

IS IT AFRICA'S TURN?

Progress in the world's poorest region

Edward Miguel

Things were certainly looking up when I last visited Busia, a small city in Kenya, in mid-2007. Busia, home to about 60,000 residents, spans Kenya's western border with Uganda: half the town sits on the Kenyan side and half in Uganda. As befits a border town, Busia is well endowed with gas stations, seedy bars, and hotels catering to the truckers who spend the night on the way from Nairobi to Uganda.

When I visited last June, the city was experiencing an economic renaissance. Busia's first supermarkets, ATMs, Internet cafés, and car rental businesses were all open, and residential suburbs had formed on the edge of town. The small *dukas*—shops selling home food supplies and airtime for now-omnipresent cell phones—were freshly painted with advertisements for local dairy products. And most importantly, the road from Kisumu, the economic hub of the region and Kenya's third largest city, to Busia had become a paved, two-lane highway all the way to the border, expediting trade with Uganda's productive factories and farmers.

Yet, barely a decade ago, poverty and desperation were pervasive there, as in all of western Kenya. Primary-school enrollment rates had fallen throughout the 1990s, public health surveys in 1997 showed that the HIV infection rate might be upwards of 30 percent among pregnant women, and the road into Uganda—the lifeblood of a border town and one of Kenya's critical international trade arteries—was falling apart. Long stretches of the drive from Kisumu were nearly impassable due to moon-crater potholes; cars hugged the side of the road or slalomed across the remaining patches of asphalt. Eastbound and westbound vehicles alternated control over the pavement, setting a deadly stage, especially at night, for road accidents, as oil tankers and buses sped in opposite directions.

I have visited Busia every year since 1997 to help local development-oriented nonprofit organizations design and evaluate their rural programs. In so doing, I have been exposed to impressive changes that are mirrored throughout the country. Kenyan economic growth rates surged between 2002 and 2007, achieving levels not seen since the 1970s. Last summer Nairobi's never-ending traffic jams of imported Japanese cars were but one tangible indication that Kenyans were suddenly on the move. Construction projects were everywhere, as developers took advantage of the unexpected spike in land values. New productive sectors, like same-day cut flower exports to Europe, employed tens of thousands of workers. Like a fever that had suddenly broken, the



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resignation and fear of the 1990s were replaced by energy, optimism, and a feeling that there was no time to lose.

But that feeling dissipated quickly in the weeks following Kenya's disputed December 27, 2007 presidential election. The incumbent president Mwai Kibaki was reelected, allegedly through heavy ballot-box rigging. The results, and subsequent violent opposition protests and ethnic clashes, surprised many Kenyans and most observers, who thought that the elections would be free and fair and that they would help Kenya turn the corner on its autocratic past. The government power-sharing deal that Kofi Annan negotiated between the government and opposition, after two months of bloodshed, has instilled tentative hope.

The recent violence in Kenya is a heartbreaking disappointment, but the Lazarus story I witnessed in Busia—though it may have been temporary—is being repeated in hundreds of cities, towns, and villages, not just in Kenya, but all over Africa. Economic growth rates are at historic highs and democratization appears finally to be taking root. The question emerges: Will Africa be the world's next development miracle?

In 2000, sub-Saharan Africa—that is, all of Africa, excluding North Africa, which represents only 15 percent of the continent's population—was at the end of an uninterrupted quarter century of economic and political failure, a downward tailspin that gave the world the 1984–85 Ethiopian famine and the 1994 Rwandan genocide and more recently blood diamonds and mass amputations in Sierra Leone. Africa ranked lowest in the world in just about every economic and social indicator, including public health, as one

might expect from the epicenter of the global HIV/AIDS epidemic.

Continuing the positive economic trends of the 1940s and '50s, many newly independent African countries saw improvements in the '60s. But these signs of advancement soon gave way to staggering reversals. After peaking around 1975, African per capita income steadily declined through 2000, with average living standards falling 20 percent. Kenya serves as a pretty close stand-in for the entire continent: the timing of its economic advance and decline differs only slightly, with incomes peaking slightly later. During the same period, two other once desperately poor regions carried out an economic transformation: Indian per capita incomes doubled and Chinese levels rose four-fold.

The academic debate on what went wrong in Africa at the end of the twentieth century is extensive, but the leading culprits seem to be bad economic policy and weak state institutions. Here, though, I am more concerned with what has gone right since 2000, the turnaround in economic performance that has lifted African per capita income levels close to their all-time highs. Africa's recovery may still be modest by China and India's standards (average annual per capita income growth for all sub-Saharan Africa has been at about 3 percent between 2000 and 2007), but it constitutes a clear break from the past, and it is now possible to wonder whether the terrible decades of war, famine, and despair are finally over. Several continent-wide trends suggest reasons to hope that they are.

Sub-Saharan Africa has become much more democratic since 1991, and this change has brought new faces into power

and challenged old ways of doing business in the halls of government. Although Kenya's recent stolen election was a huge step backwards, there was a time not long ago when opposition parties were not even allowed to contest African elections, and all private media outlets were banned.

Freedom House, an independent nonprofit organization, produces a commonly used index of democratic freedoms, assigning values from one (most democratic) to seven (least). In the 1970s and '80s most counties in Africa averaged democracy scores hovering around six, a level at which political freedoms are basically nonexistent, dissident speech is violently repressed, and elections—if they are even held—are mainly for show.

Starting in 1991, however, citizens in dozens of African countries fought for political change. Some were inspired by the freedom wave then sweeping the Soviet bloc and the demise of Apartheid in South Africa. By 2007 the African Freedom House average had jumped to a four. Thus, the typical African country is still not as democratic as Sweden or India, but progress has been widespread and visible. Opposition parties are ubiquitous and open debate the norm in a growing number of African countries, putting them far ahead of the entrenched dictatorships in Asian economic stars like China and Vietnam in terms of developing free political institutions.

Until its recent relapse, Kenya had experienced an even more inspiring turnaround, from a Freedom House ranking of seven in 1995 to a three following the 2002 elections won by then-opposition leader Kibaki. Daniel arap Moi, a member of the Kalenjin ethnic group and a violent, polarizing, and autocratic ruler who became President in 1978, imprisoned and tortured hundreds of dissidents when he officially turned the country into a one-party state in the 1980s. By the 1990s Kenya's political institutions were every bit as corroded as the Kisumu-Busia highway.

Popular protests—buttressed by foreign donor pressure—forced Moi to hold Kenya's first competitive elections in a generation in 1992 and again in 1997. But neither election was fair; Moi held all the levers of state power and would never allow himself to lose. Ethnic clashes—most likely manufactured by the president himself—broke out before both polls and served to intimidate the opposition, which was already reeling from the blatantly pro-government electoral commission and biased state TV coverage. As the government looked the other way, tens of thousands of Kikuyu families were driven off their land in the Rift Valley by Kalenjin youth militias,

which saw (and continue to see) the Rift Valley as Kalenjins' ancestral homeland and birthright.

Kenya held another national election in 2007. But this time the political opposition—led by long-time dissident Raila Odinga, himself imprisoned for over eight years without trial by Moi—was leading opinion polls over the now-incumbent Kibaki, who came to power when Moi finally stepped down. Political coverage in flourishing independent newspapers, on radio, television, and the Internet was exhilarating and no-holds-barred. Peaceful protests were ubiquitous. As the incumbent party faced probable defeat in a second consecutive election, Kenya was starting to look like a real democracy.

But things did not work out the way they were supposed to. After Odinga moved ahead in the early election returns, Kenya's Electoral Commission delayed vote counting for two days before producing vote tallies that unexpectedly put President Kibaki in the lead. Many international observers, and even the Commission's own head, claimed rigging was the cause: in some of Kibaki's Kikuyu strongholds, the president received tens of thousands more votes than the total number of registered voters.

