Author's Accepted Manuscript

Optimal capital structure and investment decisions under time-inconsistent preferences

Yuan Tian



www.elsevier.com/locate/iedo

PII: S0165-1889(16)30001-X

http://dx.doi.org/10.1016/j.jedc.2016.02.001 DOI:

DYNCON3270 Reference:

To appear in: Journal of Economic Dynamics and Control

Received date: 29 August 2015 Revised date: 24 December 2015 Accepted date: 8 February 2016

Cite this article as: Yuan Tian, Optimal capital structure and investment decisions under time-inconsistent preferences, Journal of Economic Dynamics and Control, http://dx.doi.org/10.1016/j.jedc.2016.02.001

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

ACCEPTED MANUSCRIPT

Optimal capital structure and investment decisions under time-inconsistent preferences

Yuan Tian *

Abstract Based on a continuous-time model of quasi-hyperbolic discounting, this paper provides an analytically tractable framework of entrepreneurial firms' capital structure and investment decisions under time-inconsistent preferences. Inefficiency in both investment and default is caused due to time inconsistency, if we view the time-consistent benchmark as efficient. Compared to the standard trade-off theory in corporate finance, we clarify that debt financing under time-inconsistent preferences brings a new trade-off between the alleviation effect on investmentinefficiency and the aggravation effect on default inefficiency. The impact of time-inconsistent preferences depends on the entrepreneurs' belief regarding their future time-inconsistent behavior (i.e., sophisticated or naive). Concretely, we find that naive entrepreneurs always choose higher leverages, while sophisticated ones are more likely to choose lower leverages, compared to the time-consistent benchmark. Therefore, time inconsistency can explain the observed leverage puzzle (i.e., why firms choose different leverages even with similar fundamentals). Moreover, we demonstrate that time-inconsistent preferences delay investment and hasten default, due to the interaction among the three effects: option value effect, payoff value effect, and leverage effect. In particular, naive entrepreneurs invest later and default earlier than sophisticated ones, leading to a shorter operating period. These results support the empirical findings in entrepreneurial finance.

Keywords: Capital structure; Investment; Default; Quasi-hyperbolic discounting; Time inconsistency

JEL classification: D92; G02; G11; G32

^{*}Faculty of Economics, Ryukoku University, 67 Tsukamoto-cho, Fukakusa, Fushimi-ku, Kyoto 612-8577, Japan. Tel: +81 75 645 8460. Fax: +81 75 645 6444. E-mail address: tian@econ.ryukoku.ac.jp

Download English Version:

https://daneshyari.com/en/article/5098190

Download Persian Version:

https://daneshyari.com/article/5098190

<u>Daneshyari.com</u>