THESIS
THE ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) DEVELOPMENT ON INEQUALITY IN INDONESIA
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TESIS THE ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) DEVELOPMENT ON INEQUALITY IN INDONESIA Oleh : CHUSNUL FAIZAH 196020100111012 telah dipertahankan di depan penguji pada tanggal: 2 Juli 2021 dinyatakan telah memenuhi syarat Menyetujui Komisi Pembimbing, Prof. Kyohei Yamada, Ph.D. Prof. Devanto Shasta Pratomo, Ph.D Anggota Ketua Mengetahui, Fakultas Ekonomi dan Bisnis Universitas Brawijaya ogram Magister Ilmu Ekonomi Dr.rer.pol. Ferry Prasetyia , SE., M.App.Ec. NIP 198012282005011002

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Ketua : Prof. Devanto Shasta Pratomo, SE., M.Si., Ph.D.

: Prof. Kyohei Yamada, Ph.D.

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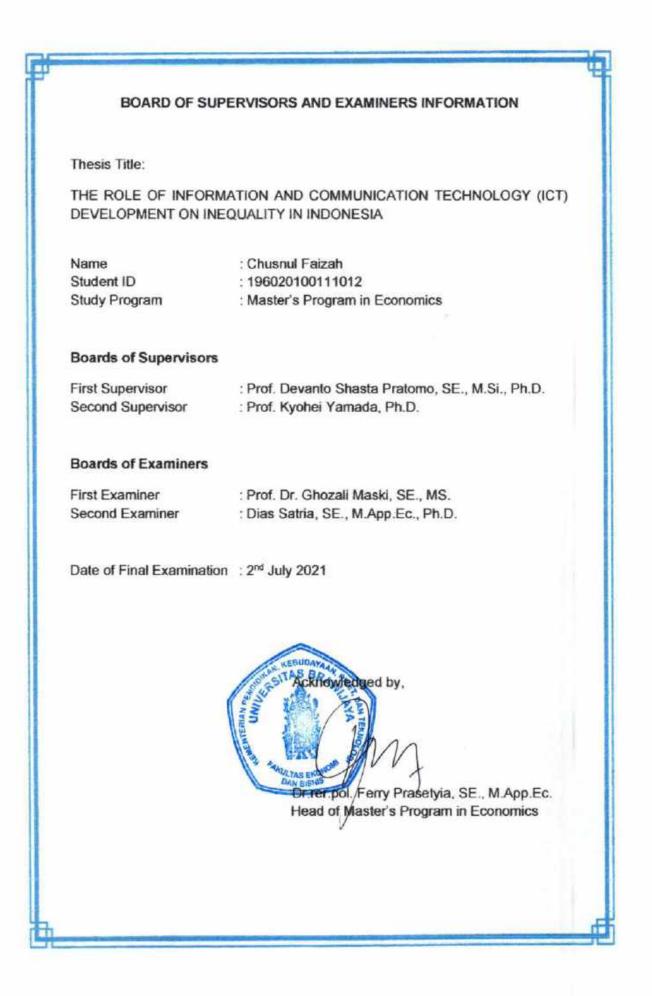
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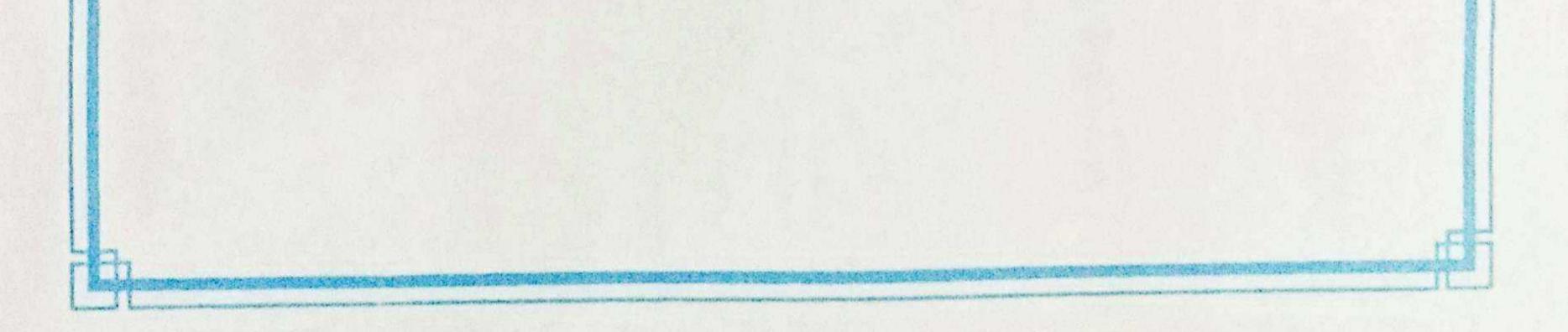
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Repository Universitas Brawijaya CHAPTER I Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijayintroductionry Universitas Brawijaya Repository Unequality has been a center of discourse for decades due to its Repositor persistence around the world, regardless countries' income levels. According Repositor to World Inequality Report (2018), inequality has swiftly dominated North Repositor America, India, Russia, and China since 1980. It was reported that the 50% Repositor poorest of world's population has been favored with significant real income growth rates during the period. Even so, the top 1% richest of world's Repositor Repositor population managed to secure twice as much of that growth as the bottom Repository Universitas Brawijava Repository Universitas Brawijaya Repositon individuals, resulting the decline of middle income groups which incorporates Repositor the bottom 90% earners in the Europe and the United States. Further, United Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) Repositor has called Indonesia out on account of its high inequality contribution toward Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor the region between 1990s and 2010s, along with China and India as the most Repositor densely populated nations. On a closer look, inequality has predominated the Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor urban areas of China and India, whereas Indonesia's rural lives has undergone more disproportion than its urban society (UNESCAP 2018). Repository Repository Universitas Brawijava Universitas Brawijaya Repository Urthis urgent call was not a trivial matter for it bore damaging effect on economic and society. There has been numerous research related to the cost Repository Jniversitas Brawijaya repository Repositor of inequality on economic growth and poverty alleviation. Despite economists' Repositor mixed claims¹, a series of research conducted by Berg and Ostry, from 2008 Repositor) up to 2018, has relentlessly asserted that inequality indeed impede sustainable Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya ¹ Some claimed that inequality hampers growth (Berg et al., 2018; Cingano, 2014) while others found the opposite (Forbes, 2000; Foellmi and Zweimüller, 2006), or proved that both has no relation unless certain conditions applied (Gründler and Scheuermeyer, 2018; Breunig and Majeed, 2020). Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya

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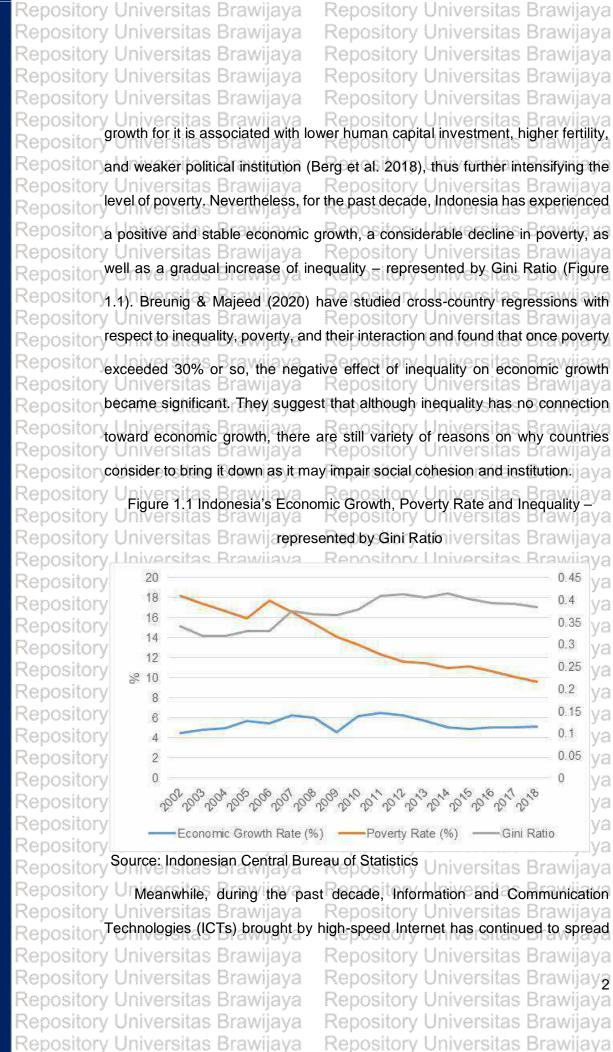


