

Design and regulation of institutions to support MSME Access to Finance

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Outline of talk

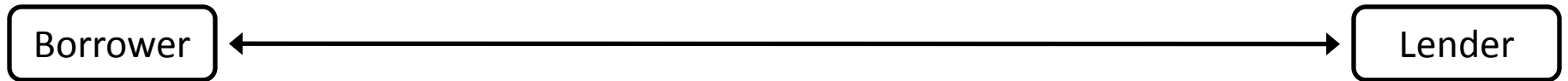
- I will focus almost solely on lending and borrowing
 - market failures
 - policies and instruments to correct market failures
 - relevance to MFI policy and regulation
 - the framework has relevance for other financial market issues (equity, insurance, ...)
- The talk has three sections
 - Credit markets – how they work and how they fail
 - Market failure and its remedies
 - Selected policy issues

1. how credit markets work

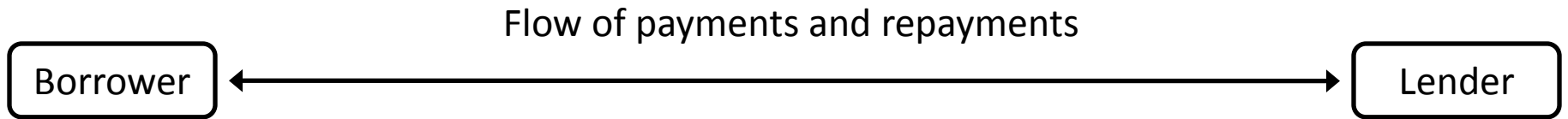
The fundamental relationship



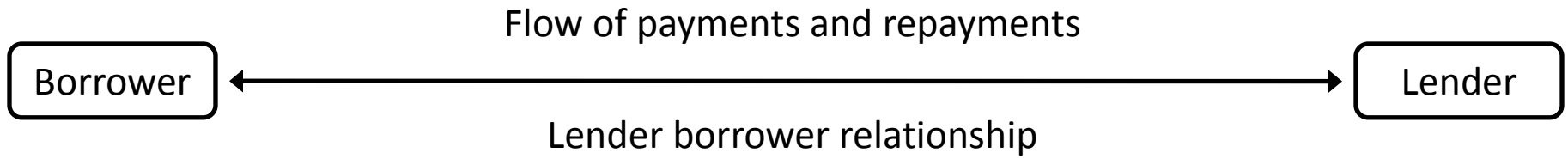
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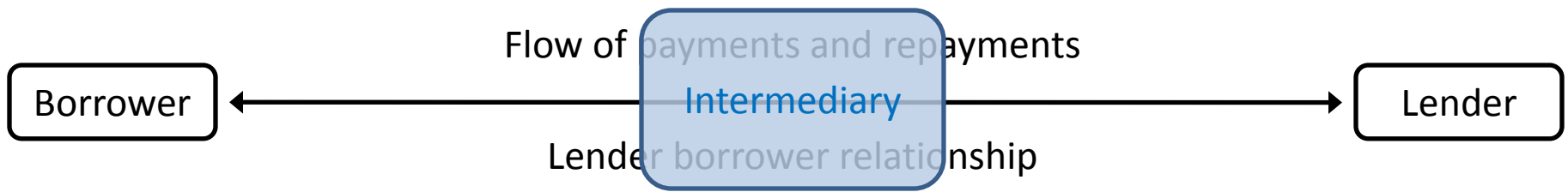


