

# Ecole polytechnique fédérale de Lausanne

Visit of the Center for Digital Education - Eduhub  
July 26th, 2017



# GATEWAY

75 Courses (> 27 coming)  
<http://moocs.epfl.ch>

**www.coursera.org**  
24 million users

The screenshot shows the Coursera website interface. At the top, there's a navigation bar with 'COURSERA | Explain Courses', 'Categories', 'Partners', 'About', and 'Patrick Jermann'. Below this is a banner for 'École Polytechnique Fédérale de Lausanne' with the EPFL logo. The main content area displays several course cards, each with a title, a thumbnail image, and a start date. The courses listed are:
 

- 'Introduction à la programmation (en Java)' starting Sep 17th, 2013. The thumbnail shows code snippets for a 'public class ComplExe'.
- 'Analyse Numérique pour Ingénieurs' starting Feb 16th, 2013. The thumbnail shows a colorful contour plot.
- 'Introduction à la programmation (en C++)' starting Sep 17th, 2013. The thumbnail shows a hand holding a pen over a document with code.
- 'Introduction à la programmation orientée objet (en Java)' starting Feb 17th, 2014. The thumbnail shows code for 'class ComplExe'.
- 'Functional Programming Principles in Scala' starting Mar 23th, 2013. The thumbnail shows a code editor with Scala code.

**coursera**

**www.edx.org**  
10 million users

The screenshot shows the edX website. At the top, there's a navigation bar with 'edX HOW IT WORKS COURSES SCHOOLS' and a 'Get involved!' button. Below this is a large image of a modern building with a panda-shaped roof, identified as the EPFL building. To the right of the image is the EPFL logo and the text 'ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE EPFLX'. Below the image, there's a 'Back to schools' link and a paragraph of text:
 

EPFL is the Swiss Feder al Institute of Technology in Lausanne. The past decade has seen EPFL ascend to the very top of European institutions of science and technology: it is ranked #1 in Europe in the field of engineering by the Times Higher Education (based on publications and citations), Leiden Rankings, and the Academic Ranking of World Universities.

EPFL's main campus brings together 12,600 students, faculty, researchers, and staff in a high-energy, dynamic learning and research environment. It directs the Human Brain Project, an undertaking to simulate the entire human brain using supercomputers, in order to gain new insights into how it operates and to better diagnose brain disorders. The university is building Solar Impulse, a long-range solar-powered plane that aims to be the first piloted flying aircraft to circumnavigate the Earth using only solar power. EPFL was part of the Aladdin project, developing advanced racing boats that won the America's Cup multiple times. The university operates, for education and research purposes, a Tokamak nuclear fusion reactor. EPFL also houses the Musée Bolo museum and hosts several music festivals, including Balade, that draws over 15,000 guests every year.

EPFL is a major force in entrepreneurship, with 2012 bringing in \$700M in funding for ten EPFL startups. Both young spin-offs (like Typeable and PreID) and companies that have long grown past the startup stage (like Logitech) actively transfer the results of EPFL's scientific innovation to industry.

**COURSES** [all](#) | [new](#) | [current](#) | [past](#)

There are no courses currently available from this school. Check back soon!

At the bottom, there's an 'About Us' section with links for 'Jobs', 'Press', 'FAQ', and 'Contact'. There's also a small EPFL logo and a note: 'edX is a non-profit created by founding partners Harvard and MIT, MITx, and the Sloan School of Management at MIT, and is supported by the Sloan Foundation, the Bill and Melinda Gates Foundation, the Microsoft Research Foundation, the National Science Foundation, the Open Society Foundations, the World Economic Forum, and the World Bank Group.'

