



UvA-DARE (Digital Academic Repository)

Navigating massive open online courses

Savi, A.O.; van der Maas, H.L.J.; Maris, G.K.J.

DOI

[10.1126/science.347.6225.958](https://doi.org/10.1126/science.347.6225.958)

Publication date

2015

Document Version

Author accepted manuscript

Published in

Science

[Link to publication](#)

Citation for published version (APA):

Savi, A. O., van der Maas, H. L. J., & Maris, G. K. J. (2015). Navigating massive open online courses. *Science*, 347(6225), 958. <https://doi.org/10.1126/science.347.6225.958>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Navigating Massive Open Online Courses

We agree wholeheartedly with J. Reich that research on the effectiveness of Massive Open Online Courses must focus on learning rather than mere clicking (“Rebooting MOOC research,” Policy Forum, 2 January, p. 34). Our biggest challenge will be figuring out what is most appropriate for an individual student at a given moment.

Ideally, a MOOC would work like the GPS navigation device in your car. You tell it where you want to go, it figures out where you are, and it guides you along the most optimal route. Keeping with the analogy, current MOOCs are like having all GPS navigation devices instruct every car driver to turn right at 9:15 on Monday morning.

If we can’t adapt teaching and practice to the individual learner, MOOCs will never be more than a digital version of classroom teaching. To personalize the learning experience, we first need a detailed description of what a student already can and cannot do. Such information can be determined by traditional tests or by more powerful methods such as the practice-based trackers that already exist in other domains of online education (*1*). The A/B testing discussed in the Policy Forum provides us with ideal methodology to start putting roads on the educational map. Once we gather information about various conditions, we can map each student’s optimal route.

Alexander O. Savi,* Han L. J. van der Maas, Gunter K. J. Maris*

¹Department of Psychological Methods, University of Amsterdam, Weesperplein 4, 1018 XA, Amsterdam, The Netherlands.

²Cito, Amsterdamseweg 13, 6814 CM, Arnhem, The Netherlands.

***Corresponding author. E-mail: o.a.savi@gmail.com**

References

1. S. Klinkenberg, M. Straatemeier, H. van der Maas, *Comput. Educ.* 57, 1813 (2011).

Acknowledgments: Funding by NWO (The Netherlands Organisation for Scientific Research). Grant number CI1-12-S037.