

# A Model of Supplier Finance

Bo Hu<sup>1</sup>   Makoto Watanabe<sup>2</sup>   Jun Zhang<sup>3</sup>

<sup>1, 3</sup> Fudan University

<sup>2</sup>KIER, Kyoto University

NYU Shanghai

May 15, 2025

# Supplier Finance (SF)

- ▶ Supplier finance (supply chain finance or reverse factoring) is enabled by advances in digital finance.
  - ▶ a buyer firm offers suppliers an early payment program
  - ▶ tailored liquidity support for suppliers
- ▶ SF gained traction among many large buyer firms.
  - ▶ Retailers: Walmart, Alibaba, JD.com, Carrefour, etc.
  - ▶ Manufacturers: GE, Lenovo, Philips, Sony, Samsung, etc.
- ▶ Market size of SF
  - ▶ The global SF market was estimated at \$1.8 trillion (2021).
  - ▶ It was growing at annual rates of 15% – 20% (2019–2024).

# The Co-op Partners with PrimeRevenue to Protect Suppliers Amid Economic Volatility



## NEWS

tags: [Supplier Perspective](#), [Supply Chain Finance](#)



By [PrimeRevenue](#) • Published August 11, 2020 • 4 minute read

*UK's sixth largest food retailer makes strategic transition to PrimeRevenue platform*

**Atlanta, GA – Manchester, UK, August 11, 2020** – PrimeRevenue, the leading platform for working capital finance solutions, and The Co-operative Group, today announce a new supply chain finance partnership. Barclays Bank PLC, who introduced The Co-op to PrimeRevenue, will be providing funding on the supply chain finance programme followed by other financial institutions as the programme grows.

Co-op has made the strategic decision to partner with PrimeRevenue for its new supply chain finance offering. Fueled by a highly challenging business climate heightened by the pandemic, the company aims to offer suppliers a simple method of early payment to help with their cash flow without having a detrimental impact to Co-op's own cash position. This is particularly relevant in the current environment where the old adage "cash is king" has never been truer.

# How does supplier finance work?

1. Co-op launches a supplier finance program (collaborates with a fintech company called PrimeRevenue):
  - ▶ Co-op *selects suppliers* into the program;
  - ▶ Co-op *delays payment* to participating suppliers.
2. Once joining the program, suppliers can opt to
  - ▶ Hold invoices to maturity;
  - ▶ Sell unpaid invoices to Co-op for **early payment**.
3. Co-op pays the full invoice amount at maturity.

# Three puzzling facts of supplier finance

1. Divergence in Adoptions: Why do many leading buyer firms choose not to adopt SF?
  - ▶ Aldi, IKEA, Costco, Amazon, etc.
2. Trade Credit Extensions: Why do SF require suppliers to give more trade credit to the larger, capital-rich buyer firm?
  - ▶ A central theme in the trade credit literature.
3. Selective Inclusion: Why do buyer firms offer SF only to a selected set of suppliers?
  - ▶ Access is usually only by invitation.

# Related literature

- ▶ Supply Chain Finance:
  - ▶ Tunca & Zhu (2017); Kouvelis & Xu (2021)
  - ▶ One buyer firm with many suppliers
- ▶ Multi-product intermediaries:
  - ▶ Rhodes, Watanabe & Zhou (2021)
  - ▶ Liquidity provision and intermediaries' retail advantages
- ▶ Banking and Money (Diamond-Dybvig model)
  - ▶ Heterogeneous suppliers and selective inclusion
- ▶ Trade credit
  - ▶ Petersen & Rajan (1997); Burkart & Ellingsen (2004); Cunat (2007); Nocke & Thanassoulis (2014)
  - ▶ Reallocation of trade credit among suppliers

# The Model

# Agents

- ▶ A mass of suppliers:
- ▶ A mass of consumers:
- ▶ One intermediary (buyer-firm):



# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
- ▶ One intermediary (buyer-firm):

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
- ▶ One intermediary (buyer-firm):

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
- ▶ One intermediary (buyer-firm):
  - ▶ access to the retail and finance technologies (more below)

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
- ▶ One intermediary (buyer-firm):
  - ▶ access to the retail and finance technologies (more below)
- ▶ Endowments
  - ▶ There is a *numeraire* good (used as a payment)

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
  - ▶ Consumers have enough endowment of numeraire
- ▶ One intermediary (buyer-firm):
  - ▶ access to the retail and finance technologies (more below)
- ▶ Endowments
  - ▶ There is a *numeraire* good (used as a payment)

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
  - ▶ Consumers have enough endowment of numeraire
- ▶ One intermediary (buyer-firm):
  - ▶ access to the retail and finance technologies (more below)
  - ▶ Intermediary has an endowment  $L \geq 0$  (exogenous for now)
- ▶ Endowments
  - ▶ There is a *numeraire* good (used as a payment)

