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THE LAW, CORRUPTION AND REINVESTMENT DECISIONS: THE TRANSITIONAL PERIPHERY IN COMPARATIVE CONTEXT

ABSTRACT
A range of studies has found that corruption has a significant impact upon FDI decisions, however to date there has been scant investigation into longer term investments made by firms and their relative proclivity to reinvest. Further, there is particularly little work on reinvestment choices made on the transitional periphery of post-state socialist countries and how these might differ from the more stable transitional economies of central and Eastern Europe. Utilising 2005 World Bank Enterprise Survey data, this study explores the relationship between corruption and MNEs’ strategic decision to reinvest profits. From an institutionalist starting point, we find variation in the impact of different dimensions of corruption upon reinvestment; pervasive corruption impacts negatively upon reinvestment, but its effects are more pronounced in the transitional periphery. Perceived robust legal institutions have a positive correlation with reinvestment, but again, the negative effects are most pronounced on the transitional peripheral state socialist states. We ascribe this disparity to greater institutional fluidity, and explore why this context has particularly adverse effects. Finally, we find that firm level attributes of larger size and greater age play an important role in positive reinvestment decisions, appearing to mitigate the worst consequences of this fluidity.

KEYWORDS
Reinvestment, profits, MNE, corruption, transitional periphery.
INTRODUCTION

This study explores the relationship between the institutional environment and firm growth, and more particularly, the impact of corruption upon reinvestment decisions by multinational enterprises (MNEs) on the transitional periphery. More specifically, we explore whether reinvestment is lower on the transitional periphery than in other post-state socialist countries and the reasons for this. The former is defined, for the purposes of this article, as those post-state socialist countries characterized by particularly weak or fluid institutions, and where either EU accession is not on the agenda, or it is a remote, or difficult, prospect. This encompasses the peripheral states of the Balkans, and the Post-Soviet republics of the Caucasus, and Central Asia. On the one hand, being a former Soviet republic is clearly not a barrier to Europeanisation, as borne out by the Baltic States. On the other hand, there is little doubt that the historical experience of former Yugoslavia is very different from that of the former Soviet Union. Although such transitional peripheral countries are clearly very different from those more developed post-state socialist countries that have already entered the EU, it could be argued that the peripheral Balkan States (Bosnia-Herzegovina, Albania and Kosova) all share similarities with the republics of Central Asia on the Caucasus in terms of both past legacies and concomitant possible future trajectories. Hence, we further compare these two categories with each other in looking at reinvestment trends.

To date, very little work has been carried out exploring longer term reinvestment decisions and the impact corruption might have upon these in the transitional periphery. It can be argued that, on account of ambitious experiments in institutional building and redesign following the collapse of the Soviet Union and state socialism more generally, these settings are more fluid institutional environments than many African nations which, although
characterised by weak institutions, also show long historical continuities (Collins, Uhlenbruck, & Rodriguez, 2009; Herbst, 2000). This study explores whether the transitional peripheral countries have distinct characteristics in terms of reinvestment choices, and whether the negative consequences of corruption and weak rule of the law are more pronounced in contexts where institutional arrangements are more fluid. Existing research to date on the relationship between investment and environmental uncertainty, especially with respect to the key dimension of corruption, is varied but often disparate (Demirbag, McGuinness & Altay, 2010). However, in this discussion of the relationship between reinvestment and different types of corruption is remarkably absent. What effect might corruption have upon the reinvestment decision? This is a significant research gap which warrants addressing and consequently, this paper seeks both to make a contribution to a nascent literature and, to point a way forward for future investigation.

LITERATURE REVIEW AND HYPOTHESES DEVELOPMENT

Institutions and the Transitional Periphery

The literature on institutions is extensive, but there is broad agreement that institutions are central in determining how secure is an organisation’s prosperity (North, 1981:17). Weak institutions can lead to a decrease in corporate transparency and asymmetry of information which can impede capital allocation and investment efficiency (Durnev, Errunza, & Molchanov, 2010). The late 1990s and early 2000s literature on institutions and firm outcomes has tended to focus on mature economies and/or assume institutional arrangements have been established over a considerable period of time (Dore, 2000; Hall & Soskice, 2001; La Porta, Lopez, Shleifer, & Vishny, 1999, 2002). Rational-hierarchical approaches to institutions see their most important consequences in terms of protecting private property
rights by providing incentives, or disincentives. (La Porta, Lopez, & Shleifer, 2008; G. T. Wood, 2011; La Porta, Lopez, & Shleifer, 2008; Wood, 2011). Within the rational hierarchical camp, the work of La Porta and colleagues has been most influential; they see property rights as flowing from a single institutional feature, the law, and the origin of legal arrangements. This approach is not without its problems, in that it discounts the beneficial impact of social ties and social compromises (Hall & Soskice, 2001). At the same time, it has been highly influential, informing the World Bank Doing Business Guides, which, in turn, is likely to have impacted investor decisions (D. Wood, 2011). Hence, a key focus of the study is the consequences of legal institutions.