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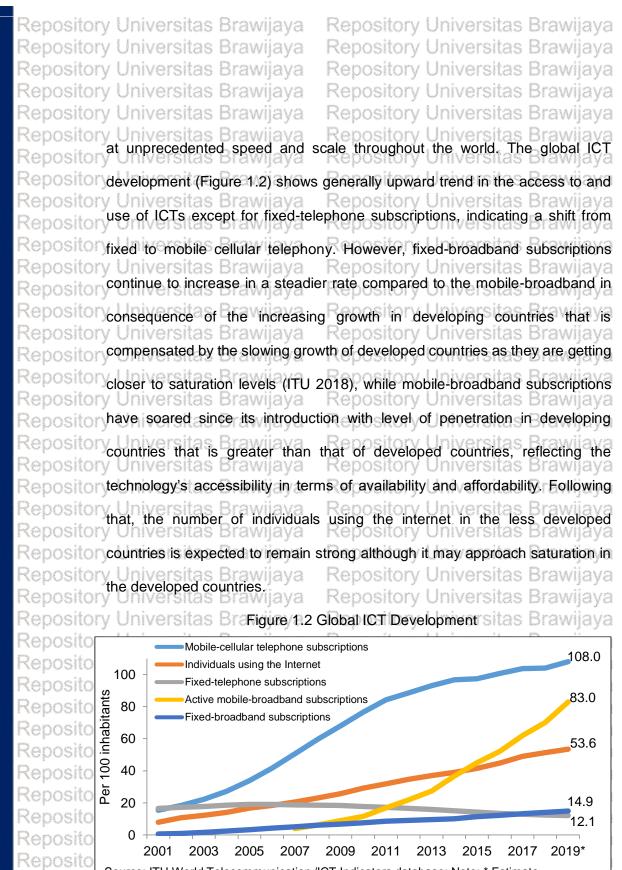
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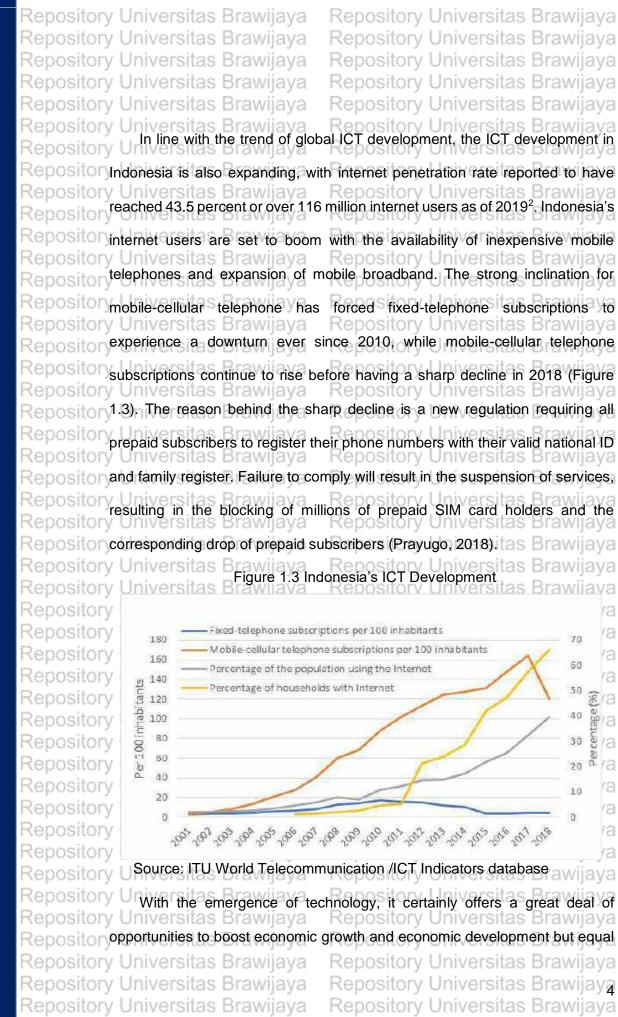
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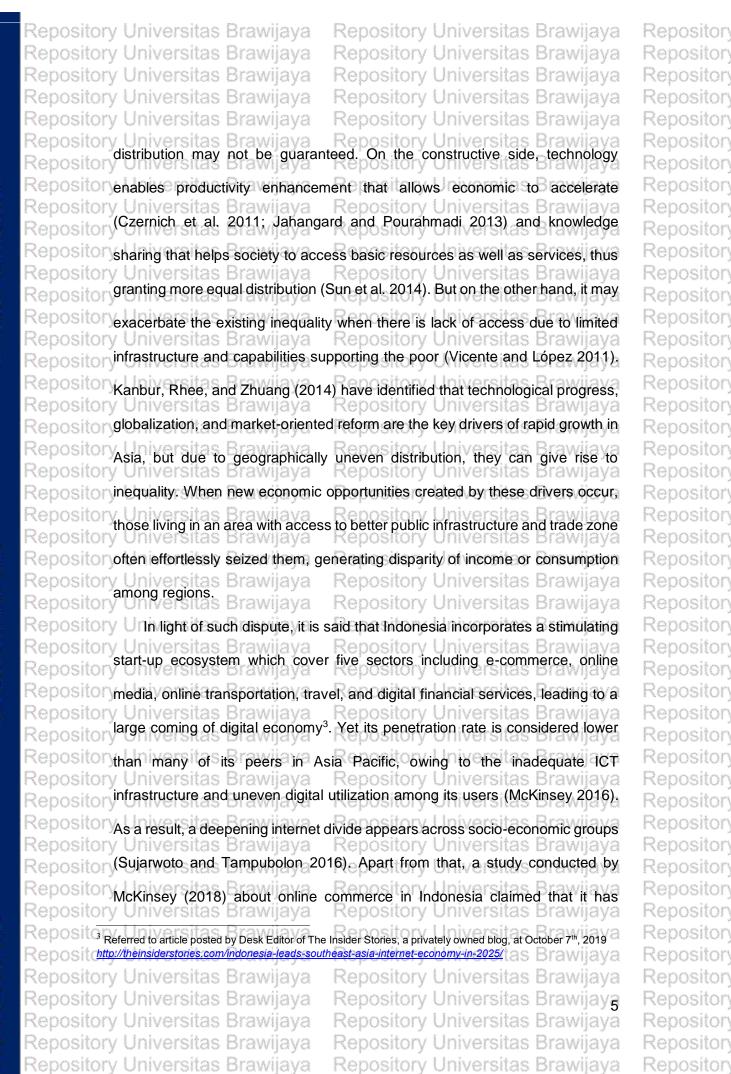
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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava helped alleviating some social issues, from job creation to social equality. Repositor Following that, they also predict that demand for online commerce will continue Repository Universitas Brawijaya Repository Universitas Brawijaya to soar and spread across the archipelago in the foreseeable future. By taking Repositor into consideration of the opportunities and challenges previously mentioned, it Repository Universitas Brawilava Repository Universitas Brawijaya Repositon is considered relevant to address the duality impact of ICT development on Repositor inequality in Indonesia through this study. Sitory Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposit1.2 Research Questions wilava Repository Universitas Brawijaya Repository UnDrawing upon the above explanation, this study seeks further elaboration Repository Universitas Brawijaya Repository Universitas Brawijaya Repository as to whether ICT development has a role to play in the inequality in Indonesia. Repository Instead of individual, the inequality defined here as how each region differs to Repository Universitas Brawijaya Repository Universitas Brawijaya Repository one another in terms of living standards of its residents or other elements like public access to education and health services. Repository Uni Universitas Brawijaya Repository Repository Universitas Brawijaya Universitas Brawijaya Repository Universitas Brawijaya Reposit1.3 Research Objectives Wijaya Repository Universitas Brawilava Repository Universitas Brawii Repository Based on the research question, the objective of this study is to analyze Repository whether ICT development has a role to play in the inequality in Indonesia. Va Repository Universitas Brawijava Repository Universitas Brawijaya Repositor Research Significance Repository Universitas Brawijaya Repository U The significance of this study is twofold, first as an empirical study that Repository Universitas Brawijava Repository Universitas Brawijava Repositon provide more insight for future studies concerning inequality across regions and Repositor)ICT development in Indonesia. This study differs to the previous study in the Repository Universitas Brawijava Repository Universitas Brawijava Repositon way that it attempts to probe into ICT development as a factor of inequality in Repositor)Indonesia, instead of the other way around (Sujarwoto and Tampubolon 2016). Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon Secondly, the result of this study is expected to equip the government with a Repositor better understanding of ICT involvement in shaping inequality in the hope of Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor avoiding serious policy implications. epository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository The temporary phenomenon is supported by Kuznets' (1955) hypothesis Repository Repository Repositor of inverted U-pattern on income inequality which then confirmed by Williamson Repository Universitas Brawijaya Repository Universitas Brawijaya Repository (1966) in his study of regional inequality (Kim 2008). The Kuznets' hypothesis Repository Repositor holds that income differences is likely to increase during the early stages of Repository Repository Universitas Brawilava Repository Universitas Brawijaya Repository Repositon development and gradually decrease as the economy matures, generating the Repository Repositor inverted U-shaped curve. Eventually, the inclination towards long-term Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor convergence is directly addressed by Barro and Sala-i-martin (1991, 1992) Repository Repositor through their series of works on regional convergence. They put forward two Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor kinds of convergence: β -convergence and σ -convergence, where the former Repository Reposition indicates that poorer regions will grow faster than richer regions while reducing Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor the overall degree of dispersion presented by the latter (Liao and Wei 2012).a Repository , Unlike the neoclassical model where the government influence is fairly Repository Un Repository Repository Repository Repositor limited, another class of models may have higher reliance on government Repository Repositor intervention following imperfect competition of market and increasing returns Repository Repository Repository Repository Repositor of scale. In these models, resources allocation through market is considered Repository Universitas Brawijava Repository Universitas Brawijaya Repository inefficient and regional development holds self-reinforcing nature, thus the gap Repository Repository Repositor between regions tends to persist if not widen over time (Kim 2008). Myrdal's Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositon (1957) cumulative causation mode argued that the negative backwash effect Repository Repositor tends to reinforce the regional inequality though spread effect partially amends Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositon it, indicating the importance of policy intervention to counter the free market Repository Repositor dominance and reduce the inequality (Wei 2015). Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijaya Repository Repository U The cumulative causation theory was in line with the concept of growth Repository poles formulated by Perroux (1955) and defined alternatively as a center of Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositon economic space from which growth is spread among industries through Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository











Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava pecuniary externalities, leading to agglomeration (Meardon 2001). Later on, the Repositor Repositor new economic geography (NEG) has emerged to inquire into determinants and Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor modeling of agglomeration or dispersion of economic activity by focusing on Repositor spatial geometry. Following the formation of core-periphery model by Krugman Repository Universitas Brawilava Repository Universitas Brawijaya Repositon (1991), the spatial configuration of economic activities is, ultimately, the Repositor outcome of a complicated balance between forces that pull agglomeration Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor (centripetal) and push away agglomeration (centrifugal)-rsitas Brawijava Repository U A simple and popular measure of inequality is the decile dispersion ratio Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor of its residents' income (expenditure), the ratio of the average income Repositon (consumption) of the richest 10 percent to the average income (consumption) Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor of the poorest 10 percent (Haughton and Khandker 2009). Another most widely used measure is the Gini coefficient based on the Lorenz curve, which plots Repository Un Repository Jniversitas Brawijaya Repository Universitas Brawijaya Repositor cumulative percentages of the population against their cumulative aggregate Repositor incomes. In addition, Kanbur and Venables (2005) have identified three Repository Repositor possible approaches at the least when assessing spatial inequality, including Repository Universitas Brawijava Repository Universitas Brawija unweighted variation across units, population-weighted variation across units, Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository The first takes region as a unit of observation and compares its income Repositor per capita. It is "unweighted" since each region counts the same. This approach Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon is commonly used in regional convergence analysis which addresses whether Repositor differences among regions tend to be reduced in the long-run. However, the Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor previous approach does not measure the inequality among individuals across Repositor regions. Hence, to be able to do so, it is down to the last two approaches. The Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon second approach considers the variation of population share across regions in Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repositor each region is proportional to its population, assuming that income distribution	Repositor
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Repository within a region is perfectly equal. Repository Universitas Brawijaya	Repositor
Repository U Instead of having representative individuals from every regions, the third	Repositor
Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor approach includes the variation of individuals or households within regions by	Repositor
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Repositor selecting a random sample to be surveyed. Thus, in this approach, the	Repositor
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Repositon inequality reflects the actual difference of income or expenditure of individuals	Repositor
Repositor or households regardless of regional attributes. In addition, unlike the second	Repositor
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Repositor approach where the within-region distribution is assumed to be perfectly equal,	Repositor
Repositor the inequality within region can actually be approximated using decomposable	Repositor
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Repositon inequality measures (Milanovic 2005). Table 2.1 highlights the key differences	Repositor
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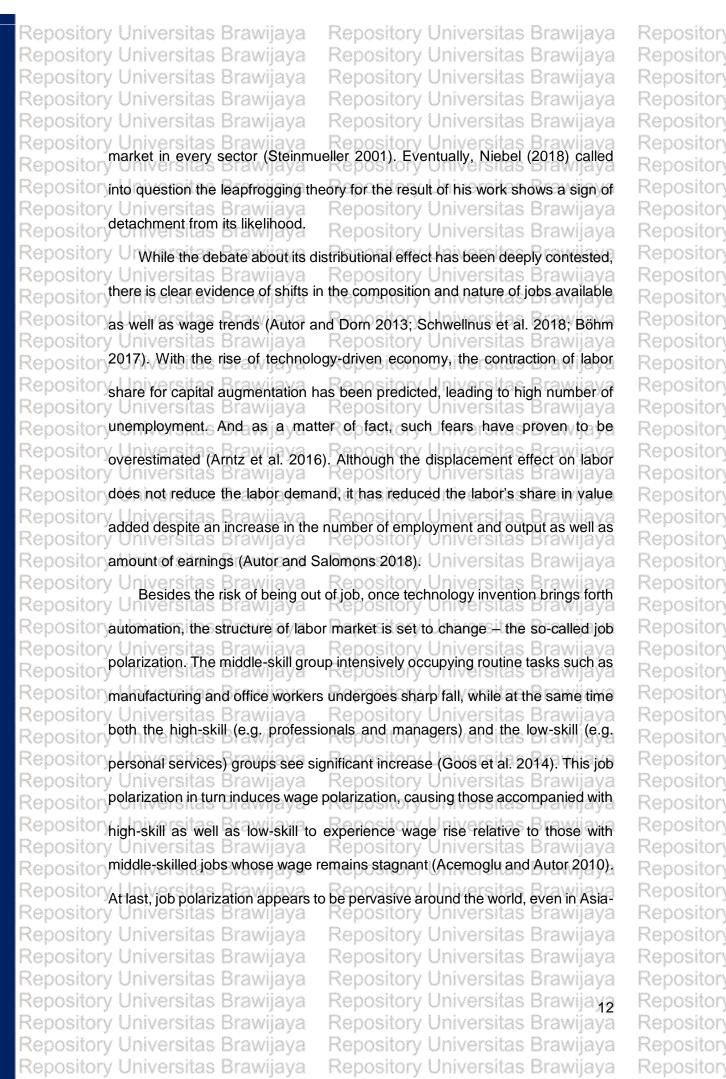
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Repository Universitas Brawijaya Repository Universitas Bra Repository Universitas Brawijava Pacific economies (UNESCAP 2018), but wage polarization may not be Repositor unconditional (Naticchioni et al. 2014) pository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposite 2.3 The Role of ICT Development on Inequality Universitias Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U Past studies evaluating the effect of ICT Development on regional economies have been inconclusive on whether it will further aggravate or Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor alleviate inequality (Karlsson et al. 2010). On the one hand, some argue that Repository ICT will help less-developed regions gaining some economic advantages on Repository Universitas Brawijaya Repository Universitas Brav Repositor the basis of time and space exclusion of internet, providing the region with the access to better resources in order to catch up (leapfrogging theory). While Repository Repositor others, by the same token, see the fallout of ICT in reducing inequality. They Repository development over the region with Repository development over the region with Repositor high level of technology absorption and access to better market, reinforcing the Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor position of leading regions (Niebel 2018), story Universitas Brawijaya Repository U However, from the regional perspective of NEG theory, the distribution of Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor economic activities are engaged in a tension between centripetal forces and Repositor centrifugal forces. The former allows a geographic concentration to take place Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor known as agglomeration economy, whereas the latter pushes the other way by Repositor opposing the agglomeration. This kind of bifurcations model determines critical Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor values of parameters at which the qualitative behavior of the economy's Repository dynamic changes (Fujita et al. 1999). Changes in exogenous factors such as Repository Jniversitas Brawijava kepository Universitas Brawijaya Repositor technology will certainly affect the balance between two forces, even generate Repositor critical points whereby any shift lead to changes in the behavior of the Repository Universitas Brawijaya Repositor economy's dynamics wijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository The indication of agglomeration over ICT development is so evident that Repository Repository Repositor Tranos and Nijkamp (2013) revealed that provision of network infrastructure Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor seems to be strongly curved by agglomeration forces. The Internet Protocol Repository Repositor (IP) links drawn by centripetal forces had unequal distribution and marginally Repository Repository Universitas Brawilava Repository Universitas Brawijava Repository Repositon increased during the study period. They also claimed that regions with high Repository Repositor level of integration toward global economy are able to secure higher level of Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor connectivity, signifying the global-urban interdependencies. Hence, the idea Repository Repositor that internet diffusion will eventually put an end to agglomeration economies Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor with the emergence of digital economy needs to be reconciled with the fact that Repository Repositor there is bias in internet distribution and it is reinforcing old patterns of Repository Repository Repositor agglomeration (Malecki 2002). Repository Universitas Brawijaya Repository The main reason behind location selection of ICT industry, according to a Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor study by Marinković et al. (2018), is human resource availability followed by Repository Repositor political and economic environment. The availability of human resources is Repository Repository Repository Repository Repositor closely related to the region's absorptive capacity which is regarded as region's Repositor ability to make the most of incoming knowledge and information flows Repository Repository Repository Repositor (Miguélez and Moreno 2015). Apart from region's ability, (Zook 2002) found Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor that regional distribution of venture capital investment is a key driver in Repository Repositor determining where to locate the new internet startups on the basis of local Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositon networks and knowledge for their investment which is greatly influenced by Repository Repositor geographic proximity wijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository U As a matter of fact, the role of internet is subjected to a certain type of Repository Repositor knowledge which can be codified and transmitted through ICT and internet, Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repositor indicating its limitation in the type of tacit knowledge. By referring to the clear Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository



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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava distinction proposed by Polanyi (1966), between codified knowledge that can Repository Repositor be easily passed on and tacit knowledge that is hard to transmit due to specific Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor context and experiences, Gertler (2003) argued that geography aspects cannot Repositor be left out of tacit knowledge because of its context-specific nature. Therefore, Repository Universitas Brawilava Repository Universitas Brawijaya Repositor localities and geographical proximity remain significant in regional economic Repositor development as Brawijaya Repository Universitas Brawijaya Reposit2.4 Previous Studies Brawijava Repository Universitas Brawijaya Repository Unthere has been a substantial body of literature covering ICT Development Repository Universitas Brawijava Repository Universitas Brawijaya Repositon impact on the regional dynamics and development over the past decades. In Repositor search of empirical evidence connecting between ICT and income inequality, Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor a cross-national research was conducted by Richmond and Triplett (2017) and Repositor the result suggested that the impact of ICT on income inequality differs by ICT Repositor Repositor type and is highly dependent on other economic and political characteristics. Repositor They found that fixed-broadband subscriptions has inequality-increasing effect Repositor that is larger than the inequality-reducing effect of mobile subscriptions, yet this is not the case within the lowest-income countries. In their cases, ICT does not Repository Universitas Brawijava Repository Repositor even hold any effect on the income distribution because of limited access to Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor technology used Brawijaya Repository Universitas Brawijaya Repository U In the wake of rising internet prominence, researchers have been focusing Repository Universitas Brawijaya Repository Universitas Brawijava Repositon more on its role within regional dynamics. Taking into account globalization and Repositor tax policy, Ningsih and Choi (2018) studied the internet penetration effect on Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon income inequality among Southeast Asian nations and concluded that Repositor technological change, represented by the number of internet users, has Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor significantly reduced income inequality measured by Gini Index. Whereas, Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawii Repository Universitas Brawijava Houngbonon and Liang (2017) looked into the effects of fixed broadband Repositor internet on income inequality in France and found that it does lowers income Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon inequality particularly once the adoption rate reaches 30% of its population, but Repositor widens the income disparities between towns.ry Universitas Brawijaya Repository Universitas Brawilava Repository Universitas Brawijava Repository Eventually, a more recent study by Kocsis (2020) highlighted the user Repositor acceptance as a key driver in reducing inequality regarding internet Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor infrastructure. He argued that if one could not find any reasonable advantage Repositor of using internet, it is highly unlikely that he/she would embrace the technology Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor due to lack of knowledge or instruments. The relevant of knowledge level in Repositor making amends on inequality is also acknowledged by Zhang et al. (2020). Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor Employing China Family Panel Studies (CFPS), they found that regions with Repositor higher level of education experience fewer increasing inequality or the so-Repositor called buffering effect, caused by the internet.ry Universitas Brawijaya Repository In relation to regional growth and convergence, Sahoo (2012) explored the Repositor reasons behind the growing regional inequality across major Indian States and Repository Universitas Brawiia Repository Universitas Brawijava found that the higher level of ICT contributes significantly to the States' growth Repositor while at the same time worsen inequality across States. Additionally, by Repository Universitas Brawijaya Repository Universitas Brawijava Repositor considering spatial spillovers of neighboring regions, Lin et al. (2017) detected Repositor that internet dispersion is positively correlated with economic growth, Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon especially in developed regions, but this may lead to the divergence of regional Repositor economies, indicating the growing regional disparities. However, Celbis and Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon Combrugghe (2014) claimed that internet infrastructure has contributed to Repositor regional convergence despite the significant spatial clustering of Turkish Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon economic geography. wijava Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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osi		Sahoo (2012)		odified		sity of the states	Gross State Do	omestic	The higher level of ICT contributes to the
REI		Universitas		ell Rasp	indicating of ICT se	the importance	Product (GSDF	P) Rep	States' growth while at the same time inequality was aggravated across States
	Repository	Celbis Sita 8	SAR, SEM,	and	Density	of asymmetric	Regional y pe		Internet infrastructure can reduce the time
X	Repository	Crombrugghe (2014)	BGSMijaya	Rep	digital s (ADSLs)	subscriber lines	income conver	gencep	needed for regions to converge to their steady-states
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¥ K	Repository	Triplett (2017)	Beffects model	Rep		nd subscription; none subscription	Benwijaya	Kep	broadband is larger than the inequality- reducing effect of mobile technology
S S	Repository	Houngbonon 8	OLS using	fixed-			Income at deci	le for a	Broadband internet lowers income
3	2 2	Liang (2017)	2 4	Rep			Ecertain Jay type		inequality, particularly when the adoption
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	Repository	U(2017)rsitas	Estimation (M	Ellhood	Internet p	enetrationsitas	Brawijaya	Rep	with growth, but its spillover effect may lead to the divergence of regional economies
	Repository	Ningsih and	OLS using		Internet	user represents	Gini Index	Rep	Internet penetration as a proxy of
	Repository	Choi (2018) S	Beffects model	Rep	1	enetrationsitas	Brawijaya	Rep	technological change has reduced income
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REPO	Repository	Zhang et al.	B2SLS using fix		Number of	of households as	Gini coefficient	Rep	The positive impact of internet on inequality
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Repository Universitas Brawijaya CHAPTER III Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Bravesearch FRAMEwork niversitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositan Framework Itas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository U To have a better understanding over an empirical study, an analytical Repositor framework is developed through a flowchart conveying the path followed by Repository Universitas Brawijava Repository Universitas Brawijaya Repositor this study and its theoretical constructs. There are several theories underlying economic development and growth as an impact of ICT development, including Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor neoclassical growth models by Solow, Kuznet's inverted-U hypothesis, Repositor convergence theory proposed by Barro-Sala-i, and Myrdal's cumulative Repositor causation theory. Some were considered to complement each other, while the Repositor other has offered a slightly different point of view indicating the complexity and Repository Repository dynamics of income redistribution Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Figure 3.1 Analytical Framework Repository Universitas Braw as Brawijaya Repository Universitas Brawijaya Repo aya Kuznets' Barro-Sala-i's Repository Universit Solow's theory of Repo aya theory of hypothesis economic growth Repository Universit of inequality convergence <u>Rrawijava</u> Rrawijava Repository Universitas ersita Economic Economic Growth Inequality Repository Ur Development Repository Url... niversita Repository Universitas Brawijaya ersitas Brawijaya Myrdal's theory of Repository Universitas Brawijaya ersitas Brawijava economic growth Repository Universitas Brawijaya ersitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Redistribution Repository Universitas Effect Repository Universitas Brawijaya niversitas Brawijaya Repository Universitas Brawijaya tory Universitas Brawijaya ICT Readiness Repository U **ICT** Development ICT Use Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univer **ICT Skills** Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava The basic of Solow's model (1956) regards technology as an exogenous Repositor part of growth process, independent of capital and labor (Tranos 2012). Thus, Repository Universitas Brawijava Repository Universitas Brawijava Repository making it possible to estimate the role of ICT development (e.g. investment in Repositor ICT) on total factor productivity of a region. And following the Kuznets Repository Universitas Brawijava Repository Universitas Brawijava Repositor hypothesis, the launch of a new technology as internet would at first raise Repositor) inequality since only a small segment of the economy utilizing it would be Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon benefitted. With the process of technology diffusion, the initial advantage will Repositor be subsequently eliminated, hence reducing the gap. This is considered as a Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor common trend, representing structural change in both advanced and Repository developing countries (Aizenman et al. 2012). Repository Universitas Brawijava Repository Universitas Brawijaya Repository UrConsidering the set of assumptions of a neoclassical production function Repositor combined with a constant-saving-rate rule, Barro and Sala-i-martin (2004) Repositor claimed that this model would lead to a conditional convergence. It posits that the lower the starting level of income relative to the long-run or equilibrium Repository Reposition position, the faster the growth rate of a region, deriving from the assumption of Repository Universitas Brawilay Repository Universitas Brawija diminishing returns to capital. The convergence is conditional because the Repositor steady-state levels of capital and output per worker depend on the saving-rate, Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor population growth rate, and the level of production function. Consequently, Repositor technological progress is a key driver for the economy to have a sustainable Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor growth ersitas Brawijava Repository Universitas Brawijaya Repository U Provided that opened-economy model is more relevant than the closed Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor one, the rate of convergence tends to be higher if technological advance is passed on from developed to less-developed regions. However, differences in Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor levels of technology may implicate the human or capital mobility, causing them Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya



