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# Advancing the institutional perspective on informal entrepreneurship: a study of formalisation intentions amongst street entrepreneurs

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# Advancing the institutional perspective on informal entrepreneurship: a study of formalisation intentions amongst street entrepreneurs

# Abstract:

# Purpose

Informal entrepreneurship is seen as a direct outcome of either the failure of formal institutions or the asymmetry between formal and informal institutions. These two viewpoints are so far debated as alternative theoretical explanations for the prevalence of informal entrepreneurship. In this paper, we offer a theoretically integrative approach to further advance the institutional perspective of informal entrepreneurship.

# Design/methodology/approach

Using face-to-face surveys of 322 street entrepreneurs from Lahore, Pakistan, we deploy the hitherto unused Partial Least Square approach to Structural Equation Modelling (PLS-SEM) to analyse data within the field of informal entrepreneurship.

# Findings

The empirical findings strongly support the theoretical propositions of the new institutional perspective that we present in our paper. We find no direct impact of factors like procedural justice, redistributive justice and public sector corruption (i.e. formal institutional failings) on the formalisation intentions of street entrepreneurs. Our findings demonstrate that the relationship between formal institutional failings and formalisation intentions can only be explained through the mediating role of institutional asymmetry (i.e. tax morality).

# **Research Limitations/Implications**

From a policy perspective, we find that if we can encourage street entrepreneurs to obtain a local-level registration as the first step toward formalisation, it will significantly increase their chances to opt for higher national-level registrations.

# **Originality/Value**

This paper presents a unique attempt to further understand the context of street entrepreneurship through the theoretical lens of institutional theory. In doing so, it synthesises the arguments of existing institutional perspectives and further develops the institutional theory of informal entrepreneurship. Moreover, the paper develops the concept of 'formalisation intentions'.

Keywords: Institutional theory, Formalisation intentions, Street vendors, Pakistan

### 1. Introduction

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Over the last decade, informal entrepreneurship has emerged as a salient sub-category of entrepreneurship scholarship (Welter et al., 2015) given the pervasiveness of this entrepreneurial activity across the globe. This paper specifically focuses on an essential facet of global informal entrepreneurship, namely *street vending* or *hawking*, or what is here termed as 'street entrepreneurship' (Williams and Gurtoo, 2012). According to an estimate, the accumulative size of the global street vending activity is worth approximately USD10 trillion (Neuwirth, 2012), which is second to only the two largest economies of the world. Street entrepreneurs are here defined as individuals who offer goods and/or services for sale at a public space, which is not originally intended for trading, without having a permanent built-up structure from which to sell (Williams and Gurtoo, 2012). Street entrepreneurs can be stationary in the sense that they can occupy a fixed space on a pavement or any other private/public space or mobile so that they move from place to place to sell their goods (Bhowmik, 2010). Furthermore, street entrepreneurs in emerging market economies are largely informal as they choose to remain, either fully or partially, unregistered under specific forms of national and local-level legislation, e.g. tax and social security laws, business permits acts and/or commercial acts (ILO, 2012). Focusing on street entrepreneurship, this paper problematises the dominant conceptualisation of entrepreneurship as an economic phenomenon exclusively reserved for a select group of individuals and limited to certain privileged contexts and settings (see also, Afreh et al., 2019). Instead, responding to the call by Sabella and El Far (2019), it addresses the need for scholarly work that focuses on everyday entrepreneurial activities enacted by ordinary individuals in a marginalised context, a perspective that is inadequately addressed in the existing literature (Baker and Welter, 2017).

The scholarly and policy discourse on street entrepreneurship presents very dichotomous views. On the one hand, street entrepreneurs are deemed parasitic, or at best inefficient; and street vending is described as a disorderly activity that crowd-outs the urban space, creates pedestrian and vehicular congestion, evades taxes and poses "unfair competition" to tax-paying off-street businesses (Xue and Huang, 2015; Lyon, 2007). As such, it is viewed as something to be eradicated. On the other hand, in an alternative scholarly discourse, street entrepreneurship is viewed as a conduit of entrepreneurial opportunities and as a source to learn and demonstrate many entrepreneurial skills (De Soto, 1989; Williams and Gurtoo, 2012). Street vending is now seen as an activity of entrepreneurialism which potentially acts as a conduit for marginalized individuals to enhance their economic empowerment and bring meaningful social change (Sabella and El Far, 2019). As such, street entrepreneurship in this positive conceptualization is now viewed as a potential source of state tax revenue mainly through licensing fees, taxes levied on the consumption or income of the street vendors, as well as through sales and value-added taxes charged by the vendors and subsequently paid to the government (Lin, 2018). Tackling street entrepreneurship akin to other forms of informal entrepreneurship through any types of rent extraction, has thus become a core agenda for supranational agencies and governments worldwide (European Commission, 2007; ILO, 2014; OECD, 2012).

Recently, scholars have increasingly adopted the lens of institutional theory when explaining the prevalence of informal entrepreneurship (e.g., Webb *et al.*, 2009; Welter *et al.*, 2015; Williams and Shahid, 2016), yet hitherto the discourse of street entrepreneurship remains completely deficient of an institutional perspective (see De Castro *et al.*, 2014 for an exception), which forms the focus of this article. In doing so, our research offers several theoretical contributions. Firstly, drawing on the institutional theory (Di Maggio and Powell,

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1983; Scott, 2008), we offer a new theorization of informal entrepreneurship. According to institutional theory, institutions define the rules of the game within a society which essentially govern the behaviour of the individuals living in that society (North, 1990). Moreover, all societies have both formal institutions (i.e., codified laws and regulations) that set out the legal rules of the game, as well as informal institutions which are the unwritten socially shared rules that exist outside of officially sanctioned channels (Helmke and Levitsky, 2004), and are the norms, values and beliefs held by citizens and entrepreneurs reflecting their individual morale about what is right and acceptable (Denzau and North, 1994). Viewed through an institutionalist lens, two perspectives have so far dominated the theoretical discourse of informal entrepreneurship. In the first institutional perspective, informal entrepreneurship is explained as resulting from the failures and imperfections of formal institutions (e.g. rules, laws and policies of the state). Three institutional factors that are overly discussed in the literature as underlying reasons for the failure and inefficiencies of formal institutions, which in turn is deemed responsible for the growth of informal entrepreneurship, are redistributive justice (Shahid et al, 2020; Williams, 2020; Windebank and Horodonic, 2017; Verboon and Goslinga, 2009), procedural justice (Murphy et al., 2016; Gobena and Van Dijke, 2016; Faizal et al., 2019) and public sector corruption (Williams et al., 2016; Gangl et al., 2015; Wallace and Latcheva, 2005). In this first institutional perspective, however, the focus has been almost entirely upon formal institutions when explaining the prevalence of informal entrepreneurship. A second institutional perspective (Siqueira et al., 2016; Webb et al., 2014) thus emerged, asserting that focusing solely on formal institutions to explain informal entrepreneurship does not account for the role played by informal institutions, i.e. socially shared norms, values and beliefs of the entrepreneurs, Therefore, greater attention is paid to informal institutions, and informal entrepreneurship is here seen as resulting from the 'asymmetry' between formal and informal institutions (De Castro et al., 2014; Webb et al., 2009). This institutional asymmetry is largely measured as a change in the 'tax morality' of the entrepreneurs.

In this paper, we further advance the institutional theory on informal entrepreneurship by offering a theoretically integrative perspective. We synthesize the existing institutional viewpoints and thus offer a more nuanced explanation of entrepreneurship in the informal sector. To date, the first two institutional perspectives are presented as two separate and alternative explanations for the prevalence of informal entrepreneurship. We present a third institutional perspective, arguing that informal entrepreneurship is not solely produced by institutional asymmetry *per se*; neither is it the direct outcome of formal institutional failings. Instead, it is the failure of formal institutions, reflected as the lack of redistributive justice, low procedural fairness and public sector corruption, which essentially produces institutional asymmetry, i.e. low tax morality (Horodonic and Williams, 2016; Ahmed and Braithwaite, 2005), and that then leads to the greater prevalence of informal entrepreneurship (Williams and Franic, 2016; Torgler and Schneider, 2009). In sum, in order to further advance the institutional view of informal entrepreneurship, we hypothesise that institutional asymmetry mediates the relationship between formal institutional failings and the prevalence of informal entrepreneurship. This mediating role of institutional asymmetry, and hence the weaving of the first two institutional perspectives, becomes even more so valid in the developing country context of our study, which is almost always characterised by weak formal institutions and low tax morality.

Secondly, this paper examines the behaviour of street entrepreneurs with regard to two different and independent forms of registration so as to examine whether their compliance at a specific level might be a precursor for their compliance with higher-order regulations. We know from previous qualitative studies that street entrepreneurs tend to behave differently regarding their compliance with local- and national-level legislation, generally preferring the

former over the latter for strategic reasons (e.g. De Castro *et al.*, 2014). There is, however, no quantitative inquiry of this proposition to date. Thus, we intentionally incorporate two varying registrations in our analytical model - one local (vending license) and the other national (registration with the tax authority). By doing so, our study extends the literature of informal entrepreneurship beyond the conventional binary (formal vs informal) perspective. We rather argue that formalisation might actually become a self-propelling pursuit for informal entrepreneurs, whereby they move from lower to higher orders of compliance.

This article poses two questions for present research:

*Firstly, do the institutional determinants of one form of compliance differ from the other form of compliance for street entrepreneurs?* 

Secondly, if we can encourage street entrepreneurs first to attain a local-level registration (i.e. vending license), does it increase their likelihood of attaining a national-level registration (i.e. tax registration) as a result?