However, as Wood and Lane (2012) note, institutional arrangements are not only subject to change, but also vary in their relative fluidity in time and place. Whilst all institutional arrangements only exist through being constantly reconstituted – and adjusted - through the choices of social actors, this process varies in its intensity according to context (Giddens 1984). Institutional fluidity is defined as a particularly intensive variation of institutional arrangement. In other words, whilst specific rules, conventions and embedded patterns of behaviour may exist, in times of institutional fluidity they are more likely to be contested and radically redefined. It is also easier for players to fully, or partially, disengage from the system where institutions are weak or fluid (Lane & Wood, 2012). As historical institutionalists note, any social compromises are specific to a particular time period, with compromises inevitably arising in response to severe societal crisis or trauma. Although they may become embedded, simply through a lack of known alternatives or because alternative arrangements do not seem feasible, they will ultimately be open to contestation and redefinition (see Thelen 2010). As a result, whilst societies may experience long-term historical continuities, such continuities are neither indefinite nor immutable.
This begs the question, how do the countries under review differ from other emerging markets, such as those, for example, in Africa and Asia? Many other emerging markets had institutional arrangements established during the colonial era resulting in long-term legacies (see Acemoglu, Johnson, & Robinson, 2012; Herbst, 2000). What sets the transitional periphery apart is not simply institutional weakness, but also, it can be argued, greater fluidity. Unlike the case of colonial Africa, the departing Soviet rulers (in the case of the Post-Soviet republics) devoted little attention to the institutional legacies left on their departure, resulting in widely divergent institution building experiments. Indeed, it has been argued that the abiding institutional legacies in such countries – the nature of corporate law - predates the Soviet era, and to some extent these have displaced Soviet legal institutions (La Porta, et al., 2008). In the Balkans, there was also variety in the nature of the transitions from, the external protectorate model initially deployed in Bosnia-Herzegovina and Kosovo to, the disorganised and chaotic transition of Albania. What difference does institutional fluidity make? While, for example, it could be argued that Francophone West Africa is characterised by weak property rights (Herbst, 2000; La Porta, et al., 1999), at least investors can have a degree of confidence in basic legal continuities, even at times of constitutional irregularity or military rule. In contrast, across the transitional periphery, rule books have been rewritten, and, within many contexts, are likely to be rewritten again, at least in the medium term (Collins, 2009). In the case of the Central Asian republics, this involved not just economic and political liberalization, but also nation building, rather than the regaining of national independence. Collins (2009) argues that clan politics is a key characteristic of Central Asian states which emerged in the late Soviet era. This made liberalisation not only difficult, but extremely so. Gullette (2010) argues that the extreme nature of the economic transformation resulted in people falling back on personal networks and relations in order to manage the impacts of fluid institutional environments. Consequently, extended family based ties have interpenetrated the polity, making for ongoing struggles over state resources. Auty (2006) suggests that in both
the Caucasus and Central Asia, economic challenges and political institution construction have gone hand-in-hand with elite continuity, with institutions being remolded to suit elite interests. In a similar vein Thornberry et al (2014) discuss how important a role the informal networks of bazaaries (local merchants) and ulama (religious scholars) played in influencing the Iranian political institutional environment. Finally, it could be argued that the transitional peripheral Balkan economies of Albania and Bosnia-Herzegovina have, again, faced the dual problems of chronic elite failure and resilience, with nation building become disarticulated from the confrontation of structural political problems (see Chandler, 2006).

In the context of institutional fluidity, firms may be more likely to feel compelled to seek ad hoc arrangements with political elites. As a consequence, they may be daunted by the greater risks of high corruption or, see it as a normal part of doing business in countries where there are rich natural resource endowments or strategic market possibilities.

**Reinvestment Choices**

Reinvestment is key to the firm’s success, indeed to its very survival. Reinvestment has been described variously as the decision to expand existing business (McCarthy et al., 1993) and the percentage of profit invested into company (Cull & Xu, 2005). Variables which have been identified as relevant to enhancing organisational longevity include factors for which reinvestment can be key, such as the scale of operation (Bercovitz & Mitchell, 2007; Li, 1995), growth strategies (Mata & Portugal, 2002) and resource utilisation (Bercovitz & Mitchell, 2007; Bradley, Aldrich, Shepherd, & Wiklund, 2011). Size is well established in the literature as a critical factor in firm survival (Aldrich & Auster, 1986; Bercovitz & Mitchell,

Writing from an international business standpoint, Wren & Jones (2009) found that foreign-owned plants had higher exit rates but that reinvestment increased the life-time of start-up plants while Mudambi (1998) found that MNEs with longer tenure were more likely to reinvest. It is worth noting that, whilst neither authors adopted an institutional perspective, both studies were conducted in England, a developed economy with strong institutions.. Institutional factors have been acknowledged as significant for reinvestment decisions (Cull & Xu, 2005; Johnson, McMillan, & Woodruff, 2002) as well as repatriation of earnings (Lundan, 2006). Although Cull & Xu (2005) found that contract enforcement did impact upon reinvestment, they did not explore this within additional dimensions of corruption. However, there are some indications that the importance of secure property rights may vary according to firm size. One cross-country analysis of small business reinvestment in emerging economies showed that access to external finance proved more significant in small firms’ reinvestment decisions than the security of property rights (Chakravarty & Xiang, 2011; Piwakowski and Trojanski 2014). In terms of survival and exit (divestment) strategies, the picture is equally varied (Chung & Beamish, 2005; Doh, Rodriguez, Uhlenbruck, Collins, & Eden, 2003; Hallward-Driemeier, 2009; Lu & Xu, 2006; Mata & Portugal, 2002). So, for example, Hallward-Driemier (2009) argued that in countries with higher bribes and higher corruption, exit rates are higher; on the other hand where legal rights are weak, financial services less developed and competition is muted, exit rates are lower.

**Corruption and Investment**

Some commentators have argued that corruption may be beneficial in environments which have been distorted through ill-functioning institutions. In effect, corruption confers benefits
to business through ‘greasing the wheels’ and lowering transaction costs (Huntington, 1968; Leff, 1964; Meon & Sekkat, 2005). Others argue that corruption is itself distortionary. It increases perceived levels of environmental uncertainty (Shleifer & Vishny, 1993; Wei, 1997); it ‘sands the wheels’. In highly fluid institutional settings, this is arguably more likely, making the unpredictable even more so. However, this arises not simply from the presence of corruption per se, but to how corruption manifests (Cuervo-Cazurra, 2008). The contribution of corruption to perceived levels of environmental uncertainty is underpinned by a number of factors, of which pervasiveness – corruption that is certain and widespread, and arbitrariness – corruption that is uncertain, are key dimensions (Cuervo-Cazurra, 2008; Lee & Oh, 2007; Rodriguez, Uhlenbruck, & Eden, 2005; Uhlenbruck, Rodriguez, Doh, & Eden, 2006; Wei, 1997). The pervasiveness of corruption is seen as more of a deterrent to the initial investment decision because it increases the known costs of investing. In contrast, when corruption is unknown or unpredictable, in other words, arbitrary, it does not act as such a deterrent to investment because it is perceived as part of the uncertainty of operating a new market (Cuervo-Cazurra, 2008).