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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava to move from less-developed to developed regions and thus creating a force Repositor toward divergence. The implication is referred as "backwash effects" by Myrdal Repository Universitas Brawijava Repository Universitas Brawijava Repository (1957). Against the backwash effect, there are "spread effects" which emerge Repositor as counteractive forces originated from economic expansion within the lower Repository Universitas Brawijava Repository Universitas Brawijaya Repositon economic regions. And Myrdal argued that the outcome of these two opposite Repositor forces determined solely by market tends to sustain the inequality. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U To Myrdal and other unorthodox fellows, since there are too many non-Repositon economic factors or variables to consider, thus there is no way that economic Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor processes would be as ideal as how the neoclassical would assume. The Repositor uneven redistribution of development due to certain bias is one of instances Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor that is being overlooked by neoclassical economists. The NEG field has Repositor attempted to fill the void by creating a general equilibrium framework under Repositor imperfect competition (Ottaviano and Thisse 2004). And even though the Repository Universitas Brawilava Repository Universitas Brawila equilibrium is very different from the classical one, it is a steady-state position Repository Repositor in which agglomeration or concentration is bound to rise following cumulative Repository Universitas Brawijava Repository Universitas Brawijaya Repositor processes, indicating increasing returns to scale. Universitas Brawijaya Repository U To account for the level of ICT development in a region, the International Repository Universitas Brawijava Repository Universitas Brawijaya Repositon Telecommunication Union (ITU) has identified two key elements, the access to Repositor ICT infrastructures (ICT readiness) and the level of ICT use within the society. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository The latter is mainly supported by the ICT-related skills or capacities. Availability Repositor of ICT infrastructure and access to it are prerequisites for further use, while Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor ICT-related knowledge and expertise are necessary for maximum utilization. By controlling certain variables, the study will assess the impact of ICT Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya

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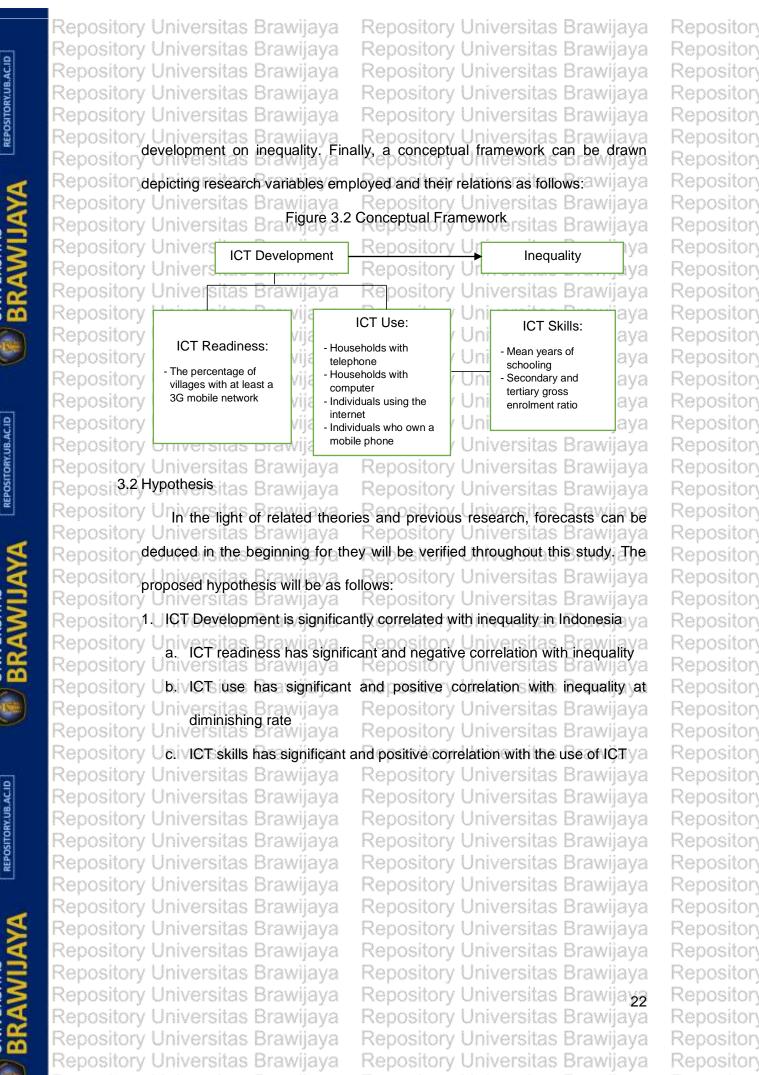


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Repository Universitas Brawijaya <u>Repository Universitas Brawijaya</u> Repository Universitas Brawijaya Repository Universitas Brawijresearchmethod Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposited And Approach awijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U This study employs a quantitative approach that emphasizes on the results Repositor data processing through statistical analysis technics in order to gather new Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor facts to prove theories. Following Leedy & Ormrod (2001), Williams (2007) Repositor stated that a quantitative research is in search of meaning through objectivity Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor uncovered within the collected data in support of or refute of alternative knowledge claims. With regard to the purpose of this study, the approach is Repository Universitas Brawijaya Repository Universitas Brawijava Repositor considered effective to infer the contribution of ICT development on inequality. Repository Universitas Brawijaya Repository Universitas Brawijaya Reposi 4.2 Research Time and Place Va Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository The study will be conducted in all regions of Indonesia covering all of 514 Repositor districts/cities in Indonesia. Meanwhile, variables showing ICT development of Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor regions as well as general entropy indices portraying the level of inequality Repositor within region will resort to recent data, the 2018 data. Versitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon Linkersitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U The data applied in this study are secondary data mainly published by Repositor Indonesian Central Bureau of Statistics (BPS). The data varies from regional Repositor data such as Gross Regional Domestic Product (GRDP) per capita to both individual and household data directly extracted from National Socio-economic Repository Universitas Brawijava Repository Repositor Survey (Susenas). Other than Susenas, this study also employ Indonesian Repository Universitas Brawijava Repository Universitas Brawijaya Village Potential Census (Podes) from BPS which provides information of ICT Repositor infrastructure distribution, among others, across districts. Based on the Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository collected data of Podes 2018, there are 83,931 and 514 levels of administrative Repository Repository Repositor government which belong to village and district/city, respectively. Apart from Repository Universitas Brawijaya Repository Universitas Brawijaya Repository BPS, this study also utilize the Inclusive Economic Development (IED) index of Repository Repositor 2018 which is annually published by National Development Planning Agency Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository(BAPPENAS) as Brawijaya Repository Universitas Brawijaya Repository Reposite 4.4 Operational Definitions and Measurement of Research Variables Brawlaya Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U Determining the operational definition and measurement of variables used Repository Repositor in the study is considered vital so as to have the same perception and minimize Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor the difference in understanding them pository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Repository Univ Instead of individual, the inequality defined here as how regions differ Repository Repository U to one another in terms of living standards of its residents or other elements Repository Repository Universitas Brawijaya Repository Repository Ulike public access to education and health services. Following Haughton Repository Repository and Khandker (2009), Gini coefficient is regarded as good measures of Repository Repository Repository Repository Uinequality and among the commonly utilized ones. It is derived from the Repository Universitas Brawijava Repository Universitas Brawija Repository Lorenz curve that represent the distribution of a specific variable as income Repository Repository Repository U(or expenditure) by linking the total amount of income (or expenditure) to Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Uthe number of population. Repository Universitas Brawijaya Repository Repository Univ The Lorenz curve contains not only the convex curve but also a Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Udiagonal line showing equally-distributed share of income (or expenditure) Repository Repository U Repository as illustrated in Figure 4.1. The Gini coefficient is defined as A/(A+B), Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Uwhere A and B are the areas shown in the figure. The coefficient value Repository Repository ranges from 0 to 1 which mean perfect equality (when A is 0) and complete Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Unequality (when B is 0), respectively. The Gini coefficient is calculated Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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Repository Universitas Brawijaya Repository Universitas Brawiava Repository Universitas Brawiava Repository Universitas Brawiava using $Gini = 1 - \sum_{i=1}^{N} (x_i - x_{i-1})(y_i - y_{i-1})$, where x_i is a certain horizontal Repository Ulocus while y_i is a specific vertical locus. When N equals the horizontal axis Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U intervals, the previous equation can be simplified to: $Gini = 1 - \frac{1}{N} \sum_{i=1}^{N} (y_i) - \frac{1}{$ Repository Universitas Brawijaya Repository Universitas Brawijaya Repository y_{i-1}). The measure is considered as a good measure because it satisfies Repository Uthe minimum requirements including: symmetry, mean independence, Repository Universitas Brawijaya Repository Universitas Brawijava Repository Oppulation size independence, and Pigou-Dalton transfer sensitivity. Repository Universitas Brawijaya Figure 4.1 Lorenz curversitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya 100awijaya 90awijaya 80 awijaya 70awijaya 60 awijaya 50awijaya 40awijaya 30awijaya В 20awijaya 10 awijaya 40 60 cumulative percentage of population awijaya 80 100