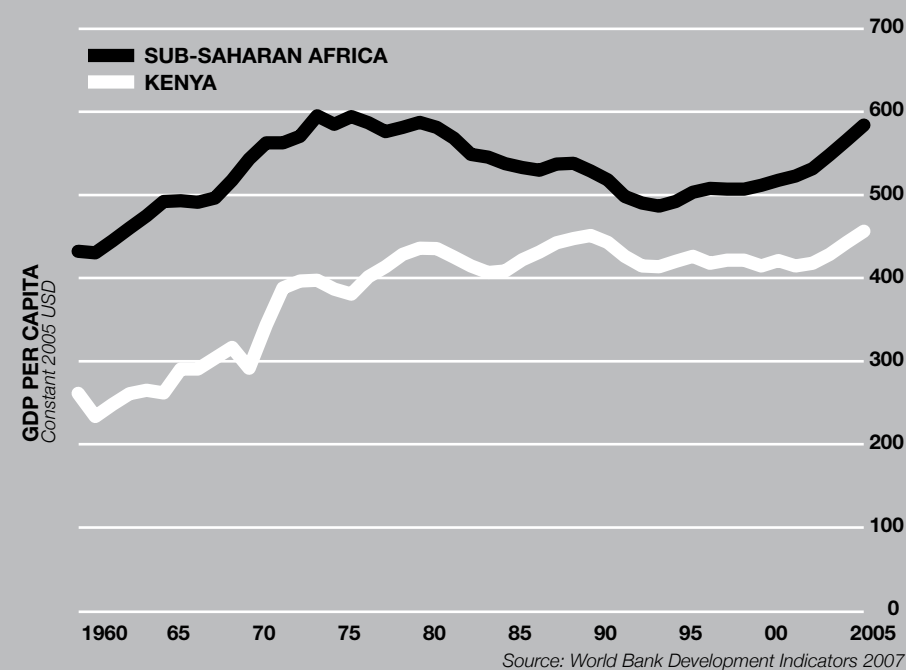
The result was massive opposition protests suppressed, often violently, by police. The post-election anger also provided a political opening for renewed Kalenjin-Kikuyu clashes in the multiethnic Rift Valley, the products of a dispute that had largely been on ice since the mid-1990s but was never settled. Hundreds of thousands of Kenyans of all ethnic groups, but disproportionately Kikuyus, were driven out of their homes after the election. A country lauded globally for hosting its troubled neighbors' refugees—from Ethiopia, Somalia, Sudan, and Uganda—suddenly had its own refugee camps. Kenya's success was apparently far more fragile than it seemed even six months ago.

While its Freedom House rating is sure to worsen following the rigged election, some of Kenya's recent democratic gains remain robust, as evidenced by the boisterous new opposition media that openly challenged the results, the mass opposition rallies, and the fact that Odinga's opposition party, despite losing the presidency, did manage to win control of parliament and force Kibaki to share power. These changes have been made possible by a new generation of Kenyan civil-society leaders, journalists, and anti-corruption campaigners who will not allow a return to one-party rule.

Are Africa's democratic reforms a partial explanation for its encouraging recent economic performance? Nobel Prize-winning economist Amartya Sen has famously described how democracy improved the Indian government's economic policies and, in particular, its response to famines. Although it is impossible to prove a causal link, there are good conceptual reasons to believe that democracy can sometimes play midwife to economic rebirth. Democratic elections force politicians to be more receptive to voters' needs: a free press means government policies are scrutinized and malfeasance investigated, and elections provide discipline for even the most venal or incompetent politicians. Get caught

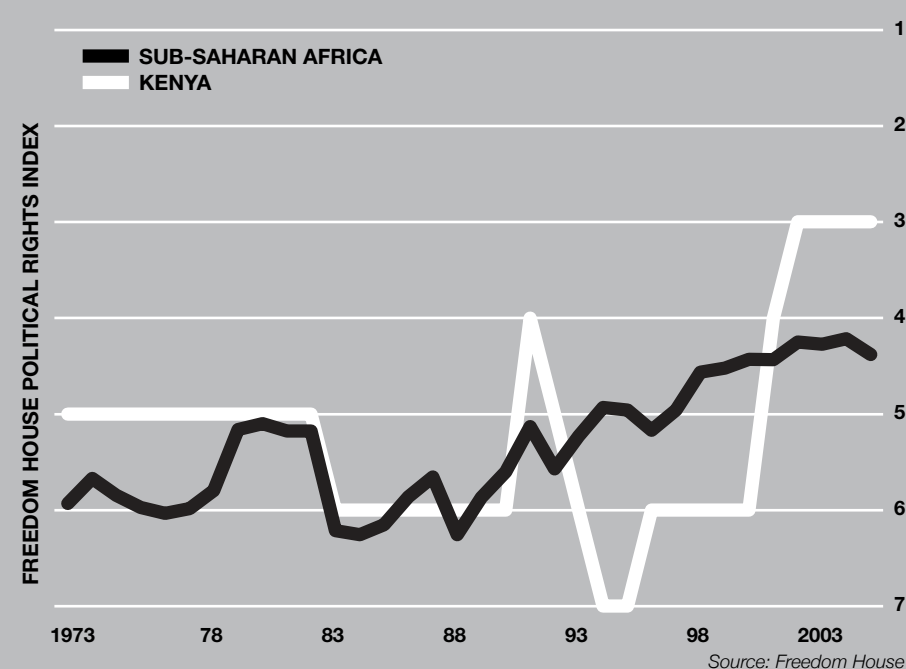
GDP Per Capita

Sub-Saharan Africa Overall and Kenya (1960 - 2006)



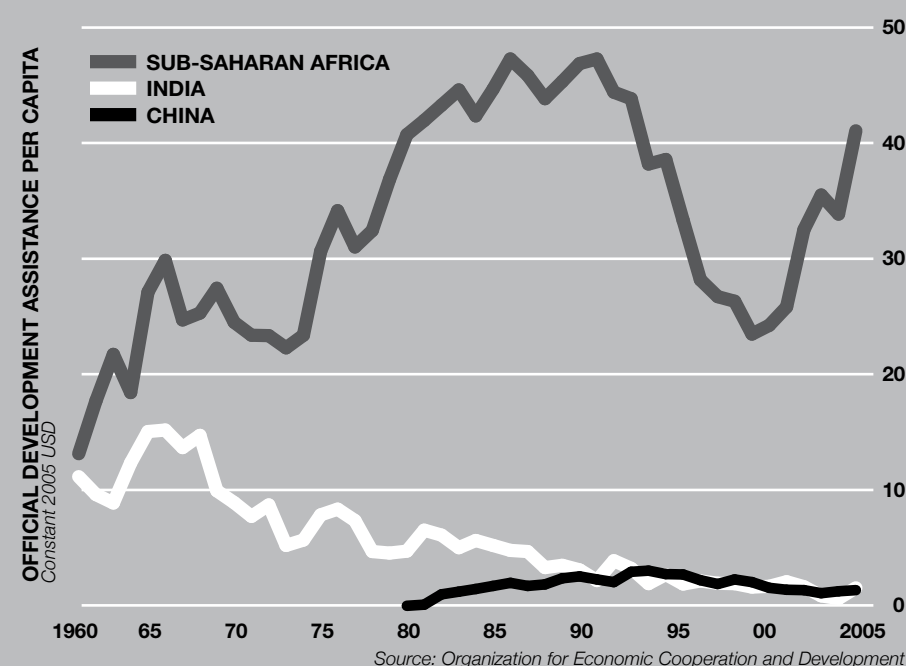
Political Rights

Sub-Saharan Africa Overall and Kenya (1973 - 2006)



Foreign Aid Per Capita

Sub-Saharan Africa, India, and China (1960 - 2005)



stealing and one is unlikely to return to a plum MP post. Africa's recent gains in both political freedom and economic growth could be connected.

As important as Africa's internal political and social changes may be, global economic conditions have also been critical, and in recent years nothing has been more salient than China's rise as an economic force.

China's miracle—from rice paddies to mag-lev trains in one generation—affects Africa in multiple ways. The first is through international trade. Total Asia-Africa trade increased to more than \$100 billion dollars in 2006 from trivial levels a decade earlier, and China has been partner to much of that gain. Rising commodity prices are a big part of the story. Global commodity prices for petroleum, minerals, and agricultural products have soared over the past five years as surging Asian demand meets limited world supplies.

Crude oil is the best-known example. Its price has more than tripled since 2000, depositing many more dollars in the coffers of the big African producers like Nigeria, Angola, Sudan, and Gabon. The petroleum for Asian factories and urban commuters has to come from somewhere, and Africa is filling the gaps.

But oil is not Africa's only significant export. The per-unit price of copper, used in factories and construction everywhere, soared from about \$70 to \$350 between June 2001 and June 2007, a boon to Zambia, Africa's largest producer. Kenya and its East African neighbors have benefited from coffee's rise. Prices have been frothy, jumping from \$41 per unit in 2001 to \$113 in 2007. This increase puts more money in the pockets of coffee farmers, many of whom are smallholders. The consensus is that hungry Chinese consumers are behind a big chunk of all these rising prices.