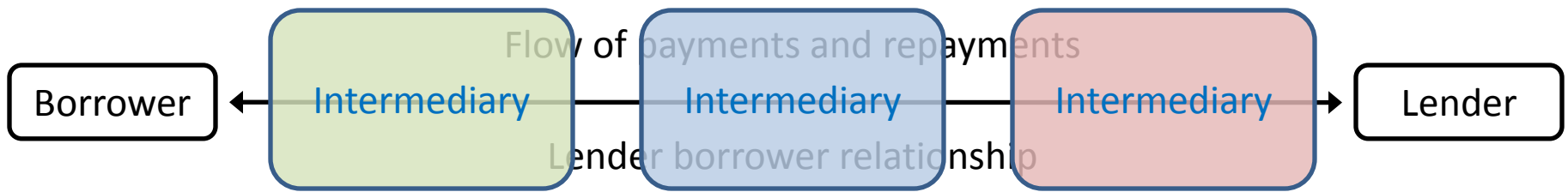
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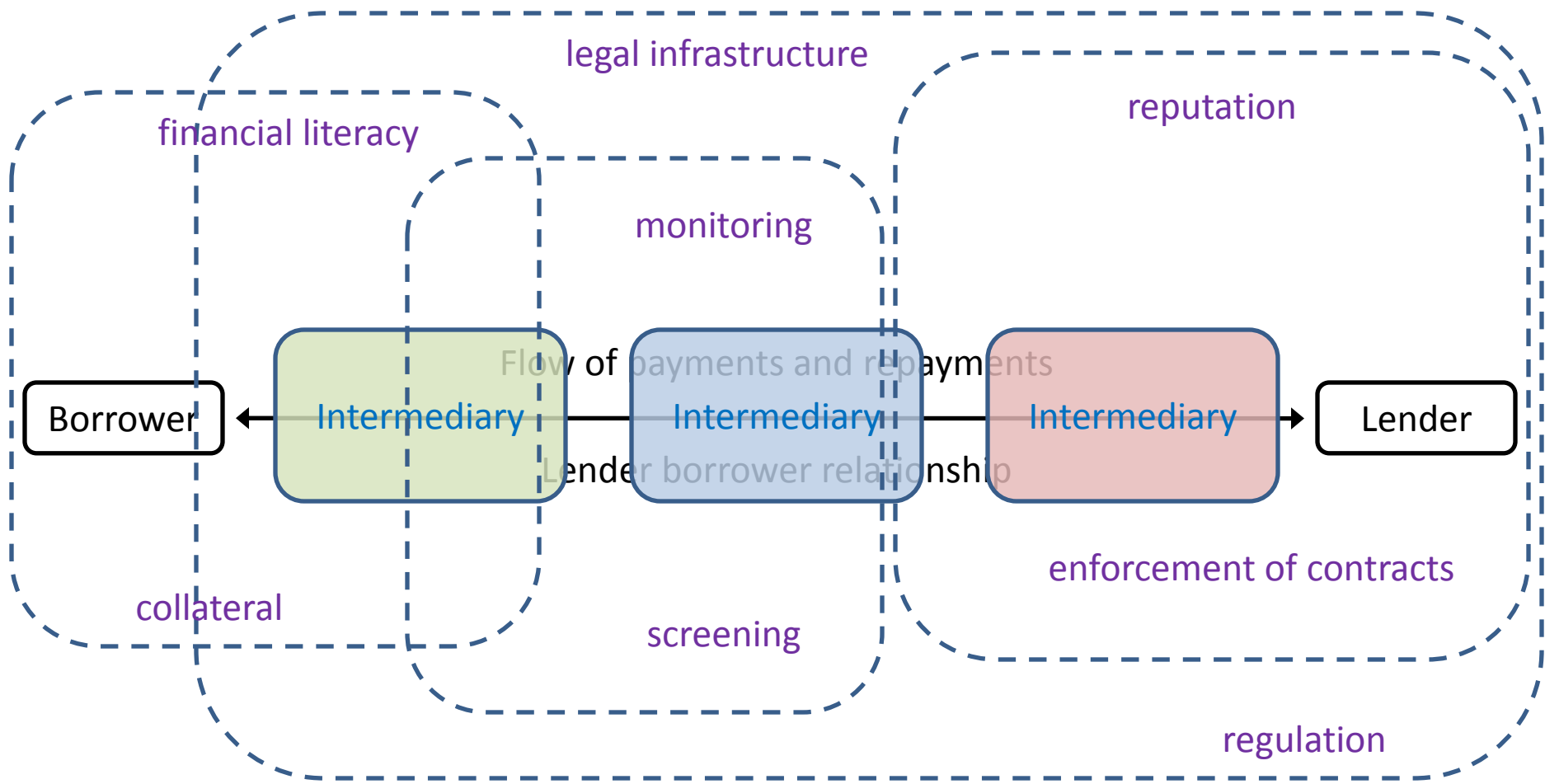


The fundamental relationship









Borrower

Intermediary

Intermediary

Intermediary

Lender

Flow of payments and repayments

Lender borrower relationship

financial literacy

collateral

legal infrastructure

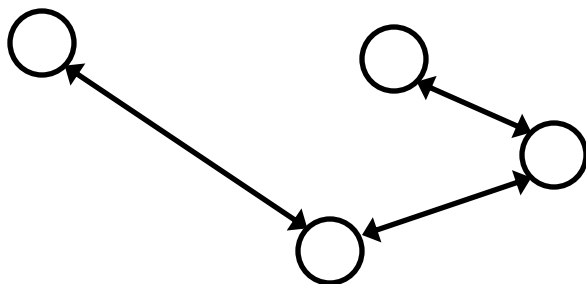
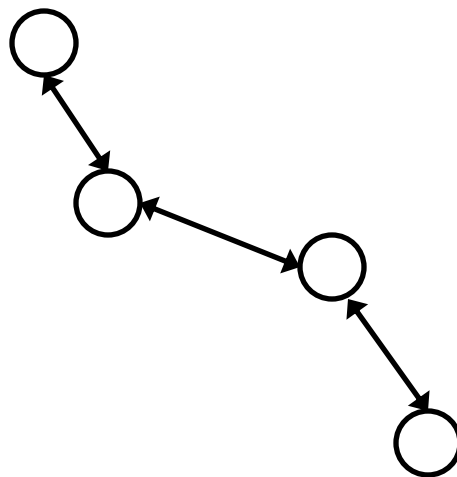
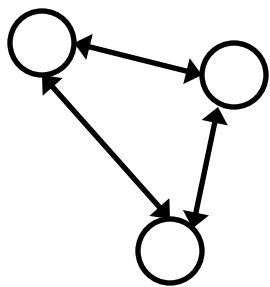
monitoring