**edX**

**courseware.epfl.ch**  
x thousand users

The screenshot shows the courseware.epfl.ch website. At the top, there's a navigation bar with the EPFL logo, 'ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE', and 'REGISTER'. Below this is a large banner with the text 'École polytechnique fédérale de Lausanne' and the tagline 'For anyone, anywhere, anytime'. Below the banner, there's a grid of course cards. Each card has a thumbnail image, a title, and a start date. The cards listed are:
 

- 'Swiss-Energyscope' starting Apr 12, 2015. The thumbnail shows a colorful abstract graphic.
- 'Apprendre à étudier en sciences et ingénierie' starting Sep 11, 2017. The thumbnail shows a group of people in a classroom.
- 'Gestion des aires protégées en Afrique' starting Sep 18, 2017. The thumbnail shows a landscape with a tree.
- 'Ecological Monitoring' starting Sep 18, 2017. The thumbnail shows a landscape with a tree.

 There's also a 'LEARN MORE' button on the 'Gestion des aires protégées en Afrique' card. At the bottom, there's a 'Sign in' button.

**OPENedX**

# Certificate of Open Studies

## Gestion et planification de la ville africaine



Continued education EPFL credits

Equivalent to 10-30 ECTS credits

Open for anyone to participate

Requires in situ proctored exam

(at EPFL or in a testing center of the Agence Universitaire Francophone)



Villes africaines I:

**Introduction à la planification urbaine**

Jérôme Chenal



Partie I:

**Introduction aux systèmes d'information géographique**

Stéphane Joost, Marc Soutter, Fernand Kouamé, Amadou Sall



Villes africaines:

**Quartiers précaires**

Isagha Diagana, Jérôme Chenal



Villes africaines:

**Mobilité et transports**

Pape Sako, Jérôme Chenal



Villes africaines:

**Environnement et enjeux de développement**

N'Diékhor Yemadjil, Jérôme Chenal



Eawag-Sandec et EPFL proposent ce cours conjointement avec des experts en assainissement de la Banque Mondiale et de l'OMS.

