The Recent Trend of Income Inequality in Asia and How Policy Should Respond


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Abstract

This paper examines the recent trend in income inequality in developing Asia and its key drivers and discusses how policy should respond. Over the past three decades, developing Asia achieved economic growth and reduced poverty faster than any other region of the world at any time in history. But many countries also experienced rising income inequality. Technological change, globalization, and market-oriented deregulation have driven the region’s rapid growth, but have also had significant distributional implications. These forces tend to favor owners of capital over labor, skilled over unskilled workers, and urban and coastal areas over rural and inland regions. Working together, these have led to a falling share of labor income in total national income, increasing premiums on human capital, growing spatial disparity, and widening wealth inequality—all contributing to rising income inequality. The paper argues that the three driving forces of economic growth should not be obstructed even though they cause rising inequality. But it is important for policymakers to deploy appropriate policy measures to respond to rising inequality.
1. Introduction

Over the past three decades, developing Asia achieved economic growth and reduced poverty faster than any other region of the world at any time in history. But many countries also experienced rising income inequality. Technological change, globalization, and market-oriented deregulation have driven the region’s rapid growth, but have also had significant distributional implications. These forces tend to favor owners of capital over labor, skilled over unskilled workers, and urban and coastal areas over rural and inland regions. The impacts of these forces have been compounded by various forms of unequal access to opportunity often caused by institutional weaknesses. Working together, these have led to a falling share of labor income in total national income, increasing premiums on human capital, growing spatial disparity, and widening wealth inequality—all contributing to rising income inequality.

How should Asian governments respond to rising inequality? The three driving forces of economic growth should not be obstructed even though they cause rising inequality. But it is important for Asian policymakers to deploy policy measures to confront rising inequality, focusing on equalizing opportunity which reduces income inequality. These policies include measures toward creating more high-quality jobs for wide population, interventions that narrow spatial disparity, fiscal policies that reduce inequality in human capital and that make the tax system effective and fairer, and reforms that strengthen governance, level the playing field, and eliminate social exclusion.

2. Recent trends of inequality in developing Asia

Many countries in Asia and the Pacific have seen remarkable achievements in growth and poverty reduction in the last three decades. From 1990 to 2017, the average annual growth rate of gross domestic product (GDP) for developing Asia reached 7.0% in 2011 purchasing power parity (PPP) terms, more than double the 2.8% for Latin America and the Caribbean (Figure 1). Much of the growth was driven by the People’s Republic of China (PRC) and India—the world’s two most populous countries—with annual GDP growth during the period reaching 9.7% and 6.7%, respectively.
The rapid growth has dramatically improved living standards of Asian people and reduced extreme poverty. During 1990–2017, the region’s average per capita GDP in 2011 PPP terms increased from $2,423 to $10,725. The proportion of the population living on or below the $1.9-a-day poverty line fell from 53% in 1990 to around 9% in 2013, as over 1 billion people were lifted out of poverty. Fifteen countries reduced poverty by more than 15 percentage points in the period.

This performance in growth and poverty reduction has, however, been accompanied by rising income inequality in many countries. Of the 30 countries that have comparative data between the 1990s and early 2010s, nine—accounting for more than 80% of developing Asia’s population in 2016—experienced rising inequality (Figure 2). The Gini coefficient of per capita expenditure—a common measure of inequality with zero indicating perfect equality and 1 indicating perfect inequality\(^2\)—worsened in the nine economies, including the three most populous countries—the PRC, India, and Indonesia. From the early 1990s to 2013, the Gini increased from 32 to 40 in the PRC, from 32 to 35 in India, and from

\(^2\) A common measure of inequality, ranging from zero indicating perfect equality and 1 indicating perfect inequality. For convenience, this note cites the Gini multiplied by 100.
31 to 38 in Indonesia. In PRC, the Gini coefficient has declined slightly since 2008, but the level remains among the highest in Asia (Zhuang and Li 2016).

Although Asia’s inequality levels are generally below those in other developing regions—developing Asia’s range of the Gini coefficients is 26–46 with a median of 37 in 2013, compared with 31–63 and the median of 43 for Sub-Saharan Africa and 40–58 and the median of 47 for Latin America and Caribbean—inequality declined elsewhere, with the exception of OECD countries. Majority of OECD countries—with the Gini in the range of 25-47 and the median of 32—also experienced rising inequality in the last three decades.

**Figure 2: Gini coefficient, selected Asian economies, 1990s and 2013 or latest**

![Gini coefficient chart](image)

### Table 1: Gini coefficients by region

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<th>Region</th>
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Note: The Gini coefficients are based on per capita expenditure for developing Asia and Sub-Saharan Africa and per capita disposable income for Latin America and Caribbean and OECD countries. Income-based Gini coefficients are normally higher than expenditure-based Gini coefficients, and the difference is in the range of 5-10.