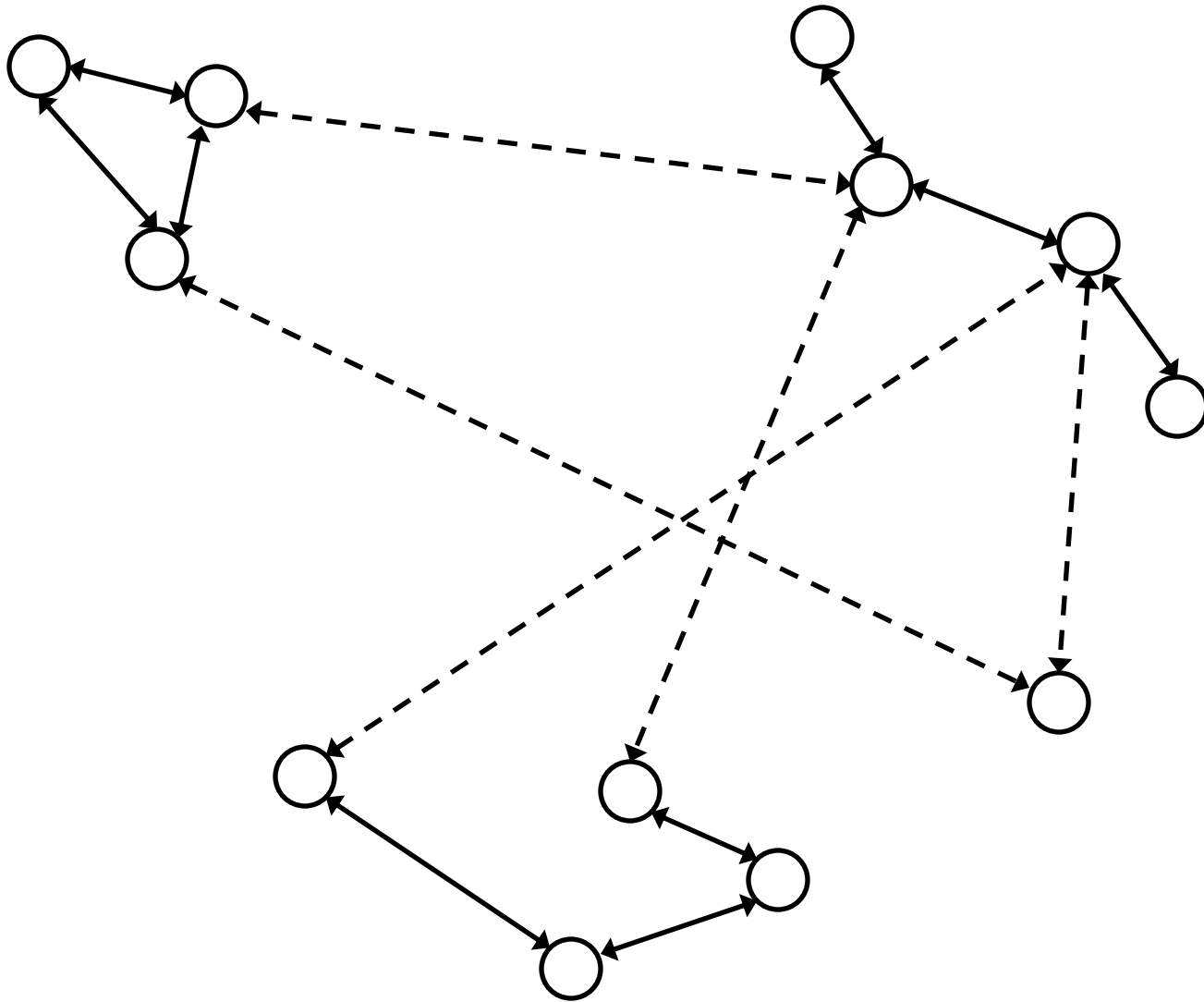
screening

reputation

enforcement of contracts

regulation

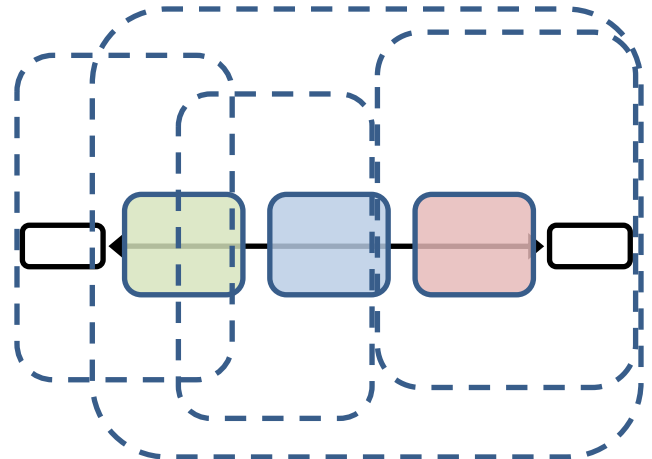
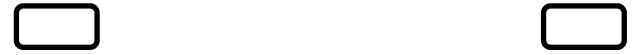