# Agents

- ▶ A mass of suppliers:
  - ▶ Each produces a unique and indivisible good
  - ▶ Constant marginal costs,  $c \in [\underline{c}, \bar{c}]$ , differ among suppliers
  - ▶  $c$  is publicly observable
  - ▶ Suppliers have no endowment
- ▶ A mass of consumers:
  - ▶ Unit demand for each good, *common* utility  $u > \bar{c}$
  - ▶ Consumers have enough endowment of numeraire
- ▶ One intermediary (buyer-firm):
  - ▶ access to the retail and finance technologies (more below)
  - ▶ Intermediary has an endowment  $L \geq 0$  (exogenous for now)
- ▶ Endowments
  - ▶ There is a *numeraire* good (used as a payment)

# Trade and liquidity shocks

- ▶ Suppliers can trade directly with consumers
  - ▶ each supplier can meet all consumers, trade bilaterally
  - ▶ trade surplus is split equally:  $p - c = (u - c)/2$
  - ▶ this particular solution does not matter for our results



# Trade and liquidity shocks

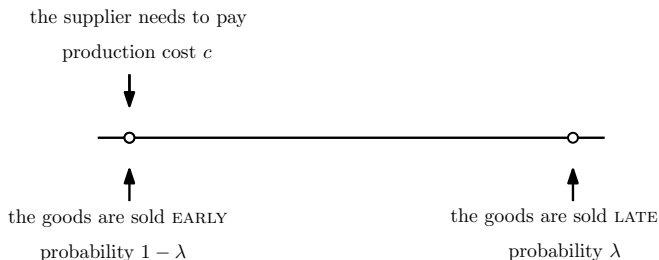
- ▶ Suppliers can trade directly with consumers
  - ▶ each supplier can meet all consumers, trade bilaterally
  - ▶ trade surplus is split equally:  $p - c = (u - c)/2$
  - ▶ this particular solution does not matter for our results
- ▶ Trade may not occur due to liquidity shocks

# Trade and liquidity shocks

- ▶ Suppliers can trade directly with consumers
  - ▶ each supplier can meet all consumers, trade bilaterally
  - ▶ trade surplus is split equally:  $p - c = (u - c)/2$
  - ▶ this particular solution does not matter for our results
- ▶ Trade may not occur due to liquidity shocks
- ▶ Suppliers (with no endowment) face no liquidity issue in a frictionless world
  - ▶ retail revenue can be used to cover production costs  $c$

# Trade and liquidity shocks

- ▶ Suppliers can trade directly with consumers
  - ▶ each supplier can meet all consumers, trade bilaterally
  - ▶ trade surplus is split equally:  $p - c = (u - c)/2$
  - ▶ this particular solution does not matter for our results
- ▶ Trade may not occur due to liquidity shocks
- ▶ Suppliers (with no endowment) face no liquidity issue in a frictionless world
  - ▶ retail revenue can be used to cover production costs  $c$
- ▶ Supplier's liquidity issue matters when:
  - ▶ disparity exists in the timing between production and trade.
  - ▶ a liquidity shock prevents suppliers from using retail revenue to cover production costs.



- ▶ There are two sub-periods: *early* and *late*.
  - ▶ Production is possible only in the *early* sub-period.
  - ▶ Suppliers may match with consumers *early or late*.
- ▶ With probability  $1 - \lambda$ : a supplier matches with consumers early,  $c$  can be covered using revenue
- ▶ With probability  $\lambda$ : a supplier matches with consumers late  $c$  can not be covered using revenue (i.e., **liquidity shock**)

# Interpret liquidity shocks from retail technologies

No trade occurs because of limited retail technologies possessed by suppliers.

- ▶ Display/advertisement: Consumers buy only after inspection & Display can be early or late
- ▶ Delivery/inventory : Consumers pay only after delivery & Delivery can be early or late
- ▶ Production-to-Order: Order and payment by consumers could occur early if communicated well

## Ex ante heterogeneity of suppliers

- ▶ Each supplier is indexed by

$$(\lambda, c) \in \Omega = [0, 1] \times [\underline{c}, \bar{c}],$$

$\lambda$  is the probability of liquidity shock,  $c$  is marginal cost;  
 $(\lambda, c)$  follows C.D.F.  $G(\lambda, c)$ , publicly observable.