**Planification et Design de Systèmes et Technologies d'Assainissement**

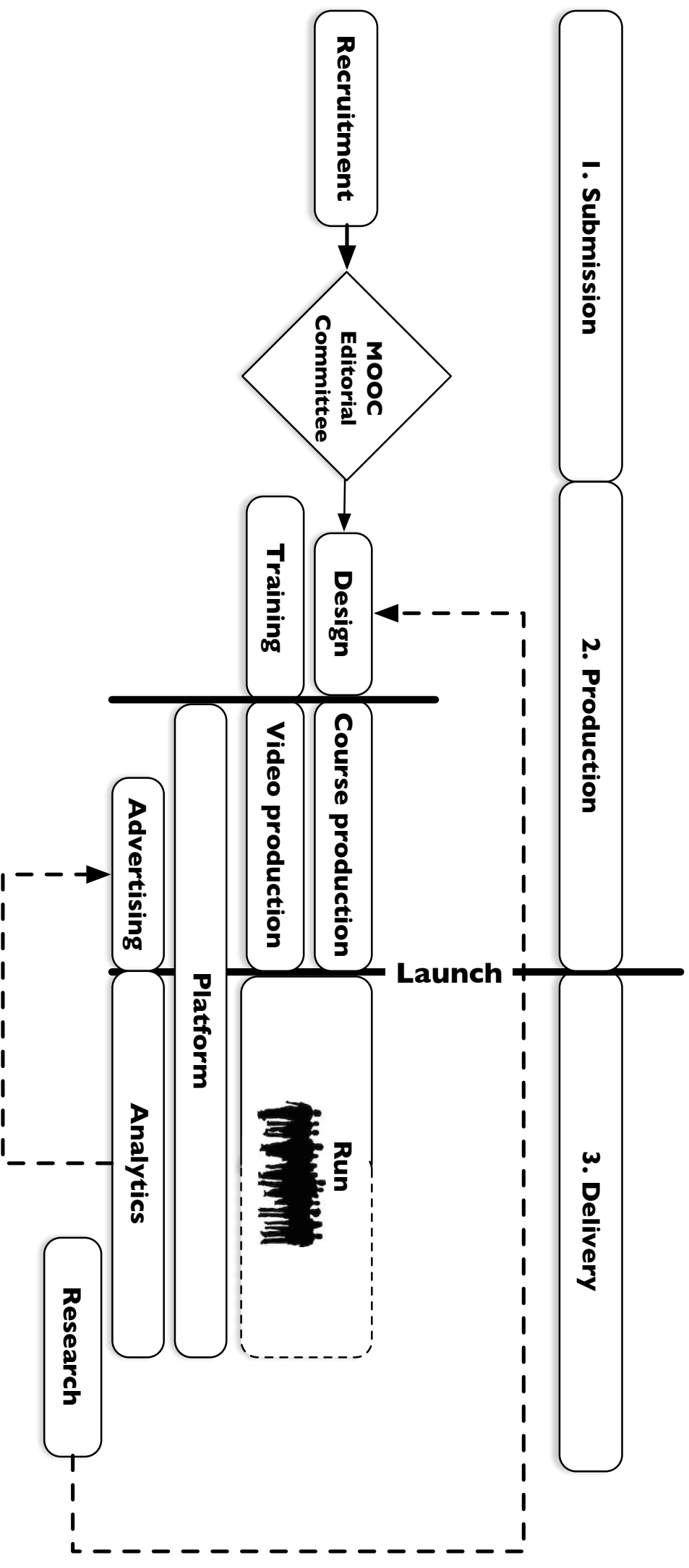