Financial integration – gains from trade

The key issues

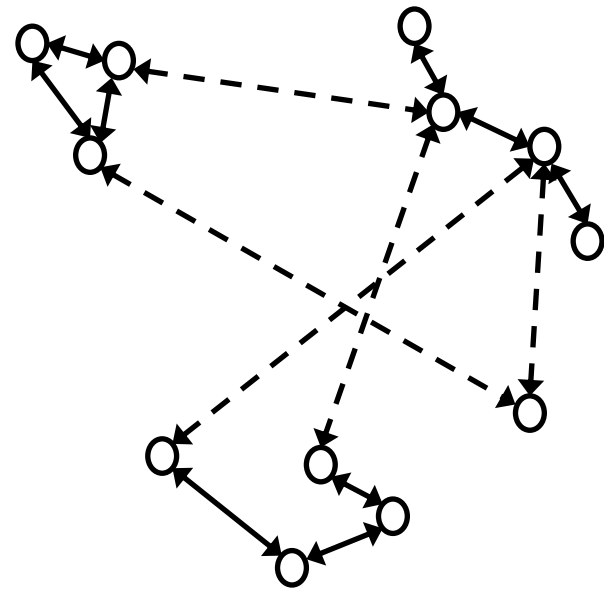
- The fundamental relationship is between an individual lender and an individual borrower
 - Intermediaries and institutions can obscure this fact
- Financial transactions are a form of cooperation
 - This is how financial markets create wealth
 - Financial institutions and regulation exist to facilitate this cooperation
- Financial transactions are voluntary
 - Both sides of the market must benefit
 - Both sides of the market must be protected from risk
- To maximise gains, lenders and borrowers need to be different
 - if we both need funds at the same time then the deal will never work
 - But this means transacting with strangers at a distance



2. market failure and its remedies

Lending to strangers at a distance

- Adverse selection
 - I do not know the borrower
 - The borrower is better informed
- Moral hazard
 - I cannot observe the borrower's behaviour
 - I cannot monitor the loan
- Sovereign risk
 - I cannot rely on contracts being enforced
 - I cannot rely on the rules not being changed
- Lending is dangerous and risky
 - Lenders will only participate if they are protected from these risks
 - Otherwise credit markets will dry up



Adverse selection – Akerlof's lemons

- Used car market.
 - Cars are of variable value, between \$0 and \$1,000.
 - Some cars are “lemons” and need to be serviced all the time
 - Only the owner knows if their car is a lemon, and its real value
 - To a buyer, all cars look the same
 - **The seller is better informed than the buyer**
- An example
 - The value varies between \$0 and \$1,000
 - The average value of cars in the market is \$500.
 - If I pay more than \$500, then on average I make a loss
 - If I pay less than \$500, then on average I make a profit
 - The market price of a used car will be \$500
- But wait, there is more ...

Adverse selection II

- If the market price is \$500, then sellers with good cars will drop out
 - I know the value of my car, and I will not sell if its value is more than \$500
 - So now the value varies between \$0 and \$500
 - The average value of cars in the market is \$250.
 - If I pay more than \$250, then on average I make a loss
 - If I pay less than \$250, then on average I make a profit
 - The market price of a used car will be \$250
- But wait, there is more ...
 - Sellers with cars worth more than \$250 will drop out
 - The price will fall to \$125, and so on
 - In equilibrium the price falls to zero and the market dries up
- This is called an adverse selection roll up
 - Gresham's law – bad money drives out good
- Adverse selection is a problem if sellers are better informed than buyers, or if buyers are better informed than sellers
 - **It is dangerous to do business with someone who is better informed than you are**

Adverse selection III

- Credit markets are like used car markets
 - borrowers are better informed than lenders about whether they are likely to default
 - selling a project to your bank manager is a bit like selling him a used car
- Adverse selection roll up
 - interest rate is set to match the default rate
 - borrowers who expect to default are not deterred
 - good borrowers drop out more quickly than risky borrowers
 - the quality of the borrowing pool deteriorates
 - the default rate goes up
 - so the interest rate has to go up even further to break even
 - the quality of borrowers deteriorates even more
 - a vicious cycle ...
- Adverse selection is the most important and most severe market failure that afflicts credit markets
 - it arises whenever **borrowers are better informed than lenders**
 - The symptoms are **high interest rates** and a **low quality pool of borrowers**
 - The effects of moral hazard are similar