Finally, this study offers the novel concept of 'formalisation intentions' in a context where the default state of the enterprises (i.e., street hawkers) is such that they all operate as wholly informal entities and thus exhibit no discernible variation in their levels of formality. Otherwise, most previous studies on informal entrepreneurship have focused on evaluating the level of formality of entrepreneurs and what causes them to exist at varying levels of formality (Shahid et al., 2020; Williams and Shahid, 2016). Although, in theory, street entrepreneurs may also exist anywhere on a continuum ranging from wholly formal to wholly informal, most in lived practice in developing economies inhibit a position towards the wholly informal end of the spectrum. The scenario was no different in the case of our study, where 98% (316 out of 322) of the street entrepreneurs lacked any form of registration and thus were operating as wholly informal enterprises. Therefore, any form of a statistical notion based on their 'level of formality' would have been inconsequential. This study, as a result, for the very first time examines the 'formalization intentions' of entrepreneurs, i.e., their intent to formalise their businesses, instead of their actual level of formality, the phenomenon understanding of which has relevant policy implications. Drawing support from Ajzen's (1991) Theory of Planned Behaviour (TPB), we argue that intentions are the single best predictor of an individual's behaviour. When behaviour is rare or difficult to observe, intentions would serve as a conduit to better understand the 'act' itself (Krueger et al., 2000; Liñán and Chen, 2009). Using an institutionalist lens and drawing on the arguments of TPB thus, we analyse the determinants of what is here termed as 'formalisation intentions' to be a predictor of street entrepreneurs' likelihood to actually formalize their business in a situation when almost every one of them is currently operating as a fully informal enterprise. Hitherto, no known study has sought to empirically assess formalization intentions *per se*, either from an institutional perspective or beyond.

The following section reviews the three institutional perspectives that seek to explain informal entrepreneurship. From this, our research hypotheses are generated. The second section describes the data used, a 2019 survey of 322 street vendors operating in Lahore, Pakistan, and the Partial Least Squares approach to Structural Equation Modelling (PLS-SEM) used for data analysis. The third section reports the results and discussion, followed by final sections discussing the theoretical and policy implications, conclusions, the limitations of the study and future research areas.

# 2. Theoretical Foundations and Hypotheses Development

Why people choose to obey or disobey decisions made by institutions has been a topic of research for quite a long time in the literature of public policy (Wenzel, 2002). Reviewing the literature on informal entrepreneurship and the tax non-compliant behaviour of citizens, two competing theories emerge. There is the 'rational economic actor' approach (Horodnic and Williams, 2018), or what is also referred to as 'rational choice model' (Murphy, 2003) and/or 'economic self-interest model' (Wenzel, 2002). On the other hand, there is the 'social actor' approach (Williams, 2020) or 'accommodative'/'attitudinal' model in the literature (Murphy, 2003, 2005).

The rational economic actor approach has its roots in the seminal work of Allingham and Sadmo (1972) and has dominated the discourse of informal entrepreneurship. It views the participants of the informal economy as mainly driven by profit-seeking and self-interest. The advocates of this approach argue that individuals will only comply and formalise when they see the benefits of compliance as superseding the cost of non-compliance. The rational economic actor approach and its implied regulatory approach of deterrence is, however, heavily criticised for its excessive focus on "individual outcome maximization" and being "overly individualist" (Kaplanoglou and Rapanos, 2015). As a result, in the past few years, an alternative 'social actor' approach has emerged, which focuses on engendering voluntary compliance by developing a social contract between the entrepreneurs and government instead of forcing them to comply using deterrents. Researchers have suggested that 'attitudes' and 'moral obligations', instead of pure economic calculations and fear of punishment, are important, and thus nurtured, to ensure compliance and formalisation (Braithwaite 2002; Murphy, 2005). Most recently, within this social actor or attitudinal approach, scholars have begun to apply an institutional lens to explain the informal economy in general and informal entrepreneurship in particular. Literature presents two institutional perspectives that dominate the discourse of informal entrepreneurship in this regard.

# First institutional perspective: formal institutional failures and weaknesses

In the first institutional perspective numerous formal institutional failures, such as the lack of redistributive and procedural justice (Murphy, 2005; Braithwaite *et al.*, 2007), public sector corruption (Siqueira *et al.*,2016), over or little regulation by formal institutions (De Soto, 1989); weak enforcement of law by formal institutions (Shahid *et al.*, 2020) and formal institutional instability and uncertainty (Levitsky and Murillo, 2009), and their impact on informal entrepreneurship is studied. For the purpose of this study, we build our hypotheses around three formal institutional failures, in particular, namely procedural justice, redistributive justice and public sector corruption. Each of these institutional factors is discussed below.

The concepts of procedural and redistributive justice and their impact on people's decision to obey or disobey the law is grounded in Tyler's theory of compliance (Tyler, 1990). According to Tyler and Smith (1998), people's behaviour towards compliance and informality is rooted in their views about *justice* and *fairness*. The procedural justice literature demonstrates that people's reaction to their experiences with public authorities is rooted in their evaluation of the fairness, trustworthiness, interpersonal respect and impartiality of the procedures used by those agencies to exercise their authority (Murphy *et al.*, 2016). The literature on tax compliance (Feld and Frey, 2002; Farrar, 2015), and informal entrepreneurship in general (Molero and Pujol, 2012; Williams and Shahid, 2016), has suggested that the taxpayers and entrepreneurs who perceive decisions enacted by the tax and other public

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authorities as high in procedural justice show, as a result, an increased willingness to voluntary compliance with tax regulations and other related laws. In addition to procedural justice, redistributive justice also seems to have a strong correlation with the level of informality and compliance. Redistributive justice represents how entrepreneurs perceive that the public goods and services they receive are commensurate with the taxes and other contributions they pay to the government (Van Dijke et al., 2019; Richardson and Sawyer, 2001). Drawing inspiration from the equity theory of Walster *et al.* (1978), the redistributive justice framework (Wenzel, 2003), calls for a socially just allocation of rewards and costs by the government for their citizens, or what is referred to as exchange equity (Verboon and Goslings, 2009). The higher the perceived exchange equity amongst entrepreneurs, the higher the level of voluntary compliance amongst them (Shahid et al., 2020; Williams, 2020). Besides exchange equity, other dimensions of redistributive justice, known as horizontal equity and vertical equity, are also identified with respect to their relationship with the prevalence of informal entrepreneurship. Horizontal equity refers to the comparison of one's own cost-to-benefit ratio of their payments to the government with that of others within their own social group, community or industry, while vertical equity concerns their comparison with other social groups (Wenszel, 2002). People who believe that they pay more taxes but receive fewer benefits in return with respect to others (horizontal or vertical inequity) tend to be less compliant with tax and other laws (e.g. Shahid et al, 2020; Williams, 2020).

Developing countries, such as Pakistan, are typically characterised by weak formal institutions whereby entrepreneurs' perceptions of redistributive justice and procedural fairness remain dismally low (Mair and Marti, 2009; Prasad, 2012). While in developed countries the relationship between citizens and state authorities is often harmonious (Maciejovsky et al., 2012; Molero and Pujol, 2012; Alon and Hageman, 2013) there remains a clear breach of social contract and trust between the state and its citizens in developing countries. In such contexts, entrepreneurs tend to view business registration and tax payments as a burden rather than a contribution to a common good (Asaminew, 2010; Gobena and van Dijke, 2016). First of all, regressive tax regimes in developing countries tend to place a disproportionate tax burden on certain businesses and the poorer segments of society. In Pakistan, for instance, around 60% of the revenues come from indirect taxes (e.g. sales tax, customs duty and withholding taxes) rather than direct taxes (e.g. income tax), which are regressive in nature, making both the poor and rich pay the same percentage of taxes on their consumption of goods and services (Bukhari and Haq, 2021; Khan and haq Padda, 2021). Such reliance on indirect taxes in a developing country is yet another manifestation of inefficient formal institutions that fail to bring new businesses into the tax net and rather keep burdening the ones who have already registered, giving rise to a strong sense of unfairness and injustice amongst those who complied. This notion of an inequitable tax regime is further reinforced by the disproportionate distribution of taxes across different economic sectors in the country. The manufacturing sector, for example, makes up 12.5% of GDP, but it pays 34.5% of all the direct taxes in the country. Meanwhile, the agriculture, the sector that employs nearly half of the country's population and contributes almost 22% of GDP, and whose profits go largely to the rich landowners and wealthy parliamentarians, remains almost exempted from all forms of direct and indirect taxes. Similarly, large corporate businesses use aggressive tax avoidance strategies (Ahmed and Rider, 2013), particularly, the loopholes in tax policy to claim tax exemptions against activities that are at times falsely classified as corporate social responsibility. Kemal (2010), for example, notes how large corporate entities in Pakistan falsely show a considerable part of their incomes coming from agriculture and other exempted or zero-rated sectors. In sum, the tax system in Pakistan and the relevant institutions, in their current state, are inefficient and unfair. Therefore, the redistributive potential of formal institutions has not been realized, both because

the resulting system overburdens the poor while providing privileges to a wealthy few, and because it does not generate sufficient revenue for the provision of quality public goods and services. Consequently, we tend to witness a growth in the size of the informal economy in the context of a developing country, such as Pakistan.

Based on the above discussion and the theoretical underpinnings of the first institutional perspective, therefore, we hypothesize the following:

H1a: Lack of procedural justice has a negative impact on street entrepreneurs' intent to register for tax.

*H1b: Lack of procedural justice has a negative impact on street entrepreneurs' intent to obtain the vending license.* 

H2a: Lack of redistributive justice has a negative impact on street entrepreneurs' intent to register for tax.

H2b: Lack of redistributive justice has a negative impact on street entrepreneurs' intent to obtain the vending license.