Repository Universion Source: Haughton and Khandker (2009) Repository Universitas Brawijaya Repository Universitas Brawijava Repository Univ Other than Gini, the IED index published by Bappenas, serves as a robustness check. The index consists of three pillars: the economic growth Repository Universit Repository L niversitas Brawijaya Repository Universitas Bra Repository Uand development; income equality and poverty reduction; expansion over Repository Universitas Brawiaya access and opportunities. The second one is particularly constructed to Repository Uaddress inequality in terms of income, gender, and areas as well as poverty Repository Universitas Brawijava Repository Universitas Brawijaya Repository alleviation. The scale runs from 1 to 10, with 1 being the least satisfactory Repository Uand 10 being the most satisfactory Ository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor 2. ICT Development Concept Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya



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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository University Based on a conceptual framework developed by ITU (2009), ICT can Repository Ube critical to the development of nations/regions that are gradually moving Repository Universitas Brawijaya Repository Universitas Brawijaya Repository towards knowledge-based societies. To account for the extent of ICT Repository Udevelopment in a region, the ICT readiness and the level of ICT use within Repository Universitas Brawijaya Repository Universitas Brawijaya Repository the society are the key components. The latter is mainly supported by the Repository UICT-related skills or capacities. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universite adinessi wijava Repository Universitas Brawijaya Repository University of ICT infrastructure and access to basic ICTs by Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Unividuals. The variable represents the percentage of villages covered Repository University by at least 3G mobile network within a district/city, excluding those only Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universide by EDGE, GPRS or CDMA:1xRTT. Universitas Brawijaya Repository UnivThe ICT use is an index composed from several indicators to portray the actual use of the ICTs. Principal Component Analysis (PCA) is used Repository Universities the index, which allows several original measures to be Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univinformation as possible. The forming variables are as follows: wijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univ1) Percentage of households with telephone versitas Brawijava Repository Univer The telephone includes both fixed and mobile telephone, with the Repository Universitas Brawijaya Repository Universitas Brawijaya Repository University of the second sec Repository Universitelephone exchange that connects a customer's terminal equipment Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universto the public switched telephone network (PSTN), while the latter Repository Universitive refers to a mobile telephone that is subscribed to a public mobile Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya











Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universite the service that provides access to the PSTN via cellular Repository Universechnology and covers both postpaid and prepaid accounts.vijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univ2) Percentage of households with computer iversitas Brawijaya Repository Univer The computer, in this case, does not only refer to a desktop Repository Universitas Brawijava Repository Universitas Brawijava Repository Universemputer that usually remains fixed in one place but also a portable Repository Universione (laptop) which includes notebooks and netbooks. Brawijaya Repository Universitas Brawijaya – Repository Universitas Brawijaya Repository Univ3) Percentage of individuals using the internet ersitas Brawijava Repository Universitive The individuals refer to anyone using internet within the last three Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universion months from any location via fixed or mobile network, irrespective Repository University whether they have skills to log in and log out the internet or they Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universerely resume what others left. Regardless of the device used, the Repository University provides access to a variety of communication services Repository University of Communication services Repository Universuch as the World Wide Web and carries e-mail, news, and files./a Repository Universitas Brawijaya 4) Percentage of individuals who own mobile cellular phone Repository Universitas Brawijaya Repository Universities individual owning a mobile cellular phone refers to a person Repository Universitas Brawijava Repository Universitas Brawijay Repository University of has a portable cellular phone device and one active SIM card, Repository Universat minimum, for personal use within the last three months. wijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitals Brawijaya Repository Universitas Brawijaya Repository Univ The ICT skill is also an index formed by PCA representing the ability Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univand capacity to operate ICTs effectively. Unfortunately, indicators Repository University such skills are currently unavailable. Hence, the level of Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univeducation and literacy can be considered as a good proxy especially in Repository University developing countries such as Indonesia in which education level can be Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univa major barrier. And with the inclusion of ICT in school curricula, Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijava

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository University attending school means higher chance for students' exposure to ICTs. Repository UnivThus, the forming variables of ICT skills are mean years of schooling, Repository Universitas Brawijaya Repository Universitas Brawijaya Repository University as well as tertiary gross enrolment ratios. Mean years of Repository Univschooling presents the average number of years spent by the Repository Universitas Brawijaya Repository Universitas Brawijava Repository Unipopulation aged 25 years and older in undergoing formal education, Repository Universective whether some of them had to repeat years during their time Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univof study. Meanwhile, the gross enrolment ratios of both secondary and Repository Univertiary exhibit the number of students enrolled in secondary and tertiary Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Univeducation respectively, regardless of age, in comparison to the school-Repository Universitas Brawijaya age population with the same level of education. Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor 3. Control Variables Concept Repository Universitas Brawijava Repository Universide from ICT development as variable of interest in this study, Repository Urelevant variables that may influence the result should be controlled. Repository Therefore, this study includes the inter-regional recent migration and trade Repository Uopenness to account for the level of mobile labor, goods, and services in a Repository Universitas Brawijava Repository Universitas Brawijaya Repository region since regional economies are considered much more open than Repository Unational economies due to the minimum barrier to trade including tariff, Repository Universitas Brawijaya Repository Universitas Brawijaya Repository distance, socio-culture, and legal or political considerations. Another Repository Ucontrol variables, including population, population density, and GRDP per Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Capita, are added, accounting for social and economic structure of each Repository U districts/cities. As the original data of those variables are highly skewed and Repository Universitas Brawijava Repository Universitas Brawijaya Repository heavily tailed, it is necessary to transform the variables into a natural Repository U logarithm in order that data to be close enough to a normal distribution. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository UnAll variables used in the study will be summarized in the following table:a Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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A	Response Variables Repository State Susenas 2018 Gini Index Overall inequality of household Susenas 2018	Repositor
JNIVERSITAS 3RAWIJ	expenditures at district/city level	Repository
SIT S	Inclusive Economic Overall index in relation to inequality of Bappenas	Repository
∕ER	Reposition Development Index: income, gender, and areas as well as the Brawlia value of the second s	Repository
ź 🥰	- Explanatory Variables	- Repository
	ICT Readiness Percentage of villages covered by at Podes 2018	- Repository
(-194	Repository Universitas Braest 3G mobile network within aversitas Brawijaya	Repository
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3 AC.1	Repository UICT Skill as B Overall index composed from several 1 Susenas 2018 Repository Universitas B indicators capturing the level of iversities Brawijaya	Repositon
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Gent	GRDP per Capita The natural logarithm of total GRDP in BPS	Repositor
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ITOR	Repositon study incorporates several model specifications covering both linear and non-	Repositor
EPOS	Repositor linear specifications. And both are estimated not only using Ordinary Least	Repository
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	Repositor Squares (OLS) but also Two-Stage Least Squares (2SLS). The latter is	Repositon
4	Repositon particularly employed to deal with endogeneity problem. It is known that OLS	Repository
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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava reckons on minimizing residuals as small as possible to derive the best model Repositor out of various estimators. Even so, the estimation is bias if one of its Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor explanatory variables is suspected to be endogenous due to the violation of Repositor Gauss-Markov assumptions, in which the error distribution cannot be Repository Universitas Brawilava Repository Universitas Brawijaya Repositon considered independent of its explanatory variables. Hence, this study also use Repositor the 2SLS estimation, causing instrumental variables (IV) to come into play. Va Repository Universitas Brawijaya Repository Universitas Brawijaya Repository UnThe model specifications are as follows ory Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Un $Gini_i = \beta_0 + \beta_1 ICT Readiness_i + \beta_2 ICT Use_i + \beta_3 ICT Skill_i + \beta_4 Z_i + u_i$ Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijava Repository Un $Gini_i = \beta_0 + \beta_1 ICT$ Readiness_i + $\beta_2 ICT$ Use_i + $\beta_3 ICT$ Use²_i + $\beta_4 ICT$ Skill_i Repository Universitas Brawijaya Repository $Gini_i = \beta_0 + \beta_1 ICT Readiness_i + \beta_2 ICT Use_i + \beta_3 Z_i + u_i$ (1) Repository $\bigcup_{ICT \ Use_i} = \pi_0 + \pi_1 ICT \ Skill_i + \pi_2 Ln \ Pop \ Density_i$ versitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas $+\pi_3 Ln Pop Density_{ci}^2 + \pi_4 Z_i + v_i$ Universita (2) Brawijaya Repository Universitas Brawijaya d. Non-linear Model estimated by 2SLS Repository Universitas Brawijaya Repository Universitas Brawijaya Repository $\bigcup Gini_i = \beta_0 + \beta_1 ICT Readiness_i + \beta_2 ICT Use_i + \beta_3 ICT Use_i^2 + \beta_4 Z_i + u_i$ (1) Repository Universitas Brawiava $ICT Use^*_i = \pi_0 + \pi_1 ICT Skill_i + \pi_2 ICT Skill_i^2 + \pi_3 ICT Skill_i^3$ Brawiava Repository Universitas $+\pi_4 Ln Pop Density_i + \pi_5 Ln Pop Density_i^3$ tas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas $\pm \pi_6 Ln Pop Density_i^4 \pm \pi_7 Z_i \pm v_i$ niversitas Brawija(2). Repositor Where, *Gini* represents overall inequality of household expenditures; Repositor ICT Readiness represents the availability of ICT infrastructure and access; Repository Universitas Brawilava Repository Universitas Brawijava Repositor ICT Use represents the actual use of ICTs; ICT Skill represents the capacity to Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava operate ICTs; Z represents control variables used in this study including recent Repositor migrant, trade openness, natural log of population, natural log of population Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor density, and natural log of GRDP per capita; u represents the error term; and Repositor the subscript i refers to the observed municipalities. Diversitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U.In regard to OLS estimation (models a and b), the following classical Repositoryassumption tests are performed: Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor 1. Heteroscedasticity test va Repository Universitas Brawijaya The variance of residual in OLS should be constant over the sample period, Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Uknown as homoscedasticity. Otherwise it is regarded as heteroscedasticity, Repository Uresulting not in unbiased estimation but no longer best linear unbiased Repository Uestimators (BLUE). In other words, OLS does not provide the estimate with Repository the smallest variance or significance test can be too high or otherwise Repository Udepending on the nature of it. To check the heteroscedasticity, a visual Repository Universitas Brawilava Repository Universitas Brawijava Repository examination can be done using residuals plotted against fitted values or Repository Uagainst the correlated independent variables. It should follow a pattern of Repository Universitas Brawijaya Repository Universitas Brawijava Repository line. Otherwise, a more formal test should be taken. There are several Repository Unumber of tests, but the most widely applied are the Breusch-Pagan (BP) Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Utest and White test.vijava Repository Universitas Brawijaya Repositor 2. Multicollinearity test liava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Multicollinearity can cause the individual p-values to be misleading. In Repository addition, the confidence intervals can be very wide, even include zero, Repository Umeaning that excluding (or adding) a subject can change the coefficient Repository values and may even change their signs. The most commonly used Repository Umeasure for detecting multicollinearity in a model is variance inflation Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava factors (VIF) by identifying the correlation between its explanatory variables Repository U Repository Uand the strength of the correlation. The results starts at one and have no Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Upper limit, with one means that there is no multicollinearity. However, VIFs Repository Uthat is greater than 5 represent critical levels of multicollinearity where the Repository Universitas Brawijaya Repository Universitas Brawijaya Repository coefficients are poorly estimated and the p-values are questionable. Repositor 3. Unormality test Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository The error term follows the normal distribution. Although it is considered Repository optional because OLS does not require such distribution to generate Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Uunbiased estimates with minimum variance, yet satisfying this assumption Repository offers reliable confidence and prediction intervals. By assessing a normal Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Uprobability plot of residuals against the normal counterparts can reveal whether the residuals follow a normal distribution. If it follows the straight Repository Universitas Brawijaya Repository Universitas Brawijava Repository Uline on the graph, then they are normally distributed. Another widely applied Repository Universitas Brawila Repository Universitas Brawi is the Shapiro-Wilk W test for the number of observations in between 4 and Repository Universitas Brawijaya Repository U2000 rsitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Nevertheless, since the response variable is the Gini index which has a Repository Repositor value bound between 0 and 1, the use of common linear regression may result Repository Universitas Brawijaya Repository Universitas Brawijaya in fitted values that are outside of the bottom and top limits (Ferrari and Cribari-Repositor Neto 2004). Consequently, a transformation of the response variable is Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon required, with its values assumed to be on the real line and its mean modelled Repositor) as a linear predictor based on a set of exogenous variables. This kind of model Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon is called a beta regression model. Thus, a betafit regression established by Repositor Ferrari and Cribari-Neto (2004) is applied as a robustness check for models a Repository Universitas Brawijaya Repository Universitas Brawijaya Repositoryand piversitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository There are two equations involved in models c and d, a structural equation Repository Repositor and a reduced form equation, respectively. The endogenous variables in these Repository Universitas Brawijaya Repository Universitas Brawijaya Repository models are ICT Use for linear relation and ICT Use* for non-linear relation. The Repository Repositor latter comprises the ICT Use and ICT Use². Simultaneously, the instrumental Repository Repository Repository Universitas Brawijava Repository Universitas Brawijaya Repositor variables employed for the linear model are ICT Skill, natural log of population Repository Repositor density (Ln Pop Density) and its squared term. And naturally the non-linear Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor model has more instrumental variables, consisting of ICT Skill, ICT Skill Repository squared and cubed, as well as *Ln Pop Density*, its cubed term and to the fourth Repository Universitas Brawijaya pository Repositor power versitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawiava, Repository Universitas Brawiava Repository To be able to deliver unbiased estimation, it is essential that an IV Repositor designed for an endogenous variable satisfy the following pre-requisites: it Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon should not have any correlation with the residual and must be relevant or Repositor correlated with the instrumented variable. According to International Repository Universitas Brawijava Repository Universitas Brawijaya Repositon Telecommunication Union (ITU), the level of ICT use is mainly supported by Repository Repositor ICT skills or capacities since knowledge and expertise related to ICT are Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor considered necessary for maximum utilization. Additionally, for population Repositor density, as one would expect that the reason behind the high level of ICT use Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor in a region is partially due to the high volume of people within a region. Repository Repositor Consequently, this study argues that both ICT skill and population density may Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor serve as IVs for ICT use. Meanwhile, adding IVs of some squares and Repository additional terms such as the cubed term and to the fourth power of the Repository Universitas Brawijaya Repositor exogenous variables is considered as general approach in the face of nonlinear model estimation (Wooldridge 2010). Repository Repository sitory Universitas Brawijaya Repository pository Universitas Brawijaya niversitas brav Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repositor null hypothesis is rejected and considered statistically significant when the p-Repository Repositor values are less than the significance levels itory Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Another way in conducting evaluation whether the regression line shows Repository Repositor a relationship between the response and explanatory variables is through Repository Repository Universitas Brawilava Repository Universitas Brawijava Repository Repositon goodness of fit measure and represented by *R*-squared. Using the percentage Repository Repositor of the dependent variable variance, it analyses the scatter of data points around Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor the fitted regression line as follows: $R^2 = \frac{variance \ explained \ by \ model}{total \ variance}$ The values Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon is between 0% - 100%, the smaller the discrepancies between the observed Repository Repositor data and the fitted values, the higher the values. Although the R-squared value Repository Repository Universitas Brawijaya Repository Universitas Brawilava Repository Repositor indicates how strong the association between the model and the dependent Repository Repositor variable is, it does not belong to the hypothesis testing. There is F-test of overall Repository Repository Universitas Brawijava Repository Universitas Brawijaya Repository Repositor significance which compares the model specified to the model without Repository Repositor independent variables, known as intercept-only model. It has null hypothesis Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor taking stance on zero difference between the two. The null hypothesis can be Repository Repositor taking statice on zero structure. rejected once the p-value is less than the significance level, which can be done Repository Repository Repositor by comparing the p-value and significance level. Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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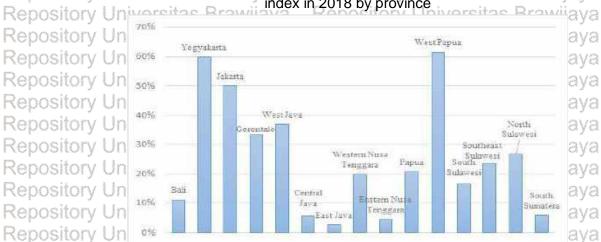
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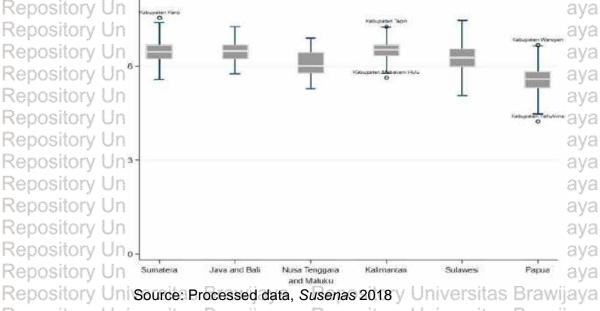
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Figure 5.2 The proportion of the districts above the national value of Gini index in 2018 by province