Inequality of opportunity is also prevalent in developing Asia, and is a crucial factor in widening income inequality (Son 2012). Disparities in the means to raise one’s living standards—such as physical assets (e.g., capital and land), human capital (e.g., education and health), and market access (e.g., labor and finance)—are common. Unequal access to public services, especially education and health, is central to generating inequality of opportunity. National household surveys conducted in the mid- to late-2000s revealed facets of diverging opportunities in many developing Asian countries. For instance, school-age children from households in the poorest income quintile were three to five times as likely to be out of primary and secondary school as their peers in the richest quintile in some countries. The situation was even more dire for tertiary education where poorer college-age individuals were 10–20 times more likely not to attend college than their better-off peers.

Similarly, infant mortality rates among the poorest households in some countries were double or treble the rates among the richest households. In the most extreme examples, the chance of a poor infant dying at birth was more than 10 times higher than for an infant born to a rich family. With few exceptions, the region’s economies have made significant progress toward gender parity in primary and secondary education. Yet high gender disparities in tertiary education remain in South Asia and the Pacific. Inequality of opportunity and of income can lead to a vicious circle, as unequal opportunities
create income disparities, which in turn lead to differences in future opportunities for individuals and households.

3. Why inequality matters?
Rising inequality hampers poverty reduction. Each percentage of economic growth will generate a lower rate of poverty reduction when inequality is increasing than when inequality remains unchanged or is decreasing.

Inequality can weaken the basis of growth itself. High and rising inequality can affect growth through a number of economic, social, and political mechanisms. Inequality of wealth and income can lead to a misallocation of human capital. Those with little wealth or low income are unable to invest in human capital, or wealth- and income-enhancing activities, and will remain poor. In principle they may be able to borrow to finance investment. But imperfect financial markets, coupled with other market failures, often heavily constrain their ability to borrow and invest.

Widening inequality—leaving more people at the top and bottom of the ladder—can mean a hollowing out of the middle class. It has been argued that growth driven by and benefiting a middle class is more likely to be sustained—both economically, to the extent that the rent seeking and corruption associated with highly concentrated gains to growth are avoided, and politically, to the extent that conflict and horizontal inequalities between racial and ethnic groups are easier to manage.

In fact, there is a broad consensus among researchers on the link between inequality and the quality of institutions. Along several dimensions, ranging from political stability, through institutional stability, to property rights, the negative impact of inequality on institutional quality seems to be well established, although the two-way causality is also widely recognized (Zhuang et. al. 2010; Nye 2014). At the same time, there is also a literature on the effect of inequality on crime and violence and, through that, on the investment climate (Fajnzylber, et. al. 2002; Ozler and Demombynes 2002).
Finally, greater inequality may lead to a political backlash, in which pressure for governments to enact populist policy measures grows. In response to the rising demands, the political process may favor policies which, in the short term, would benefit the lower end of the income distribution, but which in the long run could hold back efficiency and growth. Under such conditions, the interests of the political system diverge from the interests of the economy as a whole. This is a widespread concern in developing and developed countries alike.

Asian governments are responding to rising inequality. This concern is increasingly being addressed through development plans across the region, as they include explicit goals to make growth more inclusive. In India, the government made an explicit commitment to inclusive growth in its recent successive five-year plans. In the PRC, the authorities set about building a harmonious society, scientific development, and realizing the Chinese dream as the development goals and have committed to making growth inclusive. In Indonesia, Malaysia, and Philippines, inclusive growth or development is at the heart of their current medium-term development strategies.

The distinction between inequality of opportunity and inequality of outcome is important in guiding public policy. Inequality of opportunity—access to education, health, public services, or jobs—often arises from differences in individual circumstances that are outside the control of individuals—such as gender, ethnic origin, parental education, or birth location. Such inequality largely reflects institutional weaknesses and social exclusion, and should be the target of public policy. On the other hand, given an individual’s circumstances, what the individual chooses for effort in the labor market or in education will also influence his or her outcomes—such as income or consumption. Inequality of outcomes arising from differences in individual efforts reflects and reinforces the market-based incentives that are needed to foster innovation and growth.
4. What drives Asia’s rising income inequality

4.1 Conceptual discussion

Total income of a household is the sum of its income derived from labor and that derived from capital

\[ Income = W L + R K \quad (1) \]

Capital income is the product of the different types of capital assets \(K\) owned by the household and their respective rates of return \(R\). For a typical household, capital assets consist mostly of housing, land, factories, and machinery owned by households, and financial assets. Labor income—which includes returns to human capital—is the product of the different types of labor assets \(L\) and their respective wage rates \(W\). The return to human capital is reflected in the skill premium, that is, the more educated and skilled labor earns higher wages. \(K, R, L,\) and \(W\) can all be considered as vectors.

Income inequality estimates are usually based on per capita household income, that is:

\[ \frac{Income}{H} = W \left( \frac{L}{H} \right) + R \left( \frac{K}{H} \right) \quad (2) \]

Therefore, inequality in per capita household income is the result of inequality in per capita labor income \((L/W/H)\), inequality in per capita capital income \((K/R/H)\), and the relative importance of labor and (non-human) capital incomes \((WL/Income\) and \(RK/Income\), respectively) in total household income.\(^3\) Changes in income inequality can be thought of as resulting from a combination of changes in the distributions of the assets, changes in the relative returns to these assets, and changes in the relative importance of labor and capital incomes in total household income.