The intermediary selects suppliers into one of the modes:

1. Middleman mode (M), pure middleman
2. Finance mode (F), middleman and liquidity provider

## Middleman mode (M)

- ▶ The intermediary sells on behalf of suppliers
  - ▶ Intermediary's probability of a liquidity shock:  $m\lambda$
  - ▶  $m < 1$ : intermediary's matching advantage over the original suppliers (Rubinstein and Wolinsky 1987)
- ▶ The intermediary gives TILI offers to selected suppliers:
  - ▶  $c$  needs to be covered by the supplier himself
  - ▶ Transfer  $f_M(\lambda, c)$  immediately after consumers pay
  - ▶  $f_M$  compensates suppliers direct selling value  $(1 - \lambda)(u - c)/2$ .
- ▶ Supplier  $(\lambda, c)$  contributes profits:

$$\pi_m(\lambda, c) = \underbrace{(1 - m)\lambda(u - c)/2}_{\equiv (1 - m\lambda)\frac{u - c}{2} - (1 - \lambda)\frac{u - c}{2}} > 0 \text{ (since } m < 1)$$

## Finance mode (F)

- ▶ The intermediary sells on behalf of suppliers **and** provides liquidity.
- ▶ Intermediary gives TILI offers to selected suppliers:
  - ▶ Transfer a reward  $f_F(\lambda, c)$  at the end of the period
  - ▶ Costs  $c$  are covered by intermediary at the time of production
- ▶ Supplier  $(\lambda, c)$  contributes profit:

$$\pi_F(\lambda, c) = \lambda(u - c)/2 - k$$

$k > 0$  : per-seller cost of early payment program;



## Finance mode (F)

- ▶ The intermediary sells on behalf of suppliers **and** provides liquidity.
- ▶ Intermediary gives TILI offers to selected suppliers:
  - ▶ Transfer a reward  $f_F(\lambda, c)$  at the end of the period
  - ▶ Costs  $c$  are covered by intermediary at the time of production
- ▶ Supplier  $(\lambda, c)$  contributes profit:

$$\pi_F(\lambda, c) = \lambda(u - c)/2 - k$$

$k > 0$  : per-seller cost of early payment program;  
and contributes liquidity (at the time of production):

$$\theta_F(\lambda, c) = (1 - m\lambda)p - c = (1 - m\lambda)(u + c)/2 - c$$

## Intermediary's problem

- The intermediary selects suppliers into two modes:

$$\max_{q(\cdot) \in \{0,1\}} \int_{\Omega} \left( (1 - q(\lambda, c)) \pi_M(\lambda, c) + q(\lambda, c) \pi_F(\lambda, c) \right) dG$$

subject to the liquidity constraint:

$$\underbrace{\int_{\Omega} q(\lambda, c) \theta_F(\lambda, c) dG}_{\text{total liquidity}} + L \geq 0.$$

## Intermediary's problem

- ▶ The intermediary selects suppliers into two modes:

$$\max_{q(\cdot) \in \{0,1\}} \int_{\Omega} \left( (1 - q(\lambda, c)) \pi_M(\lambda, c) + q(\lambda, c) \pi_F(\lambda, c) \right) dG$$

subject to the liquidity constraint:

$$\underbrace{\int_{\Omega} q(\lambda, c) \theta_F(\lambda, c) dG}_{\text{total liquidity}} + L \geq 0.$$

- ▶ The object is equivalent to

$$\max_{q(\cdot)} \int_{\Omega} \left( \pi_M(\lambda, c) + q(\lambda, c) \Delta \pi(\lambda, c) \right) dG,$$

where  $\Delta \pi(\cdot) = \pi_F(\cdot) - \pi_M(\cdot)$ .

# Profit-maximizing selection policy

- ▶ The intermediary's problem can be solved using the Lagrangian:

$$\mathcal{L} = \int_{\Omega} \left[ \pi_M(\cdot) + q(\cdot) \left( \Delta\pi(\cdot) + \mu\theta_F(\cdot) \right) \right] dG(\lambda, c)$$

- ▶  $\mu \geq 0$ : The shadow value of liquidity
- ▶ The optimal selection rule is:

$$q(\lambda, c, \mu) = \begin{cases} 1 & \text{if } \Delta\pi(\lambda, c) + \mu\theta_F(\lambda, c) \geq 0 \\ 0 & \text{otherwise} \end{cases}$$