Source: Processed data, *Susenas* 2018 On the other hand, instead of focusing only to Gini, the second pillar of IED index acts as an indicator addressing the economic development in terms of both inequality and poverty. Its measure is scaled from 1 (less satisfactory)

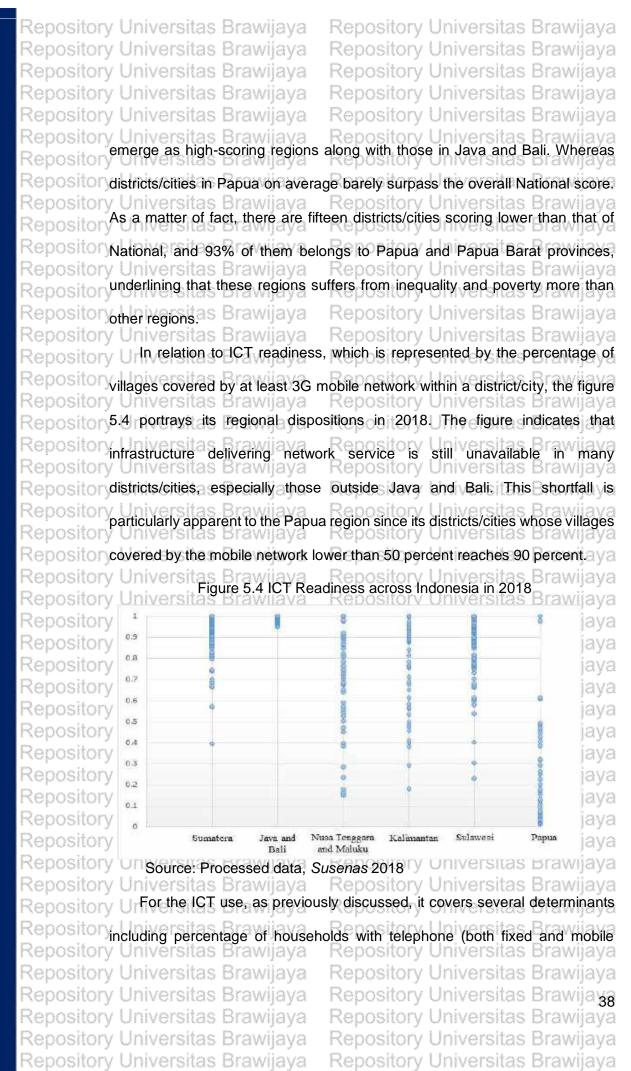
to 10 (highly satisfactory). Thus figure 5.3 shows a different pattern from the figure 4.1, in which on average districts/cities in Kalimantan and Sumatra Figure 5.3 The Second Pillar of IED index across Indonesia in 2018



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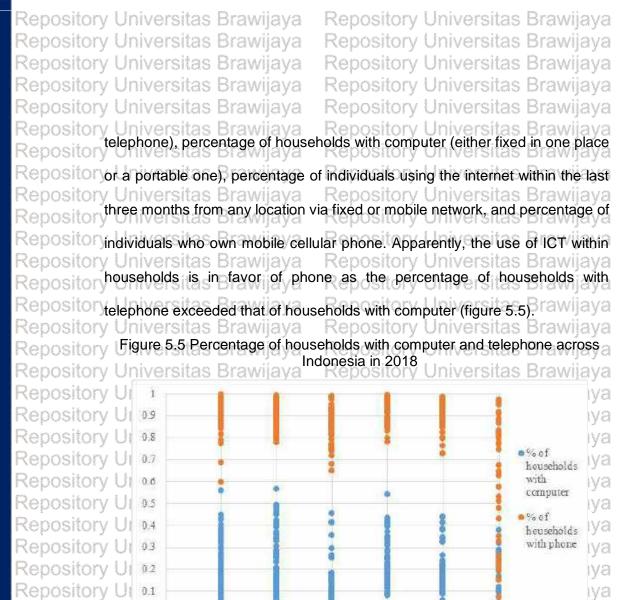
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Bali

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Java and Nusa Tenggara Kalimantan Sulawesi

cellular phone and using the internet vary among districts in each region, yet both patterns, by comparison, are similar to a great extent within every region.