Gains in key export sectors sometimes help people who are not growing coffee or mining copper themselves. For instance, Kenya's Busia is not a coffee-producing region, but it still benefits from higher coffee prices. As coffee producers in central Kenya get richer, they buy more of Busia's fish and plantains, and also more Ugandan goods, sending ever more trucks (and truckers) laden with imports through the border city.

While rising demand for commodities is one way that Asia's economic boom helps to raise African living standards, China's economic involvement in Africa now goes far beyond arms-length imports and exports. Chinese firms have begun investing directly in African oil and mineral producers and in roads, dams, and telecommunications infrastructure. It is estimated that annual Chinese foreign direct investment in Africa surpassed the one billion dollar mark in 2005 and has continued to rise since. Shuttered factories and mines have been brought back to life and severed roads restored. The spread of cell phone technology has allowed rural African grain markets to function more efficiently, probably improving the lives of consumers, farmers, and traders alike.

No one knows the exact figures, but hundreds of thousands of Chinese work-

ers and entrepreneurs have also migrated to Africa in search of their fortunes. This new Afro-Chinese community—from telecom engineers to owners of small Asian restaurants and medicine shops—has been a striking new presence in my own recent travels in both West and East Africa.

Why have Chinese individuals and firms dived in when European and U.S. investors have largely shied away? In discussions with Chinese investors, it seems the key motive is simple: profit. Africa provides bountiful profit opportunities across multiple economic sectors for Chinese firms flush with cash from their boundless growth at home. Chinese investors also have a major advantage over their Western counterparts in that they know how to make money in a developing-country business environment where the rule of law is optional, corruption and bribery are the norm, and infrastructure is patchy. Their experiences at home give them a big leg up on the competition.

But the importing of Chinese business practices along with Chinese direct investment is not wholly positive for Africa. Take the example of Zambia's decrepit Chambishi mine, bought out by a Chinese state-owned enterprise and reopened in 2003 to great fanfare. Local support for the project quickly evaporated when brutal labor conditions came to light: workers were given inadequate safety equipment, paid below the national minimum wage, and denied days off—basically, working conditions similar to what many Chinese mine workers face. Perhaps in part due to disregard for worker safety, more than fifty workers died in a serious 2005 accident that shut down the Zambian mine.

A U.S. or U.K. firm with such an appalling safety record would probably face investigations, protests, or even boycotts back home, and the bad PR would likely push it to improve working conditions. Recall the uproar when awful conditions in Nike's Asian factories came to light. But Chinese firms are not subject to the same scrutiny as their Western counterparts with respect to worker, environmental, and human rights issues. The repressive political environment in the People's Republic ensures that Chinese firms never have to say they're sorry, and they thus have a far freer hand than Westerners to squeeze profits out of African workers. While the Chambishi copper mine eventually reopened, the belief that Chinese investment brings slave-labor conditions remains widespread in Zambia. Some have begun to ask whether Chinese investment is worse than no foreign investment at all, as it seems increasingly out of step with Africans' democratic aspirations.

Even more controversially, Chinese investors have taken the lead tapping into Sudan's rich crude oil reserves. Western energy firms have shunned the Khartoum regime as punishment for its support for the *janjaweed* militias that have massacred thousands of civilians in Darfur and displaced millions more. This has left the oil playing field to the Chinese alone, and they have responded by supplying the Sudanese government critical military assistance and diplomatic support at the United Nations. Ironically, Western

Grace

In the city spring burns its way out
of me any way it can. Mother, I've made
a list of all the lovely things you've done
for me so I can remember when I leave you.
The tiny fields of mandrake, the violet lawn
of hawkweed where the deer stares
with enormous splayed ears. Up high along
the cliff live the animals with spikes who climb
the hickory trees. I could go anytime now
and it would not be about the afterlife.
I will not be limited to truth. My mouth
will be hard against your forehead.

—Desirée Alvarez

sanctions have only strengthened China's bargaining position vis-à-vis Khartoum by eliminating the potential competition, boosting their profits.

Sudan is not the only oil producer receiving no-strings-attached Chinese investment and aid. Angola and Chad are two other recipients with questionable human rights credentials and some of the world's worst corruption. Given these countries' unscrupulous leaders and repressive politics, it is unclear whether expanded oil production will yield higher living standards any time soon.

Leaving controversial cases like these aside for the moment, China's economic rise has clearly benefited many millions of Africans, especially through growing trade and higher global commodity prices. And the billions in Chinese investment currently pouring into Africa hold out the possibility of better infrastructure and industrial development in the long run: in 2007, China committed another \$20 billion to finance trade and infrastructure development throughout Africa.

Beyond the rise of China, access to rich-country markets for agricultural exports is a key issue for African economies. In the past, the United States, European Union, and Japan have forcibly opened foreign markets to "free trade" in sectors where those wealthy economies have the competitive edge, while subsidizing their own inefficient farmers with hundreds of billions of dollars each year and using tariffs and quotas to keep foreign agriculture off our dinner tables. This is one of the most hypocritical of all international trade injustices but also one that seems impervious to reform efforts.

Cotton is an extreme example of how rich-country policies hinder African economic development. In recent years, 25,000 U.S. cotton farmers have received more than \$3 billion a year in government subsidies. The resulting surge in U.S. production floods global markets and drives down world cotton prices, hurting millions of poor cotton farmers in Benin, Burkina Faso, Mali, and Tanzania, for whom higher cotton prices would improve living standards. If U.S. policymakers are genuinely interested in keeping Africa's current

economic turnaround going, reducing agricultural subsidies to our domestic cotton farmers would be an obvious starting-point.

Recent history suggests that unilateral trade liberalization by rich countries can make a difference. In 2000 the United States enacted the African Growth and Opportunity Act (AGOA), which reduced tariff rates and lifted quotas on African textiles. It is credited with spurring textile production in a few African countries, including Kenya. A broader

opening of rich country markets could have even more profound benefits. Yet here China's growing economy creates tough competition for Africa. The 2005 expiration of the Multi-Fiber Agreement, which ended most textile and apparel quotas worldwide, allowed China's low-cost factories to compete freely with other textile producers for the first time, and China's share of rich-country markets has surged. Africa's textile producers have been among the main losers, and many of AGOA's initial gains have eroded.

The noncompetitiveness of African textiles is emblematic of a broader failure of the recent economic expansion. While natural resource and some agricultural exports have grown, industrial transformation is not driving Africa's growth: in most African countries, the manufacturing sector remains as small today as it was in 2000.

The role of foreign aid is one of the most contentious issues in development economics today. Champions of foreign aid like Jeffrey Sachs of Columbia University claim that dramatically boosting foreign aid is *the* key to breaking poor regions like sub-Saharan Africa out of their "poverty traps," situations in which countries' own poverty prevents them from bootstrapping their way to a better future. Sachs' position is that a large aid infusion will provide poor Africans with enough spare cash to save, invest, and finally grow on their own.

Opponents of increased foreign aid, led by Bill Easterly at NYU, point to the

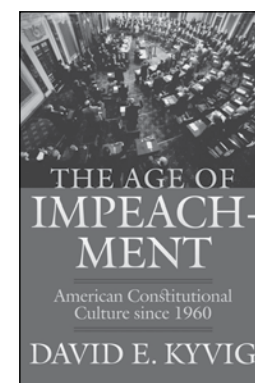
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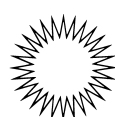
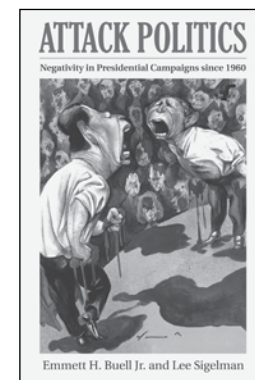
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fact that Africa remains desperately poor today despite the hundreds of billions of dollars of aid that have already been routed there. In other words, if there really was a poverty trap, the foreign aid already donated provided ample opportunity for Africans to break themselves out of it.

Many social science researchers have sought to establish foreign aid's causal impacts on economic growth, but there are still no definitive statistical answers. Yet a look at the raw data on foreign aid across regions and time suggests that aid has probably played a rather small role in Africa's recent economic success.

The first instructive comparison is Africa versus the world's two other poor giants, China and India, both of which were at African per capita income levels in the 1970s. It is striking how high foreign aid to Africa currently is in per capita terms: overseas development assistance is

a full order of magnitude higher in Africa than in China or India, as it was during the critical 1980–2000 period when those Asian countries moved forward economically and Africa declined. There is no doubt that foreign aid is not necessary for economic development.