Our study follows previous studies, in distinguishing between the two dimensions underpinning government corruption, namely, arbitrariness and pervasiveness (Lee & Oh, 2007; Meschi, 2009; Rodriguez, et al., 2005). We disaggregate the impact of government corruption on the reinvestment decision by focusing upon the influence of both pervasive and arbitrary corruption in the institutional context of the transitional periphery.

*************** INSERT FIGURE 1 HERE***************

Corruption and Reinvestment
In making strategic decisions about reinvestment, incumbent MNEs have additional knowledge of the institutional environment gained through their operating experience post entry. This is particularly important with respect to pervasiveness as it means that the level of uncertainty regarding this dimension has decreased and, therefore, managers are less likely to misjudge or ignore the costs (Doh, et al., 2003). Consequently, their knowledge in coping with pervasive levels of corruption is likely to be well developed. In effect, their market experience has mitigated their liability of foreignness (Zaheer, 1995) with respect to corruption. Either they know with which third parties they need to negotiate, and in what manner or, they are apprised of the potential consequences of non-engagement with these third parties. The former may derive from an isomorphic process over time, encompassing coercive and mimetic elements (DiMaggio & Powell, 1983), whilst the latter may relate to a specific ethical stance (Bondy and Starkey 2014), supra-national conventions or country of origin legal constraints (e.g. the American Foreign Corrupt Practices Act 1977, OECD Convention on Bribery of Foreign Public Officials in International Business, 1997 and 2009, UK Bribery Act 2010). However, the institutional embeddedness of the firm may offer less benefit to the organisation where corruption is characterised by arbitrariness. By arbitrariness we mean the degree of uncertainty and capriciousness associated with public sector corruption (Uhlenbruck, et al., 2006:403). For example, there is evidence to suggest that firms which interact more extensively with public sector institutions and are subject to a higher bureaucracy burden and more inspections, are likely to bribe more (Nur-Tegin & Sahin, 2013). However, where bureaucrats co-ordinate and organise their activities, bribery levels are lower (Blackburn & Forgues-Puccio, 2009). This finding supports the ‘grabbing hand’ perspective which emphasises the negative impact arising from the unpredictability associated with independent bureaucrats soliciting bribes in pursuit of their own agendas (Frye & Shleifer, 1997; Shleifer & Vishny, 1998). Nonetheless, there is significant difference in the impact of corruption upon firms investing in transitional economies (Cuervo-Cazurra, 2008).
In making the initial FDI decision in this context, there is evidence to suggest that firms prefer to deal with the uncertainty around arbitrary corruption rather than the more predictable pervasive corruption. Managers view arbitrary corruption as one part of the endemic uncertainty that underpins the institutional structures supporting business transactions in transitional economies (Cuervo-Cazurra, 2008:13). Although, pervasive corruption also has a negative influence, it represents a known, additional and, ongoing, cost. In transitional economies, the additional unpredictable transaction costs which corruption represents “may be compensated by the benefits that it provides in terms of bypassing regulations and institutions that were designed for a previous system but have not yet been dismantled” (Cuervo-Cazurra, 2008:15). We follow the author’s argument about the contingent nature of the impact of corruption, and extend this underlying institutional rationale in the reinvestment decision. We argue that in countries where institutional arrangements are particularly fluid, the negative consequences of corruption will be more pronounced. Hence, such countries will constitute less attractive reinvestment destinations than the “core” transitional economies of Eastern and Central Europe which have attained EU membership.

**Hypothesis 1**: Greater perceived arbitrary corruption is negatively related to reinvestment by the MNE subsidiaries.

Bribery is one significant aspect of corruption (Lee, Oh and Eden, 2010) and, where commonplace and endemic, it is a key indicator of pervasive corruption. The soliciting, and payment, of bribes illustrates the weakness of institutions which, in turn, can lead also to the inadequate enforcement of legal contracts. Pervasiveness of corruption has been defined as the likelihood of the average firm encountering corruption in its normal interactions with state officials (Rodriguez, Uhlenbruck, & Eden, 2005; Uhlenbruck et al, 2006). These corrupt
interactions are generally manifest by implicit and/or explicit demands for payments or bribes.

Laws against bribery abroad, such as the OECD Anti-Bribery Convention (2009) or the more recent 2010 Bribery Act in the UK, aim to reduce the supply of bribes by foreign investors by increasing the costs of bribing abroad (Cuervo-Cazurra, 2008). In other words, anti-bribery laws act as a disincentive to engaging in corruption in host countries (Cuervo-Cazurra, 2006). In his study, whilst Hines (1995) did not find an overall negative correlation between corruption and inward FDI, he did find that American business activities in bribe-prone countries decreased sharply after the enactment of the U.S. Foreign Corrupt Practices Act (1977). However, Spencer & Gomez (2010) reported more mixed results with respect to MNEs from home countries which were signatories to the OECD Convention. Having said that, there is evidence that an MNE’s readiness to pay bribes is lowest when such illicit activities are not tolerated in its home country (Baughn, Bodie, Buchanan, & Bixby, 2010). Even if firms continue to transact business in countries riven with bribery, but do not engage in such practices, they are likely to find themselves disadvantaged in comparison to competitors who do pay bribes. In the longer term, should companies engage in bribery, they may find themselves subject to other direct and indirect costs. Illustrating the potential significance of such costs is the case of the defence contractor BAE which was reported to have agreed to pay out $450m to US authorities in penalties over alleged corporate bribery as well as £30m in UK fines (Peel, 2010; Peel & Kirchgaessner, 2010) and that of UK based publisher Macmillan which was debarred from any World Bank financed contracts for a period of six years after admitting bribery payments relating to a Trust Fund-supported education project in Southern Sudan (World Bank, 2010).
It could be argued that these cases represent exceptions to a general rule, and there are many instances where firms have engaged in corrupt behaviour with relative impunity, an example being BAE’s role in a major Saudi arms deal. However, on a day to day level, firms that pay more in bribes are likely to spend more time negotiating regulations with foreign countries’ officials (Kaufmann & Wei, 2000); another layer of cost. In contexts where corruption is pervasive, competing factions and different levels of official may each express their own demands for making the same transaction possible; in such circumstances a “rational corrupt agent may (readily) extinguish the source of his bribe income by causing a firm to exit” (Bliss & Tella, 1997:1001). So, firms operating in countries with high levels of bribery are likely to find their costs are increased irrespective of whether or not they actually pay bribes, and these costs can extend beyond the short term.