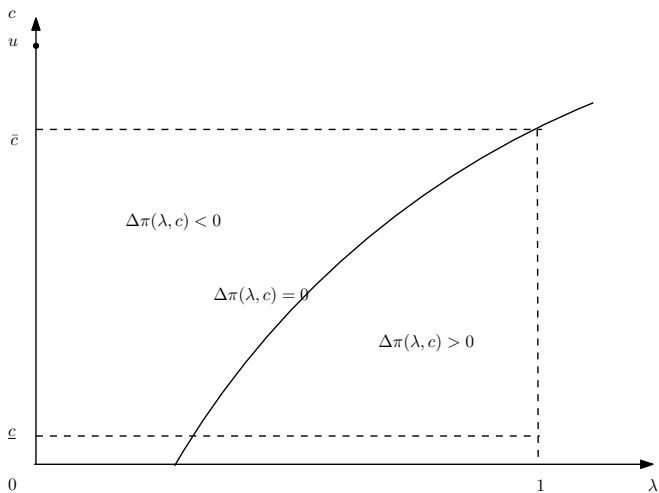


Figure: Incremental profit  $\Delta\pi \equiv \pi_F - \pi_M$

$$\Delta\pi(\lambda, c) = m\lambda(u - c)/2 - k$$

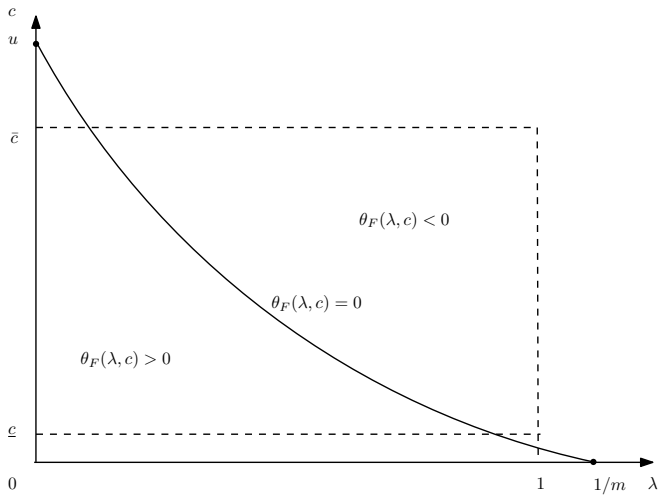


Figure: Liquidity  $\theta_F(\lambda, c)$

$$\theta_F(\lambda, c) = (1 - m\lambda)(u + c)/2 - c$$

## Proposition (Profit-based liquidity cross-subsidization)

*The intermediary optimally selects suppliers from three regions*

- ▶ *Region A: positive profit and positive liquidity contributions*

$$\Delta\pi(\lambda, c) \geq 0, \quad \theta_F(\lambda, c) \geq 0$$

- ▶ *Region B: positive profit and negative liquidity*

$$\Delta\pi(\lambda, c) > 0, \quad \theta_F(\lambda, c) < 0, \quad \underbrace{-\pi/\theta_F}_{\text{returns}} \geq \mu$$

- ▶ *Region C: negative profit and positive liquidity*

$$\Delta\pi(\lambda, c) < 0, \quad \theta_F(\lambda, c) > 0, \quad \underbrace{-\pi/\theta_F}_{\text{costs}} \leq \mu$$

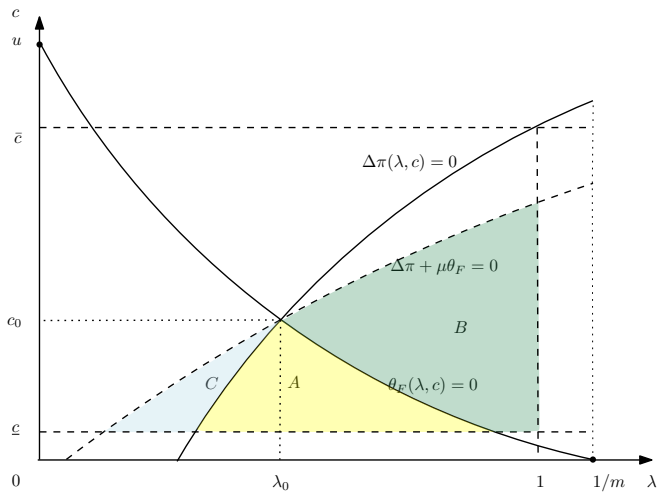


Figure: Profit-based liquidity cross-subsidization



## Proposition

*Supplier finance is active whenever  $\Delta\pi(1, \underline{c}) < 0$ , or*

$$k/m < (u - \underline{c})/2.$$

*When supplier finance is active, suppliers are selected and liquidity is cross-subsidized ( $\mu > 0$ ).*

Intuitions:

- ▶ Smaller  $k$ : less costly fintech.
- ▶ Larger  $m$ : lower inventory turnover.
- ▶ This proposition answers all three puzzles  
(1) adoption, (2) trade credit extension, (3) selective inclusion.

## Generalizing supplier outside options

- ▶ Suppose suppliers have a direct selling value of  $w(\lambda, c)$  assuming  $w(\lambda, c) < (1 - m\lambda)(u - c)/2$
- ▶ We have

$$\Delta\pi(\lambda, c) = m\lambda(u - c)/2 - k,$$

since

$$\pi_F(\lambda, c) = (u - c)/2 - w(\lambda, c) - k,$$

$$\pi_M(\lambda, c) = (1 - m\lambda)(u - c)/2 - w(\lambda, c).$$

## Endogenous liquidity holdings $L$

# Determination of $\mu$

The liquidity constraint determines  $\mu = \mu(L)$ :

