Business Relationships, Trade Credit,

and Idiosyncratic Shocks

Tyler J. Wake

October 11, 2023

Abstract

This paper presents a model of the joint determination of trade credit and business relation-

ships and shows how they responded to the supply-chain disruptions in the Covid-19 pandemic.

In a frictional, decentralized market for inputs, final-good retailers and input suppliers form

durable business relationships, which support endogenous trade credit through punishment.

Retailers who default lose access to inputs and forego production while searching for a new

match. Using corporate 10-K disclosures of business relationships, along with financial data

from Compustat, the model is calibrated to match 2019 data on trade credit and matching:

trade credit finances between 50% and 66% of business-to-business sales and matching rates are

32% annually. In 2020 and 2021, business relationships were destroyed at 13% and 21% higher

rates than the ten-year average. As a result of elevated relationship risk, model-predicted

business-to-business sales decline 37% and output declines 23% in 2020. Had trade credit not

declined, counterfactual business-to-business sales and output would have only fallen 16.8% and

7.9%, respectively. In total, the tightening of trade credit for 10-K firms cost \$147b in business-

to-business sales and \$268b in output (1.3% of U.S. GDP in 2020).

Keywords: business relationships, trade credit

JEL Classification: L14, G32

1