Reflection on the place of education and training within the Initiative, in particular through MOOCs

Claude Bernhard
Training & research = conditions for success of 4p1000 initiative

1. Research: understanding and modeling the complex soil-plant-climate system
2. Educating → empowering decision-makers and actors in the field
3. Training → transfer good practices and give the keys to adaptation to local contexts
4. Massify → target all actors:
   • Decision makers, advisers, farmers (all levels)
   • All ages: initial and continuing education
   • All countries: adapting to local contexts
Digital education: a massive tool for disseminating knowledge
The main MOOC platforms

<table>
<thead>
<tr>
<th>Rank 2017</th>
<th>MOOC Platform</th>
<th>Users</th>
<th>Nº Courses</th>
<th>Free Courses</th>
<th>Paid Courses</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Coursera</td>
<td>23,000,000</td>
<td>1,800+</td>
<td>Yes</td>
<td>Yes</td>
<td>Varied</td>
</tr>
<tr>
<td>1</td>
<td>EdX</td>
<td>10,000,000</td>
<td>950+</td>
<td>Yes</td>
<td>Yes</td>
<td>Varied</td>
</tr>
<tr>
<td>2</td>
<td>FutureLearn</td>
<td>5,300,000</td>
<td>450+</td>
<td>Yes</td>
<td>No</td>
<td>Varied</td>
</tr>
<tr>
<td>3</td>
<td>Udacity</td>
<td>4,000,000</td>
<td>160+</td>
<td>Yes</td>
<td>Yes</td>
<td>Technology</td>
</tr>
</tbody>
</table>
France Université Numérique

CHIFFRES CLÉS

Mai 2017

- Nombre de MOOC: 300
- Nombre d'inscriptions à des cours: 3 090 556
- Nombre de sessions de MOOC: 5 223
- Nombre d'établissements producteurs de MOOC: 100
- Nombre d'inscrits: 1 036 067

Se former en liberté
Exemple of the agroecology MOOC

• 2016: First year in French: 12,200 people from around 100 different nationalities
• 2017: Improvement and English version
• 2018: Spanish version planned
Agreenium involved in climate change and digital training

- Created 2014 by the Law on agriculture
- Member of 4p1000 initiative
Our members

- 4 research institutes

- 14 higher education schools « grandes écoles » and universities
The strength of the network and a shared ambition

- 4 organismes de recherche
- 10,000 étudiants
- 16,800 chercheurs, enseignants-chercheurs, ingénieurs, personnels techniques et administratifs
- 14 établissements d'enseignement supérieur
Priority areas:

• Promote the french research-training-development system in agriscience, especially at the international level

• Coordinate the training courses of our members- develop the PhD training (summer schools, doctoral seminars)

• International skills development projects

• Develop digital training courses
Agreenium committed to the dissemination of knowledge through digital technology
Agreen U – Digital university in agrisciences
Mooc project "Soils for food security and climate "

• Operational objective: Understanding the role that agricultural soils can play in relation to climate change

• Duration: 5 weeks, 2-3 hours of personal work per week

• Target audience: Initiative partners, professional organizations, teachers and researchers, international organizations

• Multilingual French, English and Spanish
Mooc project "Soils for food security and climate"

• Themes:
  1. Challenges of agriculture and soil faced with climate change
  2. Carbon storage in the soils
  3. Carbon measurement in the soils
  4. Agricultural and forestry strategies
  5. Socio-economic levels for action

• Partners
  • Agreenium with AgroParisTech, CIRAD, INRA, and IRD
  • Other international partners are welcome (as authors, broadcasters, funders) ...
Thank you for your attention