In addition to the lack of justice and fairness that may exist in the procedures and resource distribution of public authorities, another form of formal institutional failure that is largely discussed as an antecedent of informality is public sector corruption. It is argued that informal entrepreneurship is a direct outcome of resource misallocations and inefficiencies resulting from the corrupt behaviour of government officials (Wallace et al., 2006). Most importantly, corruption persists through the misuse of a public office for private gains, whereby a corrupt government official would demand bribes, gifts, or undue payments from firms or individual entrepreneurs for favours in return, such as helping in obtaining operating licences and permits and avoiding delays or regulatory inspections (Pope, 2000). In developing countries, at times corruption takes the form of an additional tax for formal entrepreneurs leading them to exit the formal economy and operate in the informal economy to avoid such extortion from public officials, with Pakistan being no exception to the rule (e.g. Williams and Shahid, 2016; Gulzar, 2010). Another form of corruption which is relatively rarely studied in the informal entrepreneurship literature is when the entrepreneur him/herself uses their personal connections or influence to gain preferential access to public goods and services, such as lobbying to gain access to contracts, getting better utility connections or bypassing of formal procedures in business activities etc. According to Mughal (2012), in Pakistan, there is massive corruption both on the part of government officials and business owners. In either of these forms, corruption is found to have a deleterious effect on the perceived legitimacy of formal institutions and hence on the willingness to pay taxes in developing countries (Gangl et al., 2015; Levi et al., 2009; Cummings et al., 2009).

Many empirical studies from developing countries have suggested that corruption does not only reduce the overall tax collection (Dreher and Schneider, 2010) but also destroys one's trust in the honesty of fellow citizens (Dong *et al.*, 2012; Levi *et al.*, 2009). If government officials are suspected of pocketing revenues meant for public welfare, and if other citizens are believed to pay bribes instead of taxes, it severally damages one's own willingness to comply with state laws and regulations. Hence, corruption in the case of developing countries weakens personal and social norms of compliance and may result in a vicious cycle of informality (Gangl *et al.*, 2015). Corruption amongst government officials thus fuels informality, which in turn fuels even more corruption. This positive relationship between corruption and informality is not only widely recognized in the context of Pakistan (e.g. Khuong *et al.*, 2021; Shahid *et al.*, 2020; Williams *et al.*, 2016), but in many other developing countries as well (e.g. Maddah and Sobhani, 2014; Ali et al., 2014). In certain cases, on the contrary, in developing countries, a rise in corruption is rather found to be associated with a higher level of formality. It seems to be the case when the transactional costs of paying bribes are potentially more than the cost of formality and hence formalisation is viewed by entrepreneurs as a conduit to escape corrupt government officials (Le *et al.* 2020; Darkwa-Amanor *et al.*,2007). However, as more commonly the case in a developing country corruption deprives the state of the funds it needs to maintain quality governance, which in turn severally limits its capacity to ensure a just and fair redistribution of wealth amongst its citizens and hence leads to higher informality (Khan, 2020).

Therefore, we hypothesize that:

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H3a: Public sector corruption has a negative impact on street entrepreneurs' intent to register for tax.

H3b: Public sector corruption has a negative impact on street entrepreneurs' intent to obtain a vending license.

#### Second institutional perspective: informal institutions and institutional asymmetry

The focus in the first institutional perspective was almost entirely on examining the effect of formal institutions and how the failure or weaknesses of these institutions is related to the prevalence of informal entrepreneurship. The extant literature pays very little attention to the role of informal institutions in this perspective. In reality, however, it has been realised that in situations (typically in developing countries) characterised by weak or failed formal institutions, businesses or entrepreneurs turn to informal institutions, that are represented by norms, values and beliefs, for their guidance and execution of business activities. This is because these informal rules of the game are seen as being more accessible, inclusive and longlasting as compared to the ever-changing unfair and punitive rules of formal institutions. Based on the recognition of this prominent role played by informal institutions, the second institutional perspective transcends beyond simply formal institutional failings and imperfections and brings into focus the role played by cognitive and normative cultural institutions, combined together to represent informal institutions (Godfrey, 2015; North, 1990; Scott, 2008). According to this perspective, informal entrepreneurship is explained mainly as an outcome of institutional asymmetry that may exist between formal institutions (i.e. state's codified laws and regulations) and informal institutions (i.e. entrepreneur's socially shared norms, values and beliefs). If formal and informal institutions are not aligned, which is commonly the case in developing countries, it gives rise to informal entrepreneurship that, although formally illegal, is deemed socially legitimate (Siqueira et al., 2016; Webb et al., 2014). The powerful role of informal institutions in shaping entrepreneurial behaviour such that entrepreneurs do not only engage in informal practices but also thrive in such ventures is now widely recognised especially in the marginalised contexts of developing countries, such as Pakistan (Muhammad et al., 2016).

In this second institutional perspective, it is important to assess what is deemed as socially legitimate by informal institutions to explain informal entrepreneurship. One helpful

avenue is to measure entrepreneurs' tax morale. Tax morality, defined as the individual's intrinsic motivation to pay taxes (Torgler and Schneider, 2009), is widely seen to provide a measurement of the gap between the formal institutions (state morale) and informal institutions (civic morale), and hence represents the degree of asymmetry between formal and informal institutions (Horodnic and Williams, 2016). Existing research suggests a strong correlation between the level of tax morale and an entrepreneur's propensity to engage in informal activities; or the higher the tax morale, the lower the prevalence of informal entrepreneurship (Torgler and Schneider, 2009). Tax morale, in turn, is found to be positively associated with factors including trust in government and judiciary as well as the level of dissatisfaction with public services (Daude *et al.*, 2013). Based on these theoretical underpinnings of the second wave of institutional theory, and using tax morale as an indicator for institutional asymmetry, we, therefore, hypothesize that:

H4a: Low tax morality has a negative impact on street entrepreneurs' intent to register for tax. H4b: Low tax morality has a negative impact on street entrepreneurs' intent to obtain the vending license.

# *Third integrative institutional perspective: institutional asymmetry as an outcome of formal institutional failures:*

The first two institutional perspectives can be marked in terms of their varying focus on formal and informal institutions as the primary determinants of informal entrepreneurship. However, advancing the institutional theory of informal entrepreneurship, we argue that it is neither the formal nor informal institutions on their own that can better explain informal entrepreneurship. It is rather how they correlate with each other in a given context that offers a better explanation for the prevalence of informal entrepreneurship. Instead of being viewed as alternative views, the two institutional perspectives outlined above shall be synthesised to develop what is here termed as a third institutional perspective (see Figure 1 for our conceptual model). In this new perspective, we theorise that informal entrepreneurship is not solely a result of institutional asymmetry or institutional failings and imperfections per se. Rather, it is the formal institutional failings and imperfections that produce an institutional asymmetry, which then leads to a higher prevalence of informal entrepreneurship. The way in which formal institutional failings and imperfections, however, produce institutional asymmetry is a multifaceted process that would vary depending on different institutional environments and whether there exists a substitutive or complementary relationship between the formal and informal institutions in a given context and place.

In some institutional contexts, such as when formal and informal institutions are complementary, and thus aligned, formal institutional failings may not lead to the greater prevalence of informal entrepreneurship. This, however, although hypothetically a possibility, is here considered not to be generally the case in most institutional environments and entrepreneurial ecosystems. This argument might work, for instance, in some long-standing and slow-to-change developed economies where the formal institutions over many decades have managed to both shape and be shaped by, the informal institutions so that they become complementary through a process of iterative shaping of each other. In such a scenario, formal institutional failings and imperfections *per se* do not necessarily result in a higher degree of non-compliance and hence increased informality, if there exists an alignment between formal and informal institutions. It is so because having faced problems of formal institutional institutional institutional for their moral compass, which if aligned with the formal code of law, would still promote a compliant behaviour. However, much more commonly in developing

countries, formal and informal institutions are substitutive, meaning that formal institutional failings and imperfections produce institutional asymmetry which in turn results in the acceptability and prevalence of informal entrepreneurship. It is this dependent, rather than an independent, relationship between the variables of the first two institutional perspectives and their eventual effect on informality, which gives rise to the need for a more synthesised view.

Hence, to advance this third institutional perspective and to test whether formal institutional failings and imperfections, measured as a lack of redistributive and procedural justice, and public sector corruption, lead to institutional asymmetry, we examine the mediating effects of tax morality (proxy measure of institutional asymmetry) on formalization intentions. This analysis will help test the synthesising of the existing institutional perspectives by elucidating the impact of redistributive justice, public sector corruption and procedural justice on tax morality, which is here theorized as subsequently impacting the level of compliance. Therefore, we hypothesize that:

H5a: Tax morality mediates the impact of procedural fairness, redistributive justice and corruption on street entrepreneurs' intent to register for tax.

H5b: Tax morality mediates the impact of procedural fairness, redistributive justice and corruption on street entrepreneurs' intent to obtain a vending license.

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**Insert Figure 1 here** 

# 3. Methodology

# Research Context

Street vending plays a vital role in the economy of developing countries, especially since it stands as a conspicuous activity in the informal sector (Recchi, 2020; Beccles, 2014). According to an estimate, there are over a million street vendors in Pakistan contributing around \$2 billion to the national economy<sup>1</sup>. Moreover, according to the 2016 Gallup Survey of Pakistan, 75% of the Pakistani households stated that they have easy access to street vendors and roadside stalls. This shows that the urban poor in Pakistani cities are largely dependent on street vending not only because it is an important source of employment for them but also for its ability to provide commodities that are cheaper than formal markets and stores.