$$\int_{\Omega} q(\lambda, c, \mu) \theta_F(\lambda, c) dG + L = 0$$

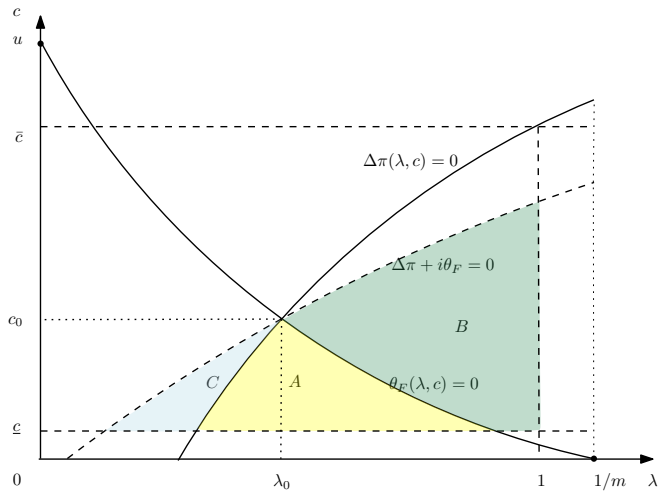
- ▶  $\mu(L) = 0$ : liquidity does not matter for selecting suppliers; selection is solely based on  $\Delta\pi(\lambda, c)$
- ▶  $\mu(L) > 0$ : liquidity cross-subsidization, strictly decreases in  $L$
- ▶  $\mu(0)$ : the liquidity value at  $L = 0$ , or shadow price of the first marginal unit of liquidity

# Endogenous $L$

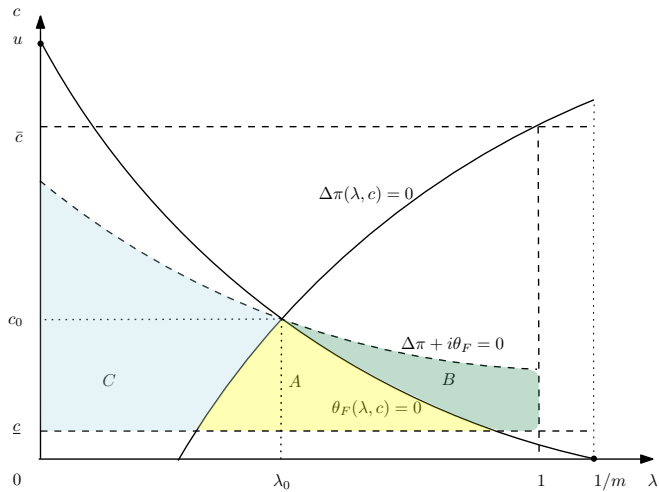
- ▶ Suppose the intermediary faces a liquidity cost in the money market  $i$  (nominal interest rate).
- ▶ The intermediary's liquidity holdings  $L \geq 0$ , which is strictly decreasing in  $i \in (0, \mu(0))$ , satisfying:

$$\begin{cases} \mu(L) = i & \text{if } i < \mu(0); \\ L = 0 & \text{if } i \geq \mu(0). \end{cases}$$

- ▶ The equilibrium liquidity value  $\mu = \min\{\mu(0), i\}$  is jointly shaped by
  - ▶ Richness of suppliers' liquidity:  $\mu(0)$
  - ▶ Cost of outside market liquidity:  $i$



Positively-sloped selection curve



Negatively-sloped selection curve

# Welfare



# Welfare

- ▶ Incremental total surplus for finance:

$$\Delta v(\lambda, c) = m\lambda(u - c) - k.$$

- ▶ A planner subjected to liquidity shocks will adopt liquidity cross-subsidization.
- ▶ Social welfare can increase when funding cost  $i$  is higher.