H2: Greater perceived pervasive corruption is negatively related to reinvestment by the MNE subsidiaries.

Juridical Institutions and Reinvestment

Quality of government (Holmberg, Rothstein, & Nasiritousi, 2009) and specifically ‘good governance within each country’ is vital in aiding development and fostering economic growth (United Nations, 2000:13). Given that institutions provide the context within which the firm’s transactions take place, it is to be expected that a number of scholars have noted the importance of positive and robust host government institutions (Henisz, 2000; Meyer, 2001). Within the economics and finance literature, priority is accorded to private property rights (La Porta, et al., 1999, 2002). Mirroring this, the ‘Rule of law’ constitutes one of the World Bank’s six Worldwide Governance Indicators (Kaufmann, Kray, & Mastruzzi, 2007). Confidence in the ability to capture rents is inherently linked with managerial perceptions of the host country’s legal institutions to provide adequate safeguards against arbitrary rulings as
well as shaping an environment in which wrongdoers are captured and punished (Roy & Oliver, 2009). ‘Administrative quality’ in the form of control of corruption as well as the investment-friendly profile of administration, law and order is an important influence in decisions about resource commitment (Aysan, Nabli, & Veganzones-Varoudakis, 2007), with strong legal institutions critical in securing property rights and integrity of contract (Haggard, MacIntyre, & Tiede, 2008).

Arguably, firms are unlikely to commit further resources in markets, even low-risk internally generated finance, where they property rights are not respected and contracts are unenforceable. Reinvestment is likely to take place within an environment in which the firm is confident that this financial commitment can be protected by legal recourse, if necessary. The judicial system provides “coercive enforcement” of agreements (North, 1990:362) and therefore the efficiency of the judicial system is critically important (Mauro, 1995), and drive re-investment choices. As the World Bank Enterprise Survey data indicates (Mellahi, Demirbag and Wood, 2012), among transitional institutions, weak legal institutions are more likely to be encountered on the periphery, and this is the primary determinant of lower levels of reinvestment among transitional peripheral states.

H3: Greater perceived quality of judicial institutions is positively related to reinvestment by the MNE subsidiaries.

Reinvestment and Length of Operations

MNEs with a longer tenure of operations within a particular context are more likely to make additional investments (Mudambi, 1998). Through longevity, the firm may develop experience-based capabilities, refined routines and the ability to adapt (Baum & Shipilov, 2006; Henderson, 1999). Such skills are of even greater value in environments characterised
by high degrees of uncertainty within the institutional domain. Over time, organisations have
the opportunity to build networks and relationships with institutions (Hoskisson, Eden, Lau,
& Wright, 2000) thereby reducing the negative impacts of corruption on transactions costs
(Makhija, 2003; Makhija & Stewart, 2002). Age can confer specific advantage in terms of the
institutional embeddedness of the organisation leading to a reduction in perceptions of
institutional uncertainty resulting from corruption, or the opportunity to manipulate the
environment to match its needs (Zimmerman & Zeitz, 2002), so, for example, older firms may
have developed greater bargaining power leading to public officials demanding fewer bribes
(Svensson, 2003). At the most basic level, those older firms actively participating in
corruption know who to pay and, how much. Similarly experienced firms, not actively
engaging in corruption, understand the likely impacts and are therefore in the optimal position
to make judgements regarding cost implications. Hence, whilst transitional peripheral
economies are more challenging environments in which to do business than the core post state
socialist economies, it could be argued that any differences in reinvestment choices between
these two sets of countries will be less pronounced among firms that have been established for
longer.

**H4a:** The length of an MNE’s operation in a host country is positively related to its
reinvestment in the same host country.

**H4b:** Any differences in levels of reinvestment between transitional peripheral, and other post
state socialist, economies will be less pronounced among firms that have been domiciled for
longer.

**Reinvestment and Size of Operation**

Larger firms have greater resources available to them than smaller firms and therefore are
better able to pay bribes (Svensson, 2003). Increased size also provides advantages such as
enhanced contacts, ‘clout’ and the ability to make credible threats of retaliation to host governments should property rights be violated (Acs, Morck, Shaver, & Yeung, 1997). The impact of corruption is greater for small and medium sized enterprises (SMEs) than for large MNEs (Beck, Demirguc-Kunt & Maksimovic, 2005). Further, SMEs are more sensitive to the heightened uncertainty and levels of risk which are characteristic of corrupt institutional domains (Ghosal & Loungani, 2000; Lskavyan & Spatareanu, 2008) and consequently they are less likely to commit additional resources through reinvestment. Thus, it could be argued that any differences in reinvestment choices between core transitional and transitional peripheral economies will be less pronounced in the case of larger firms.

**H5a: The size of an MNE’s operation in a host country is positively related to its reinvestment in the same host country.**

**H5b: Any differences in levels of reinvestment between transitional peripheral, and other post state socialist, economies will be less pronounced as firm size increases.**

It has been argued that, for firms operating in transitional economies, there is a trade-off between the advantages provided by corruption in navigating a reforming and weak institutional domain and concomitant uncertainty and additional transaction costs (Cuervo-Cazurra, 2008). Consequently, corruption does negatively influence the FDI decision, but the impact is less pronounced in transitional economies, in comparison to developed economies. However, innovating firms in developing markets pay more bribes (Ayyagari, Demirgüç-Kunt, & Maksimovic, 2014). Examples of innovation include upgrading a product line, introducing new technology or signing new joint ventures – activities which require reinvestment by the firm. Such activities necessitate additional engagement with public officials thereby increasing the opportunity for the solicitation of further payments and bribes by government officials in an organised manner, typical of pervasive corruption. Moreover,
bribe payments have been found to be higher under more decentralized bureaucratic structures (Diaby & Sylwester, 2014). It is credible to argue such structures are more likely to be found in contexts where institutions are sufficiently weak, or fluid, to allow actors to disengage, fully or partially, from the centre (Wood & Lane, 2012). This in turn increases the potential for arbitrary corruption. Consequently, we argue that:

**H6a** – Pervasive corruption has a larger negative impact on reinvestment decisions on transitional peripheral, than on other post state socialist, economies.