Another issue is that foreign aid to Africa increased in the 1980s precisely when its economies started to collapse. You might wonder if foreign aid caused the collapse, but that probably would be inaccurate. Increased foreign aid flows could have been a response to the deteriorating economic circumstances. But this sort of concern makes it very difficult to understand foreign aid's impact. Foreign aid can affect economic growth but it also reacts to local economic conditions, and disentangling causes and effects in the statistics is hard.

A more promising way to get analytical leverage is to compare African

economic growth in the 1980s to that in the 1990s. At the tail end of the Cold War, levels of foreign aid to Africa were at historical highs, as the United States and the Soviet Union each plied countries with cash to win their diplomatic support in that grand struggle. Yet foreign aid to Africa fell off a cliff—by nearly 50 percent—between 1990 and 1995, when African countries lost their geopolitical significance. What was the impact of this sudden change, driven mainly by external political factors rather than in reaction to internal economic performance, on African economies? You could think of this kind of sharp, unexpected change as a natural experiment.

A close look at trends in African GDP per capita indicates that average African economic performance remained pretty much the same throughout the 1990s—stable stagnation, if you like—despite the sudden aid drop off. Once again it does not

appear that we should look to foreign aid to explain the key turning points in African economic growth performance.

These patterns certainly do not mean that all foreign aid is useless. There are many aspects of human wellbeing—in education and healthcare, for instance—that are affected by foreign aid but do not show up in short-run national income figures. The recent international campaign to fund anti-retroviral drugs is a dramatic example, and it has already saved thousands of African lives. Foreign aid can sometimes improve lives today without changing the bottom line or stimulating the economy as a whole. However, the lack of correspondence between aid and growth should make us more skeptical about simplistic claims that boosting foreign aid alone will break Africa out of its persistent poverty and lead to sustained economic progress. Healthy skepticism about foreign aid's benefits is particularly appropriate in countries where corruption remains widespread and much of whatever aid does arrive will be squandered.

Violence lies just below the surface of politics in poor countries and can derail economic gains. As Kenya illustrates, sub-Saharan Africa is no exception. In fact, African countries have suffered the greatest number of armed conflicts in the world over the past three decades: 70 percent have experienced at least one year of armed conflict since 1980. The damage tends to spill over into neighboring countries. Kenya's January 2008 political turmoil shut down the Kisumu-Busia highway, temporarily cutting off oil supplies into Uganda.

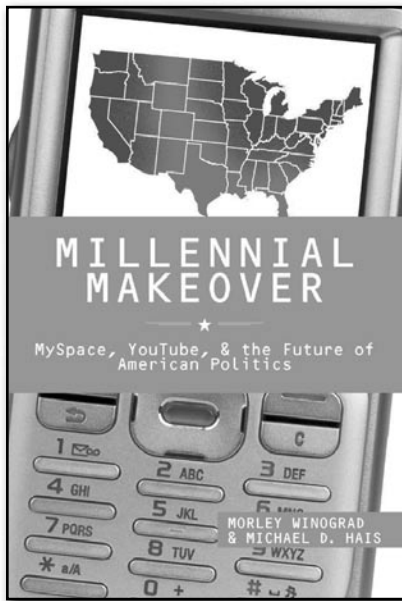
The past few years have seen some optimistic trends on the conflict front, but overall it is a mixed bag. The good news is that several of the most stubborn civil wars—including those in Angola, Liberia, and Sierra Leone—have finally come to an end since 2000, and the conflict in northern Uganda is moving toward resolution. Post-Apartheid South Africa has avoided a political explosion, at least for the time being.

And the postwar recoveries in many African countries such as Mozambique and Uganda show that some economies can quickly overcome the toxic legacies of armed strife. In the cases of Sierra Leone and Uganda, there are signs that the civil war has not permanently demoralized survivors. In fact, experiencing conflict's horrors seems to give some people the will to strive for a better society. Chris Blattman's field research among former Ugandan child soldiers finds that those abducted by the rebels are actually more politically engaged today than those who escaped, while my work with John Bellows shows that members of Sierra Leonean households that suffered violence are more likely to vote, participate in community meetings, and contribute to local school projects than their neighbors who were spared direct violence. These findings highlight the incredible resilience of African households.

Despite these success stories, the total proportion of African countries engaged in ongoing armed conflicts has not budged, remaining near 30 percent since 1995, as new conflicts, such as Côte d'Ivoire's, take the place of the old ones and old conflicts restart (Niger).

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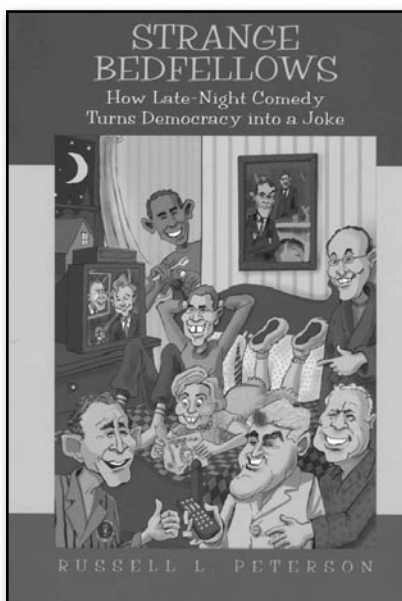
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The gravest threats, in my view, are the armed conflicts in Congo and Sudan, Africa's largest countries, bordering a combined total of fifteen other nations. African civil wars also have a history of eclipsing national frontiers: the Liberian civil war led to Sierra Leone's conflict, the Rwanda genocide provided the spark for Congo's current mess, and Sudan's Darfur conflict has already rekindled Chad's long-simmering civil war. Unless the wars in Congo and Sudan end, they will soon threaten Africa's new democracies and economic success stories.

There is growing evidence that African civil violence can be precipitated by adverse economic conditions, and in particular by sharp drops in national income. Of course, this is not always the case: Kenya's crisis broke out during good economic times. But more often than not, extreme poverty breeds desperation and makes taking part in organized violence or crime more attractive. Exploiting two different natural experiments, researchers find that external factors that hurt African economies can set off armed conflict. Large drops in rainfall levels—which lead to economic collapse in agrarian societies—and reductions in key commodity prices have both been linked to the outbreak of civil conflict.

If the economic growth of the last seven years continues for another decade or two, African countries will be considerably richer and more diversified and thus at less risk of falling into conflict. But in the meantime, sudden economic shocks linked to weather or commodity prices are a tremendous risk factor.

Rather than waiting until conflicts arise, we might target foreign aid to vulnerable countries beforehand. I call this attempt to bolster fragile states in their most trying years, "rapid conflict prevention support" or RCPS. Tracking current rainfall levels and commodity price movements is a good way to figure out which countries should receive the aid. The hope is that using more of the existing foreign aid pool as *insurance* for the poorest African countries in this way could pay off by preventing armed conflicts that jeopardize whole regions. I do not think RCPS insurance should (or could) entirely replace traditional aid focused on infrastructure, health, or education. But given that the fruits of so much foreign assistance are currently destroyed by armed conflict, or diverted to humanitarian relief after wars have already broken out, RCPS is a natural complement to standard foreign assistance.

An existing program that provides drought assistance to farmers in Botswana shows that an RCPS insurance mechanism can work. Drought is a frequent visitor to Botswana, as in much of the semiarid tropics. Starting in the 1970s, the government implemented the groundbreaking Drought Relief Program (DRP) to help its people cope through dry periods. The DRP consists of direct income support for rural households in these years, including both public works employment and food aid for the most vulnerable farmers.

It is estimated that up to 60 percent of rural Botswanans received some DRP assistance during the country's severe mid-1980s drought. (To put that in perspective,

Medicaid, the largest U.S. social program providing health care for poor families, covers only 13 percent of the population.) In those difficult years, DRP helped preserve social stability by keeping rural poverty and income inequality in check.

But Botswana's government probably got its money's worth: the country has not had a single year of armed conflict since independence in the 1960s. Botswana has been Africa's economic superstar for the past forty years, and former Botswana president Quett Masire told me he thinks the drought insurance played an important role in its success. This agricultural insurance program is part of the social contract between the people of Botswana and their democratically elected government. It helps maintain peace and prosperity in one small corner of sub-Saharan Africa. Other African countries at risk of drought could benefit by following in Botswana's footsteps with similar programs.

Unfortunately, the risk of drought might be increasing. Half a world away from Botswana or Sudan, China's manufacturing boom may as well be on another planet but for one thing: the lives of African peasant farmers and Chinese factory workers—and everyone else on the globe—are connected by our collective effect on Earth's climate. For poor African farmers, weather determines whether the next harvest will yield enough food to eat. What comes out of factory smokestacks in China could literally be a matter of life and death if changing global weather means less rain for Africa, leading to poverty and war.