When  $i = 0$

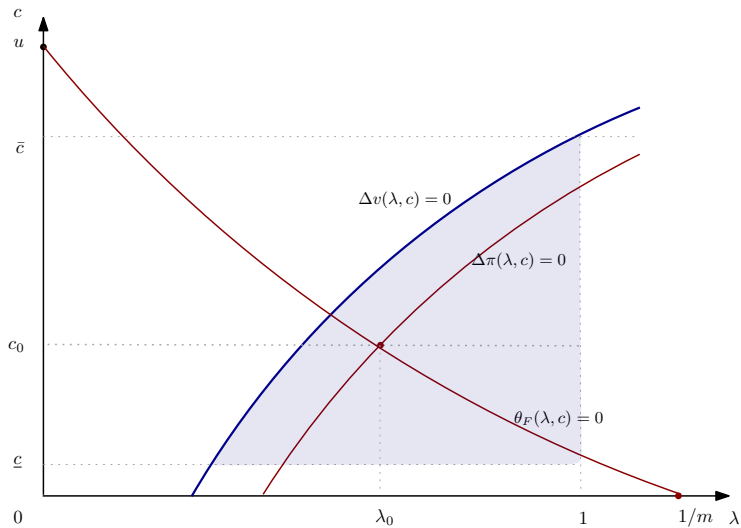


Figure: Supplier finance is welfare improving

When  $i > 0$

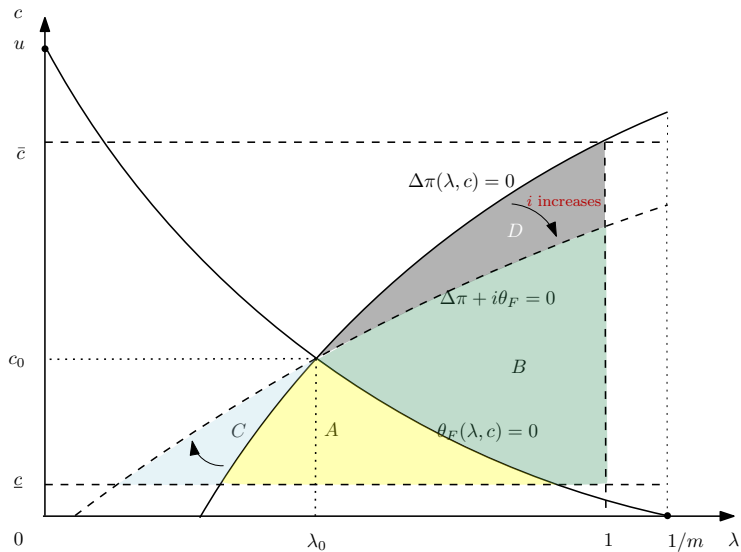


Figure: Marginal suppliers as  $i$  increases from  $i = 0$

When  $i > 0$

### Proposition (Non-zero external funding rates)

*Suppose  $\mu(0) > 0$ , and  $(\lambda, c)$  follows a uniform distribution.*

*There exists  $m^* > 0$  and  $k^* > 0$  such that if  $m < m^*$  or  $k < k^*$ , marginally increasing  $i$  from  $i = 0$  improves welfare.*

Intuition:x

- ▶ As  $i$  increases, finance mode excludes suppliers with positive  $\Delta\pi(\lambda, c)$  and includes suppliers with positive  $\theta(\lambda, c)$
- ▶ Trading volume increases when  $C$  is sufficiently higher than  $D$
- ▶ Graphically, if either  $m$  or  $k$  is sufficiently small,  $D$  is also sufficiently small

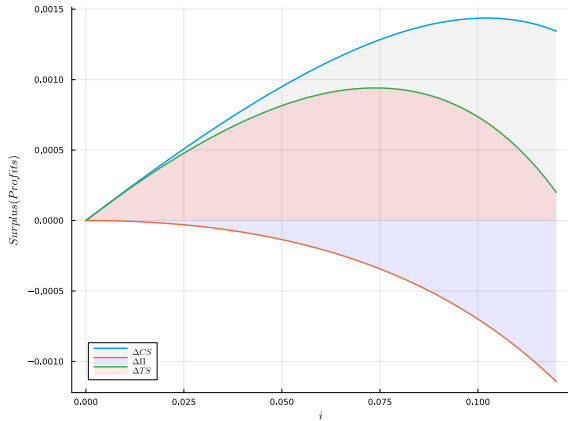


Figure: Welfare is non-monotonic in  $i$  under uniform distribution of  $(\lambda, c)$

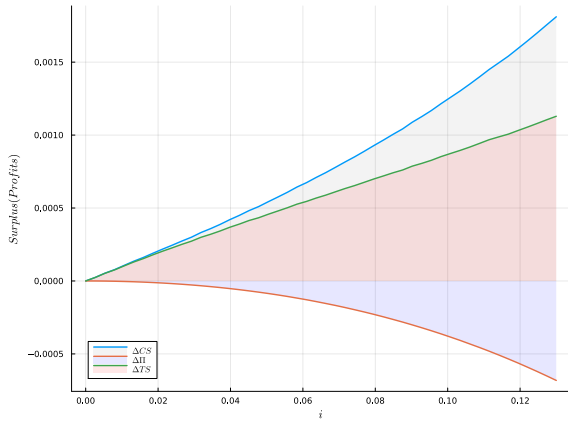
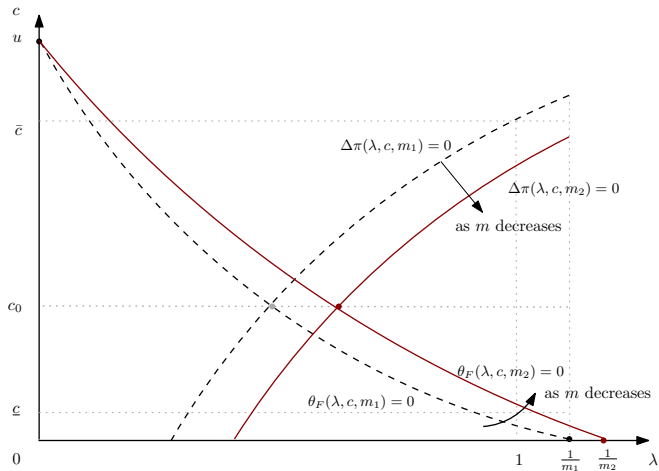