**H6b** – Arbitrary corruption has a larger negative impact on reinvestment decisions on transitional peripheral, than on other post state socialist economies

**METHODS**

This study draws upon the World Bank Enterprise Survey Data and utilises a sample of 27 countries from Eastern Europe and Central Asia, of which (more than 5%) belong to a foreign investor (www.enterprisesurveys.org/). The World Bank Enterprise Survey is designed to collect firm level data on a broad range of issues that firms face. The survey is based on a stratified random sampling which covers firms of different size, industry, ownership, country of origin, and geographical location (for more details see Table 1). The Enterprise Survey covers a wide range of global issues, many of those particularly relevant to transitional and emerging countries around the world. Issues covered in the survey include financing of SMEs, human resources, technology development, corruption, crime, and infrastructure and other issues relevant to business environment. (For a detailed explanation of the sampling method of the enterprise survey see, http://www.enterprisesurveys.org/ Uhlenbruck and Rodriguez et al., 2006; Sahadev and Demirbag, 2011; Gomes, Sahadev, Glaister and Demirbag, 2014).
Transitional periphery countries constitute 53.7% of the sample and a breakdown is reported in Table 1. Transitional EU members in the sample are Hungary (9.3%), Poland (7.4%), , Estonia (4.0%), Czech Republic (3.3%), Slovakia (2.6%), Latvia (2.5%), Lithuania (2.5%) and other post soviet EU members (14.7%).

[Insert Table 1 here]

Missing values and outliers have been removed from the original data in order to render a clean dataset for analysis. Since the focus of this study is to examine factors affecting MNEs’ reinvestment in countries at the transitional periphery, all non MNE entries were also removed from the dataset.

**Measurement of variables**

Dependent and independent variables are measured as follows:

Dependent variable (REINVEST): The log of re-investment is in US dollar by the firm. Re-investment covers items such as new building, machinery and equipment.

**Independent variables**

*Judicial institutions:* This is based on respondents’ perception of courts in countries where these subsidiaries are located, thus the state of the court system in a host country is used as proxy for legal institutions. Three different dimensions of legal institutions are treated as dichotomous variables. A value of 1 is ascribed to the state of a court system if it was perceived as being to a great extent fair and impartial (IMPARTIAL); 0 otherwise. Similarly, the court system is given the value of 1 if perceived as being to a great extent honest and uncorrupt (UNCORRUPT); 0 otherwise. Finally, the ability of court systems to enforce its decisions is the third dimension of legal institutions (ENFORCE) and it has the value of 1 if it
was perceived that the court system can enforce its decisions in resolving business disputes to a great extent; 0 otherwise.

**PERVASIVE**, Pervasiveness of corruption is measured on a 6 point scale according to whether it was common for firms in its line of business to pay some irregular “additional payments/gifts” to get things done with regards to customs, taxes, licences, regulations, services etc.

**ARBITR** (Arbitrariness): Arbitrariness of corruption in host countries is measured by respondents’ perception of government agents acting within rules without unofficial recourse to any financial or social gains. The variable aims to measure whether another official or superior intervenes, without unofficial recourse to financial or social gains, when government agents act against the rules. The perceived level of arbitrariness is measured by a 6 point reverse measurement where 6 is never and; 1 is always.

**AGE**: Subsidiary age is measured by Logarithm of years of subsidiary’s operations in a country.

**SIZE**: Size is measured by Logarithm of number of permanent, full time firm employees.

**Regional impact**

**TRANSPERI**: Host countries MNE Subsidiaries’ are classified as a dummy variable where 1 is Transitional Periphery; 0 is otherwise.

**Control Variables**

**Parent level controls:**
DC MNE: Country of origin of MNEs are classified as DC MNE is 1, if the country of origin was a developed country; 0 otherwise.

EMNE: Country of origin of MNEs are classified as EMNE is 1, if the country of origin was an emerging country; 0 otherwise.

**Industry level controls**

The sample comprises 5 major sectors. These are:

- MANUFACT: Manufacturing
- TRADE: Wholesale and retail trade
- CONSTRUCT: Construction and real estate
- HOSPITALITY: Hotels and hospitality industry
- OTHER SERVICES: This is used as the base dummy.

**ANALYSIS RESULTS**

We test hypotheses by linear regression analyses to determine the impact of hypothesised variables on log transformation of reinvestment by MNEs’ subsidiaries in respective host countries. Any multicollinearity problems were checked before running regression analysis. Table 2 shows the binary correlations between variables used in regression models.

[Insert Table 2 here]

The variance inflation factor (VIF) is less than 2.9 for all the variables included in the analysis, except for sector dummy. Both pairwise correlations and VIFs are at acceptable levels. This shows the lack of multicollinearity (Hair et al., 2006). We use linear regression models to test hypothesized relations. (Results from linear regression analyses are shown in Table 3 and 4. The F statistics indicate that all four models in Table 3 are significant. The results from a subgroup regression analysis were used to test hypotheses 4 and 5 (Table 4).
Table 4 shows that all three sets of models (Models 1 to 3) have high explanatory power with significant F values (57.76; 24.69; 38.49 at p<.001 respectively). As indicated in Table 4, all models have a good fit with adjusted R² measures confirming explanatory power of models presented to examine impact of subsidiary age and size on reinvestment between firms investing in transitional periphery counties (classified as 1) and others (classified as 0).