In any society, the distribution of non-human capital reflects its ownership structure, while the distribution of human capital is determined mostly by the inequality in access to education and health services. Over time, many factors shape these distributions, including initial distributions,\(^3\)

\[^{3}\text{Lerman and Yitzhaki (1985) decompose the Gini coefficient into the contributions by income source. Each source's contribution to overall inequality is the product of its own Gini coefficient, its share in total income, and its correlation with the rank of total income.}\]
household savings behavior and investment decisions, differences in individual effort and entrepreneurship, political economy factors (such as pressures for land redistribution, taxation on wealth, and public spending on human capital), the quality of governance and institutions, and demographics.

Changes in the relative returns to assets reflect demand and supply conditions in the market place, how efficiently the market works—for instance, the presence or absence of monopoly or discrimination against particular population groups (such as females or rural residents), and political economy factors (such as labor market institutions and taxation on labor and capital incomes).

Finally, changes in the relative importance of labor and capital incomes in total household income are determined by the relative changes in returns to labor and capital and in the capital-labor ratio. These are in turn determined by technological advances and the bias of technical progress, the relative bargaining positions of labor and capital, political economy factors such as labor market institutions (minimum wages, collective bargaining, and employment protection), taxation, and the presence or absence of market distortions.

Within this framework, income inequality will increase if changes in relative returns to assets or in the distribution of assets, or in the relative importance of labor and capital incomes in total income, favor the better-off households. There are many ways in which this could happen.

First, wage rates could increase faster for the better educated and skilled workers than for the less educated and skilled. There is a large literature showing that globalization and technological progress may have increased the demand for skilled workers relative to that for unskilled workers in many developing countries, leading to an increasing skill premium (ADB 2012). In the case of the PRC, the market-oriented reforms introduced after 1979 dismantled the fixed-wage system that existed under central planning and made wages more reflective of workers’ skills and educational attainments and
of market demand and supply conditions, and may have also contributed to the increase in the skill premium.

Second, the differential in the returns to capital and in wage rates between richer coastal and urban areas and the poorer interior and rural areas could increase as growth accelerated, leading to increasing spatial inequality. This is because coastal regions are closer to trade routes and world markets than interior regions; and because urban cities have better infrastructure than rural areas, they are more likely to attract investment and new technologies, especially during the initial phase of growth take-off (Lewis 1954). All these could lead to greater increases in productivity, wages and returns to capital assets in the favored areas. In the PRC, for example, land and housing prices have increased much faster in coastal areas and urban cities than in inland provinces and rural areas in the last 30 years or so.

Third, capital income could increase faster than labor income. This would lead to a rising share of capital income in total household income (which tends to be less equally distributed and mostly earned by richer households) and a declining share of labor income (which tends to be more equally distributed and more important for poorer households). This occurs when total income grows faster than total labor income, leaving a larger share of income accruing to capital. It has been suggested that technological progress, especially the adoption of ICT and automation, has reduced the demand for labor relative to that for capital (as shown by a declining employment elasticity of growth in recent decades), thus favoring capital. In some countries, the large pool of rural surplus labor has also put downward pressure on urban wage rates (until recently in the case of the PRC).

Fourth, increasing inequality in asset distribution can also lead to an increase in income inequality. Inequality in human capital could increase if wealthier households invest more on education and health than poorer households. Inequality in capital assets could increase if wealthier households save more, if they receive higher returns to capital due to economies of scale, or if they have lower fertility rates than less wealthy households.
In addition to these major drivers, there are other reasons why income inequality could increase. One is increases in corruption and rent-seeking, if better-off households are more likely to engage in such activities. Another source is the remittances sent home (mostly in rural areas) by migrant workers working in urban areas, which may increase inequality in rural areas but nevertheless reduce urban-rural income gaps.

4.2 Empirical evidence

Technological progress, globalization, and market-oriented deregulation have been the key drivers of developing Asia's rapid growth in the last several decades—but they have also had huge distributional implications. Together, they have favored skilled over unskilled labor, leading to a rising skill premium; capital over labor, leading to a rising share of capital income; and urban and coastal areas over rural and inland regions, leading to rising spatial inequality. These forces can explain a large part of the movements in income distribution and inequality in many countries in Asia. In the PRC, evidence shows that rising income inequality has also led to rising wealth inequality, which in turn increases income inequality.

(a) Rising skill premiums

There is significant global evidence that the rates of return to progressively higher levels of education have been trending upward in recent years. In OECD countries, for instance, those who do not complete an upper secondary education could earn an average of 23% less than their counterparts who do. A person with a tertiary education can expect to earn over 50% more than a person with an upper secondary or postsecondary non-tertiary education (OECD 2011).