Repositor Subsequently, ICT use index is obtained through PCA and its value varies from Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor minus 2.4 to positive 3. And it can be seen from figure 5.7 that most districts/cities in Java and Bali acquire positive score compared to their peers Repository Universitas Brawijava (epository Universitas Brawijaya Repositor in other regions, revealing the large gap on diffusion rate of ICT use awijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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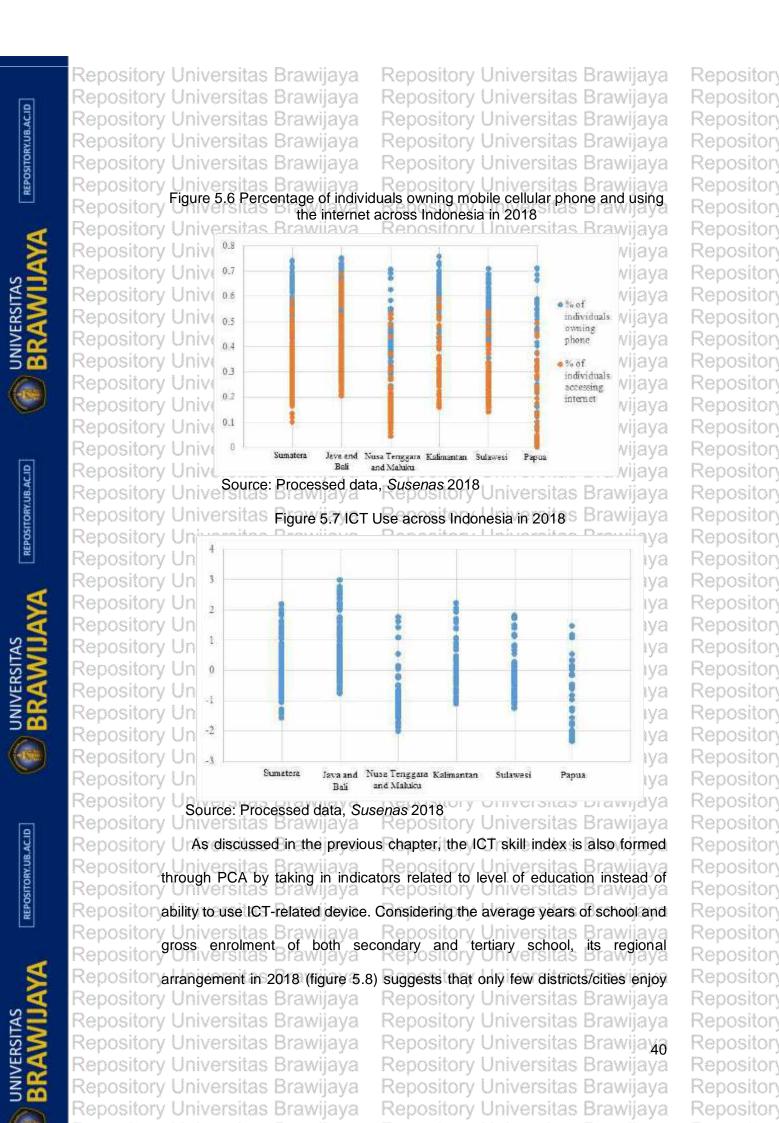


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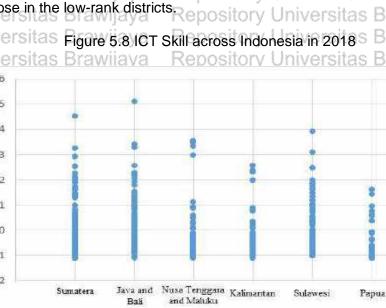


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Repository Universitas Brawijaya Repository Universitas Brawijava high level of education by scoring higher than their peers. The gap is

Repositor remarkably large as the high-rank districts scored three up to four times higher Repository Universitas Brawijaya Repository Universitas Brawijaya Repositorythan those in the low-rank districts Repository Universitas Brawijaya Repository Universitas Figure 5.8 ICT Skill across Indonesia in 2018 S Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya





Repository Un Source: Processed data, Susenas 2018 y Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposi 5.2 Empirical Results and Analysis Repository Universitas Brawijaya

Repository U The following section reveals the empirical results of the previously Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor mentioned model specifications and assesses them in regards with the Repositor research question. The empirical results of ICT development on Indonesia's Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor inequality are presented in table 5.1, in which the first two columns (a and b) are the estimation results of OLS regression while the latter twos (c and d) are Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon the estimation results of 2SLS regression. Besides, the inclusion of the squared form of ICT use on (b) and (d) indicates the non-linear form of regression. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U According to the result (table 5.1), each model is fairly equivalent by Repositor comparison. And based on the classical assumption tests, each model is Repositor efficient under homoskedasticity, has no multicollinearity problem and their Repository Universitas Brawijava Repository Universitas Brawijav residuals are close to the normal distribution. Additionally, the use of IV Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository 3G mobile network within a district/city contribute to the drop of inequality by Repository Repository Repositor 0.06 up to 0.12. In this case the lack of access towards vital resource such as Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor ICT infrastructure can be a barrier in technology diffusion which promote Repository Repositor regional convergence (Celbis and Combrugghe 2014). ersitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Conversely, ICT use appears to exacerbate the inequality since the result Repository Repositor is significant and positive towards inequality. However, its correlation come Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor across as nonlinear as the squared form of ICT use index is significantly Repository Repositor associated with the inequality as well. Considering that the squared term of ICT Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor use has negative relation with inequality and coefficient value less than that of Repository Repositor the ICT use, it can be inferred that the effect of ICT use on inequality is non-Repository Repository Repositor constant as the additional use of ICTs may initially worsen the inequality before Repository Repository Universitas Brawijaya gradually rectifying it. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Repository U A robustness check using the betafit regression is conducted and the Repository Repositor result confirms that the relationship between technology and inequality is Repository Repository Repository Repository Repositor indeed non-linear. This relationship is an extension of Kuznets curve in which Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositon technology becomes the key driver of economic growth. As economy grows, Repository Repositor so does the inequality. Naturally, those successfully embracing technology and Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositon taking part in the growth are the main beneficiary, leaving behind others and Repository Repositor widening the wealth gap. As emerging innovations become more widely Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositon adopted, the initial benefit will fade, resulting in a narrowing of the income gap Repository Repositor (Barro 1999). Thus, it is completely unsurprising to find an inverted curve as in Repository Repository Universitas Brawijaya – Repository Universitas Brawijaya Repository Repositor the Kuznets curve emerged in this study sitory Universitas Brawijaya Repository Repository As for ICT skill, instead of having direct and significant correlation with Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor inequality, it becomes a satisfactory IV for the third and fourth model Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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	specifications along with log of population density. Based on the first regression
1	Repositor of 2SLS (table 5.2), it has significant and positive correlation with ICT use,
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	Repositon whereas the squared and cubic forms of it has significant relation towards the
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	Repositor squared form of ICT use. With coefficient value 0.3, it can be argued that one
	Repositor additional point in ICT skill induce the increase of ICT use by 0.3. This finding
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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava is in line with the notion that one should have basis knowledge on technology Repositor and discover the fringe benefit of utilizing it before fully adopting the technology Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor (Kocsis 2020).s Brawijava Repository Universitas Brawijaya Repository Univ addition, Several tests concerning the relevance of IV are also Repository Universitas Brawijaya Repository Universitas Brawijava Repositor performed in the first regression of 2SLS (table 5.2) as previously discussed. Repositor) The underidentification test shows the p-value where the rejection of null Repository Universitas Brawilaya Repository Universitas Brawijaya Repositon hypothesis indicates that the model is identified. Whereas, the weak instrument Repositon identification test applied proves that IVs are sufficiently strong as the Cragg-Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor Donald Wald F statistics shown are higher than 10. Finally, the p-value Repositor displayed in over-identifying restriction test reflects the acceptance of null Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor hypothesis, revealing that the instruments used are valid as they are Repository uncorrelated with the error term, and that the IVs are correctly excluded from Repository Universitas Brawijava Repository Universitas Brawijaya Repositor the estimated equation. I ava Repository Meanwhile, the recent migrant seems to have a significant correlation with Repository Repositor the inequality in the OLS estimation but appears to be insignificant in the 2SLS Repository Universitas Brawijava Repository Universitas Brawijaya regression. This unsettled result may need further exploration, in part because Repositor the first regression of 2SLS estimation reveals the significant relation between Repository Universitas Brawijaya Repository Universitas Brawijava Repositon the recent migrant and ICT use. Alternately, migration may have a limited effect Repositor on inequality at the regional level, owing to the fact that wage differences in Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor Indonesia have been decreased over the last two decades (Chun & Khor Repository2010jversitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U On the other hand, trade openness appears to have significant and Repositor negative correlation towards inequality, indicating its contribution in alleviating Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon the inequality. This reaffirms the notion in which the degree of openness in Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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5	2016). Even so, a study by Agusalim and Pohan (2018) revealed that the trade	Repository
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	Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U In light of the IED index, it is relevant to assess the impact of ICT on one	9 V
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2	of its sub components as a robustness check of the preceding finding. Yet	Repositon
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	Repositor unlike gini which high score means inequality worse off, the higher the IED	Repository
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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijaya Repository score the better the circumstances as inequality and poverty decline. Repository Repository Repositor Therefore, the ICT readiness has positive relation with the IED index, while ICT Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor use initially holds negative correlation before gradually in favor of the index. As Repository Repositor for the nonlinear relation, it can only be confirmed using the 2SLS estimation. Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repositon This does not only confirm the previous finding but also put forward another Repository Repositor argument in which ICTs, particularly internet connection, can help the poor in Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor improving their living standard through increasing access to wider market and Repository Repositor jobs available (Hidayat et al. 2021). epository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository U According to the OLS estimation, ICT skill appears to have significant and Repository Repositor negative relation towards the IED index, meaning that the higher the ICT skill Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor acquired is associated with increase in inequality and poverty. However, based Repository on the first regression of 2SLS estimation (table 5.4), it holds significant and Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor positive correlation with the ICT use, further indicating that the higher the Repository Repositor achievement of ICT skill leads to the higher use of ICTs. Besides, the nonlinear Repository Repository Repository Repositor relationship can only be seen through 2SLS where ICT skill acts as IV along Repositor with natural log of population density, proving that ICT skill is indeed an Repository Repository Repositor appropriate IV for ICT use. Hence, all things considered, it is more relevant for Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor ICT skill to have direct relation with the actual use of ICT instead of the IED Repository Repositoryindexiversitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository University Table 5.4 The first regression of 2SLS estimation – IED index Repository (cRepositor(d)Universita(d) Brawijava Repository Universitas Brawijava Repository ICT Use ICT Use ICT Use ICT Use ICT Use ICT Use Repository UnVARIABLES Br Repository Repository Unicroskilitas Brawijaya0.30 Reposit 0.303 Inniversit.00353 rawijaya Repository Repository Repository Universitas Brawijaya(0.0250) posit (0.0307) nivers (0.0661) rawijaya Reposite0.0196 nivers 0.423*** rawijaya Repository UnICT-Skilltas Brawijava Repository Reposit <u>-0.00836</u> (0.0799) -0.00836 (0.0799) Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Reposit(0.00629) ivers(0.0209) rawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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			role of ICT use among different
Repository	vel of economic developme	nt. Thus, instead	of categorizing based on the
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			indeed different association
Repository	Universitas Brawilava	 Repository 	/ Universitas Brawilava
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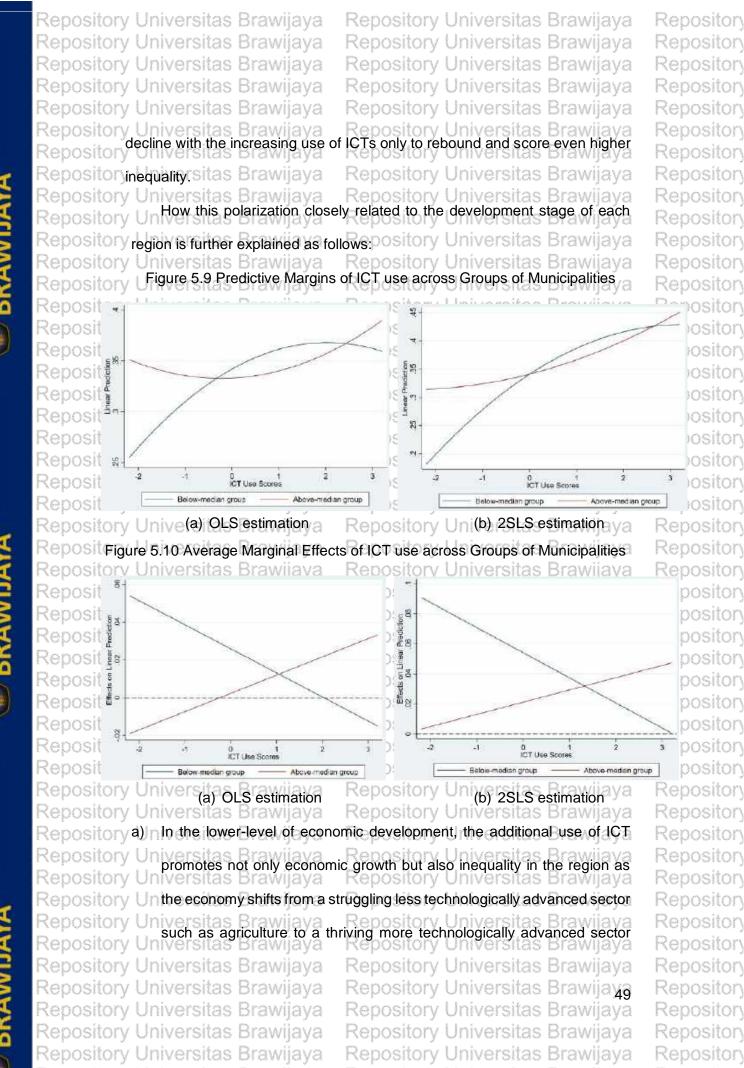
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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Unsuch as industries. Those moving to a more-advanced sector are Repository Unbenefited from the higher income, resulting in the widening income gap. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Un Eventually, the inequality caused by the sectoral mobility decreases as Repository Un the transition is completed. Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository b) For the higher-level economic development, the nature of innovation Repository U constitutes the developmental phases. In the early phase, the role of ICTs Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U is as an equalizer because brand new products and processes are Repository Undeveloped^S in result Vof numerous innovative initiatives by new Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U entrepreneurs, causing barriers induced by the former innovation to be Repository Universe or even wiped out. Albeit this 'creative destruction' known as Repository Universe of even wiped out. Repository UrSchumpeterian ainnovation Mark I, the later phase -known as Repository Schumpeterian innovation Mark II, shows a strong tendency toward Repository Ur "creative accumulation," in which only few large firms having a significant Repository amount of physical or human capital drive the technology innovation, thus Repository U setting high barriers for new entry and causing inequality to soar. Wilaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya <u>Repository</u> Universitas Brawijaya CHAPTER VI Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijay conceusion ory Universitas Brawijaya Reposite 6.1 Summary of Findings Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository U By utilizing the municipal level data covering all of 514 districts/cities, this Repositor study attempted to look into the role of ICT development on inequality in Repositor Indonesia. The ICT development includes the availability of basic ICT Repositor infrastructure, the use of ICTs, and the capacity to operate it. Given the data Repositor limitation, data from 2018 is used, resulting in a cross-sectional study. The Repository Universities Brawieva Repository Universities Brawieva Repositor study provides both linear and non-linear models to be estimated using OLS Repositor and 2SLS, aiming for a thorough assessment.ry Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository The major findings of this study include the following matters. First, the Repositor accessibility on basic ICT infrastructure has a role in alleviating inequality, Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon contributing to its drop up to 0.12. However, the actual use of ICTs has a non-Repositor linear relationship with inequality; at a lower level of ICT use, it gives rise to Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor inequality before the pace of the increase slows down at a higher level of this Repositor variable, revealing a pattern similar to the Kuznets curve. Second, the ICT skill Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor variable comprising the education level appears to have direct correlation with ICT use instead of inequality, in which an additional score on ICT skill will Repository Universitas Brawijay Repository Universitas Brawijaya Repositor induce the increase of ICT use by 0.3, confirming that basis knowledge is a prerequisite for engaging in ICTs. Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository U Third, replacing the Gini index with the inclusive economic development Repository Universitas Brawila Repository Universitas Brawijava (IED) index as the responding variable resulted in support of previously Repositor mentioned findings. In addition, since IED index takes into account both Repository Universitas Brawijaya Repository Universitas Brawijaya Repositon inequality and poverty, this supports the argument that ICT may contribute in Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repositor poverty alleviation by expanding access to wider market and better jobs Repositor opportunities. Finally, the association between ICT use and inequality varied Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor across economic development levels, in which lower-income regions exhibit Repositor the inverted U-shaped curve as in the original Kuznets' curve whereas higher-Repository Universitas Brawilava Repository Universitas Brawijaya Repositon income regions are subjected to the U-shaped curve, further revealing the Repositor contrasting role of ICTs on inequality across regions in Indonesia. Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposi 6.2 Policy Implications rawijava Repository Universitas Brawijaya Repository U Given that today's world is closely interrelated through ICTs, assessing Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor the impact of ICT development on inequality in Indonesia have a number of Repositor critical implications for policymakers. First, as the availability and access to ICT Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor infrastructure turn out to have strong and negative association with inequality, Repositor providing basic ICT infrastructure and network at a minimum throughout Repositor archipelago is indispensable, particularly towards regions outside Java and Bali. All the more since internet has become ever more prominent during the Repository Repositor COVID-19 pandemic and digital transformation is set as one of the key Repository Universitas Brawiia Repository Universitas Braw objectives in the Medium-Term National Development Plan (RPJMN) 2020-Repository Universitas Brawijaya Repositor 2024 iversitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Second, promoting digital inclusiveness should be the primary agenda Repositor because the inequality induced by ICTs is in part due to only a fraction of the Repository Universitas Brawijava Repository Universitas Brawijaya Repositor society benefiting from it, leaving behind others who have not adopted ICTs. Repositor Clearly there are various factors impeding one to fully engage with ICTs, Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor requiring strategic and far-reaching policies able to embrace all segments within society especially the poor and disadvantages. One of the relevant Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor determinants identified in this study is educational attainment as regions Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijava Repository Universitas Brawijava Repository Universitas Brawijaya Repository Universitas Brawijaya