In order to test the study’s hypotheses 1, 2, 3, 4a, 5a, 6a and 6b, four regression models are estimated with the dependent variable being MNEs’ re-investment (REINVEST). Hypotheses 4b and 5b are tested by subgroup models for transitional periphery and post-Soviet EU economies with dependent variable being reinvestment. Results of subgroup regression analyses are presented in Table 4. A summary illustration of variables, hypothesised relations and directions of hypotheses are presented in figure 1.

In the first model in Table 3 (Model 1), two sets of control variables and the regional variable (TRANSPERI) are introduced. Model 2 however, introduces independent variables judicial institutions related variables (IMPARTIAL, UNCORRUPT, and ENFORCE), and two dimensions of corruption (PERVASIVE and ARBITR). Interactions of corruption dimensions with transitional periphery are presented in Model 4 while the final model (Model 5) tests impact of corruption dimensions and judicial institutions on reinvestment decisions of MNEs.

The first hypothesis receives very significant support both in Models 2 and 5 with a negative sign, indicating that when there exists arbitrary corruption, MNEs are less likely to reinvest in the respective host countries. Hypothesis 2 (pervasiveness of corruption) however receive
statistically significant support only in the final model when the interaction with the transitional periphery is introduced.

The results presented in Model 2 in Table 3 indicate that whilst arbitrariness of corruption has a negative effect, an honest and uncorrupted court system (UNCORRUPT) has a positive effect on the reinvestment decisions of MNEs. Therefore, the third hypothesis receives only partial support as the coefficient for only one dimension of judicial institutions is significant, but not for the others. While having an “honest and uncorrupted” court system has a positive and significant impact on reinvestment decisions, “fairness and impartiality” and “ability to enforce decisions” does not emerge as statistically significant. Taking all these three measures together, the relationship between re-investment and judicial institutions indicates that there is a positive relationship between the quality of judicial environment and re-investment decision in a host country.

What is surprising, however, is that the pervasiveness of corruption in host countries (Hypothesis 2) did not receive meaningful support in terms of its impact on the level of re-investment. Although the coefficient has a negative sign, this is not a statistically significant one in Model 2. We further examine both arbitrariness and pervasiveness of corruption’s impact by analysing their interaction effect for transitional periphery. Although the level of pervasiveness of corruption does not emerge as significant in Model 2, the interaction effect for transitional periphery yields negative, and statistically significant, results. The interaction effect of transitional periphery with PERVASIVE and ARBITR increase their impact in the final model as negative and significant (in Model 5), indicating that pervasiveness and arbitrariness of corruption perception of executives in transitional periphery negatively affects re-investment decisions of MNEs in the transitional periphery (compared to EU member transitional countries). The coefficients of interactions of pervasiveness (PERVASIVE) and
arbitrariness (ARBITR) of corruption with transitional periphery are both negative and significant in the final model providing significant support to hypotheses 6a and 6b. While arbitrariness of corruption has a very strong negative impact on reinvestment at transitional periphery ($\beta = -0.06 \ p<0.01$), there is a relatively less significant impact of pervasiveness for transitional periphery countries ($\beta = -0.05 \ p<0.10$).

Subsidiary size appears to be a significant factor in MNE re-investment decisions. Regression models presented in Table 3 indicate that the larger the size of a subsidiary, the greater the likelihood of a decision to re-invest in a host country. The impact of the length of operation (AGE) and the size of operation (SIZE) were tested in model 5 in Table 3. Both the length of operation and the size of MNE subsidiary are significant factors in determining the percentage reinvestment undertaken by MNEs. The regression coefficients associated with the AGE and SIZE are statistically significant ($p<0.05$ and $p<0.01$ respectively) providing support for H4a and H5a.

Hypotheses 4b and 5b are tested by a set of subgroup regression models presented in Table 4. Model 1 in Table 4 introduces a full model for reinvestment (REINVEST) as dependent, AGE and SIZE as independent with control variables, whilst in Models 2 and 3, two subgroup regression models are estimated for the transitional periphery and post-Soviet EU countries respectively. Model 1 in Table 4 shows regression results for the full sample. Both AGE and SIZE have positive and statistically significant impact on reinvestment for the full sample. In Models 2 and 3 however, we test impact of SIZE and AGE on reinvestment in transitional periphery and post-Soviet EU countries as subgroups. SIZE emerges as a significant factor for both subgroups while AGE emerges significant only for post-Soviet economies. For the second stage of the subgroup analysis to test H4b and H5b, we employ the Chow test for the statistical significance of difference in the regression coefficients between the subgroups of
countries in the sample. The F value for the Chow test $F_{ChowT} = 5.436$ is significant (p<0.001; d.f. 9) which implies that the difference between the regression coefficients for these two groups is statistically significant\(^1\).

In general AGE receives significant support in our linear regression analysis (Table 3). The age of operations in a host country is used as proxy for the level of business experience and embeddedness in a locale. We find that as an MNE is experienced in a locale, the likelihood of re-investment increases significantly. The subgroup regression model presented in Table 4 (Model 2b) however, indicates that the impact of AGE on REINVESTMENT is more pronounced for core transitional economies compared to transitional periphery. Since the hypothesis does not expect significant difference between these two groups, there is a lack of support for H4b.

Regarding the difference on the impact of SIZE on REINVESTMENT between core transitional and peripheral economies, there is a support for H5b as the size impact in both sub-groups are very close ($\beta = 0.680$ p<0.001, and $\beta = 6.05$ p<0.001 indicating that any reinvestment difference between these two group of countries will be less pronounced as subsidiary size increases.

Amongst sectoral controls, only TRADE (service industries) and CONSTRUCTION have negative, and statistically significant, coefficients which implies a lower propensity to re-investment by MNEs in these industries. In terms of country of origin of MNEs, developed country MNE subsidiaries (i.e., subsidiaries of the US, UK, Canada or Japanese MNEs) are more likely to reinvest and expand the size of their operations. However, its coefficient in the

\(^1\) We also applied the dummy variable method to validate the Chow test results which is not reported in this paper.
final model is not statistically significant. Regional control of transitional periphery has negative, and significant, coefficients in all of the models presented in Table 3. This indicates a lower propensity to reinvest in Transitional Periphery countries in comparison to EU member transitional countries.