In Asia, empirical studies find that the returns to education increase with educational attainment and that the relationship has been getting steeper over time. An ADB study (2007) found that from the mid-1990s to mid-2000s, real wages grew much faster for wage earners with tertiary or higher education than for those with lower educational attainment in India and the Philippines, leading to wider wage differentials. The same study also found that education is the single most important
factor among those variables that were included in analyzing wage inequality. In the case of India, the Gini coefficient of wages increased from 40.5 in 1993 to 47.2 in 2004. Half the increase can be explained by individual characteristics. Of this explained increase, about 50% is accounted for by education.

Many other studies have provided direct or indirect evidence of rising skill and/or education premiums in developing Asia. Son (2010) found that education increases individuals’ employability in the Philippines. A study on India, the Philippines, and Thailand found that the rate of return to college education rose relative to that of secondary education between the mid-1990s and mid-2000s (Mehta et al. 2011). This rise was related to the expansion of high-skill services jobs: employing only 7%–11% of the labor force, they contributed 40%–70% of the rate of return to college education.

A World Bank study (World Bank 2012) reported that the tertiary education premium stood at 90% for Cambodia (2007), 60% for the PRC (2005), 84% for Indonesia (2007), 70% for Mongolia (2007), 70% for the Philippines (2006), 120% for Thailand (2004), and 55% for Viet Nam (2006). In Cambodia, the PRC, Mongolia, and Viet Nam, the premium has increased in recent years across sectors. The tertiary education premium increased in Indonesia in the manufacturing sector and in the Philippines in the services sector.

Household survey data help reveal patterns of income inequality due to educational attainment (in this case, of the household head) (Figure 3). First, education inequality almost always accounts for more than 20% of total income inequality. Second, the share of total income inequality explained by educational inequality has by and large been on the increase. The share of inequality accounted for by differences in educational attainment increased in all the countries during the periods reviewed, with the increase most significant in the PRC, from 8.1% in 1995 to 26.5% in 2007.

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4 Tertiary education premium refers to the wage premium for workers with at least tertiary education compared with workers with a lower level of education.
As in the rest of the world, developing Asia is facing strong upward pressure on the wage gap between skilled and unskilled labor. Is this because of skill-biased technological progress? There are empirical difficulties in isolating this factor because the wage premium depends on both demand- and supply-side factors. Unsurprisingly, analysts have come down on both sides of the explanation.\textsuperscript{5}

To the extent that skill-biased technological change happens, its impact can be transmitted through globalization. It is unlikely that policy makers can reverse this trend, nor should they want to, since technological progress is delivering higher levels of productivity and growth in the economy. The answer, rather, is to address inequality in human capital itself.

\textsuperscript{5} Acemoglu (2002) noted that for the late 20th century, there has been a rise in returns to education and a decrease in low-skill wages, despite an increase in the supply of college graduates, which suggests that supply has not kept up with demand for high-skilled labor. Studies have also argued for evidence of skill-biased technological change in developing countries (Goldberg and Pavcnik 2007; Robbins 1996; Sanchez-Paramo and Schady 2003; and Attanasio, Goldberg, and Pavcnik 2004 for Latin America; Hsieh and Woo 2005 for Hong Kong, China; and Kijima 2006 for India). However, Card and DiNardo (2002) pointed out that wage inequality stabilized in the US despite continuing developments in computer technology. They also argued that skill-biased technological change does not fully explain wage gaps across genders, and racial and demographic structures. The debate between competing explanations for the US is ongoing (see Autor, Katz, and Kearney 2008; Marquis, Trehan, and Tantivong 2011).
(b) Falling labor’s share of total income

In the last several decades, the income share of labor has been on the decline and that of capital on the rise in many countries around the world. In the United States (US), for example, the labor income share in industry declined from 65% in 1992 to 52.4% in 2009. Similarly, in Germany, the labor income share of industry peaked at 79.5% in 1993 from the rise that started in the mid-1980s, declining since then.

A declining labor income share means that the growth of real wage rates lags behind growth of labor productivity. A number of contributing factors have been identified in the context of the developed world. The first is that technological change, especially connected with improvements in information and communication technologies and automation, has raised the productivity of and return to capital relative to labor. The second is the decrease in the bargaining power of labor, due to changing labor market policies and declining union membership in these countries. The third is increased globalization and trade openness, which led to migration of relatively more labor-intensive sectors from advanced economies to emerging economies—with the sectors remaining in the advanced economies relatively less labor-intensive and having a lower average share of labor income (Jacobson and Occhino 2012; Arpaia, Pérez, and Pichelmann 2009). It has also been noted that globalization and trade openness increase the elasticity of labor demand, which also weakens labor’s bargaining position (Rodrik 1997; Harrison 2002).

Empirical evidence suggests that Asia is following this trend—all the economies in Figure 4 saw declines in labor income shares during the mid-1990s to mid-2000s. What are the causes of these declines? Technological progress in the region appears to have been labor-saving and capital-using. Partly, this can be explained by a high level of capital accumulation in many Asian countries (Felipe 2009). As a result, the wage employment elasticity of growth\(^6\) has been on the decline in many

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\(^6\) Wage employment refers to wage-earning employment, mostly in the formal sector. Wage employment elasticity is the ratio of employment growth to gross domestic product (GDP) growth between two periods. It thus measures the amount of employment growth required to generate each percentage point of GDP growth.
countries in recent years—for example, in the PRC from 0.44 in 1991–2001 to 0.28 in 2001–2011 and in India from 0.53 to 0.41 for the same period. This decline means that each percentage of employment growth now requires a higher percentage of output growth than in the past—a phenomenon sometimes referred to as “jobless growth” (ADB 2012).