Despite the significant size and importance of this economic activity in the urban economy of Pakistan, street vending remains a neglected area for policymakers, academia, society and donors' circles. From the policy viewpoint, little to no attention has been paid to this crucial trade in Pakistan. Instead of regularising and developing a policy framework for street vendors, successive governments have resorted to stringent anti-encroachment measures against urban street vending activities. The most recent and glaring example was a massive drive in October 2018 backed by the orders of the Supreme Court of Pakistan to remove all

<sup>&</sup>lt;sup>1</sup> <u>https://nation.com.pk/29-Nov-2019/ehsaas-programme-to-be-implemented-by-engaging-45-govt-agencies</u>

street vending activity obstructing pedestrian and vehicular movements in Karachi, the largest city of the country. It resulted in the removal of approximately 9,000 street vendors, including 82 women vendors (Hasan, 2021). While the existing regulatory framework in this regard articulates the licensing requirements and the related penalties in case of violations, a comprehensive framework including rights, privileges and entitlements of street vendors is still not clear. Consequently, in the absence of proper legal protection, street vendors in Pakistan are often faced with incidents of harassment and abuse as well as confiscation of their property by public officials (Moosvi, 2021). In the city of Lahore, the site of this investigation, street vendors are subject to two mandatory legal obligations for them to conduct their business legally. First, they should register with the provincial tax authority<sup>2</sup> and obtain a National Tax Number (NTN). Second, they must obtain the vending license from the municipality corporation of the area in which they wish to do business. The vending license restricts the street vending activity to a specific locality and is subject to renewal after every 1-2 years depending on the locality.

#### Data Collection:

For data collection, face-to-face surveys were conducted by two hired research associates with the aid of a structured questionnaire. Given the low literacy level of street vendors in Pakistan and their lack of familiarity with the English language, the survey questionnaire was translated in Urdu by the first author for whom Urdu is a mother tongue.3 Following a pilot survey of 20 street vendors in October 2019, the main survey was conducted during November-December, 2019 culminating in 322 respondents. Participant selection was undertaken via maximum variation sampling technique, an alternative to random probability sampling method, that allows researchers to gather data in situations where the sample population is either invisible or difficult to access (Williams and Gurtoo, 2012; Vershinina and Rodionova, 2011). This was achieved by the socio-spatial segmentation of the city into six zones ranging from high income to low-income areas. In order to gain access and ensure diversity, each zone was further identified for 2-3 clusters of street vendors within it. Subsequently, the street vendors were approached for the survey in these clusters. While deciding which participants to choose for the survey, a diversity was maintained in terms of the product and premises (mobile vs. stationary) type. The outcome was a representative sample of participants consisting of street vendors selling varying products in different areas of the city using different modes (see Table I).

Examining the characteristics of our 322 survey participants, Table I reveals that the majority of street vending revolved around the sale of perishable products, such as instantly consumable food items, vegetables and fruits, followed by garments and accessories. Almost 80% of the street vendors were mobile or 'itinerant' as they sold goods via mobile and/or temporary structures by walking around, while the remaining operated through a fixed stall on the roadside or in a market. Statistics also revealed that street vending was more concentrated in specific demographic groups than others. For example, almost 96 % of our sample consisted of males and majority of them were middle-aged (between 20-40 years of age) and had no formal education. On average, street vendors worked for 10-20 hours per day for 6-7 days per week. Although, the majority of the street vendors in our study earned a monthly income of between PKR 10,000-20,000, a significant percentage of them (28 % approximately) reported to be earning more than PKR 20,000, with 7% of them were even earning more than

<sup>&</sup>lt;sup>2</sup> <u>http://pra.punjab.gov.pk/</u>

PKR30,000, which was considerably more the National Minimum Wage of Pakistan<sup>3</sup> at the time of the survey.

# Insert Table I here

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### Measurement of Latent Variables:

Our proposed research model consists of six latent variables assessed by a total of 13 items, as depicted in Figure 2. The latent variables are: Formalization Intentions License, Formalization Intentions Tax, Redistributive Justice, Procedural Justice, Tax Morality and Public Sector Corruption. Table II presents the construction and internal reliability statistics for the six latent variables.

# Dependent Latent Variables:

### Formalization Intentions

The scale of formalization intentions (FI) was adapted from prior research on entrepreneurial intentions (EI). More specifically, we adapted scales from one of the most widely used measures developed by Jaen and Lin'an (2013). Our model has two dependent latent variables capturing different dimensions of the formalisation intentions of street vendors: (a) Formalization Intentions for License, which captures the street vendors' willingness to obtain the vending license, (b) Formalisation Intentions for Tax, which essentially captures their level of willingness to register with the tax department. For each of these variables, responses were recorded on a two-item scale using a five-point Likert scale ranging from 1 -'strongly disagree' to 5 -'strongly agree'.

Independent Latent Variables:

# Redistributive Justice

Using the conceptualisations laid out by Richardson and Sawyer (2001), we develop a threeitem scale to measure redistributive justice. The three items recorded each vendor's agreeableness to the quality of public services, utilities, road infrastructure and other business services that they received from the government. Each of the three items was measured on a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree).

#### **Procedural Justice**

Drawing upon Murphy's (2005) theorisation of procedural justice, we construct a three-item scale to measure procedural justice. The street entrepreneur's response to how strongly they believed that government authorities treated them with respect, were accessible to them for problem resolution and addressed their complaints fairly were recorded. All the three items

<sup>&</sup>lt;sup>3</sup> National Minimum Wage in Lahore, Pakistan at the time of survey = 15 000 PKR.

were measured on a five-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree).

#### Public Sector Corruption

As used elsewhere in the literature (Williams *et al.* 2015; Knack, 2007), we used perceived corruption as a measure of public sector corruption. This variable takes the form of a single item latent variable construct<sup>4</sup>. A three-point Likert scale was used to ask our respondents to indicate if they believed that the government departments were corrupt and asked for bribes (1 = strongly disagree; 2 = somewhat agree; 3 = strongly agree).

### Tax Morality:

Using the conceptualisations offered by Torgler and Schneider (2009) we constructed the latent variable of tax morality by using a two-item scale measuring the level of street entrepreneurs' trust in the government and legal system of Pakistan. A five-point Likert scale was used ranging from 1 (a lot of trust) to 5 (no trust at all) for each of the two items.

# Insert Table II here

## Measurement of Control Variables:

Consistent with the extant literature, we controlled for a number of demographic and enterprise related characteristics found in previous research on informal entrepreneurship. First, we controlled for certain individual-level characteristics, including gender, a dummy equal to '1' if the respondent was a female (Williams and Gurtoo, 2012); age and education, both ordinal variables consisting of five categories each ranging from the lowest to highest category (Gennari, 2004); and monthly income, an ordinal variable ranging from 1 to 5 where 1= under PKR 5000 and 5 = over PKR 30,000 (Shahid et *et al.*, 2020). Second, amongst enterprise-related characteristics, we controlled for the age of business, a continuous variable measuring the number of years since the person started street vending (Thai and Turkina, 2014); product type, a categorical variable with nine categories, including instantly consumable food, balloons, flowers, fruits and vegetables, jewellery and accessories etc. (Williams *et al.*, 2016); premises types, a categorical variable consisting of three categories where 1 = Hawking/mobile vendor, 2 = Temporary stall on the road/market and 3 = Permanent stall on the road/market (Bhwomik, 2005).

#### Data Analysis:

In order to test our hypotheses, we used the Partial Least Squares approach to Structural Equation Modeling (i.e., PLS-SEM). SmartPLS version 3.2.6 software was used for our analysis. Multiple factors inform our choice of PLS SEM for testing our hypotheses. First, PLS-SEM remains an appropriate method for prediction-oriented research that is aimed at explaining the endogenous variables for theory building instead of theory testing (Wong, 2013). Second, our data is not normally distributed, which violates the covariance-based SEM assumptions; however, PLS-SEM successfully addresses this concern as it does not rely on normality assumptions. Third, PLS-SEM has higher accuracy and statistical power as compared to covariance-based SEM for the case of small sample sizes (Lu et al., 2011). Finally,

<sup>&</sup>lt;sup>4</sup> PLS SEM can successfully estimate single item constructs as part of the model without causing identification and convergence problems as compared to the covariance-based SEM (Garson, 2016).

PLS-SEM is a more rigorous estimation technique as compared to regression analysis, which assumes error free measurement and normality (Hair et al, 2013).

PLS-SEM follows a two-step approach to model estimation. First, the measurement *model*, also called the outer model, is assessed, which essentially depicts the relationships between each latent variable and its associated items or indicators. At this stage, we assessed the measurement model consisting of six latent and eight control variables using PLS algorithm. Second, the *structural model*, also called the inner model, is estimated using the bootstrap resampling procedure as advised by Chin (1998). The structural model of our analysis describes the relationships between different latent variables including the hypothesized mediating effects as depicted in Figure 2.

#### Assessment of Model Quality:

Prior to estimation, the model quality is ensured by testing for internal consistency reliability, convergent and discriminant validity, and Pearson zero order correlations.

#### Internal Consistency Reliability

In order to check the reliability of latent variables in our structural model, two complementary checks were carried out. First, using the criterion of Fornell and Larcker (1981), we checked for the composite reliability (CR) of all our latent constructs, which was comparable to Cronbach's alpha and should be higher than 0.70 (Nunnally, 1978). Next, the outer standardized factor loadings were estimated to assess the individual item's reliability for each variable. Factor loadings exceeding the threshold of 0.70 were considered reliable (Henseler et al., 2009). All the factor loadings and CR values were within the acceptable range (see Table II).

#### Convergent and Discriminant Construct Validity

Next, we checked for the convergent validity of our latent variable constructs by estimating their Average Variance Extracted (AVE) value. An AVE value of higher than 0.50 was deemed acceptable suggesting that the variable explains at least 50% of the variation of its indicators (Gotz et al, 2009). Furthermore, the discriminant validity of our latent constructs was assessed using the criterion of Fornell and Larcker (1981) according to which a latent variable should share more variance with its assigned indicators than with any other latent variable. To test this, the square root of AVE of each latent variable should be greater than the inter-construct Pearson zero-order correlations. As depicted in Table II and III, the convergent and discriminant validity of our constructs is well established. In addition, to further confirm the discriminant variability of our constructs, we also calculated the heterotrait-monotrait (HTMT) ratio of correlations. With all the HTMT values of our model being less than 0.85 (Henseler et al., 2015) - the highest one observed was 0.41 between tax morality and redistributive justice - the discriminant validity of our latent constructs was well established (see Table IV). L.