China's modern economic growth is fuelled by burning coal, gas, and oil. Between 2002 and 2004, energy use in China increased by a staggering 33 percent, and China became the world's biggest greenhouse-gas polluter in 2007. Together, China and the United States account for over 40 percent of global CO₂ emissions, the main culprit behind global warming.

The most recent UN report predicts that temperatures worldwide will increase anywhere from 2.0°F to 11.5°F (1.1°C to 6.4°C) during the twenty-first century. While this rise in temperatures will have a major impact on agriculture, for those of us living in advanced, post-industrial—and air-conditioned—societies like the United States, what do higher temperatures really mean? Perhaps a slightly bigger electric bill at the end of each summer month (counterbalanced with smaller heating bills in winter). Some parts of the United States may be buffeted by stronger hurricanes and tornadoes, but climate change in this range won't be catastrophic for most rich countries. Silicon Valley's idea factories and New York's investment banks will keep on humming even if it is a few degrees warmer outside.

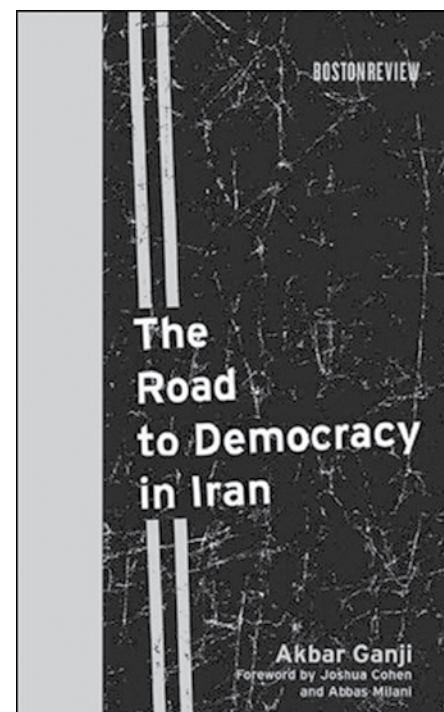
But not so for Sudan, Chad, or their neighbors. Several leading international climate scientists predict that conditions will get worse in Africa's Sahel, a parched stretch of earth containing Chad and Niger, as well as parts of Sudan, Mali, Senegal, and their neighbors. The Sahel is home to over one hundred million of the world's poorest people. Average annual per capita income in the fifteen Sahelian countries is only \$346, and the entire re-

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gion is racked by political instability and warfare. Princeton University's Geophysical Fluid Dynamics Laboratory (GFDL) has developed a climate model that offers dire forecasts, predicting that average temperatures in the Sahel could rise 6.3°F (3.5°C) and rainfall could drop by 24 percent over the next eighty years. So there will be less rain and what little does fall will evaporate more quickly due to higher temperatures. One of the driest places on earth may get even drier. If its fragile soils turn into desert sand, the region's economic situation could grow worse. It is the cruelest of ironies that the poorest people in the world—in the region least able to deal with extreme weather—could be the biggest losers in the global climate change lottery.

Not all climate models produce the same bleak forecasts as that of the GFDL researchers. But given the potentially disastrous consequences for the people of the Sahel, it is worth planning for the worst through new aid policies like RCPS, as well as more research into drought-resistant crop varieties suited to the region.

Looking back at Africa's first four decades of independence, it seems that everyone—including Africans themselves—were far too optimistic about how their economic and political fortunes would play out.

With a few notable exceptions (such as Ethiopia), African nations were inventions of the colonial powers, lines on maps with little real historical or social meaning. (Does “the Central African Republic” sound to you like a name people chose for themselves to express their national identity, or one imposed by a colonial bureaucrat?) Colonizers placed strict limitations on African political participation prior to independence, which impeded the development of genuine local politics. A few African countries, like Ghana, had strong independence movements, but in most cases, especially in Francophone Africa, independence simply dropped into people's laps.

It should not be surprising that it is taking a full generation or more for real nationhood to take root in these infant countries. Everything started from scratch after independence. Politicians had to figure out how to forge political compromises across class, regional, gender, linguistic, tribal, and religious lines. History and civics textbooks needed to be written. Citizens had to come up with their own national narratives and heroes. Creating new identities and institutions is not something that foreign colonizers, aid donors, or the IMF and World Bank are willing or able to do. That kind of transformation demands visionary leaders, who have too often been lacking in Africa, or have themselves been victims of political violence. Further complicating matters, leaders and citizens trying to assemble structures of civic life must contend with the immediate economic imperatives of boosting agricultural productivity, educating the workforce, and building a modern transportation infrastructure.

Historically, the process of creating viable nations has been costly in time and blood. The closest parallel to Africa's painful post-colonial transition is probably Latin America's trajectory after its

Torso of an Unknown Soldier

1

Those in their headless, historical poses, some without sex or dedications, stood white, eclipsed from flash photography. And the teenage boys smelling of deodorant walked through them and the boys' mothers with tortoise-rimmed glasses walked closer.

A statue is disheveled by its context, or an unknown date of origin. Context: the extent to which things become personalized. Its marbled sternum, her lotioned arms, an hour glimpse of the century before the first century.

2

I must admit I cannot escape dreams where I am driving. I know I've written this a hundred times, but it's the potential for the car stopping in the middle of the intersection that keeps me from waking.

I've lost hope for immortality: when the bits of windshield hail into my eyes time does not stop.

My torso belted into this landscape, a tide of navy blue ribbon stealing the focus of the dream, pulled taut.

3

A chiseled body is the merciless body, a representation of a rower without his oar sitting with his fishlined back. The first time the rower broke his body he was no longer a child. A child failing to drink milk from a bottle in a rocking canoe.

4

The reality is that the dream-body is out-of-proportion with the moving-body because the moving-body is more accurate in its imitation of the dreaming-body. Today mail was delivered, but no letters from you and I still had to go out to receive it. When I stretch my body to shred the grocery fliers walls from the waking-world pull my limbs to four corners like the face of a compass in transit. Consciousness: both bodies as the opus of one body.

5

I try to imagine a landscape for a funeral of your younger moving-body, but there are only cirrus-shaped faces hiding from a camera. Women wrapped in scarves on a summer day, the pathos of tattooing a red heart onto the surface of the chest. The camera automatically enters sleep mode and stops operating if not used in approximately three minutes.

Now it is the camera dreaming beside me and not your sleeping body.

6

The torso, so frequently sculpted, holds the implied heart. The soldier's torso covers my torso like the flaps of a vest. If I wish to suffer in your body as I am wearing your torso I must stand on a short pedestal to level our heights.

When I encircle the torso of a soldier, the crowds circle us like half-crumbled ruins and I know we will never share the same suffering. Walking is a prayer in favor of the body.

—*Bridgette Bates*

independence from Spain and Portugal in the 1810s and 1820s. Like twentieth-century Africa, the newly free Latin American republics suffered many decades of civil and international wars, economic stagnation, and political repression before finally establishing stronger states in the late 1800s. These nineteenth century Latin American conflicts were as devastating as the worst African wars, if not more so: in the 1864–1870 War of the Triple Alliance, Argentine, Brazilian, and Uruguayan troops killed over half the prewar population of Paraguay, as they snatched chunks of its land. The comparison with the Democratic Republic of Congo's ongoing conflict—which has lured troops from at least five of its neighbors, all grabbing at Congo's mineral trove and leaving millions of civilians dead—is irresistible.

Nation-building has never happened overnight, and that includes the United States. Our own brutal civil war took place eighty years after independence from Britain, and it was not until after that transformative war that the United States became a genuine economic and military power. After its forced opening to the outside world in 1853, Japan suffered three decades of political instability and economic stagnation before it too found its institutional footing and started on its unprecedented path of economic development.

For the first time in a long while, there is genuine hope today that Africa is on the path to real economic and political progress, and may finally catch up to the rest of the world economy. International trade is rising, better roads and new technologies like cell phones are improving millions of lives, and more countries than ever are turning to democracy. The economic boom and political opening I witnessed in Kenya shows what is possible.

Unfortunately, the latest Kenyan crisis also reinforces the point that Africa is not yet over the hump. The fact that post-election violence could engulf East Africa's richest and most democratic country overnight—and so readily threaten the past decade's strides—highlights how fragile its gains really were. Kenya is one country out of more than forty in sub-Saharan Africa, so it would not be right to over-interpret events there. But sadly Kenya is not alone: Côte d'Ivoire and Zimbabwe, two of Africa's most prosperous and stable countries in the early 1990s, have also imploded in bloody political conflict. Other African countries, too, may be just one contested election, one drought year, one plummeting commodity price, or a global economic recession away from similar meltdowns.