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Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository featured with high level of education has strong and positive correlation Repository Repository Repository Repositor towards the use of ICTs, hence improving education should be an integral part Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor of digital inclusiveness policy. Repository Universitas Brawijaya Repository Repository U Last but not least, the government's redistributive policies and spending Repository Repository Universitas Brawijava Repository Universitas Brawijaya Repository Repositor such as cash transfer, subsidies, and other forms of social assistance, are Repository Repositor extremely vital for relieving the inequality caused by ICTs. For regions with the Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repositor inverted U-shaped curve, the policies should be directed to overcome the Repository Repositon possible digital divide once ICTs become the driver of the economic growth. As Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor for regions facing the U-shaped curve, the policies should be designed to Repository Repositor prevent any conditions that may impair the fair competition in the new more-Repository Repository Universitas Brawijaya Repository kepository Universitas Brawijaya Repositor technology-advanced sector by reducing the entry barrier or enforcing rules Repository Repository Universitas Brawijaya and regulation. Brawijaya Repository Universitas Brawijaya Repository Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Universitas Brawijaya Reposite 6.3 Limitations of the Study lava Repository Repository Universitas Brawilav Repository Universitas Braw Repository Needless to say, this study is limited to a cross-sectional study offering a Repository Repository Repository Repositor snapshot of a specific point in time. Hence, to expand the current study, one Repository Universitas Brawijava Repository Universitas Brawija Repository might want to conduct a longitudinal study or a panel study as it allows to study Repository Repositor changes or developments in the characteristics of the targeted population over Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repositor period of time. Apart from that, the inequality applied in this study is limited to Repository Repositor inequality within region rendering regions as separate entities. Having said that, Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositon it is highly recommended that the future study take into account the spatial Repository Repositor effect, enabling one to assess the technological interdependence towards Repository Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repositor inter-regional inequality and further probe into the existent of regional Repository Repositor convergence. Finally, instead of using macro data, the future study may Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijaya Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository Repository Universitas Brawijava Repository Universitas Brawijava Repository Repository Universitas Brawijaya Repository Universitas Brawijaya Repository

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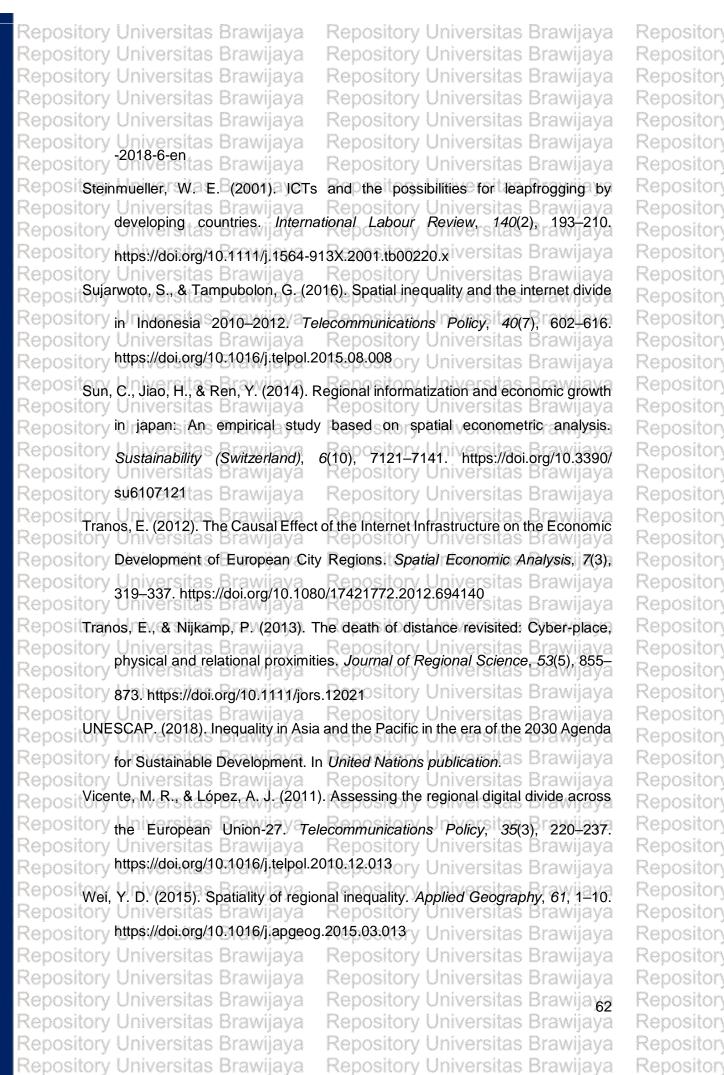
















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