# MOOG Factory



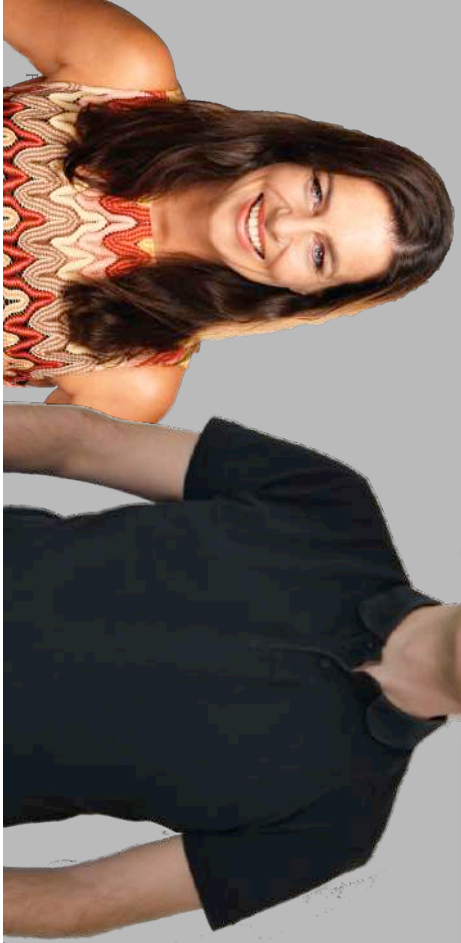
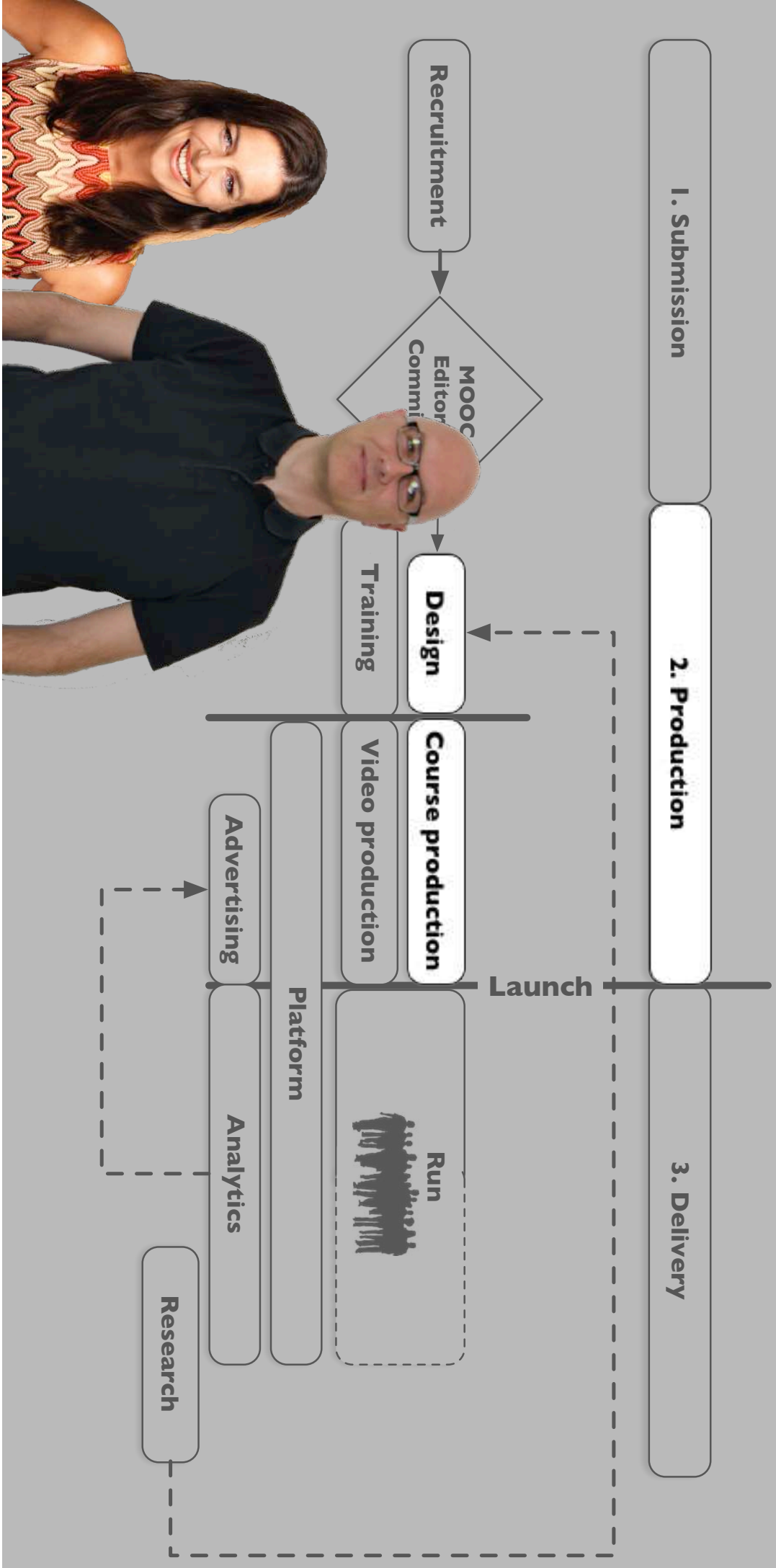
MOOG Essentials | 2017

