

Foreign bank presence and its effect on firm entry and exit in transition economies

Olena Havrylchyk, CEPII

October 7, 2010



- Large literature on consequences of foreign bank entry in developing countries.

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).
- Do small firms benefit as well? Opaque vs. transparent enterprises?

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).
- Do small firms benefit as well? Opaque vs. transparent enterprises?
- Our question : What is the impact of foreign bank presence on firm entry and exit, size of entrants and their survival?

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).
- Do small firms benefit as well? Opaque vs. transparent enterprises?
- Our question : What is the impact of foreign bank presence on firm entry and exit, size of entrants and their survival?
- Related literature :

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).
- Do small firms benefit as well? Opaque vs. transparent enterprises?
- Our question : What is the impact of foreign bank presence on firm entry and exit, size of entrants and their survival?
- Related literature :
 - The impact of foreign bank penetration on lending to SMEs (Berger et al., 2001, 2008 ; Clarke et al., 2006 ; Mian, 2006 ; Degryse et al., 2009).

- Large literature on consequences of foreign bank entry in developing countries.
- Entry of foreign banks has relieved credit constraints for many large and medium firms (Giannetti and Ongena, 2007).
- Do small firms benefit as well? Opaque vs. transparent enterprises?
- Our question : What is the impact of foreign bank presence on firm entry and exit, size of entrants and their survival?
- Related literature :
 - The impact of foreign bank penetration on lending to SMEs (Berger et al., 2001, 2008 ; Clarke et al., 2006 ; Mian, 2006 ; Degryse et al., 2009).
 - The impact of financial development, (Aghion et al., 2007) banking competition (Bonaccorsi di Patti and Dell’Ariccia, 2004) and banking deregulation (Kerr and Nanda, 2009 ; Kerr and Nanda, 2010) on firm demographics.

Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell'Ariccia and Marquez, 2004)

Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell’Ariccia and Marquez, 2004)
 - The entry of foreign banks leads to market segmentation because foreign banks are more effective at competing away from local banks more transparent borrowers.

Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell'Ariccia and Marquez, 2004)
 - The entry of foreign banks leads to market segmentation because foreign banks are more effective at competing away from local banks more transparent borrowers.
 - Opaque borrowers benefit as well because domestic banks shift their credit allocation towards sectors where their competitors face greater adverse selection problems.



Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell'Ariccia and Marquez, 2004)
 - The entry of foreign banks leads to market segmentation because foreign banks are more effective at competing away from local banks more transparent borrowers.
 - Opaque borrowers benefit as well because domestic banks shift their credit allocation towards sectors where their competitors face greater adverse selection problems.
- This model has different implications depending on the mode of foreign bank entry.



Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell'Ariccia and Marquez, 2004)
 - The entry of foreign banks leads to market segmentation because foreign banks are more effective at competing away from local banks more transparent borrowers.
 - Opaque borrowers benefit as well because domestic banks shift their credit allocation towards sectors where their competitors face greater adverse selection problems.
- This model has different implications depending on the mode of foreign bank entry.
 - Greenfield : segmentation of the market is the outcome and opaque borrowers benefit.

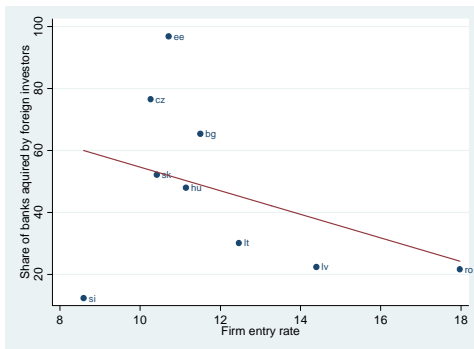


Theoretical considerations

- Information based theories argue that foreign banks have a comparative advantage in lending based on hard information, such as long credit history and detailed financial statement information, whereas domestic banks are better placed to lend to firms based on soft information (Dell’Ariccia and Marquez, 2004)
 - The entry of foreign banks leads to market segmentation because foreign banks are more effective at competing away from local banks more transparent borrowers.
 - Opaque borrowers benefit as well because domestic banks shift their credit allocation towards sectors where their competitors face greater adverse selection problems.
- This model has different implications depending on the mode of foreign bank entry.
 - Greenfield : segmentation of the market is the outcome and opaque borrowers benefit.
 - Acquisition of domestic banks : number of domestic banks and their ability to service opaque borrowers decline



Firm creation rate vs. share of banks acquired by foreign investors



- Eurostat : firm entry, exit, survival rates on the industry level.
- Amadeus : compute industry characteristics based on balance sheet and income statement data on firm level.
- Analyzed period : 2000 - 2005
- Region : Central and Eastern Europe
- Whereas 75 percent of banking assets are owned by foreign banks, only 14 percent of firms have relationship with a foreign bank.