**FINDINGS AND CONCLUSIONS**

We find that reinvestment rates are lower on the transitional periphery than in other post state socialist countries. But, what precisely, makes transitional peripheral countries less attractive? Our findings suggest relative perceptions of corruption are particularly severe deterrents to reinvestment in the transitional periphery, but not in the “core” post-state socialist transitional economies. It is likely that this reflects the greater institutional fluidity within such contexts, making for a more unpredictable business environment. In other words, bribery and corruption may be easier to cope with in climates where there is a greater predictability and continuity. These findings extend previous studies which have focused upon the deterrent effect of pervasive corruption upon FDI, but which looked at the initial investment decision only.

It has been argued that the effects of corruption on investment will be more pronounced once firms have a greater understanding of the costs it poses (Cuervo-Cazurra, 2008). However, our results also show that, whilst age is statistically significant, older firms are more likely to reinvest. At first glance, this may appear counter-intuitive in light of the strength of the negative influence of pervasiveness. However, it may be that this actually reflects greater organisational embeddedness within local networks, which allows firms to link with each other, and with government and other players, and/or, greater experience and accumulated wisdom in dealing with a range of adverse contexts.
A robust court system is an important part of strong institutions (Djankov, La Porta, Lopez-De-Silanes, & Shleifer, 2003). Our data partially supports this argument and indicates that legal institutions are important for reinvestment, particularly an honest and uncorrupted judicial system. However, issues around contract enforcement, such as fairness and impartiality and the ability to enforce decisions, are not perceived as important by managers. To a degree, these findings resonate with the equally mixed evidence provided by Beck, Demirguc-Kunt & Maksimovic (2005) in their analysis of legal constraints on firm growth. Equally, our findings with respect to enforcement may indicate the bargaining power that MNEs have by virtue of size and importance of FDI to the host. Nonetheless, this is an interesting finding which merits further research, given that previous work has suggested that higher levels of FDI inflows are associated with low cost contract dispute settlement environment (Alqhuist & Prakash, 2010).

With respect to organizational size, our findings also support Bercovitz and Mitchell’s (2007) contention that scale is an important variable for long-term business survival in uncertain environments because of the organizational capital that it provides. Whilst their study integrated scale (using sales revenue) and scope, the focus of our study has allowed us to examine the relationship between reinvestment and size in endemically uncertain institutional environments more narrowly. They argue that to use sales and proxy for size, simply picks up profitability effects. We avoid this by utilising the number of employees as proxy. From a methods standpoint, our use of micro-data together with the actual experience of working MNE managers means that we avoid any distortionary effects arising from the use of perception-based indices (Aidt, 2009). Again, we find that size is a particularly important factor on the transitional periphery; quite simply, larger firms with greater resources at their disposal are better equipped to ride out environmental turbulence.
It could be the case that firms engaged in primary commodity sectors will be less sensitive to institutional weakness and fluidity than those in other sectors, owing to increasing resource scarcity and costs. However, we do not find that sector is a significant variable, other than in the case of the service and construction sectors. Construction is a bellweather industry, and more prone to the effects of any economic downturn. Furthermore, the proliferation of low cost Chinese competitors, which rely on their own imported labour, has made the international business environment more challenging. Again, service sector activities may require a greater engagement with a broad range of local players (labour, customers and suppliers) than in other sectors, where it may be possible to do lucrative business with a small socio-economic footprint.

**Contributions**

Our study has important implications for both policy and practice. From a policy perspective, reinvested earnings are an important part of maturing FDI stocks (Lundan, 2006). Through reinvestment MNEs grow their affiliates, thereby increasing their direct contribution to national growth and prosperity through tax revenue and employment. However, MNE reinvestment is also vital as part of growth, R&D and innovation processes, which although internally focused by the MNE, can have important spillover effects enhancing technological enhancement within the host country (Blomström & Kokko, 1998; Eden, Levitas, & Martinez, 1997; Meyer & Sinani, 2009; Ozawa, 2009). Host governments should seek to encourage reinvestment by incumbents as they represent less high risk than new FDI, and contribute to greater stability in FDI flows (Lundan, 2006, Mudambi, 1998). Our core finding is that institutional setting, and more specifically, relative institutional fluidity accentuates any adverse consequences of bribery and corruption on reinvestment choices, and that, host governments need to temper reform with the need for predictability. In other words, legal origins appear to be less important than how institutions work in practice; this highlights the
limitations in basing investment decisions on formal property rights, without due consideration as to how they are being implemented in practice.

From a managerial perspective, our study suggests that managers should give careful consideration the degree and allocation of reinvestment funds in order to achieve optimal results. Managers need to explicitly recognise any trade-offs made between growth and innovation, and the security of that investment when they make reinvestment decisions. Furthermore, reinvesting into the business potentially provides added levels of financial slack which can be a critical factor in protecting a firm, and ensuring its survival, from the impact of environmental jolts (Bradley, et al., 2011). Larger and more experienced firms are better equipped to cope with environmental uncertainty; greater organisational resources and the accumulated knowledge and wisdom makes doing business in uncertain environments more easy.

To date, many scholars have explored the question of how corruption affects FDI with multifarious results. We have contributed to the debate through our novel focus on an under-researched aspect of FDI, namely, earnings reinvestment. Methodologically, we have explored this relationship within an integrated multi-level perspective. In this way, we have added to different bodies of empirical research, firstly; the small but growing body of empirical data which combines micro data across country and secondly; an emerging conceptual approach which fuses micro organisational factors with macro governance influences drawing on institutional theory. The breadth of the country of origin of the firm sample also merits highlighting as there is only limited comparable work which has drawn upon a range of countries focused upon small businesses in emerging economies (Chhakravarty & Xiang, 2011). Other empirical work in this area focused upon post-
communist countries (Johnson, et al., 2002) and Chinese firms in 2002 (Cull & Xu, 2005). Arguably these represent atypical phenomena of countries in transition, and as such it is not surprising that the security of property rights would be of high managerial concern. Our sample allows a more rounded picture to emerge in this respect as it draws upon data from both transitional-EU members, as well as transitional periphery. Our findings regarding the significant influence of pervasive corruption on reinvested earnings is novel but builds upon previous evidence on its influence on the initial MNE investment commitment. Our study indicates that there are further areas of the relationship between corruption and MNE reinvestment which warrant further investigation. This includes a deeper exploration of reinvestment over time and the nature of the link between reinvestment and resource allocation and innovation as well as further unpicking of the influence of contract enforcement.