<http://www.postinthewoods.com/editing-museum>

# MOOC Production Process



# MOOC Production Process



1. Submission

2. Production

3. Delivery

Recruitment

MOOC Editorial Committee

Design

Course production

Training

Video production

Run



Platform

Marketing

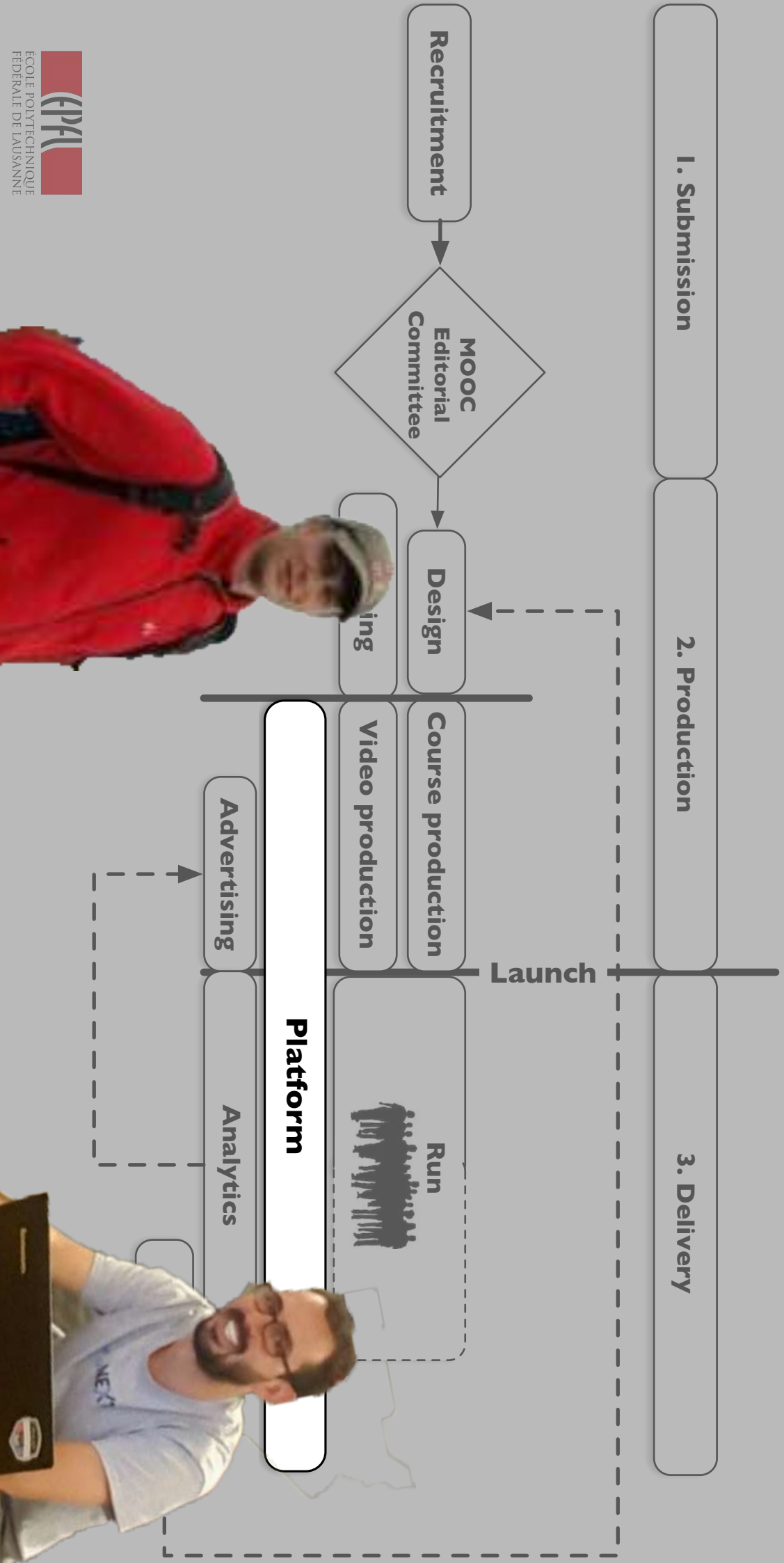
Analytics

Research

Launch







# <http://courseware.epfl.ch>

Local instance of open edX  
Commercial Independence  
Control over data  
Flexibility for innovation

Hosted on SWITCH Engines  
**Swiss MOOC Service** with ETH,  
USI, SUPSI and HES-SO