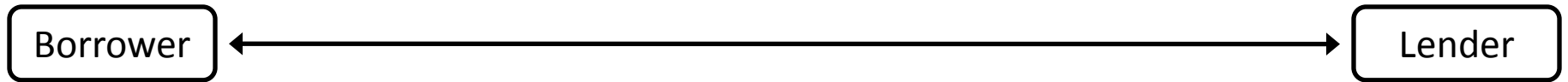
Some Remedies

- There are four key mechanisms to mitigate the market failures that afflict financial markets
 - Screening, monitoring and supervision
 - Intermediaries and delegated monitoring
 - Collateral
 - Regulation, governance, legal infrastructure

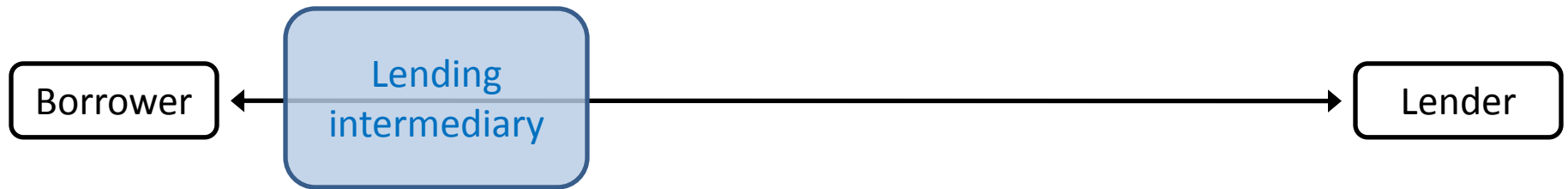
Screening, monitoring, supervision

- The most important obstacles arise from asymmetric information (borrowers are better informed than lenders)
- The obvious remedy is to deal with information problems directly
 - Screening borrowers to eliminate bad credit risks
 - Monitoring borrowers to detect bad behaviour after they have taken a loan
 - Supervision and enforcement of contracts and agreements
- This is easiest to do if you are close to the borrower
 - Local individuals are in the best position to do this
 - Local money lenders
 - Community based micro-credit methods
- All financial markets rely on these mechanisms. The challenge is to make them work on a larger scale and over greater distances.