It is still too early to know if Africa's time is now. In the meantime, international efforts to reduce western farm subsidies, use foreign aid as insurance against conflict risk in the most vulnerable countries, end the wars in Darfur and Congo, and promote agricultural adaptation to climate change are concrete steps that may help solidify Africa's nascent transformation. ♦

The author has prepared an appendix of resources that provide background for the issues discussed in his article. You can see it at www.bostonreview.net.

'There is economic growth, but the structures of Africa's economies remain unaltered'

Robert Bates



CHRISTOPHER HERWIG

In 1997 the Africa Economic Research Consortium—a network of professional economists, headquartered in Nairobi, but ramifying throughout Africa—launched a study of the continent's economic performance in the post-independence period. In 2007, it published the two-volume product of this effort, *The Political Economy of Economic Growth in Africa, 1960–2000*. Among its many findings is one highly relevant here: An understanding of the economics of Africa requires an understanding of its politics. I participated in the project, and as it was coming to an end, I asked myself: Were we now to address Africa in the period since the year 2000, would we find it much changed? The answer was a resounding “Yes!” In his essay, Edward Miguel highlights several reasons why.

Since the mid-1990s, the economies of Africa have grown, and all who experienced the misery of the collapses of the 1970s will rejoice at this. Peace has returned in Liberia, Rwanda, and Sierra Leone; all will celebrate this change as well. Governments in Africa now periodically contest elections. As Miguel suggests, for the first time in decades, Africa appears to

enjoy the prospects of prosperity, peace, and good governance.

But Miguel overlooks some reasons for Africa's new prosperity. And I am more skeptical than he concerning the stability of Africa's politics and the quality of its governance.

Miguel rightly notes the impact of economic growth in India and China on Africa's economies. He fails, however, to stress three other factors.

One is the re-integration of South Africa—and its economy—into the African continent. With the fall of apartheid came a surge of private capital northward as South African firms invested in commerce, brewing, mining, and banking elsewhere in Africa.

Africa's emigrants have also contributed to the growth of its economies. The collapse of Africa's economies in the 1970s and 1980s led to the flight of citizens abroad. The subsequent flow of funds from these expatriates now contributes to the continent's prosperity. Visitors to Ghana, for example, soon learn that the construction in newer suburbs of Accra has, to a great degree, been financed by Ghanaians

abroad. Remittances rank as the country's second largest source of foreign earnings, less than the gains from gold exports, but greater than those from coco.

I would also draw attention to a third economic change: the movement of the petroleum frontier from the Middle East to West Africa. Africa's established oil regimes—Gabon, Angola, Cameroon, and Nigeria—have been joined by the smaller states that dot its western coastline. The United States already imports one-quarter of its petroleum from the region. As more of the West African oil fields come into production, this fraction will rise. Increasing exports of oil yield major increases in export earnings for the economies of Africa.

While significant economically, each of these changes is fraught with other subtle but important implications. Reflect on the rise of India and China, for example. Viewed in historical perspective, imperialism in Africa endured but a moment. For eons, East Africa looked eastward toward the Indian Ocean rather than northward toward Europe. Might not the re-entry of Asia on the African scene represent a return to a “natural” configuration, in which Kenya, Tanzania, or Mozambique turn first to India and China and only then to London or Paris when negotiating their futures? Reflect, too, on the emergence of Africa's oil economies. Where oil appears, there arrive the armed forces of the industrial states. In response to the increase in oil production in West Africa, the United States is now extending its military reach to the region. Both the growth of Asia and the increase in petroleum exports have sparked the renewal of economic growth in Africa. But they also limn a new geopolitical order.

As we consider the myriad effects of increasing African ties to Asia, it is vital to remember that economic improvement in Africa can be fleeting. That the major portion of Africa's wealth is lodged within such fragile political entities as Nigeria

and South Africa does not bode well for the future welfare of the continent. Half the wealth of Africa accrues to those two states. The last national elections in Nigeria were stolen and the current president continues to rule only because the courts allow him to, fearing the chaos that a new election would bring. The prospect of next year's elections in South Africa threatens to split the governing party, sewing the politics of South Africa with discord. Côte d'Ivoire and Kenya were once regarded as examples of successful development in Africa. The one now stands divided, with different zones occupied by different political forces, and the other is teetering on civil war. All underscore the fragility of peace and prosperity in Africa.

As Miguel notes, peace *has* returned to some of the most violent portions of Africa. But conflict still characterizes much of East and Central Africa and it has broken out afresh in the Sahelian zones. Miguel also points out that the majority of governments in Africa are chosen in competitive elections. But, as events in Nigeria reveal, incumbents have learned how elections can be managed; party competition does not imply political accountability. The tragic consequences of Kenya's last election provide further evidence that, when faced with the threat of loss of office, incumbents are willing to turn from peaceful competition to political violence.

So, yes, things have changed. However, I would characterize the change as one of magnitude rather than character. There is economic growth, but much of it derives from primary products. The structures of Africa's economies remain unaltered. Several of the most intense conflicts have ended, but others continue and new ones threaten to break out. Political competition has replaced authoritarian governments, but governments have learned to rig elections so as to retain power. While I join Miguel in celebrating the progress that is being made, my joy is more tempered. ♦

'The impact of mobile technology in the developing world is staggering'

Ken Banks

Edward Miguel's examination of sub-Saharan Africa's economic development focuses on outside influences and interventions as the major economic forces affecting the region. Foreign aid, foreign direct investment, the colonial legacy, and so on: each plays a significant role in explaining the current status of the continent. Indeed, Miguel's focus may simply be a reflection of what has emerged over the past forty or fifty years as the prevailing view of the African majority. According to this understanding, many Africans have been passive victims, or beneficiaries, of outside initiatives, lacking the money, tools, and resources to release their own economic shackles. I am not sure that this story was ever true. In any case, the current picture is very different. Moreover, while Miguel provides an analysis of for-

mal development in sub-Saharan Africa, he ignores the crucial factor of informal economic growth. African entrepreneurs are discovering that the current technological environment enables them to remove those shackles for themselves. They need not rely on a donor agency or international trade agreement to hand them the key.

I have spent the past five years or so helping grassroots nonprofits in developing countries take advantage of the latest technological revolution—the mobile phone. With penetration rates in excess of 30 percent and handset sales among the highest in the world, sub-Saharan Africa is poised to gain from the introduction of what is commonly referred to as a “leapfrogging technology”—a technology that allows developing countries to bypass inferior methods and industries in favor of more advanced

ones. Farmers are now able to access market information through their phones, and better information leads to higher income. Casual laborers are better able to advertise their services and take on more jobs because they spend less time waiting on street corners for work to come their way. Unemployed youth can receive news of job openings on their phones, alerting them when work becomes available. Web-enabled mobile phones can also provide health information and advice and remind people when to take their medicine. A citizen with a mobile phone has the information he or she needs to engage more actively in civil society by monitoring elections and helping keep governments accountable. Mobile telephony and Internet also make possible early warnings of wildlife threats, mitigating human–elephant conflict that endangers lives and livelihoods. The impact and wide-ranging uses of mobile technology in the developing world are nothing short of staggering.

The opportunities brought by the arrival of mobile technologies and services have not gone unnoticed, particularly by those at, or uncomfortably close to, the so-called bottom of the pyramid. There, too, mobile ownership is increasing, and shared phone and village phone schemes mean that those who are not yet able to afford a phone of their own still have access to the technology. A single village phone lady—an individual who purchases a mobile phone and charges neighbors for its use—may provide telecommunications services to hundreds of people in her area.

Mobile phones have become vital to the sub-Saharan way of life. According to the Center for Policy and Development, a

Nigerian NGO, many Nigerians describe losing them as literally a matter of life or death for their businesses. More widely, the spread of mobile phones has created significant casual (or informal) employment opportunities. For example, a recent report by the Uganda Communications Commission found that that country's information communications technology sector, a majority of which is the mobile industry, officially employs roughly 6,000 people. The informal sector, which engages in support activities, represents over 350,000. The numbers are monumental. If we ignore this informal sector, a considerable amount of economic activity will be overlooked.