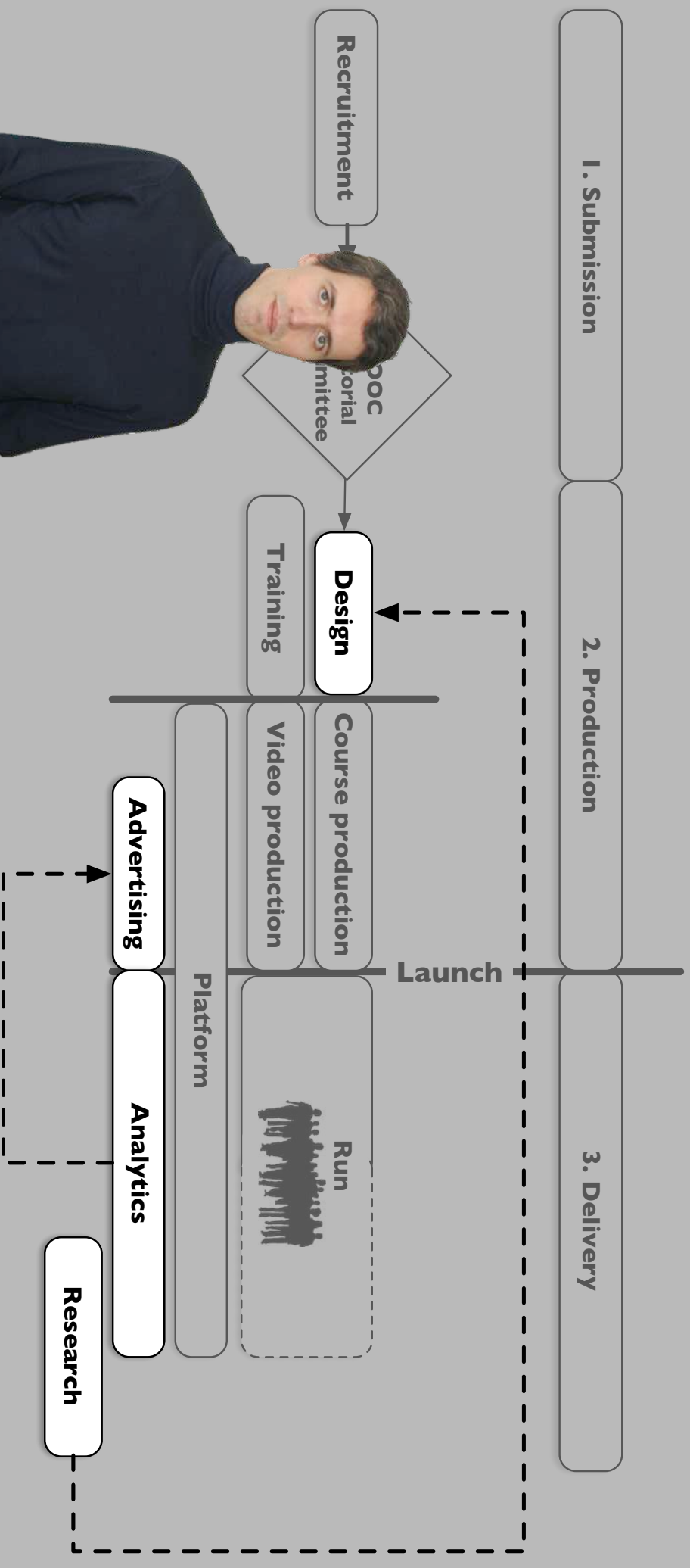
EPFL  
SES  
**Swiss-Energyscope**  
Starts: Apr 12, 2015

EPFL  
eco-monitoring  
**Ecological Monitoring**  
Starts: May 2, 2017

EPFL  
suivi-eco  
**Suivi écologique**  
Starts: May 2, 2017

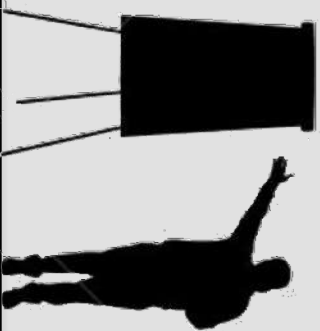
EPFL  
SPECIALISATION  
**Concevoir une Stratégie de Spécialisation Intelligente**  
Starts: Jan 16, 2017

# MOOC Production Process

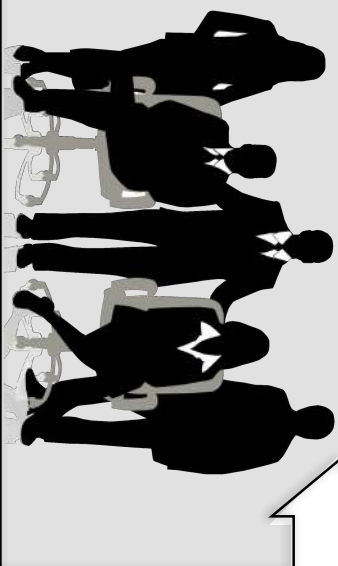




**Students**



**Teachers**



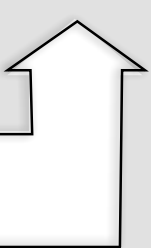
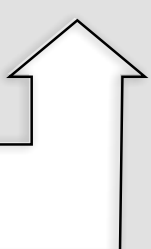
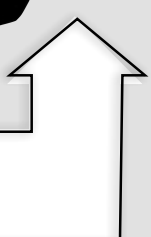
**Management**