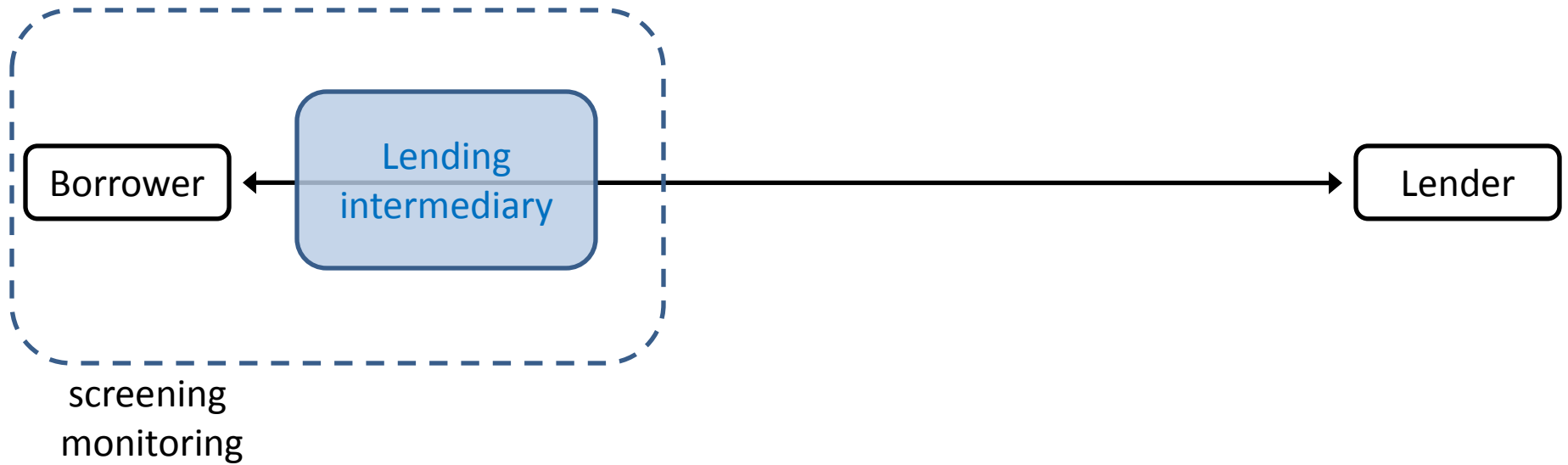
Delegated monitoring



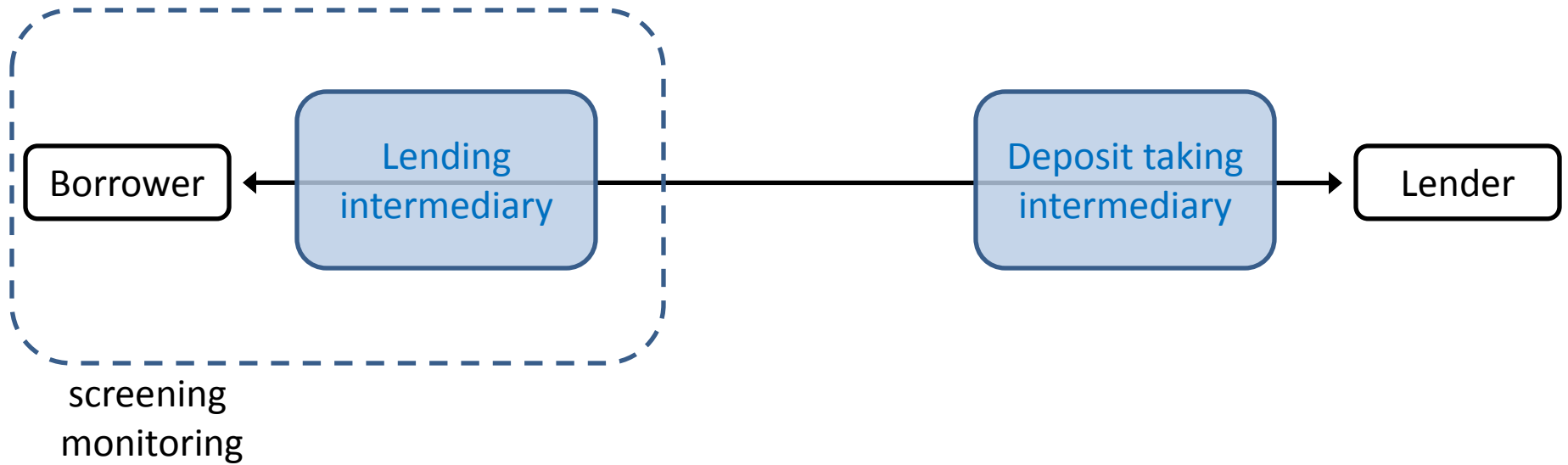
Delegated monitoring



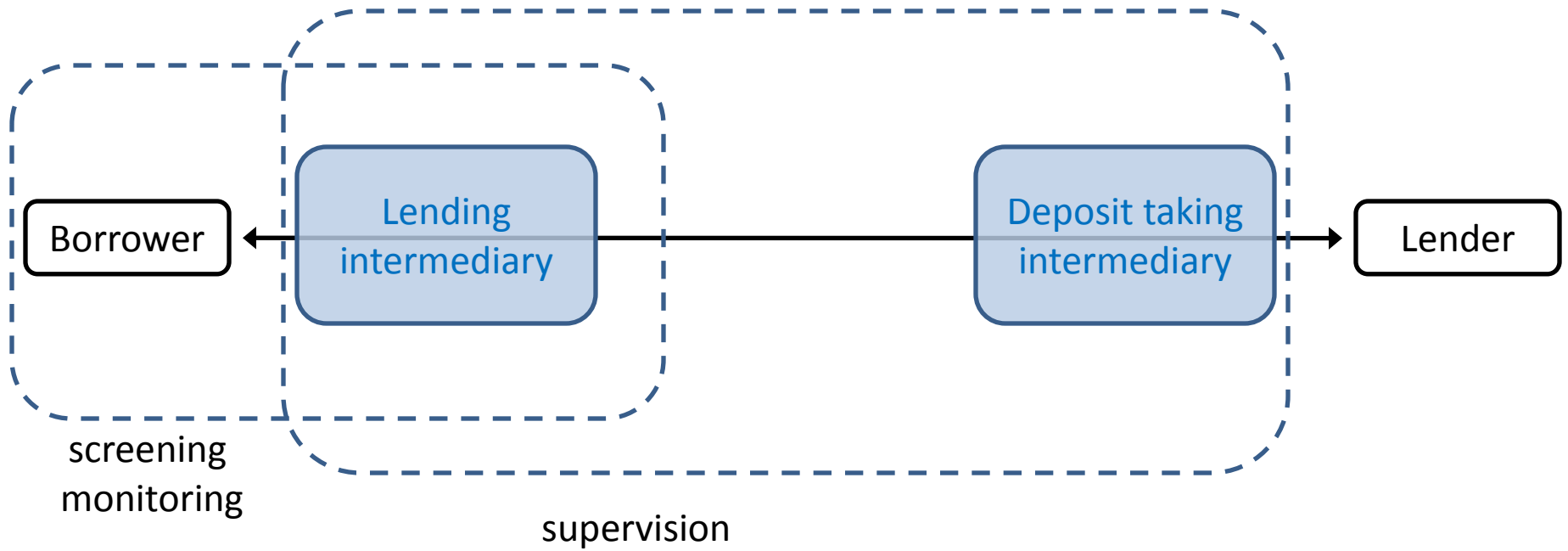
Delegated monitoring



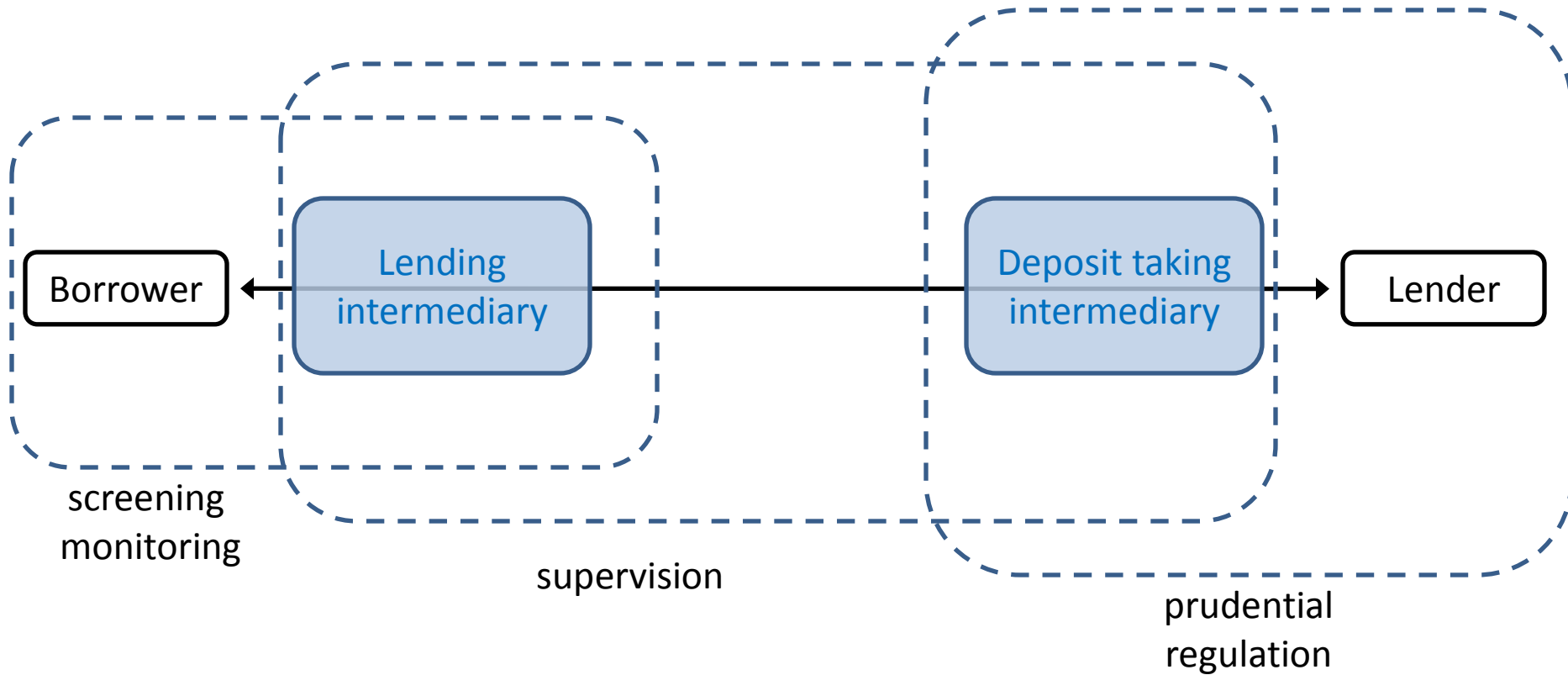
Delegated monitoring



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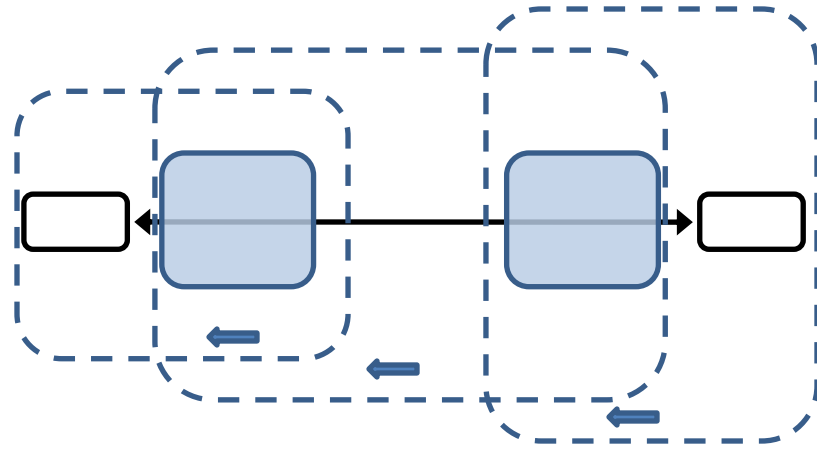


Delegated monitoring



Delegated monitoring

- Notice: at each stage we need to monitor the borrower, not the lender
- This can be useful in thinking about how to design institutions
- The role of policy is to put in place regulatory systems (eg Basel) and the legal infrastructure to support these delegated monitoring and supervision relationships.
 - What is needed will differ at different levels