## **Insert Table III here**

**Insert Table IV here** 

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# **Multicollinearity**

To assess any potential collinearity issues of our inner model, we check for the Variance Inflation Factor (VIF) values. All VIF values fall approximately below the threshold of '5' (Hair et al., 2013), and hence, no critical issues of multicollinearity are detected amongst our variables.

#### The Standardized Root Mean Square Residual (SRMR)

The SRMR is a measure of the approximate fit of the research model that captures the difference between the observed correlation matrix and the correlation matrix implied by the model. Results of our model fit test showed an SRMR value of less than 0.08 (i.e. 0.05), and hence, indicate a good model fit (Hu and Bentler, 1998).

# Common Method Bias Test

To check for the presence of common method bias, Kock's (2015) post hoc statistical technique based on the analysis of variance inflation factors (VIF) of the inner structural model is used. All VIFs are found to be below the standard of 3.3 (Kock, 2015), therefore no evidence of strong pathological collinearity or common method bias is observed.

# 4. Results

In order to assess the extent of each variable's contribution to the explained variance of the endogenous variables in our model, the significance, magnitude and sign of each of the path coefficients ( $\beta$  values) were calculated using the bootstrapping method. Table V and Figure 2 report the significance of the direct, indirect and total effects as well as the coefficients  $\beta$  for each path of our structural model.

Insert Table V here

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**Insert Figure 2 here** 

Firstly, we analyse the hypotheses formed under the purview of the first institutional perspective. In this regard, our findings highlight that both procedural and redistributive justice does not have any significant direct impact on street entrepreneurs' intentions to either register with the tax department or obtain the vending license, which thus rejects hypotheses H1a, H1b, H2a and H2b. Meanwhile, whereas public sector corruption has a significant but counterintuitive effect on formalisation intentions for tax ( $\beta$ =0.164, p<0.05), no significant effect is observed at all between public sector corruption and street entrepreneurs' intentions

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to obtain the vending license. Essentially, it rejects both hypotheses H3a and H3b. Turning to the hypotheses developed using the theoretical underpinnings of the second institutional perspective, we examine the direct impact of institutional asymmetry (i.e. tax morality) on the formalization intentions of street entrepreneurs. Results indicate that low tax morality, as indicated by a higher value on the Likert scale, has a moderately significant and negative direct effect on street entrepreneurs' likelihood to register with the tax department. Likewise, there appears to be an even more significant and negative relationship ( $\beta$ = -0.139, p<0.05) between low tax morality and street entrepreneurs' intentions to obtain a vending license. Hence, both hypotheses H4a and H4b are supported.

Next, we analyse the mediating role of tax morality between our latent independent variables and formalization intentions for tax and license. Our model yields (1) highly significant effects of public sector corruption ( $\beta$ =0.154, p<0.05), redistributive justice ( $\beta$ =-0.294, p=<0.01), and procedural justice ( $\beta$ =-0.229, p<0.01) on tax morality; (2) a significant effect of tax morality as a mediator on street entrepreneurs' intent to obtain the vending license (p < 0.05) and a moderately significant effect on their intentions to register with the tax department. Also, looking at the indirect effect column of Table V, we find a moderately significant indirect effect of public sector corruption, procedural justice and redistributive justice *via* tax morality as a mediator. The findings of our study, thus, confirm both hypotheses H5a and H5b. To further elucidate the mediating effect of tax morality, we ran two post-hoc models separately with only one dependent variable added at a time, Model B and Model C, the results of which were then compared with the *direct effects model*, i.e. the model without any mediator (Model D; see Table VI).

Starting with Formalisation Intent for License as the single dependent variable, the results of Model B illustrate a significant mediating effect of tax morality. Likewise, turning to Formalisation Intent for Tax as the dependent variable, our results of Model C also yield significant effects of public sector corruption, redistributive justice and procedural justice on tax morality, which further strongly mediates the relationship ( $\beta$ = -0.155, p<0.05) between these latent variables and entrepreneurs' intentions to register with the tax department. It is also important to note that the models with the mediating variable – Model B and C – have a higher percentage of variance explained ( $R^2 = 0.13$  and  $0.14 > R^2 = 0.10$  and 0.11 as compared to the model without mediation, i.e. Model D. Nevertheless, our hypothesized Model A (Fig II) still vields the highest percentage of variance explained ( $R^2 = 0.14$  and 0.22, see Table V) as compared to the other models. It shows that the presence of tax morality as the mediating variable clearly improves the predictive validity of our models.

#### **Insert Table VI here**

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Finally, looking at the correlation between the two dependent variables of our model – formalization intent license and formalization intent tax – our study offers a striking result. We identify a highly significant correlation between the two dependent variables, whereby street entrepreneurs' willingness to obtain the vending license seems to positively impact their chances of registering with the tax department as well ( $\beta$ =0.212, p<0.01), but the relationship does not seem to hold in the opposite ( $\beta$ =0.212, p>0.1). In the end, amongst the control variables, premises type illustrated a moderately significant but negative impact on both formalization intentions for license ( $\beta$ =-0.139, p<0.1) and tax ( $\beta$ =-0.115, p<0.1), indicating

that mobile vendors are less likely to formalise as compared to those with a temporary stall on the street. Moreover, qualification also has a significant positive effect on vendors' intentions to obtain the tax registration, but not the vending license. All the other control variables remain insignificant.

#### 5. Discussion

With this article, we further advance the institutional theory on informal entrepreneurship by offering a theoretically integrative perspective. Synthesizing the existing institutional perspectives of informal entrepreneurship and drawing support from the arguments of the Theory of Planned Behaviour, this study provides a novel explanation of the mechanism through which formal institutional factors affect the formalisation intentions of street entrepreneurs. Several of our findings are worth discussing.

First, we find no support for the arguments of the first institutional perspective, contesting the view that formal institutional failings and imperfections, represented by the lack of procedural and redistributive justice, and high public sector corruption, directly lead to the prevalence of informal entrepreneurship. Counterintuitively, however, it elucidates that the stronger the perception of public sector corruption amongst street entrepreneurs, the higher their likelihood to register with the tax department. One logical explanation for this counterintuitive finding, as gathered from our informal conversations with these vendors while surveying, is the fact that most of them explained their increased willingness to formalize merely as a conduit to escape the excessive bribes and extortion paid to public officials. For them, by the virtue of their informal status, the cost and disturbance of dealing with corrupt government officials had increased to the extent that they would rather prefer to register themselves and do away with those frequent incidents of harassment. The transactional costs related to bribes are potentially reduced with formalisation for these street entrepreneurs (see also, Le *et al.* 2020; Darkwa-Amanor *et al.*,2007).

Second, as theorized, our findings offer strong empirical support for the arguments of the second institutional perspective. We find strong support for the direct relationship between the entrepreneur's propensity to operate informally and their level of tax morality (see also, Alm and Torgler and Scheider, 2009; Shahid et al., 2020; Williams et al., 2015). Low tax morality, in this case, indicates an individual's waning trust in the government and rule of law. This direct relationship between formalisation intentions and tax morality, interestingly, is more pronounced in the case of street entrepreneurs' intent to obtain a vending licence (i.e., a local registration) as opposed to registering themselves with the tax department (i.e., a national registration). It means that the effectiveness of tax morality as an antecedent of formality tends to vary according to the level of registration that an entrepreneur is supposed to obtain. In theoretical terms, our findings imply that when there is an asymmetry between formal and informal institutions ( De Castro et al., 2014; Webb et al., 2009), as represented by low tax morality, practices will emerge grounded in socially shared norms that may be illegal in terms of formal rules, but are otherwise socially acceptable and legitimate (Gangl et al., 2015; Levi et al., 2009; Cummings et al., 2009; Siqueira et al., 2016; Webb et al., 2014). Informal sector entrepreneurship is one such endeavour. Using the case of street vendors, therefore, this study fully advances the arguments of the second institutional perspective.

Third, our findings identify that tax morality (i.e., institutional asymmetry) very strongly mediates the relationship between formal institutional failings and the intent of street entrepreneurs not only to get licensed but also to register with the tax department. The results of our study, therefore, firmly advance the newly conceptualised third institutional perspective, illustrating the fact that informal entrepreneurship is not a direct outcome of formal institutional failures or inefficiencies *per se*. Rather, it is the failings/imperfections of formal institutions (i.e. low redistributive and procedural justice and high public sector corruption) that produce an asymmetry between formal and informal institutions (i.e., low tax morality), and that then leads to the greater prevalence of entrepreneurship in the informal sector. This is not to suggest that inefficiencies and imperfections of formal institutions have no role to play in determining formalisation intentions. Indeed, for the policymakers to enhance the level of formalisation amongst entrepreneurs, they must first work to ensure the efficient and fair functioning of their institutions. At the same time, however, no matter how efficient and fair the formal institutions are, their efficiency and fairness will not directly predict an entrepreneur's intent to formalise their business. For these institutional improvements to translate into enhanced formalisation intentions, entrepreneurs must first experience a positive change in their tax morality. Thus, while entrepreneurs would be unable to develop formalisation intentions in the absence of efficient and fair formal institutions, it is the tax morality (Horodonic and Williams, 2016; Ahmed and Braithwaite, 2005; Torgler and Schneider, 2009) they derive from such institutions that will ultimately determine their formalisation intentions. This mediating role of tax morality, and hence the weaving of the first two institutional perspectives, becomes even more valid in a developing country context which is generally characterised by weak formal institutions and low tax morality. In practical terms, thus, our findings suggest that if entrepreneurs perceive that they were not treated in a respectful and fair manner by public officials, did not receive an equitable return of the taxes paid and were forced to pay bribes or undue payments in their day-to-day dealings with public authorities, they tend to lose their trust in the government and justice system of the country. It is this loss of trust and morality that then reduces the intent of these entrepreneurs to comply with the prevailing laws and regulations.