# Campus Analytics

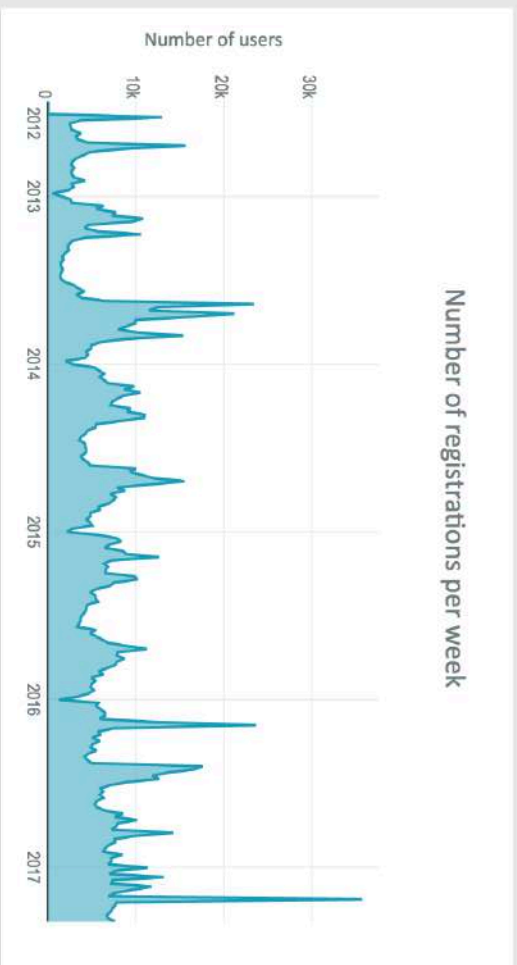
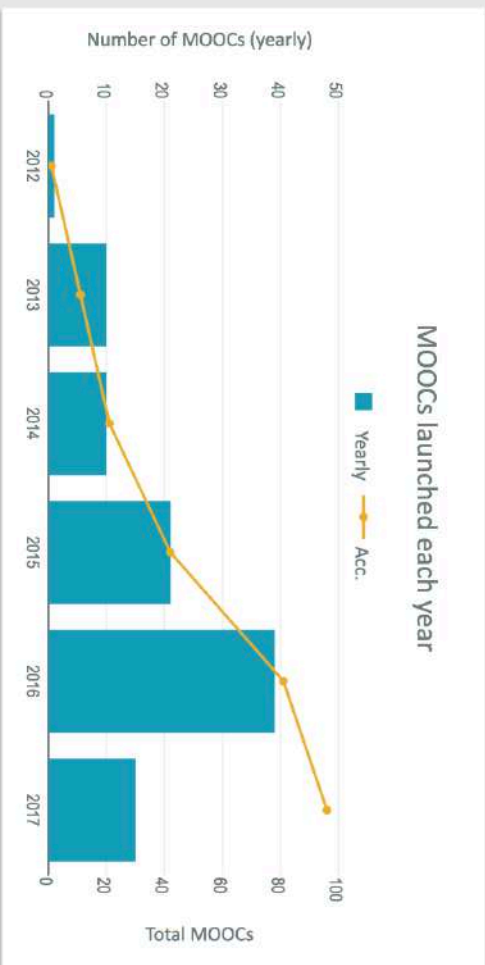
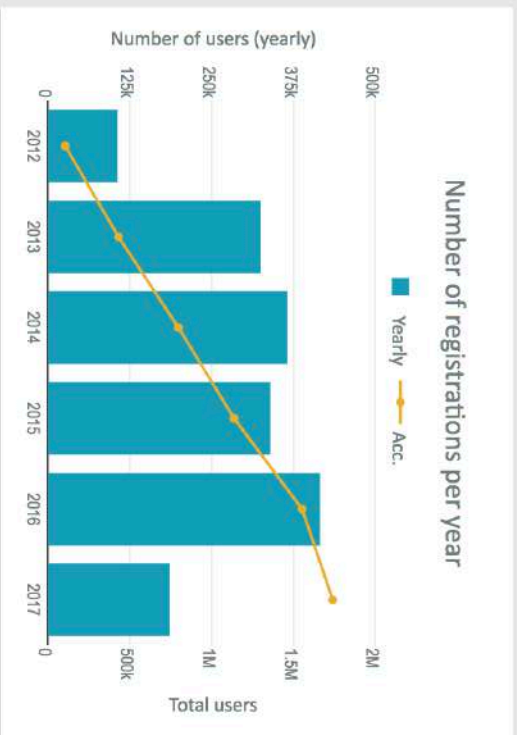
**Course**