There are also limitations of the paper. Firstly, while the dataset used in this study is created by a professional organisation using a standard scale across nations, there are inherent limitations in such global surveys. However, our study provides some important pointers for the future and contributes to an emerging body of literature. Secondly, this paper focuses on two groupings of countries only, therefore a larger study including larger emerging countries would enhance existing body of literature. Thirdly, some of the scales used by the enterprise survey have a focus on only certain dimensions of quality of judicial institutions.
Table 1. Characteristics of the Sample

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<tr>
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<th>No</th>
<th>%</th>
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<td>1. REINVEST</td>
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<td>3. UNCORRUPT</td>
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<td>4. ENFORCE</td>
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<td>15. HOSPTY</td>
<td>Hospitality</td>
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Notes:
S.D. = Standard deviation
*p<0.01
Table 3. Linear Regression Results (Dependent Variable: REINVEST)

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<th>Variable name</th>
<th>Definition</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 4</th>
<th>Model 5</th>
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<td>IMPARTIAL</td>
<td>Impartial court system</td>
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<td>-0.06 (0.08)</td>
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<td>Uncorrupt court system</td>
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<td></td>
<td>0.13** (0.08)</td>
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<tr>
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<td>Pervasiveness of corruption</td>
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<td>-0.08** (0.04)</td>
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<td>Arbitrariness of corruption</td>
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<td>SIZE</td>
<td>Log of subsidiary employees no</td>
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<td>0.60*** (0.04)</td>
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<td>AGE</td>
<td>Log of subsidiary age</td>
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<td>PERVERSIVE X TRANSPERI</td>
<td>Pervasiveness X Transitional P</td>
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<td>-0.06** (0.03)</td>
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<td>Manufacturing</td>
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<td>0.14* (0.12)</td>
<td>-0.08 (0.10)</td>
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<td>TRADE</td>
<td>Wholesale and retail</td>
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<td>-0.29** (0.14)</td>
<td>-0.33** (0.08)</td>
<td>-0.38** (0.13)</td>
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<td>Construction</td>
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<td>-0.12 (0.14)</td>
<td>-0.23** (0.09)</td>
<td>-0.19 (0.14)</td>
<td>-0.21* (0.11)</td>
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<td>HOSPTY</td>
<td>Hospitality</td>
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<td>0.17 (0.17)</td>
<td>-0.09 (0.12)</td>
<td>0.09 (0.17)</td>
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<td>0.47</td>
<td>0.22</td>
<td>0.55</td>
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</table>

Notes: *p<0.10; **p<0.05; ***p<0.01; Standard errors in brackets
Table 4: Results of Subgroup Regression Analysis for Size and Age of Operations (Dependent Variable: REINVEST)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Definition</th>
<th>Model 1 Full Sample</th>
<th>Country Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Model 1</td>
<td>Model 2a Transitional Periphery</td>
</tr>
<tr>
<td><strong>Independent variables: Subsidiary level</strong></td>
<td></td>
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<tr>
<td>SIZE</td>
<td>Log of subsidiary employees no</td>
<td>0.227***</td>
<td>0.680***</td>
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<tr>
<td>AGE</td>
<td>Log of subsidiary age</td>
<td>0.298***</td>
<td>0.111</td>
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<tr>
<td><strong>Parent-level controls</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DCMNE</td>
<td>DCMNE parent</td>
<td>0.174**</td>
<td>0.171**</td>
</tr>
<tr>
<td>EMNE</td>
<td>ECMNE parent</td>
<td>-0.208**</td>
<td>-0.116**</td>
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<tr>
<td><strong>Industry-level controls</strong></td>
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<tr>
<td>MANUFACT</td>
<td>Manufacturing</td>
<td>-0.050</td>
<td>-0.142</td>
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<tr>
<td>TRADE</td>
<td>Wholesale and retail</td>
<td>-0.333**</td>
<td>-0.296**</td>
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<tr>
<td>CONSTR</td>
<td>Construction</td>
<td>-0.232**</td>
<td>-0.231</td>
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<td>HOSPTY</td>
<td>Hospitality</td>
<td>-0.091</td>
<td>-0.124</td>
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<td>Intercept</td>
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<td>0.513***</td>
<td>0.262</td>
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<tr>
<td>F value</td>
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<td>57.76***</td>
<td>24.69***</td>
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<td>Adjusted $R^2$</td>
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<td>0.472</td>
<td>0.490</td>
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<tr>
<td>$F_{ChowT}$ value$^\dagger$</td>
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</table>

Notes:
* $p < 0.1$; ** $p < 0.05$; *** $p < 0.01$

$^\dagger$ $F$ value for Chow test can be defined as $F_{ChowT} = \left( \sum_{i=1}^{g} \frac{RSSE_i}{(g - 1)k} \right) / \left( \sum_{i=1}^{g} \frac{RSSE_i}{(n - gk)} \right)$, where $RSSE$ stands for the residual sum of squared errors, $n$ is the full sample size, $k$ is the number of estimated coefficients, and $g$ is the number of subgroups.
Fig. 1: A Summary and direction of hypotheses

Types of corruption
- Pervasiveness of corruption
- Arbitrariness of corruption

Quality of Juridical Institutional Environment
- Impartial court system
- Enforcing court decisions
- Uncorrupt court system

Regional impact

Transitional Periphery

Reinvestment

Subsidiary-level variables
- Firm age
- Firm size

Control Variables

Parent-level controls
- DCMNE
- EMNE

Industry-level controls
REFERENCES


Ozawa, T. (2009). The role of multinationals in sparking industrialization: From “infant industry protection” to “FDI-led industrial take-off”. *Columbia FDI Perspectives, 39*