Anyone who has traveled to an African country in the past couple of years could not have failed to notice representatives or analogues of these 350,000 Ugandans: women selling airtime on the streets; children dodging cars at main junctions, selling chargers and phone covers; street vendors charging people's phones for a fee; and mobile phone repair shops squeezing one last drop of life from old phones. There is also a thriving second-hand market, with stalls selling all manner of new and recycled handsets. Entrepreneurs are even building their own traveling mobile services, strapping phones and spare batteries to the fronts of bikes and seeking out business.

In a much-cited 2005 study, an economist at the London Business School concluded that an extra ten mobile phones per hundred people in a "typical developing country" leads to a 0.59 percent increase in GDP per capita. The insatiable demand for mobile technology generates significant tax revenue for the government, but much of

the growth can be found in the increasingly efficient informal sector, out of sight of governments and economists. At the bottom of the pyramid, where micro-loans of just a few dollars are a proven catalyst in helping people work their own way out of poverty, the diffusion of mobile technology has the clear potential to do the same.

As more and more people become

connected, future studies of sub-Saharan Africa and its economic potential will find it increasingly difficult to ignore the influence of mobile technology and the spirit of African entrepreneurs who capitalize on it. There is little doubt that this spirit has always been there, but perhaps it is the emergence of mobile technology that has enabled it to thrive. ♦

'It is too early to tell if Africa's time has come'

Olu Ajakaiye

It is important to explore—as Edward Miguel does—the factors responsible for the contemporary growth in sub-Saharan Africa because we have been here before. In the first decade after independence, sub-Saharan countries recorded reasonable economic growth before a massive three-decades collapse. Understanding today's growth may help stem the risks of a new downturn in the second decade of the twenty-first century.

I also believe—along with Miguel—that Africa's recent gains in political freedom have played a role in the latest economic successes. A growing number of countries operate under democratic governance and enjoy the associated press freedoms, scrutiny of public office-holders, and rule of law. Punishment for those caught stealing at the ballot box may have played midwife to economic growth.

And China's contributions to new growth are not in doubt, as African countries now benefit directly or indirectly from high commodity prices; affordable Chinese imports; growing investment, especially in extractive industries; and, increasingly, development-augmenting aid packages for education and health. However, China's contributions pose certain challenges, namely, how to sustain growth when primary commodities continue to dominate Africa's output and income; the inevitable collapse of commodity prices as China engineers itself out of raw material-intensive production systems and into more knowledge-intensive ones; and the risk of so-called easy loans rekindling high debt in the future. How can African policy makers and researchers best avoid these hazards?

Miguel tucks into his discussion of China's role the important issue of access to U.S., EU, and Japanese markets. This is a crucial matter that requires greater consideration. With the related Economic Partnership Arrangements (EPAs) being actively promoted by the European Union, any discussion of Africa's economic future warrants a serious look at whether the European Union is friend or foe of today's African renaissance. The EPAs may present challenges to sustaining the current growth, challenges similar to those posed by the dominance of primary commodities in China–Africa trade. Another issue Miguel neglects is the need for African economies to build manufacturing capacity, and hence take advantage of access to world markets.

On the role of foreign aid, Miguel seems sympathetic to the view that Africa remains

poor today despite hundreds of billions of dollars of foreign aid. Skepticism regarding the benefits of aid to countries plagued by corruption is fair, but one wonders if this is the whole story. This view assumes that there are no problems from the donor side. In fact, the donor community itself does not share this rather one-sided view, as evidenced by the spirit of the 2005 Paris Declaration on Aid Effectiveness.

On the issue of conflict costs and contagion, I, for the most part, agree that the impact on growth can be devastating. However, the proposition that if the economic growth of the last seven years continues for another decade or two African economies will be richer and more diversified and thus less at risk of falling into conflict has the feel of *mutatis mutandis*. Can we take for granted that diversification is in the offing? After all, the sub-Saharan growth process is driven mainly by primary commodities. What will ensure that growth is accompanied by equity, perceived or real? The root cause of conflicts in Africa is perceived or real economic and social inequality. We cannot assume away the challenges of economic diversification and equity. To sustain growth, policy makers must face them, and analysts must propose policies that can help achieve them.

The threat of climate change to the contemporary growth process is real and urgent. But Miguel gives the impression that, in spite of climate change, Africa will remain a primary commodities producer. This explains his almost exclusive attention to adaptation to drought through aid and research into drought-resistant crop varieties suited for the Sahel. With this kind of adaptation strategy, one wonders how African economies can become diversified, and thus less at risk of falling into conflict. I would have expected Miguel to also discuss the kinds of support that African countries would need in order to pursue clean development. African countries must have guaranteed access to green technologies so that, as their economies grow and diversify, they will not repeat the mistakes of advanced countries. Sub-Saharan Africa needs support for creating financial and other institutional structures that will enable it to develop in a climate-friendly way.

It is, indeed, too early to tell if Africa's time has come, but we must call for necessary action on the part of all stakeholders in African development to learn from recent success and give the continent its best chance to sustain those gains. ♦

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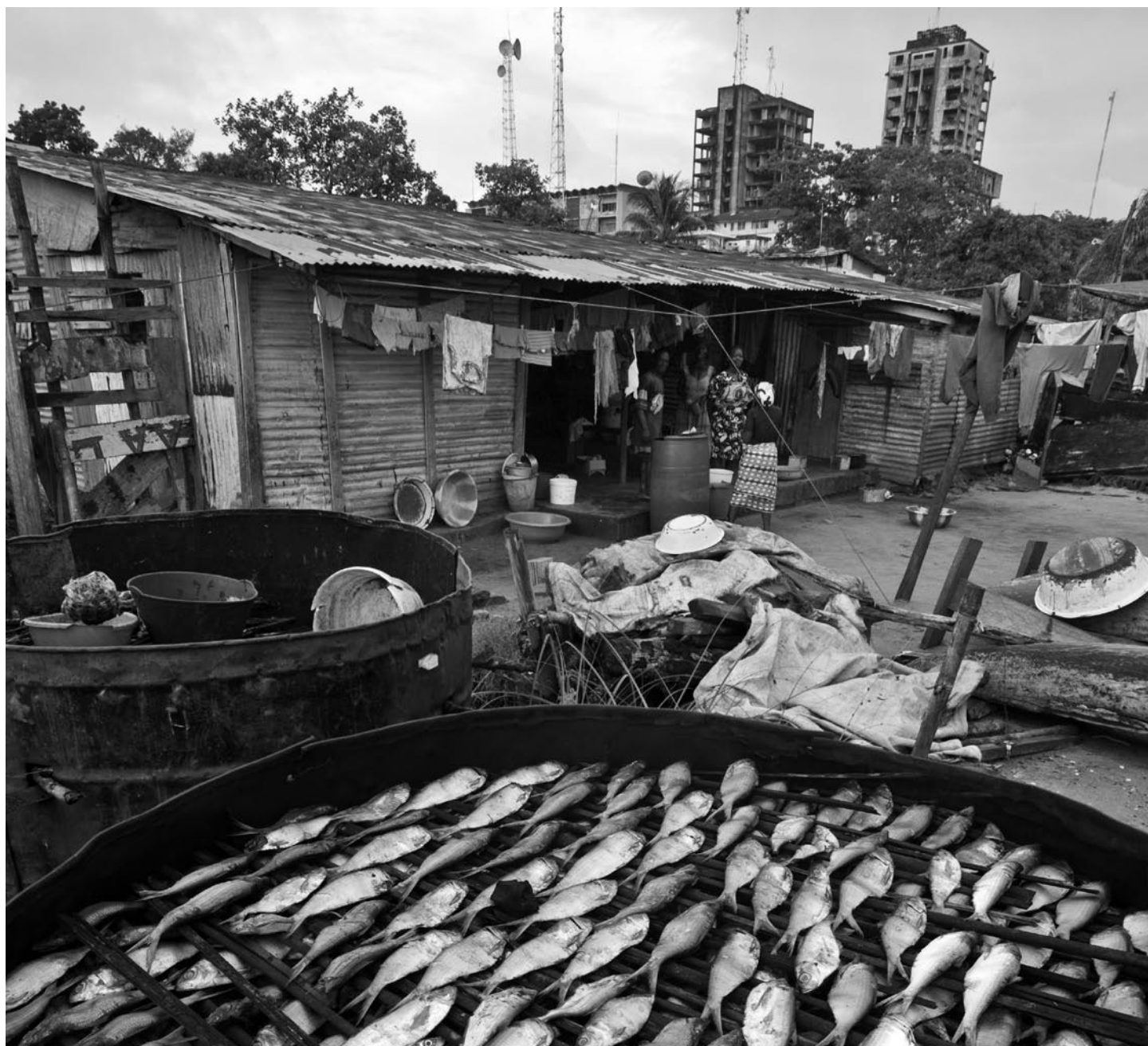
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CHRISTOPHER HERWIG

'The global food crisis exposes the fragility of sub-Saharan economic progress'

Rosamond Naylor

Although the overall economic situation in sub-Saharan Africa appears to have improved in recent years, any discussion about a sustained turnaround for the region must consider the rural sector and the role of agricultural development in improving the livelihood of the poor. Even as better macroeconomic management and higher export commodity prices have in recent years led to per capita income growth in several countries, the poorest rural populations—the landless or small landowners who are net consumers of food—remain desperately poor. According to World Bank statistics, over half of sub-Saharan Africa's rural population still lives in poverty, and the depth of poverty is greater than in any other region of the world, with many surviving on roughly \$0.60 per day.