Lastly, this study examines the behaviour of informal entrepreneurs with regard to two different and independent forms of registration so as to examine whether their intentions to obtain one form of registration may also affect their intent to obtain the other. If it is so, is there any specific causal relationship that may exist between the two? Informal entrepreneurs are found not only to be selective about their registration choices (e.g. Shahid *et al.*, 2020), but they also tend to show a preference for one over the other (De Castro *et al.*, 2014). In line with these arguments, our study has identified a strong positive correlation between street entrepreneurs' intent to obtain a vending license and tax registration, whereby their attainment of the former strongly predicts their chances of opting for the latter as well. This causality, however, does not hold true for the opposite direction according to our results. It implies that if we can somehow encourage these street entrepreneurs to opt for a local-level registration (e.g. vending license) as the first step towards formalisation, it will very likely increase their chances to opt for higher national-level registrations (e.g. tax registration) as a subsequent step.

#### 6. Policy Implications

The paper's findings clearly have relevance and significance for policy makers, working within the realms of entrepreneurship and enterprise and more specifically within general taxation.

Within policy-making circles, there are existing debates about which policy tools should be used in order to engage with informal forms of entrepreneurship, commonly dichotomised into two camps of using either 'carrots' (developing policies to encourage informal entrepreneurs to come 'out of the shadows' and formalise their entrepreneurial activities) or 'sticks' (using policies to act as tough deterrents to prevent informal forms of entrepreneurship; i.e fines, penalties. Both of these viewpoints maintain the overarching objective of formalising informal activity and as a consequence, the state can capture the lost tax revenues, which were previously unpaid and so the 'tax gap' can be to a degree reduced. However, to date, as outlined above, no scholarly work has devoted attention to explicitly focusing on what we describe as 'formalisation intentions'. Whilst previous studies have measured levels of informal activity, often regularly over time, in an effort to see if any changes have taken place, there has been a failure to more explicitly uncover if there are intentions for informal entrepreneurs to formalise their economic activities. Policymakers now can explore the utility of this novel concept with a view to developing policies at the local and national levels to encourage informal entrepreneurs to come 'out of the shadows'.

In terms of policy recommendations for street vending in Pakistan, it is evident from this research that a *cultural change* is required, involving an acknowledgment of the inherently important role of street vending in the web of economic linkages across the country. Rather than focusing upon how to deal with the 'nuisance' of street vending, new policies ought to be based on how to foster inclusive spaces that work for all urban stakeholders. Related to this is the need for a *collaborative* approach to policy-making, involving street vendors and their customers: as well as other stakeholders like formal businesses and civil society organisations. Street vendor associations could be established to offer a forum for discussion between traders and government officials. Similarly, *legal protection* is required to provide a set of guiding principles that seek to integrate and harmonise the informal economy with other urban activities (Ehrenfeucht, 2016). An example to follow could be India's 'Street Vendors Act 2014', which makes provisions for town vending committees (outlining their roles/responsibilities and minimum presence per zone), allocates specific zones for street vending, procedures for attaining licenses/certificates along with conditions for their cancellation, penalties for failing to meet the bill's stipulations, and the establishment of a formal authority dedicated to dispute resolution. Finally, there is a need for more readily available *micro-finance* channels for street vendors, who are often poorly educated and are unable to procure documentation to receive formal loans from banks. Government loan schemes, tailored for street vendors could assist in this regard.

# 7. Limitations and Future Research Directions

As with any empirical research, this study has certain limitations, many of which open interesting avenues for future research. First, our study was limited to only one type of enterprise (i.e. street hawkers) and one metropolitan city in Pakistan which limits the generalizability of our findings. To somewhat mitigate this concern, we gathered data from street vendors operating in vastly different markets and neighbourhoods of the city and having a comparable representation of those with fixed premises and mobile units. In addition, we found evidence of heterogeneity in our sample in terms of formalisation intentions and tax morality scores, allowing us to improve the generalizability of our results beyond the context of one particular city. Nonetheless, it is to be acknowledged that we have used a non-probability sampling technique (i.e. maximum variation sampling), which might not have resulted in a sample that is the best representative of the street hawking population in Lahore. Therefore, it would be interesting to replicate our study in other socio-spatial contexts and populations (e.g. relatively larger enterprises and employed forms of informal work) using a more random selection of study participants to further validate the theoretical propositions of the third institutional perspective proposed here.

Second, our study restricted itself to only a range of institutional-level factors. Further research may like to include personal and enterprise-level factors in our proposed model. For example, it would be very interesting to take a closer look at examining how the relationship between tax morality (Horodonic and Williams, 2016; Ahmed and Braithwaite, 2005) and formalisation intentions is moderated by factors like the entrepreneur's age, gender and education, as well as the income and age of the business. Moreover, researchers may also like to include the constructs of other formal institutional failures in the model, such as state powerlessness, burdensome regulatory regimes, and political and institutional instability, to compare their direct and indirect (via tax morality) effects on informal entrepreneurship and the informal economy in general. Likewise, future studies may enrich our conceptual model by more specifically exploring the concept of tax morality. In doing so, one can factor in other forms of informal institutions to improve the latent variable of tax morality. For example, they may either explore entrepreneurs' trust in more specific formal institutions (e.g. tax authorities, law enforcement agencies, politicians) as a determinant of their tax morality or may consider broader meso-level determinants of tax morality. Third, this study has confined itself to conceptualising the idea of formalisation as being registered only for tax and business license purposes, since these were the only forms of registration applicable to street vending in Lahore. However, when studying more mainstream enterprises, researchers may also like to include other verticals of informality (e.g. labour laws, the status of account keeping, the ownership structure of the business) to further enrich the construct of formalisation intentions. To summarize, we provide a starting point for scholars and policymakers to understand the mediating role of institutional asymmetry between formal institutional failures and formalisation, and hence to advance the existing institutional perspectives of informal entrepreneurship. Many additional avenues of inquiry remain for discussion, and we hope that future research will build on this foundation.

#### 8. Conclusions

This paper set out to further advance the institutional theory of informal entrepreneurship. We recognise that although there has been a burgeoning literature that adopts an institutional approach when explaining entrepreneurship in the informal economy, no known study in this literature has so far applied this approach to understanding a relatively ignored but rapidly growing segment of the informal economy, namely street entrepreneurship. This article has thus provided the first known study (with the exception of a qualitative study by De Castro *et al.*, 2014) that offers an institutional perspective on street entrepreneurship. Furthermore, while most of the studies in the institutional discourse of informal entrepreneurship remain focused on evaluating the impact of various institutional factors on the actual level of formality as practised by the entrepreneurs, a novel concept of 'formalisation intentions' is conceptualised in this paper. By doing so, this study responds to the need identified by Baker and Welter (2017) for scholarly work that looks beyond what is considered the core or 'mainstream' in entrepreneurship research and focuses on everyday entrepreneurial activities enacted by ordinary individuals in a marginalised context, a perspective that is inadequately addressed in the existing literature.

We argue that the existing institutional perspectives of informal entrepreneurship are seen as alternative theorisations and hence fall short of offering a fuller explanation of the said phenomenon in their own right. We thus propose to synthesise the existing institutional perspectives and develop a more nuanced and theoretically integrative explanation of informal entrepreneurship, resulting in the conceptualisation of what we call a third institutional perspective. Using the case of street entrepreneurs in a developing country context and deploying the PLS-SEM technique in the scholarship of informal entrepreneurship, we put forth that it is neither the formal institutional failings nor the asymmetry of informal and formal institutions that can best explain the phenomenon of informal entrepreneurship on their own. Instead, it is the synthesis of the two viewpoints that is warranted such that it is the failure of formal institutions that causes institutional asymmetry, which then leads to informal entrepreneurship. Contrary to the arguments of the first institutional perspective, we identify no direct effect of formal institutional failures, expressed as the street entrepreneur's low perceived procedural and redistributive justice, and high public sector corruption, on their formalisation intentions. Rather, we suggest that this relationship between formal institutional factors and informal entrepreneurship can be explained most effectively if mediated by the factor of tax morality (i.e. institutional asymmetry), be it in the context of a local or national level compliance. As shown, the model containing tax morality as the mediator clearly offers the highest predictive validity as opposed to the ones containing no mediator. Finally, if this paper, as a result, stimulates those adopting an institutional perspective in the research of informal entrepreneurship to shift away from viewing the existing two institutional perspectives as separate from each other and rather take a more theoretically integrative approach, it will have achieved its major objective.