Figure: Welfare increases in  $i$  under Beta distributions of  $\lambda$  and  $c$

## Matching efficiency and liquidity provision

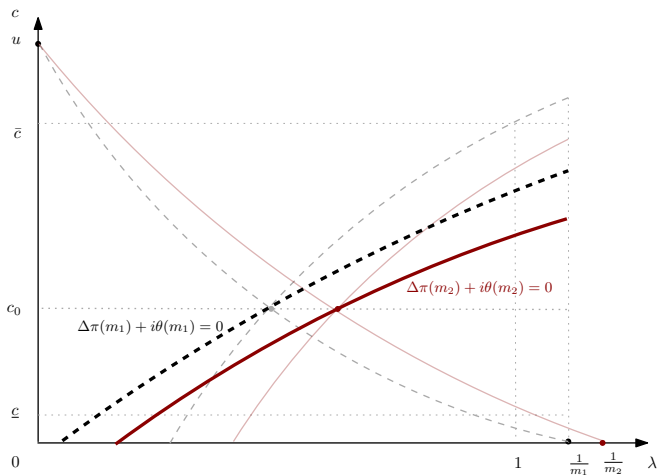


Effects of changes in matching efficiency  $m$ :

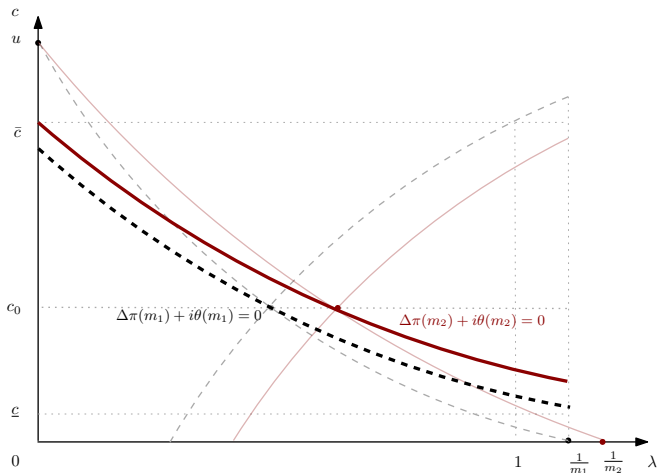
$$\Delta\pi(\lambda, c) = m\lambda(u - c)/2 - k$$

$$\theta_F(\lambda, c) = (1 - m\lambda)(u + c)/2 - c$$



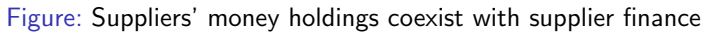


- If the selection curve is upward-sloping, SF shrinks as  $m$  decreases from  $m_1$  to  $m_2$  (matching efficiency improves)



- If the selection curve is downward-sloping, SF expands as  $m$  decreases  $m_1$  to  $m_2$  (matching efficiency improves)

## Suppliers' access to money market



## Proposition

Suppose  $\lambda_0 < 1$ ,  $\underline{c} > 0$ ,  $i < \frac{k\bar{\lambda}}{mu\bar{\lambda}-2k}$ , and suppliers face money market rate  $i^s$ . There exist thresholds  $i < \underline{i}^s < \bar{i}^s \equiv \frac{(u-\underline{c})\bar{\lambda}}{2\underline{c}}$  such that:

- ▶ If  $i^s \leq \underline{i}^s$ , suppliers with  $c \leq c^s(\lambda, i^s)$  hold money for liquidity, and supplier finance stays inactive.
- ▶ If  $i^s \geq \bar{i}^s$ , no supplier holds money, and supplier finance is activated for some suppliers.
- ▶ If  $i^s \in (\underline{i}^s, \bar{i}^s)$ , suppliers with  $c \leq c^s(\lambda, i^s)$  have money, while supplier finance activates for other suppliers.

# Manufacturing supplier finance

# Manufacturing supplier finance

- ▶ A manufacturer ( $M$ ) produces final goods using homogeneous intermediate goods sourced from suppliers.
- ▶ Suppliers are indexed by  $(\lambda, c)$ . Each can produce at most one unit of intermediate goods.
  - ▶ With prob  $\lambda$ , the supplier does not have liquidity to buy the required inputs.
- ▶ Let  $I$  be the total amount of intermediate goods, and impose a linear production function  $Q(I) = I$ .
- ▶ In retail market, price is normalized to one. A fraction  $\alpha$  consumers purchase the final goods in early subperiod, and  $1 - \alpha$  purchase in late subperiod.