Figure 4: Share of labor income in industrial value added, selected Asian economies

A declining employment elasticity of growth implies increases in labor productivity. Annual growth of manufacturing labor productivity in 2000–2008 reached 6.7% in the PRC and 5.5% in Malaysia, and was in the range of 3%–4% in Indonesia, Pakistan, the Philippines, Thailand, and Viet Nam (Asian Productivity Organization 2011).

That labor productivity is increasing but labor income share is declining implies that real wage growth has lagged behind labor productivity growth, partly because of the presence of a large pool of rural surplus labor in many countries associated with their dual-economy structure. The surplus
labor pool weakens the bargaining power of labor and depresses wages in the non-agriculture sectors, contributing to declines in the labor income share when globalization and market-oriented reform led to rapid growth. In India, for instance, average annual growth of labor productivity was 7.4% in 1990–2007, while average annual real wage growth was only 2%. In the case of the PRC, Zhuang (1996) showed that if the labor market had been fully liberalized and controls over labor transfer from rural to urban areas fully relaxed in the early 1980s, urban wage rates would have fallen, and the labor income share of the urban sector would have decreased by half. A lower share of income going to labor and a higher share of income going to capital tends to increase inequality, because capital income is mostly earned by richer households and more unequally distributed than income from basic wage labor.

(c) Increasing spatial inequality

As the distribution of economic activity is structured geographically—high concentrations and incomes in some locations, and low on both counts in others—so are the distribution of income and its evolution. Some locations have natural advantages, like fertile soil for agriculture or proximity to a coastline for trade. Economic analysis has also highlighted the role of agglomeration benefits, where once concentration starts because of natural advantages or because of advantages conferred by infrastructure, there is a self-perpetuating process of increasing concentration (Krugman 2008).

The increasing rural–urban income gap is a significant contributor to inequality in several Asian countries (Figure 5), especially the PRC (around 45%).

7 Several decades ago, Nobel laureate in economics Arthur Lewis pointed out the tendency of the development process to be inegalitarian: “Development must be inegalitarian because it does not start in every part of the economy at the same time...There may be one such enclave in an economy, or several; but at the start, development enclaves include only a small minority of the population” (Lewis 1976).
The possibility of rising inequality due to urbanization as part of the development process was first pointed out by Kuznets (1955). The particular mechanism that he highlighted in his contribution starts with a two-sector model with the population divided between a low mean income, low inequality sector (rural/agriculture) and a high mean income, high inequality sector (urban/industrial). In this model, the drivers of inequality are changes in inequality within the two sectors, a widening of the gap between average incomes in the two sectors, and a shift of population from agriculture in the rural sector to industry in the urban sector—or the process of urbanization.

Inequality changes within the two sectors will most likely be affected by the same factors discussed in the previous sections, particularly the widening wage premium for skills, and the regional disparity (to be discussed in the next section). To the extent that the urban labor force has a higher level of human capital than the rural labor force, this factor would also tend to widen the rural–urban gap in average incomes. Perhaps the strongest driver of that gap, however, is the cumulative force of agglomeration economies and its impact on productivity (de Groot, Poot, and Smit 2008). For
whatever combination of reasons, the rural–urban income gap in Asia has been widening in the last 2 decades, and it has been a key driving force of rising inequality in the PRC (Figure 6). Thus the first two—change in inequality within the two sectors and a widening of the gap in the average income between the two sectors—are likely to put upward pressure on inequality in Asian countries.

Figure 6: Urban–rural income gaps in selected Asian economies, 1990s–2010s

PRC = People’s Republic of China.
Note: Figures are for the closest available year. Missing data in India for the mid-1990s and 2000s assumed to be the same as the closest 5-year period.

What about the third factor? As is well known, urbanization in Asia has been rapid. Kuznets explored this with the aid of a numerical example, which showed increasing inequality to start with as urbanization begins, followed by a decrease at the later stages. Anand and Kanbur (1993) showed that if there is no inequality within the two sectors, with the only difference between them being because of the higher income in the urban area, then inequality will indeed follow an inverse U shape, so that this driver will tend to raise inequality in the early stages of urbanization. If, further, urban inequality is higher than rural inequality, this effect will be reinforced. Kanbur and Zhuang (2013) find that, during the period from the early 1990s and late 2000s, urbanization can explain
about 54% of the increase in inequality in Indonesia and 14% in India, but helped reduce inequality in the PRC.

Figure 7: Inequalities in provincial per capita incomes in selected Asian economies, 1990–2010

PRC = People’s Republic of China.
Note: Gini coefficients are weighted by group population.
Source: The authors’ estimates using province-level data for the PRC and the Philippines from the CEIC database (accessed 5 March 2012) and data for India from the Ministry of Statistics and Programme Implementation (accessed 5 March 2012).