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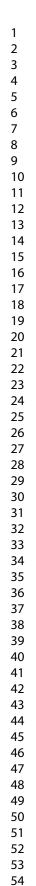
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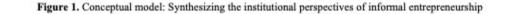
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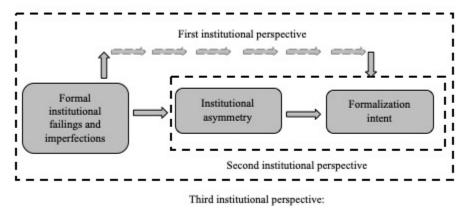
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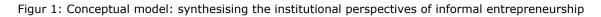


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synthesising the first two institutional viewpoints



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# Table I: Characteristics of the Street Vendors Surveyed

| Variables                      | Frequency | Percentage in sample |
|--------------------------------|-----------|----------------------|
| Gender                         | 322       |                      |
| emale                          | 13        | 4.04                 |
| ſale                           | 309       | 95.96                |
|                                | 200       |                      |
| age                            | 322       | 7.45                 |
| 20 years                       | 24        | 7.45                 |
| 0-30 years                     | 125       | 38.82                |
| 0-40 years                     | 106       | 32.92                |
| 0-50 years                     | 51        | 15.84                |
| )+ years                       | 16        | 4.97                 |
| ualification                   | 322       |                      |
| lo formal education            | 112       | 34.78                |
| p to 5th grade                 | 110       | 34.16                |
| Ip to 10th grade               | 73        | 22.67                |
| Above 10th grade or diploma    | 22        | 6.83                 |
| niversity degree               | 5         | 1.55                 |
| roduct Categories              | 322       |                      |
| nstantly consumable food items | 109       | 33.85                |
| ruits and Vegetables           | 51        | 15.84                |
| welry and Accessories          | 53        | 16.46                |
| arments and shoes              | 60        | 18.63                |
| ervices                        | 20        | 6.21                 |
|                                |           | 1.55                 |
| rockery and décor              | 5<br>13   | 4.04                 |
| ationary                       |           |                      |
| lowers<br>alloons              | 6<br>5    | 1.86                 |
| moons                          | 3         | 1.55                 |
| remises Type                   | 322       |                      |
| ermanent stall                 | 67        | 20.81                |
| lobile structure/ hawking      | 255       | 79.19                |
| verage hours worked per day    | 322       |                      |
| 5hrs                           | 4         | 1.24                 |
| -10hrs                         | 84        | 26.09                |
| 0 to 20 hrs                    | 227       | 70.5                 |
| 20hrs                          | 7         | 2.17                 |
| verage days worked per week    | 315       |                      |
| -3 days                        | 19        | 6.03                 |
| -5 days                        | 10        | 3.17                 |
|                                | 286       | 90.79                |
| -7 days                        | 200       |                      |

| Vending Age     | 314 |       |
|-----------------|-----|-------|
| l year          | 5   | 1.59  |
| 1–5 years       | 122 | 38.86 |
| 5-10 years      | 121 | 38.53 |
| >10 years       | 66  | 21.03 |
| Monthly Income  | 322 |       |
| < 5000 PKR      | 13  | 4.04  |
| 5000-10000 PKR  | 68  | 21.12 |
| 10000-20000 PKR | 152 | 47.2  |
| 20000-30000 PKR | 66  | 20.5  |
| >30000 PKR      | 23  | 7.14  |

# Table II: Latent Variables Measurement and Construct Reliability

| Latent variables (in bold) and respective measurement items  | Outer<br>standardi<br>zed factor<br>loadings | CR*   | AVE<br>* |
|--|--|-------|----------|
| <b>Formalization Intentions License</b><br>If a vending license/permit is offered by the government, to what extent<br>do you agree with each of the following statements?                                 |  | 0.974 | 0.94     |
| I am very likely to get the vending license  | 0.972  |       |          |
| I will seriously consider getting the vending license  | 0.976  |       |          |
| <b>Formalization Intentions Tax</b><br>To what extent do you agree with each of the following statements with<br>regards to your registration with Tax department?   |  | 0.966 | 0.93     |
| I am very likely to register my business with the tax department<br>I will seriously consider registering my business with the tax<br>department   | 0.969  |       |          |
| <b>Redistributive Justice</b><br><i>To what extent are you satisfied with the following?</i>   | 0.964  | 0.793 | 0.56     |
| The quality of public services, such as hospitals and education<br>The quality of utilities, such as electricity, gas sewerage and water<br>The quality of read infrastructure and other business services | 0.706<br>0.765                               |       |          |
| The quality of road infrastructure and other business services   | 0.775  |       |          |
| <b>Procedural Fairness</b><br><i>To what extent do you agree with the following statements?</i>  |  | 0.855 | 0.66     |
| You believe that the government authorities treat you with respect   | 0.748  |       |          |
| You believe you can easily access government departments for problems related to your business   | 0.883  |       |          |
| You believe that the government officers listen to your complaints and do their best to resolve them   | 0.808  |       |          |

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| Tax Morality  |               | 0.927 | 0.865 |
|---|---------------|-------|-------|
| How much trust do you have in the legal system of Pakistan?   | 0.951         |       |       |
| How much do you trust the government of Pakistan?   | 0.907         |       |       |
| <b>Public Sector Corruption</b>   |               |       |       |
| <i>To what extent do you agree with the following statement?</i><br>You believe that government departments are corrupt and ask for bribe | Single item   |       |       |
| (Yes/No)  | construct     |       |       |
| *CR stands for Composite Reliability and AVE stands for Average Var   | iance Extract | ed.   |       |

# Table III: Correlations and Discriminant Validity\*

| 17             |   |                                 |      |           | •        |           |        |             |        |
|----------------|---|---------------------------------|------|-----------|----------|-----------|--------|-------------|--------|
| 18             |   | 4                               | VIF  | 1         | 2        | 3         | 4      | 5           | 6      |
| 19<br>20       | 1 | Public Sector Corruption        | 1.51 | 1         |          |           |        |             |        |
| 21<br>22<br>23 | 2 | Formalization Intent<br>License | 1.14 | 0.021     | 0.974    |           |        |             |        |
| 23<br>24<br>25 | 3 | Formalization Intent Tax        | 2.39 | 0.087**   | 0.219*** | 0.967     |        |             |        |
| 26<br>27       | 4 | Procedural Fairness             | 2.21 | -0.125    | 0.058    | 0.172***  | 0.815  |             |        |
| 28<br>29<br>30 | 5 | Redistributive Justice          | 3.78 | -0.218    | -0.007   | 0.091     | 0.22*  | 0.749       |        |
| 30<br>31<br>32 | 6 | Tax Morality                    | 1.84 | 0.254***  | 0.069    | -0.156*** | 291*** | -<br>0.305* | 0.93   |
| 33<br>34<br>35 |   | Control Variables               |      |           |          |           |        |             |        |
| 36<br>37       |   | Age                             |      | -0.112*   | -0.082   | -0.045    | 0.001  | -0.075      | 0.018  |
| 38             |   | Gender                          |      | -0.079*   | 0.024    | 0.055     | 0.051  | 0.029       | -0.13* |
| 39<br>40<br>41 |   | Monthly Income                  |      | -0.062    | 0.077    | 0.142**   | -0.013 | -0.049      | 0.032  |
| 41             |   | Economic Vulnerability          |      | 0.066     | -0.083   | -0.101*   | -0.043 | -0.106      | 0.008  |
| 43             |   | Premises Type                   |      | 0.041     | -0.136*  | -0.193*** | -0.018 | -0.025      | 0.046  |
| 44<br>45       |   | Product Type                    |      | -0.018*** | -0.067   | 0.023     | 0.015  | 0.016       | -0.038 |
| 46             |   | Qualification                   |      | 0.041     | 0.116*   | 0.212***  | 0.037  | -0.023      | 0.022  |
| 47<br>48       |   | Vending age                     |      | 0.005     | -0.057   | -0.05     | 0.003  | -0.032      | 0.034  |
|                |   |                                 |      |           |          |           |        |             |        |

\* Correlation is significant at 0. 05 level (2 tailed)

\*\* Correlation is significant at 0. 01 level (2 tailed)

\*\*\* Correlation is significant at 0. 001 level (2 tailed)

Extracted Note: The diagonal of the matrix above displays the square root of each construct's Average Variance Extracted (bold) while the inter-construct Pearson zero-order correlations are displayed off-diagonal.

# Table IV: HTMT Criterion

| 5 |                                 | 1     | 2     | 3     | 4     | 5     | 6 |
|---|---------------------------------|-------|-------|-------|-------|-------|---|
| 1 | Public Sector Corruption        |       |       |       |       |       |   |
| 2 | Formalization Intent<br>License | 0.022 |       |       |       |       |   |
| 3 | Formalization Intent Tax        | 0.09  | 0.233 |       |       |       |   |
| 4 | Procedural Fairness             | 0.147 | 0.075 | 0.193 |       |       |   |
| 5 | Redistributive Justice          | 0.289 | 0.075 | 0.15  | 0.338 |       |   |
| 6 | Tax Morality                    | 0.275 | 0.08  | 0.166 | 0.353 | 0.414 |   |

# Table V: Structural Model Estimation with both Dependent Variables (complete Model A)

| Paths between two latent var | riables  | Path Coeffic<br>R <sup>2</sup> = 0.14 (int<br>0.22 (intent | tent license),                   | · ·              |
|------------------------------|--|--|----------------------------------|------------------|
| From                         | То   | Direct<br>Effects  | Indirect<br>Effects              | Total<br>Effects |
| Formalization Intent License | $\rightarrow$ Formalization Intent Tax           | 0.212***   |                                  | 0.212***         |
| Public Sector Corruption     | $\rightarrow$ Formalization Intent License       | 0.006  | 0.021                            | 0.027            |
| Public Sector Corruption     | $\rightarrow$ Formalization Intent Tax           | 0.164 **   | -0.029*<br>(via Tax<br>Morality) | 0.141**          |
| Public Sector Corruption     | $\rightarrow$ Tax Morality (the mediator)        | 0.154**  | 141014110,                       | 0.154**          |
| Procedural Justice           | $\rightarrow$ Formalization Intent License       | 0.113  | -0.032                           | 0.081            |
| Procedural Justice           | $\rightarrow$ Formalization Intent Tax           | 0.12   | 0.043*<br>(via Tax<br>Morality)  | 0.18**           |
| Procedural Justice           | $\rightarrow$ Tax Morality (the mediator)        | -0.229***  | Woranty)                         | -0.229***        |
| Redistributive Justice       | $\rightarrow$ Formalization Intent License       | 0.01   | -0.041                           | -0.03            |
| Redistributive Justice       | $\rightarrow$ Formalization Intent Tax           | 0.045  | 0.055*<br>(via Tax<br>Morality)  | 0.094            |
| Redistributive Justice       | $\rightarrow$ Tax Morality <i>(the mediator)</i> | -0.294 ***   | Moranty)                         | -0.294***        |
| Tax Morality (the mediator)  | $\rightarrow$ Formalization Intent License       | -0.139**   |                                  | -0.139**1        |
|                              | http://mc.manuscriptcentral.com/ijel             | or   |                                  |                  |

