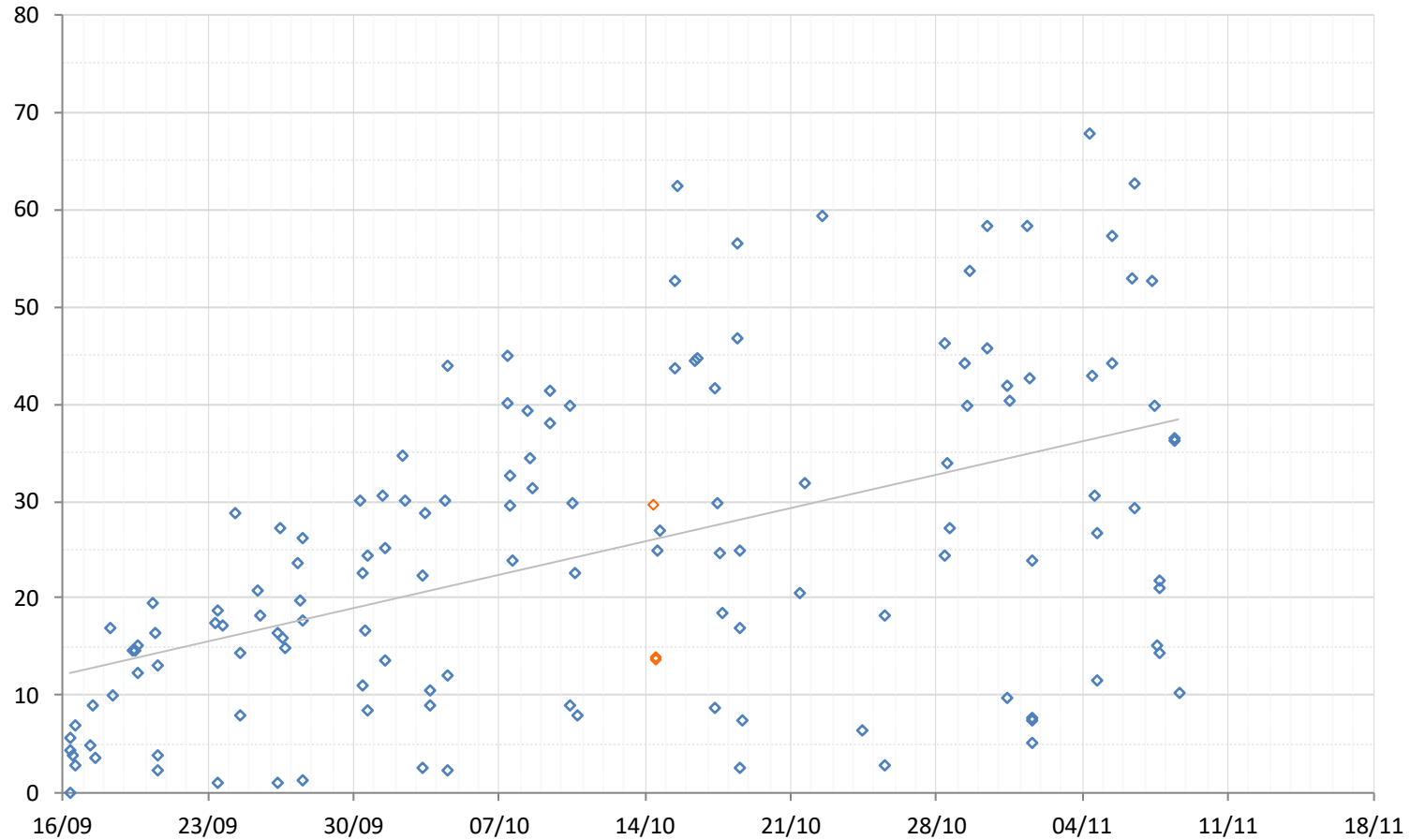


La membrane plasmique est **isolante** et accumule les charges (capacitance)
Un potentiel électrique transmembranaire est généré par le transport d'une quantité **minime** de charges à travers les canaux ioniques (conductance)
Les concentrations d'ions ne sont pas altérées significativement
Les liquides ne sont pas électriquement chargés!

Number of streamed courses



Number of users by course



Current status

- 15 lecture rooms have been equipped with the new live streaming infrastructure
- Some teachers use extra tools (Speakup, Votomatic, Padlet) to interact with their distant learners
- A study on the impact of the Live Streaming for teachers, students and the institution is under way

First observations

- Students of all abilities use distant live streaming only punctually, apparently when attending class is too costly (i.e. during epidemic outbreaks, bad weather, etc);
- Offering the service has small effects on attendance in class, approximately 8 students out of 100 do not go to class;
- Attending classes on the live streaming platform has positive effects on exam grades for high-ability students and negative effects for low-ability ones.

From: M. Paula Cacault et al. (2019) Distance Learning in Higher Education: Evidence from a Randomized Experiment

Conclusions

Students have a general preference for classroom attendance, hence the use of distance learning technologies is unlikely to solve problems of physical overcrowding.