Regional inequality has also been a key contributor to total inequality in many Asian countries, particularly in the PRC and India (Figure 7). Notably for the PRC, in 1990–2003, regional inequality increased more or less concurrently with overall inequality.

In the PRC, there appears to be a general consensus that increased openness contributed to sharpening income disparities between coastal and interior regions. As Lin (2005) noted, an important feature of the country’s global integration is the depth of concentration of international trade along the east coast—which has far lower transport costs to the country’s major markets such as Hong Kong, China; Europe; Japan; and the United States. Since 2003, the PRC’s regional inequality has declined somewhat. This has been partly attributed to the government’s Great Western Development Strategy (Fan, Kanbur, and Zhang 2011).
In India, coastal states have also fared better than inland states, although here a set of compounding factors such as initial level of human capital and public infrastructure is also important (Kanbur, Gajwani, and Zhang 2007). New private sector industrial investments typically take place in existing industrial and coastal districts to reduce costs, and overall investments have become more concentrated.

More generally, the interplay between market-oriented reforms and economies of agglomeration appear to have given certain regions within countries an edge when it comes to economic growth. Indeed, this interplay has been linked to increasing inequality in Southeast Asia and East Asia’s middle-income economies (Gill and Kharas 2007). Figure 8 provides decomposition results for regional inequality in selected Asian countries. Between-region inequality can explain 20%-30% of the national inequality in the late 2000s in Bhutan, the Philippines, and Viet Nam, and 10%-15% in the PRC, Indonesia, India, and Sri Lanka.

**Figure 8: Income inequality decomposition, province/region**

![Graph showing decomposition results for regional inequality in selected Asian countries](image)

BHU = Bhutan, IND = India, INO = Indonesia, PAK = Pakistan, PHI = Philippines, PRC = People’s Republic of China, SRI = Sri Lanka, VIE = Viet Nam.

Note: Estimates are based on per capita expenditure in nominal terms. Decomposition is based on GE(0), which is a special form of the generalized entropy index.

Source: The authors’ estimates using household survey data.
Combining the two components of spatial inequality and calculating the fraction of total inequality explained by rural–urban and interregional (provinces or states) divides, we see a share of more than half for the PRC (Figure 9).

**Figure 9: Combined contribution of spatial inequality to overall inequality in selected Asian countries**

![Bar chart showing combined contribution of spatial inequality to overall inequality in selected Asian countries.](chart.png)

**Source:** The authors’ estimates using household survey data.

In sum, the widening gaps between provinces and states, on the one hand, and between urban and rural areas, on the other, provide and will provide the geographic driver of inequality in Asia. These divides are important in themselves and because they account for a significant proportion of observed inequality in Asian countries. The driver of inequality in the spatial dimension is the interaction between new opportunities through trade, technology, and market-oriented reform, interacting with the structure of geography and infrastructure. The rise in spatial inequality is not a reason to reverse openness and technological progress, or stop the reform process, but rather to reorient infrastructure investment to lagging regions, and to remove barriers to migration to the fast-growing regions.
(d) Widening wealth inequality

Wealth distribution is usually more unequal than income distribution. Rising wealth inequality has likely also been a major contributor to the rising income inequality in the PRC, although it has not been studied as extensively as income inequality and other income inequality drivers, because of the data limitation. A recent study by Li and Wan (2015) find that between 2002 and 2010, per capita household wealth (including land, housing, financial assets, and other physical capital) increased by 4.1 times, and its Gini coefficient increased from 55 to 73.9. A major contributing factor to the rising wealth distribution has been rising housing prices.

Figure 10 plots various estimates of the Gini coefficient of per capita net household wealth from 1988 to 2012 for the entire PRC, urban PRC, and rural PRC. It shows that wealth distribution has become more and more unequal in the PRC. For the PRC as a whole, the wealth Gini coefficient increased from 34 in 1988 to 73 in 2012. For urban PRC, it increased from about 50 in mid-1990 to 63 in 2010. For rural PRC, it increased from 31 in 1988 to 71 in 2010.

Figure 10: Gini coefficient of per capita net household wealth, PRC, 1988–2012

PRC=People’s Republic of China
Source: Li, Wan, and Xie (2015)
5. How to respond to rising inequality—promoting inclusive growth

Because the forces behind rising inequality are also the engines of productivity and income growth, policy makers should not hinder their progress. A distinction needs to be made between the income differences that arise as economies and individuals take advantage of the new opportunities of technology, trade, and efficiency-enhancing reforms; and those that are generated by unequal access to market opportunities and public services. This latter source of inequality requires a policy response since it gets magnified by the driving forces of growth, leads to inefficiency, and undermines the sustainability of growth.