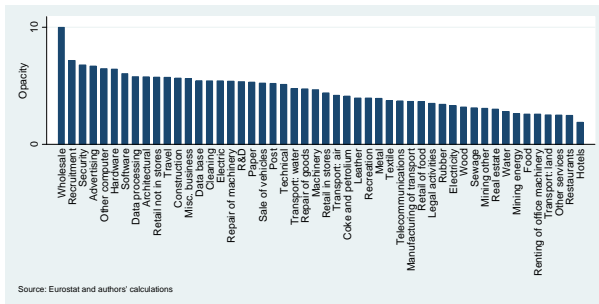
- Implication of theoretical models : Foreign bank entry should disproportionately affect firms from transparent and opaque industries.
- Difference-in-difference (Rajan and Zingales, 1998).

$$Demo_{i,j,t} = a_1 Initial_{i,j} + a_2 Opaqueness_i * Foreign_{j,t-1} + a_3 Industry_i + a_4 Country_j + a_5 Year_{t-1} + e_{i,j,t}$$

How do we measure industry opacity ?

- Opaqueness measures :
 - Ratio of assets to fixed assets in the industry for all firms (or for young ones only).
 - Dependence on skilled labour at the industry level.
- Ratio of small firms in the industry.
- Size vs opaqueness.

Opacity of industries



The impact of foreign bank entry on firm demographics

	Entry	Exit	Net entry	Survival
Panel A				
Initial industry share	-0.030	0.0685	-0.135*	0.336*
Acquired*opacity (fixed assets)	-0.527***	0.322	-0.674***	-0.447
Greenfield*opacity (fixed assets)	0.612	1.286*	-0.693	-0.480
Foreign*Share of small firms	-0.003	0.0604	-0.131	-0.726*
Observations	4399	4063	3999	2368
R-squared	0.083	0.085	0.130	0.270
Panel B				
Initial industry share	-0.028	0.042	-0.117	0.349*
Acquired*opacity (skill dependence)	-0.049**	0.037	-0.105***	0.0361
Greenfield*opacity (skill dependence)	-0.0244	0.074	-0.029	0.342**
Foreign*Share of small firms	0.107	-0.019	0.106	-0.893*
Observations	4318	3996	3933	2320
R-squared	0.082	0.085	0.134	0.274

The impact of foreign bank entry on firm demographics

	Entry	Exit	Net entry	Survival
Panel A				
Initial industry share	0.004	0.107**	-0.134*	0.265*
Acquired*opacity (no employees)	-0.204	0.511***	-0.538*	-0.064
Acquired*opacity (1-4 emp.)	-2.685**	-1.406	0.149	-0.104
Acquired*opacity (4-9 emp.)	-0.642***	0.440***	-1.065***	-0.172
Acquired*opacity (more than 9 emp.)	-0.307**	0.377***	-0.582**	-1.212
Greenfield*opacity (no employees)	1.389***	2.151***	-0.707	1.374
Greenfield*opacity (1-4 emp.)	9.622**	8.550**	-5.588	11.44
Greenfield*opacity (4-9 emp.)	0.613	1.481***	-0.676	-3.685**
Greenfield*opacity (more than 9 emp.)	1.656***	2.366***	-0.581	-1.939
Observations	4399	4063	3999	2368
R-squared	0.544	0.603	0.147	0.368

- Mode of foreign bank entry is very important !

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.
 - Entry of greenfield banks spurs firm creation, which is likely due to market segmentation.

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.
 - Entry of greenfield banks spurs firm creation, which is likely due to market segmentation.
- Results are consistent with theories that emphasize the role of domestic banks in servicing opaque firms.

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.
 - Entry of greenfield banks spurs firm creation, which is likely due to market segmentation.
- Results are consistent with theories that emphasize the role of domestic banks in servicing opaque firms.
- Firm opacity is not necessarily correlated with its size. By definition, opaque industries possess high levels of knowledge and skill intensity, such as new information technologies and, therefore, are crucial for future growth.

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.
 - Entry of greenfield banks spurs firm creation, which is likely due to market segmentation.
- Results are consistent with theories that emphasize the role of domestic banks in servicing opaque firms.
- Firm opacity is not necessarily correlated with its size. By definition, opaque industries possess high levels of knowledge and skill intensity, such as new information technologies and, therefore, are crucial for future growth.
- Our results should be viewed in the context of the literature on loan supply by foreign banks (Giannetti and Ongena, 2007).

- Mode of foreign bank entry is very important !
 - Acquisition of foreign banks is robustly associated with a lower entry rate of firms and smaller size of entrants in industries characterized by higher informational asymmetries compared to more transparent ones.
 - Entry of greenfield banks spurs firm creation, which is likely due to market segmentation.
- Results are consistent with theories that emphasize the role of domestic banks in servicing opaque firms.
- Firm opacity is not necessarily correlated with its size. By definition, opaque industries possess high levels of knowledge and skill intensity, such as new information technologies and, therefore, are crucial for future growth.
- Our results should be viewed in the context of the literature on loan supply by foreign banks (Giannetti and Ongena, 2007).
- Trade-off between gains from reduced connected lending and losses from less credit to opaque sectors.

Thank you !