Collateral

- Collateral is something of value that can be seized by the lender to guarantee that the borrower will repay.
- Which is more important: the value of the collateral to the borrower or the lender?
- Collateral serves two functions
 - It provides some protection to the lender
 - It changes the behaviour of the borrower
 - Changing behaviour is the more important of these functions
- Collateral that is more valuable to the lender than the borrower can actually have a negative effect
 - It may reduce incentives to screen and monitor
 - It may have little effect on incentives to repay
 - Credit guarantees can have this effect
- Since the value to the borrower is more important, we can be creative
 - The important innovations in micro credit have been in this area

Collateral and the poor

- Collateral plays an essential role in virtually all credit markets.
 - Since the poor have few assets, lack of collateral is a principal reason for exclusion from credit markets
- Social capital
 - Although they have little physical capital, even the very poor usually have significant social capital through their social networks and relationships.
 - One of the great discoveries by the micro-credit innovators is the development of group lending mechanisms through which social capital can be put at risk if borrowers default.
 - This mechanism also directly addresses the informational market failure
- Reputational capital
 - A powerful incentive for good behaviour is access to credit in the future, which can be harmed by default
 - A series of very small loans can be used to develop significant reputational capital which can be pledged to guarantee repayment
- Physical capital
 - Once some wealth is accumulated (land, vehicles, jewellery) then this can be used as collateral
- A stepping stones approach

Supporting collateral – the policy framework

- A setting stones approach to collateral can be a very powerful mechanism to achieve financial inclusion and financial integration
- Creating the institutional and regulatory infrastructure to support the role of collateral is a key policy goal
- Legal infrastructure to support physical collateral (asset registers etc)
- Credit bureaus
- Regulatory issues relating to information and privacy
 - Privacy concerns versus information sharing to address asymmetric information
 - Incentives and requirements for lenders to share information

3. Some policy issues

should MFI's accept deposits in their own right?

- Glass Steagall Act 1933, repealed 1999
 - separated deposit taking from investment banking
 - global financial crisis 2007-10
- There is no market failure argument to monitor and supervise depositors. These arguments apply to borrowers, not lenders
- There is no economic justification for depositors not to have access to high quality, prudentially regulated deposit taking institutions
 - delivered through deposit taking agencies, post office agencies, telephone banking ...
- Access to good savings institutions can greatly improve welfare
- MFI's are poorly placed to act as deposit takers (but well placed to act as agents)
 - lack of diversification
 - high cost of prudential regulation
 - conflict of interest

should MFI's accept deposits in their own right?

- What about cooperatives?
 - Historically and institutionally important
 - Well placed to supervise borrowing, poorly placed to accept deposits
 - Often function only with high levels of Government subsidy
 - Policy suggests that they should be encouraged to evolve towards more modern modes of financial integration
- What about forced savings?
 - a form of collateral
 - generates information
 - but: no reason that deposits cannot be pledged, and information shared
 - can prop up weak institutions
- What about generating funds to lend?
 - ultimately, lending must be a sustainable, profitable business
 - inefficient to source funds locally (diversification)
 - transitional policies may be required, but it is more appropriate that these be funded by Government and NGO's than by local forced savings

Will borrowers borrow too much?

- Borrower sovereignty
 - Informed consent
 - Financial literacy, consumer protection
 - Ex ante / ex post evaluation
- Getting into trouble, ex post, is not evidence that access to credit did not create value for both sides
 - the correct way to evaluate a decision is when the decision is made, not with hindsight
 - that is, ex ante
 - I know that sometimes I may have a car accident; this does not mean that I would be better off if I did not have access to a car
- When might borrowers borrow too much?
 - Not understanding the deal
 - Limited liability
 - Competition between lenders with inadequate information sharing
 - Underpricing of risk, and inappropriate incentives to lend (quantity vs quality targets)
 - Sovereign risk
 - Enforceability of contracts

Sovereign risk

- Sovereign risk - causes
 - Populism
 - Corruption
 - Bad behaviour by financial institutions
 - Government subsidies for inappropriate behaviour (picking winners, credit guarantees, ...)
 - Policy that is susceptible to corruption
- Defences
 - Financial literacy, consumer protection,
 - Dispute resolution mechanisms
 - Good governance of financial institutions
 - Credit bureaus and information sharing
 - Regulation

addressing symptoms, not causes

- Picking winners
- Credit guarantees
- Interest rate caps and inappropriate product regulation
- Inappropriate metrics and incentives (eg quantity not quality)
- Parochial regulation that impedes financial integration

final points

- Look below the surface
- Diagnose and rectify market failures
- Lending and borrowing are fundamentally different
 - management of lending requires sophisticated mechanisms and local knowledge
 - borrowing (deposit taking) can be managed by agents
- Recognise and support the key mechanisms:
 - delegated monitoring by financial intermediaries
 - regulation, governance, incentives for intermediaries
 - relational, reputational and physical collateral
 - credit bureaus, legal infrastructure to support collateral and information sharing
 - security of contract and enforcement
 - financial literacy, responsible lending, management of corruption and sovereign risk