Based on these considerations, Zhuang and Ali (2010) propose an inclusive growth strategy to respond to rising income inequality in Asia. They define inclusive growth as “growth with equality of opportunity”, argue that an inclusive growth strategy should focus on both expanding economic opportunity and ensuring equal access to it, and that it should have the following policy pillars:

- Sustaining robust economic growth. A large percentage of people in Asia are employed in the informal sector, and tens of millions of workers are set to join the region’s labor force each year in the coming decades. Robust economic growth is needed for job creation. But to be inclusive, growth must provide decent, productive jobs for a wide spectrum of the population and expand economic opportunity for all.

- Promoting social inclusion. Every person must have equal access to opportunity. In many Asian economies, large portions of populations cannot benefit from economic opportunity created by growth for reasons beyond their control. Ensuring equal access to opportunity requires, on the one hand, investing in education and health care, especially for the disadvantaged, to enhance human capacities; and on the other hand, correcting market and institutional failures and eliminating social exclusion to level the playing field.
• Developing social safety nets. Programs are needed to mitigate the risks and vulnerabilities associated with transitory shocks to livelihoods that often are caused by ill health, economic crises, industrial restructuring, or natural disaster. Programs that cater to the special needs of the disadvantaged and chronically poor also are needed to prevent poverty.

• Mobilizing more fiscal revenues. Greater spending on education and health and social protection programs requires Asian governments to mobilize more fiscal revenues to ensure fiscal sustainability. In many Asian countries, there is large room for greater revenue mobilization by improving tax administration and introducing taxes that are inherently progressive such as those on capital gains, properties, and inheritance—which also help to reduce wealth inequality.

• Promoting good governance and sound institutions. Each of the above pillars and their implementation must be supported by good governance and sound institutions.

(a) Creating productive jobs through robust economic growth

For the benefits of economic growth to be widespread, it must generate ample productive employment—the most important opportunity for human beings. Greater job creation will increase labor demand and hence labor’s share in national income. Job creation, therefore, should be at the core of any country’s inclusive growth strategy and at the top of its policy agenda. Achieving this goal in Asia remains a daunting task. An ADB Institute study (ADBI, 2014) looked at the challenge of job creation in 12 Asian countries including China, India and 10 ASEAN members, and found that more than half of their employment, amounting to 800 million in total, can be classified as vulnerable under the International Labour Organization (ILO) definition. The study also showed that, between 2020-2030, the combined labor force of these countries will expand by more than 10 million workers per year.
To create more jobs, Asian countries must maintain enabling environments for business investment and private entrepreneurship by eliminating impediments due to failures of markets, institutions, and policies. This requires investment in physical infrastructure and human capital, development of institutional capacity, maintaining macroeconomic stability, adopting market-friendly policies, protection of property rights, and enforcement of the rule of law. In setting policy priorities, governments must identify the binding constraints to growth and target their efforts and resources to ease them. Governments should also pay attention not only to the pace of economic growth, but also to its pattern to ensure that it is broadly based (Ianchovichina and Lundstrom 2009).

High growth will have to be driven by dynamic private sectors. But to attain full employment, the role of government will also be critical. Felipe (2009) proposes five sets of government policies to achieve the full employment of the labor force. First, governments must redress the neglect of agriculture. Second, they should target high-employment public investment projects in basic infrastructure such as energy, transport, and urban services. Third, they should collaborate with the private sector on policies to accelerate industrialization and structural transformation. Fourth, governments should gear fiscal and monetary policies to the achievement of full employment. Fifth, they should devise job guarantee programs to ensure full employment with price stability.

(b) Broadening opportunities by investing in education and health

An effective way to reduce inequality and promote social inclusion is to enhance human capabilities, especially those of disadvantaged groups, by investing in education, health care, and other basic public services. Education improves labor productivity, facilitates technological innovation, increases return on capital, and helps improve health outcomes. Empirical studies find that basic education enables farmers to switch from traditional to more productive methods, and from farming to other more rewarding professions (Brooks et al. 2010). Similarly, good health can improve growth by boosting accumulation of human capital. The large gaps in education attainment and health
indicators for many Asian countries compared with those of developed countries as well as differences within the region suggest Asian countries have much to do.

Governments—both central and local—have a critical role to play in investing in education and health because these services are public goods and have a strong external impact. In 2010, public spending on education was about 3% of GDP for developing Asia as a whole, far less than 5.5% for Latin America and Caribbean and 5.3% for OECD countries; public spending on health was 2.4% of GDP for developing Asia, compared with 3.8% for Latin America and Caribbean and 8.1% for OECD countries (ADB 2014). Although public spending on education and health has increased in developing Asia in recent years, the gaps remain large.

In addition to providing adequate funding, governments should also ensure strong institutional capacity, sound policy frameworks, and good governance of health and education services. Governments also need to allocate resources equitably, such as among primary, secondary, and tertiary schools and between primary health care facilities in rural areas, tertiary hospitals in cities, and prevention and treatment programs. Public investment must be complemented by supply-side policies to ensure the efficiency and quality of public services and demand-side policies to avoid moral hazard behavior and waste. More innovative delivery mechanisms, such as the use of conditional cash transfers, non-government organizations in services contracting, and vouchers and contract teachers in delivering basic education services, can be explored to ensure that the poor and disadvantaged groups are not excluded in access to public services (Brooks et al. 2010).