| Tax Morality (the mediator) | $\rightarrow$ Formalization Intent Tax     | -0.186* |         | -0.186*2 |
|-----------------------------|--|---------|---------|----------|
|                             |  |         |         |          |
| Control Variables<br>Age    | → Formalization Intent License             | -0.056  |         | -0.056   |
| Age                         | $\rightarrow$ Formalization Intent Tax     | 0.054   | -0.02   | 0.042    |
| Gender                      | → Formalization Intent License             | -0.005  |         | -0.005   |
| Gender                      | $\rightarrow$ Formalization Intent Tax     | 0.033   | -0.001  | 0.031    |
| Monthly Income              | → Formalization Intent License             | 0.01    |         | 0.01     |
| Monthly Income              | $\rightarrow$ Formalization Intent Tax     | 0.066   | 0.002   | 0.068    |
| Premises Type               | $\rightarrow$ Formalization Intent License | -0.139* |         | -0.139*  |
| Premises Type               | $\rightarrow$ Formalization Intent Tax     | -0.115* | -0.03*  | -0.145** |
| Product Type                | → Formalization Intent License             | -0.104  |         | -0.104   |
| Product Type                | $\rightarrow$ Formalization Intent Tax     | 0.022   | -0.022* | 0.000    |
| Qualification               | → Formalization Intent License             | 0.073   |         | 0.073    |
| Qualification               | $\rightarrow$ Formalization Intent Tax     | 0.135*  | 0.016   | 0.151**  |
| Vending age                 | → Formalization Intent License             | -0.051  |         | -0.051   |
| Vending age                 | $\rightarrow$ Formalization Intent Tax     | -0.062  | -0.011  | -0.073   |

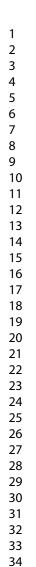
Significant at: \*p < 0.1; \*\*p < 0.05; and \*\*\*p < 0.01. (2-tailed *t*-test)

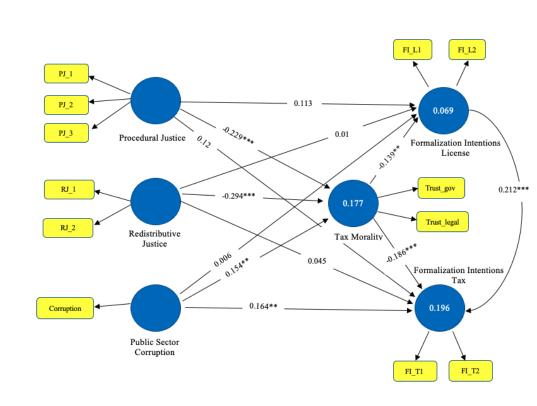
1 and 2: Tax morality is a reverse coded construct, hence the negative sign represents a positive corelation

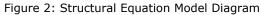
### Table VI: Analysis of hypothesized mediating effects

| Path between two latent variables                                 | between two latent variables Mediation Model with<br>1st dependent variable<br>(Model B) |            | Mediation Model with<br>2nd dependent variable<br>(Model C) |                      |              | Model without<br>Mediation<br>(Model D) |                            |
|---|--|------------|---|----------------------|--------------|---|----------------------------|
|   | (DV=For  | malisation | Intent  | (DV=Fo               | ormalisation | Intent                                  | (Both DV's                 |
|   | License)   |            |   | Tax )                |              |   | included)                  |
|   | R <sup>2</sup> =0.13   |            |   | R <sup>2</sup> =0.14 |              |   | R <sup>2</sup> =0.10, 0.11 |
|   | Direct   | Indirect   | Total   | Direct               | Indirect     | Total                                   | Direct Effects             |
|   | Effects  | Effects    | Effects   | Effects              | Effects      | Effects                                 |                            |
| Formalization $\rightarrow$ FormalizationIntent LicenseIntent Tax |  |            |   |                      |              |   | 0.186***                   |

| $\mathbf{C}$                |   | -          |               |                         |                   |         |                   |         |
|-----------------------------|---|------------|---------------|-------------------------|-------------------|---------|-------------------|---------|
| Public Sector<br>Corruption | $\rightarrow$ Mediator                                | 0.150**    |               | 0.150**                 | 0.179**<br>*      |         | 0.179**<br>*      |         |
| Procedural Fairness         | $\rightarrow$ Mediator                                | -0.239***  |               | -0.239***               | -<br>0.221**<br>* |         | -<br>0.221**<br>* |         |
| Redistributive<br>Justice   | → Mediator  | -0.294***  |               | -0.294***               | -<br>0.218**<br>* |         | -<br>0.218**<br>* |         |
| Mediator                    | → Formalizatio  | -0.0140**  |               | -0.140***               |                   |         |                   |         |
| Mediator                    | n Intent<br>License<br>→ Formalizatio<br>n Intent Tax |            |               |                         | -0.155**          |         | -0.155**          |         |
| Public Sector<br>Corruption | → Formalizatio<br>n Intent<br>License                 | 0.015      | 0.021         | -0.01                   |                   |         |                   | 0.033   |
| Public Sector<br>Corruption | → Formalizatio<br>n Intent Tax                        |            |               |                         | 0.149**           | -0.028* | 0.121**           | 0.110*  |
| Procedural Fairness         | → Formalizatio<br>n Intent<br>License                 | 0.103      | -0.034        | 0.052                   |                   |         |                   | 0.088   |
| Procedural Fairness         | → Formalizatio<br>n Intent Tax                        |            |               |                         | 0.127*            | 0.034*  | 0.162**           | 0.164** |
| Redistributive<br>Justice   | → Formalizatio<br>n Intent                            | 0.009      | -0.041        | 0.012                   |                   |         |                   | -0.061  |
| Redistributive<br>Justice   | License<br>→ Formalizatio<br>n Intent Tax             |            |               |                         | 0.043             | 0.034*  | 0.077             | 0.135   |
| + <i>p</i> < .10; *         | * <i>p</i> < .05; ** <i>p</i> <                       | .01; *** p | < .001 (2     | 2-tailed <i>t</i> -test | t),               |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
|                             |   |            |               |                         |                   |         |                   |         |
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# Manuscript ID IJEBR-02-2022-0151 R1

"Advancing the institutional perspective on informal entrepreneurship: a study of formalisation intentions amongst street entrepreneurs"

# Response to the co-editor and reviewer 1

Thank you again for seeing the potential in our paper for publication in *IJEBR* and giving us a chance to further revise our manuscript. We would like to thank you for providing such clear, constructive and informative feedback.

We have thoroughly taken into account all your comments in the second revision and worked to deal with the relevant issues that have been highlighted by the co-editor and reviewer. As requested by both the co-editor and reviewer 1, we have conducted new calculations, engaged with the recent papers published in IJEBR and cleaned up the general English syntax within the paper.

We believe that the revised paper, which we are re-submitting now is much clearer in how it outlines the contributions it seeks to make to the extant literature and knowledge. For clarity and convenience, we have outlined our response to the comments as below, with each editor and reviewer's comments and corresponding explanations of how we have dealt with the particular concern. We have outlined our responses in **BOLD**.

# **Co-editor's comments:**

Comment: Please engage with the recent literature published in IJEBR so that the extant discourse is reflected.

Response: Thank you for your very valuable comment. We have now duly engaged with the literature recently published in IJEBR and referenced it in our paper at appropriate places. Please see the highlighted text in the introduction (p.2), literature review (p.8) and conclusions (p.20) sections. In particular, we have referred to the following literature from IJEBR:

- Baker, T., & Welter, F. (2017). Come on out of the ghetto, please!-Building the future of entrepreneurship research. *International Journal of Entrepreneurial Behavior & Research*.
- Sabella, A. R., and El-Far, M. T. (2019). Entrepreneuring as an everyday form of resistance: An exploration of the experiences of Palestinian women street vendors in the occupied Old City of Jerusalem. *International Journal of Entrepreneurial Behavior and Research*
- Muhammad, N., Ullah, F., & Warren, L. (2016). An institutional perspective on entrepreneurship in a conflict environment: evidence from Pakistan. *International Journal of Entrepreneurial Behavior & Research*
- Afreh, B., Rodgers, P., Vershinina, N., & Williams, C. C. (2019). Varieties of context and informal entrepreneurship: Entrepreneurial activities of migrant youths in rural Ghana. *International Journal of Entrepreneurial Behavior and Research*.

Comment: Please soften your language about sample representativeness. I could not see any solid evidence in your paper suggesting this. The sampling strategy you have adopted "maximum variation sampling technique" seems to be a non-probability approach. Therefore, I would suggest acknowledging this in the limitations section.

# Response: We agree. It is now included in the limitations section as suggested. Please see the highlighted text on pp.19-20.

Comment: Please include a post-hoc test for common method bias.

# Response: The test for the common method bias was performed and included. Please see the highlighted text on p.15.

Comment: Your claim "Secondly, deploying the SEM technique for the first time in the scholarly work of informal entrepreneurship" is not fully accurate (see references below). Please revise this and refocus your novelty more around contributions to theory. I feel your paper contribution could be strengthened further.

Response: Thanks for this very valuable comment. We have now revised one of our contributions both in the introduction (highlighted text on pp. 3-4) and discussion (highlighted text on p.18) sections omitting the argument deemed inaccurate by you and focusing more on contributions to theory.

# **Reviewer 1's comments:**

Comment: Extensive proofreading and required for this paper before publishing as there are several mistakes especially in the highlighted text.For example, see page no. 17 second paragraph.

Response: The whole manuscript is thoroughly revised to remove typos and grammatical errors. Thank you for pointing this out, indeed it needed another careful brushing through.

Comment: "Page 12 and 13, the values of HTMT and VIF are explained in the text but are not included in the table. Revision required", I am unable to find HTMT values in Table 3.

# Response: HTMT values and now included in Table IV (see highlighted text on p.14).

Salio epes