



The European Journal of Finance >

Volume 23, 2017 - [Issue 12: 8th Portuguese Finance Network Conference University of the Algarve, 18th - 20th June 2014](#)

381 Views | 9 CrossRef citations to date | 0 Altmetric

Original Articles

The effects of an uncertain abandonment value on the investment decision

Roger Adkins & Dean Paxson

Pages 1083-1106 | Received 28 Oct 2014, Accepted 22 Oct 2015, Published online: 03 Feb 2016

Cite this article <https://doi.org/10.1080/1351847X.2015.1113195>



Full Article

Figures & data

References

Citations

Metrics

Reprints & Permissions

Read this article

Share

Abstract

Using a three-factor stochastic real option model framework, this paper examines the effects of abandonment on the investment decision. Abandonment is classified according to whether the opportunity arises for an active operating asset post-investment, or for holding the project opportunity pre-investment. Separate analytical models are developed for the alternative forms of abandonment optionality. Numerical sensitivity analysis shows that the presence of a post-investment abandonment opportunity makes the investment opportunity appear to be more attractive because of the abandonment option value, but not by a considerable amount. Also, in contrast to the standard real option finding, an abandonment value volatility increase produces a project value threshold fall owing to the increase in the abandonment option value.

Keywords:

JEL Classification:

D81

G31

H25

Acknowledgements

We thank the two anonymous referees, Michela Altieri (the discussant), Michael Flanagan, Paulo Pereira, Artur Rodrigues and other participants at the PFN Vilamoura 2014 conference for comments on earlier versions.

Disclosure statement

No potential conflict of interest was reported by the authors.

Notes

1. Some authors assume $\theta_\psi = r - \alpha_\psi$, without a risk adjustment. It is likely that these drifts may be related for some types of equipment such as cars, but not perhaps for ships, but we ignore these possibilities.
 2. In our base case, we assume zero correlation between V , K and X , that is X may not be reflective of real option investment values. This assumption is relaxed in Figures [5](#) and [10](#).
 3. A similar result is obtained for the investment cost volatility.
 4. An algebraic explanation is available from the authors.
 5. All of these numerical results are available from the authors.
-

People also read

Recommended articles

Cited by
9

The investment decision with technological and market uncertainties >

Yunfeng Fan et al.

The European Journal of Finance

Published online: 24 Jun 2018

Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up