**Curriculum**

**Strategic Focus**



ID	Indicator	Value
1	Number of MOOCs Online	73
2	Number of MOOCs in Production	26
3	Number of MOOCs Planned	6
4	Number of MOOCs Retired	23
5	Total Registrations	1722753
6	Registrations in English MOOCs	67%
7	Registrations in French MOOCs	33%
8	Users who Passed	91621
9	Users who are Non-Students	66%
10	Non-Students who are Employed	90%



# Coming Events – Chances to meet

- August 31<sup>st</sup> 2017  
**MOOCs and Continued Education**  
ZHAW School of Engineering
- September 4<sup>th</sup> 2017  
**ETWG** meeting in Zürich
- September 7<sup>th</sup> 2017  
**MOOC-SIG** meeting in Zürich
- For the Swiss MOOC Service
  - Accepted with conditions
  - Looking for formal University support
    - How many MOOCs ? Existing / New ones
    - What type of MOOCs ? On campus / Cont'd Ed
    - When do you start ?
  - Looking for beta-testers

## CENTER FOR DIGITAL EDUCATION MOOGS FACTORY

[About Us](#) [MOOC Factory](#) [MOOCs Africa](#) [E-Learning](#) [Research](#) [Press & events](#) [Jobs](#)Share:     Search Status: [Upcoming](#) [Running](#) [Ended](#) Course Language:  Area: [Architecture, Civil and Environmental Engineering](#) [Basic Sciences](#) [Engineering](#)[Computer and Communication Sciences](#)[Aquatic Science and Technology](#)[Life Sciences](#)[Management of Technology](#)

MOOC Registrations Counter:

1,579,152

### EMOOGS CONFERENCE



#### Upcoming **Smart Cities – Management of Smart Urban Infrastructures**

Starts in:  
3 Days*Matthias Finger*

Learn about the principles of management of urban infrastructures in the era of Smart Cities. The introduction of Smart urban technologies into legacy infrastructures has already resulted and will continue to result in numerous challenges and opportunities. This course will help you to make the best out of the introduction of these smart technologies in your cities' legacy infrastructures. [Learn more](#)

Master  
Level MOOCMaster  
Level MOOC[Sign Up](#)

#### Upcoming **Space Mission Design and Operations**

*Claude Nicolier*

Learn the concepts used in the design of space missions, manned or unmanned, and operations, based on the professional experience of the lecturer. [Learn more](#)

Master  
Level MOOCMaster  
Level MOOC[Sign Up](#)

#### Running **Mécanique de Newton**

*Jean-Philippe Ansermet*

Ce cours de Physique générale – mécanique fournit les outils permettant de maîtriser la mécanique newtonienne du point matériel. [Learn more](#)

Propédeutique  
Level MOOCPropédeutique  
Level MOOC[Sign Up](#)

### BOOGS BY EPFL PRESS

BOOGS are the perfect companion to your MOOC. Print it, browse it, read it. BOOGS provide a written summary of the video lectures and allow you to listen to the teacher when you need it. Here is the list of titles available:

 Cellular Mechanisms of Brain Function  
 Introduction à la programmation orientée objet en Java  
 Economie du sol et de l'immobilier II

**EPFL – CEDE**

Center for Digital Education

<http://cede.epfl.ch>

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