- ▶  $M$  sources intermediate goods from two channels.
- ▶ **Wholesale market:** with prob  $1 - \lambda$ , the supplier can produce and show in wholesale market, price is  $w(c)$ .

$$\pi_W(\lambda, c) = (1 - \lambda)(1 - w(c)),$$

$$\theta_W(\lambda, c) = (1 - \lambda)(\alpha - w(c)).$$

- ▶ **Supplier finance:**  $c$  is financed, the supplier produces & delivers for sure;  $M$  pays  $f(\lambda, c)$  to the supplier in late subperiod.

$$\pi_F(\lambda, c) = 1 - c - (1 - \lambda)(w(c) - c) - k,$$

$$\theta_F(\lambda, c) = \alpha - \lambda c.$$



- The manufacturer's problem is to choose  $q(\cdot) \in \{0, 1\}$  to maximize:

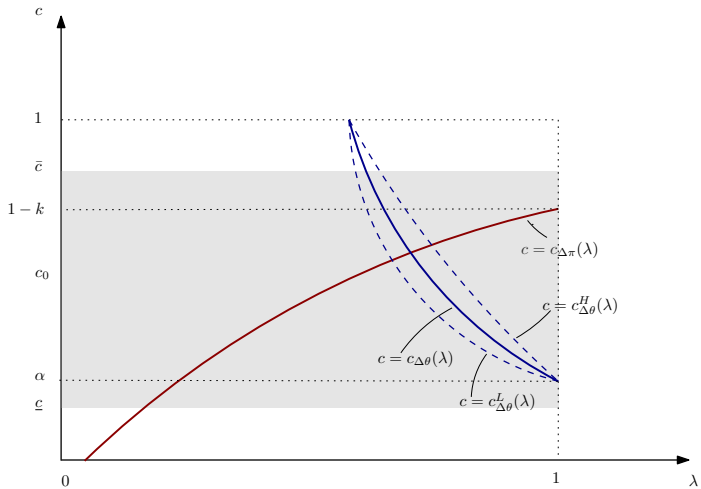
$$\int_{\Omega} \left( q(\lambda, c) \pi_F(\lambda, c) + (1 - q(\lambda, c)) \pi_W(\lambda, c) \right) dG,$$

subject to the liquidity constraint:

$$\int_{\Omega} \left( q(\lambda, c) \theta_F(\lambda, c) + (1 - q(\lambda, c)) \theta_W(\lambda, c) \right) dG + L \geq 0.$$

- $q(\cdot) = 1$  if and only if

$$\Delta\pi + \mu\Delta\theta \geq 0.$$



**Figure:** Manufacturer financing selection under linear production function

# Policy implications: sleeping risks

THE WALL STREET JOURNAL

Latest World Business U.S. Politics Economy Tech **Markets & Finance** Opinion Arts Lifestyle

MARKETS

## Supply-Chain Finance Is New Risk in Crisis

Experts say the economic slowdown could expose weak spots in the arrangements



A “sleeping risk” on the books of U.S. businesses could be awakened by the pandemic, as the sudden cash crunch exposes a hidden type of financing that makes balance sheets look better, credit-rating firms are warning.

- ▶ Rising funding costs may trigger widespread supplier bankruptcies and substantial declines in output.
  - ▶ The buyer firm can respond to rising external funding costs by relying more on trade credit of suppliers.
  - ▶ The internal liquidity pool serves as a buffer against funding cost pressures.

# Policy implications: window dressing

- ▶ Buyer firms tend to record payment obligations as accounts payable rather than debt to understate leverage.
- ▶ Window-dressing is not an intrinsic feature of SF.
- ▶ External liquidity utilization depends on the characteristics of the supplier pool ( $\mu(0)$ ).
- ▶ More transparency in supplier finance agreements is needed for investors to evaluate the magnitude of window dressing.

## Disclosure of Supplier Finance Program Obligations

### Accounting Standards Update 2022-04—Liabilities—Supplier Finance Programs (Subtopic 405-50): Disclosure Of Supplier Finance Program Obligations

#### Overview

On September 29, 2022, the Financial Accounting Standards Board ([FASB](#)) issued [Accounting Standards Update No. 2022-04, Liabilities—Supplier Finance Programs \(Subtopic 405-50\): Disclosure of Supplier Finance Program Obligations](#), to enhance the transparency about the use of supplier finance programs for investors and other allocators of capital.

# Summary

- ▶ Profit-Based Liquidity Cross-Subsidization
- ▶ Selective Inclusion
- ▶ Supplier finance mitigates the costs rise of external liquidity.
- ▶ Retail efficiency and liquidity provision can be substitutes or complements, depending on the shadow value of liquidity.
- ▶ Welfare is non-monotonic in nominal interest rates.