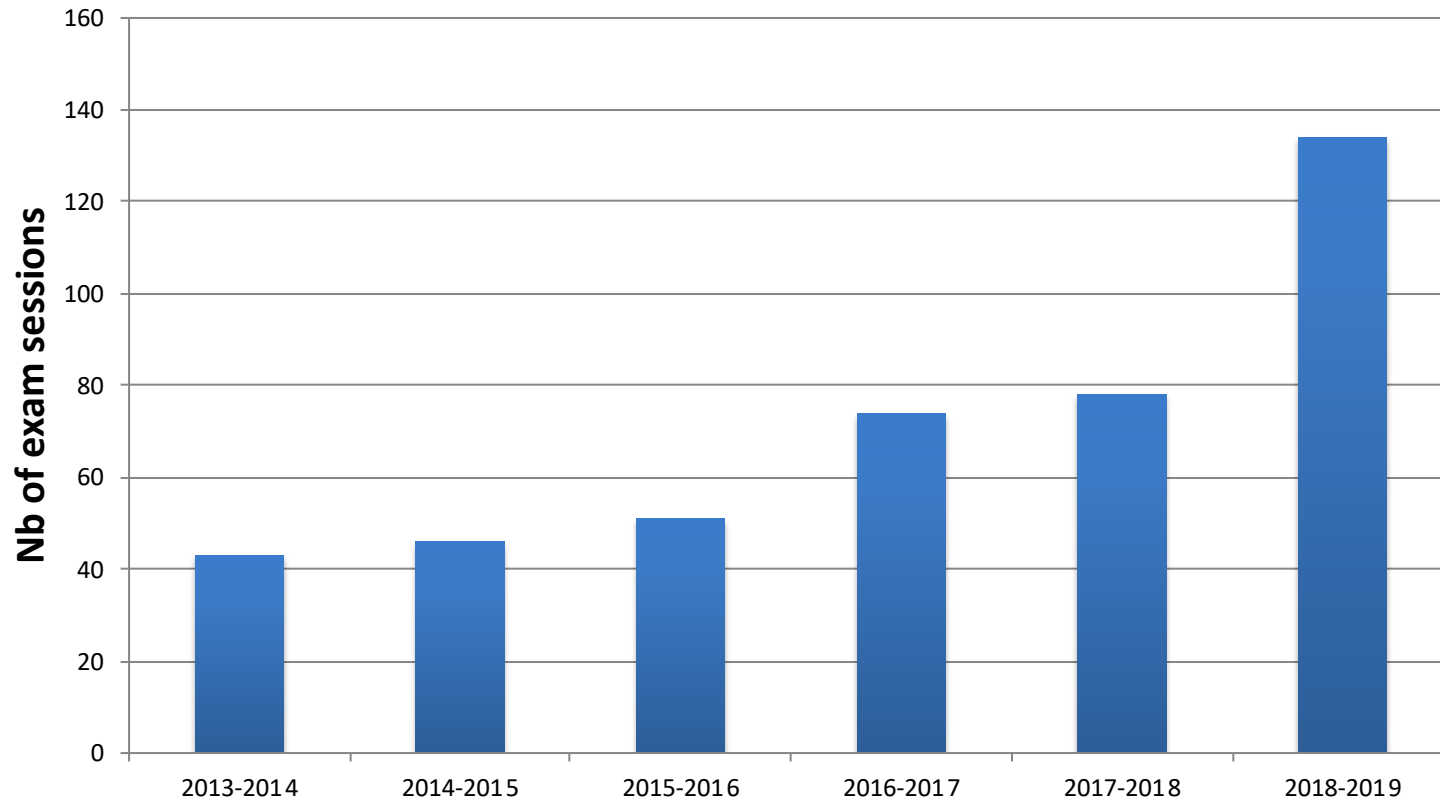
From: M. Paula Cacault et al. (2019) Distance Learning in Higher Education: Evidence from a Randomized Experiment

E-assessment

Objectives

- Make the exam more dynamic
 - Different type of questions
 - Integration of images, videos, sounds, etc.
- Provide a secure access to web resources and third-party applications
- Allow a real time access to correction tools
 - Student progress, distribution curve, etc.
 - Automatic corrections, results and feedbacks

Evolution



Key issue



To BYOD or not to BYOD

*Laurent Moccozet,
Computer Science Centre*

Omar Benkacem, André Camacho, Pierre-Yves Bürgi,

ePortfolio

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Context

- **Goal**
 - Offering an environment where students can produce deep reflections on their learning
 - Certify the students' skills
- **Tools**
 - Mahara ePortfolio
 - GPS Portfolio

Issues

- Difficulties to understand the ePortfolio process
- Blank page syndrome
- Usability problem of the learning platform

Solutions

- Simplify some parts of Mahara UI
- Support students to acquire reflective skills
 - Templates, guidelines and workshops
 - SelfPad (UNIGE-UNIL-UNI-Distance co-development)

Solutions



SELPAD

A tool that helps the self evaluation of one's own learning process

Current status

Mahara:

- —> Active number of student for 2018 - 2019: 1068
- —> Number of created portfolios : 4500

GPS Portfolio

- —> Active number of student for 2018 - 2019: 640

MOOC

- UNIGE has currently 35 MOOCs
 - 3 new released in 2019
 - 4 new SPOCS will be available in 2020 for all LERU students to obtain ECTS credits

LERU Virtual Exchange

- Offers students the opportunity to follow online courses that award study credits, thus avoiding the necessity of travelling abroad
- On Friday *November 15*, the rectors of 6 LERU *universities* have signed a Memorandum of Understanding to start exchanging students virtually

Misc

- Events
 - An ABC learning workshops has been organized for our didactical staff and instructional designers
 - An event on didactical videos was organized with several specialists from France and Switzerland
- Projects
 - A platform showcasing pedagogical innovations at UNIGE has been developed
 - An institutional Digital Competence Framework (targeting also teachers) is currently under construction

Thank you !

elearning.unige.ch



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