



## Press Release

### **A great success for IFP School's 1<sup>st</sup> MOOC**

#### **Feedback on an innovative teaching experience involving a serious game**

Rueil-Malmaison, 21 January 2015: **IFP School's first MOOC on sustainable mobility, on line from 3 to 30 November 2014, was a great success. It included, for the first time ever in a MOOC, a serious game which enabled participants to test and validate the skills acquired at each stage of the training. It attracted over 3000 participants with 31% of those registered following the course through to the end and earning skills badges and a certificate of participation<sup>1</sup>. This rate is increased to 59% if we only take into account the number of active participants.<sup>2</sup>**

Over 4 weeks, through a wide variety of teaching materials (videos, interactive quizzes) and free of charge, participants were able to discover how engines work, how fuels are manufactured, technologies to reduce fuel consumption and emissions, the technical, economic and environmental challenges and the future of transport – [See the press release of 16 September](#).

The introduction of a serious game, a truly technical and educational innovation, aided learning through an active learning-by-doing approach. The challenge for IFP School was to apply, on a massive learning scale, its teaching approach for the development of know-how and skills. The teaching model usually used for MOOCs (videos, quizzes, peer-to-peer review) thus developed into a more interactive model focused on the acquisition of know-how.

IFP School's first MOOC, unique in its interactive design, attracted mainly students and young graduates from 67 countries. *"The 31% completion rate is really high!"* exclaimed Sébastien Bianchi, Project leader and a lecturer at IFP School's Center for Economics and Management. *"On average, the number of e-learners who complete an on-line course is 10%. We have reached our objectives: promote new teaching approaches, increase our visibility and attract new students."* [Watch the feedback video](#)

For Olivier Bernaert, Project leader for IFP School's "Élan pédagogique" project and a lecturer in the MOOC, *"this success can be partly explained by the inclusion of a serious game in the*

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<sup>1</sup> Reward for participants who completed all activities testifying to their participation.

<sup>2</sup> Participants who did at least the 1<sup>st</sup> quiz.

course. With fun activities and immersive, interactive games, assimilation of knowledge was reinforced through immediate application."

After this first success, IFP School is now preparing a second MOOC "Oil and Gas: from exploration to distribution". This course will address the entire oil and gas chain. It is also taught in English, is free of charge and will take place in the second semester of 2015.

More information on [http://www.ifp-school.com/jcms/r\\_11326/en/mooc](http://www.ifp-school.com/jcms/r_11326/en/mooc)

The initiative to develop these two MOOCs is part of IFP School's broader reflection on the development of its teaching approaches and the integration of e-learning in its training programs to reinforce the acquisition of skills.

Several innovative tools are used in the School on a daily basis, amongst which are:

- the *flipped classroom*, particularly appropriate for an industry-oriented school such as IFP School as it leaves time to work on practical exercises, case studies and interactive discussions with faculty members
- the "fun" element – many of our professors use an interactive quiz box during their courses
- the use of collaborative tools such as wikis and forums.



#### Key words for the MOOC

3100 registered

67 countries

76% male / 23% female

51% students

59% of participants received a certificate

*on the basis of active participants\*\**

31% of participants received a certificate

*on the basis of number of people registered*

92% of participants satisfied with the course

2600 hours of training

7 professors

18 videos

#### About IFP School

*IFP School is an integral part of IFP Energies nouvelles, and prepares the specialists of tomorrow to take up the challenges of the energy transition. Open to higher education graduates, IFP School offers a complete range of programs taught in French and/or English to prepare for work in the energy sector (oil, gas, petrochemicals, powertrains, new energy technologies, energy markets). With close ties to research and industry, the School has built up a large international renown, as can be seen by the number of international students (50%) in its classes, from around fifty countries and with 80% of its students sponsored by industry.*

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