(c) Preventing poverty with social safety nets

Inclusive growth also requires social safety nets that mitigate the effects of external and transitory livelihood shocks and to meet the minimum needs of the chronically poor. Exposure to such risks can have a profound and long-lasting impact on human well-being. Social safety nets not only help the poor and vulnerable cope with the above risks. They can also play a role in improving human capital
in the long run, which makes opportunities more accessible to those with limited assets and capabilities (Brooks et al. 2010). In 2010, public spending on social protection was 6.2% of GDP for developing Asia as a whole, compared with 12% for Latin America and Caribbean and 20% for OECD countries.

Social safety nets come in a variety of forms. Labor market policies and programs aim to reduce risks associated with unemployment, underemployment, or low wages that result from inappropriate skills in the workforce or poorly functioning labor markets. A range of social insurance programs, such as pensions and health or unemployment insurance, cushion risks associated with unemployment, ill health, disability, work-related injuries, and old age. Social assistance schemes such as welfare programs, social services, and cash or in-kind transfers are aimed at assisting single-parent households, victims of natural disasters or civil conflicts, the disabled, and other vulnerable groups. Other programs promote healthy and productive development of children by providing services such as early childhood development, school meals, scholarships, free or subsidized health care for mothers and children, and family allowances or credit (Ali and Zhuang 2007). A growing body of empirical evidence suggests that social protection schemes have significant impacts on poverty, inequality and human development (Skoufias 2001; Soares et al. 2006).

Making social protection programs more targeted toward the poor is a key issue for many Asian countries. Affordability is often raised as an issue when a country tries to expand safety nets. Yet studies assert that the costs of basic universal social protection are not beyond the reach of most developing countries (Ortiz and Yablonski 2010). The United Nations Department of Economic and Social Affairs estimates that a universal social pension scheme designed to keep the elderly above the $1-a-day poverty line costs less than 0.5% of GDP in most countries (UN 2007). Another study by the ILO argues that virtually all countries can afford some form of basic social security (ILO 2008). Affordability, therefore, may depend on a country’s willingness to finance social protection schemes.
(d) Mobilizing more fiscal revenues through tax reforms

To increase public spending on education, health and social protection to enhance inclusion, and at the same time to ensure fiscal sustainability, Asia needs to expand and strengthen its fiscal revenue base. In 2010, total fiscal revenue as % of GDP was about 20% for developing Asia, compared with 25% in Latin America and more than 28% for OECD (ADB 2014). Many governments in the region have made efforts to increase fiscal revenues through tax reforms, but more needs to be done.

Greater mobilization of fiscal revenues requires exploring a wide range of options. Options include broadening the base for personal income tax and value-added tax (VAT), enlarging corrective taxes and nontax revenues, and introducing naturally progressive taxes on property, capital gains, and inheritance. Broadening the base for personal income tax and VAT offers scope for raising more revenues. This can be done by reducing various exemptions, deductions, and tax incentives. For some Asian countries, lowering income thresholds for the higher tax rates can get more personal income tax revenues. Expanding VAT—or introducing one where it does not exist—generates revenue efficiently. Using additional revenues from VAT for public social spending can make this regressive tax progressive on balance. Corrective taxes and nontax revenues can promote efficiency and equity while raising revenue. Taxing property, capital gains, and inheritance can make the tax structure more progressive and equitable.

(e) Strengthening governance and institutions

Promoting good governance and sound institutions has been a key focus in development policy discussions in recent years and should also be a critical component of an inclusive growth strategy. Poor governance and weak institutions lead to unequal access to opportunities and public services, allow corruption and rent seeking activities to prevail, and create social exclusion and injustice, all contributing to inequality. Good governance and sound institutions not only have intrinsic value, but also have instrumental value as they are a key precondition for sustained economic growth and prosperity (Acemoglu and Robinson 2012).
Asian countries have made significant progress in strengthening governance and institutions in recent years. Going forward, a tailored approach to governance reform can be followed to maximize development impact. As development goals in themselves, all dimensions of governance should be pursued. But the stage dependency of the governance–development nexus calls for prioritization. Policymakers need to focus their efforts on the particular governance deficiencies that hold their country back from its next stage of development. Growth-supporting aspects of governance take center stage for low-income economies. Strengthening government effectiveness, improving regulatory quality and rule of law, and scaling up control of corruption provide entry points to wider governance reform.

For middle-income economies, maintaining an environment supportive of growth is important, but policy must also respond to the rising aspirations of the populace. As their incomes improve and access to technology expands, citizens will demand greater say in national affairs. Moving to even higher income entails improving governance quality with respect to participation and accountability.

It is encouraging that more and more developing Asian countries are embracing the concept of inclusive growth, with an increasing number of countries—including the PRC, India, and many Southeast Asian countries—placing inclusive growth at the heart of their development policy, as reflected in their recent medium-term development plans. Indeed, the entire development community is embracing the concept of inclusive growth. These developments will go a long way toward reducing poverty and inequality and making the world a more equitable place.
References