Economic gains throughout the region have been far from equal, with income disparities growing both between and within countries. The gap in GDP per capita between the richest and poorest deciles of sub-Saharan African countries almost doubled from a fac-

tor of ten to eighteen between 1975 and 2005. Within two of the fastest growing economies—oil-exporters Angola and Chad—the child mortality rates are 260 and 208 per 1,000, respectively, and the life expectancy at birth is 41 in the former, 44 in the latter. These grim statistics are comparable to those in two of the region's slowest-growing economies, Niger and Guinea-Bissau. Welfare measures in all of these countries could be improved with steady gains in rural development, particularly for small-scale farmers. But "steady" is not a word commonly used to describe the region. The economic growth process during the past three decades has been characterized by extreme volatility stemming from world commodity price fluctuations, conflict, weather shocks, and poor governance. Whether the region can sustain prolonged and widespread economic development remains to be seen.

There is no clearer evidence of the fragility of sub-Saharan Africa's economic progress than the current global food crisis. The United Nations Food and

Agricultural Organization expects the annual cereal import bills of most countries in the region to rise by at least 75 percent this year (compared with 56 percent for low-income, food-importing countries outside the region), while import volumes are projected to decline. Increased demand for domestically grown crops, such as sorghum and millet, is pushing prices up for all commodities. Food riots have broken out in Burkina Faso, Côte d'Ivoire, Cameroon, Senegal, Mauritania, Ethiopia, Mozambique, Guinea, and Madagascar. In rural areas where staple crop yields are low, soil fertility is poor, and market access is weak, the silent swell of hunger continues to rise. Given that poor households already spend 60–80 percent of their incomes on staple foods, the price hikes translate directly into fewer and smaller meals per day. World Bank president Robert Zoellick projects that the ongoing food crisis is likely to eliminate virtually all gains in poverty and hunger reduction achieved since the Millennium Development Goals were established in 2000.

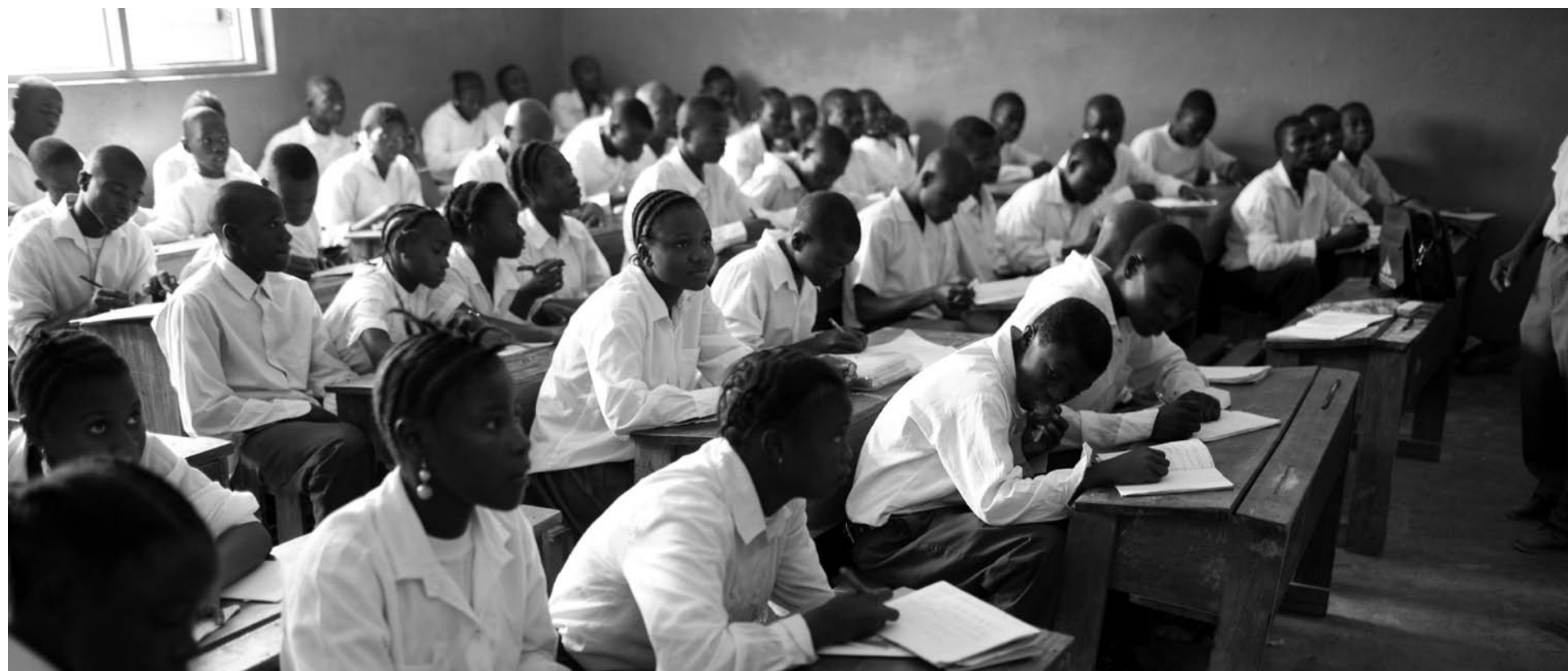
The global food crisis highlights three points crucial to sub-Saharan Africa's development process. First, international and domestic investments in agricultural productivity for staple crops in the region have been woefully inadequate during the past few decades. In 2000 sub-Saharan Africa received only 6.3 percent of global public expenditures and 0.2 percent of global private expenditures on agricultural research and development.

As a result, even in rain-fed areas the region has not experienced anything close to the agricultural productivity success experienced in the rest of the developing world for the last 30 years. Moreover, high population growth is creating an even greater need for yield increases. Large "exploitable yield gaps" (the difference between yields in farmers' fields and yields at crop research stations) exist for most staple crops, but fertilizer and water are lacking, as are critical institutional structures like well-functioning credit, seed, fertilizer, and product markets, and methods for managing risks, particularly for smallholders.

Second, the current high-price environment for essential food crops provides a powerful incentive for agricultural investments in sub-Saharan Africa. But such investments will likely come from both the public and private sectors, not smallholder farmers. The latter simply do not have the resources to respond to price incentives through agricultural investments, especially since their (net) food expenditures are increasing. A 2000 Michigan State study of the Zambian maize sector found that 2 percent of all farmers accounted for one half of total maize sales in the country. The other half came from 23 percent of the farmers, leaving the remaining 75 percent of maize producers consuming virtually all of their output at home. The challenge in the near term will be to design and execute investment strategies that actually reach the poor, rather than tilting the balance further toward larger farmers. Improving livelihoods of the poorest populations will require political will and a focus on equity, agricultural productivity, and nutritional outcomes.

Finally, with only 4 percent of the region's agricultural land under irrigation, the rural economy is likely to suffer significantly from climate change over the next twenty-five years and beyond, unless substantial efforts are made to help farmers adapt. Higher temperatures, declining soil moisture, and variable rainfall will make farming more difficult in most areas. Miguel discusses this danger with reference to the results of one climate model applied to the Sahel. Researchers at Stanford University conducted a more thorough analysis of climate risks for almost two dozen crops in the region. It shows that by 2030 southern African maize production is likely to fall by 30 percent, while several other African crops (millet, cowpea, wheat) will likely fall by 10–15 percent. The projections mark early warnings of change; the models indicate that, by mid-century, temperature will already be out of bounds from what is experienced today: the coldest years in the future will still be warmer than the hottest years in the past century.

What this dramatic shift in climate means for agriculture, migration, and economic growth in sub-Saharan Africa depends to a great extent on future investments in rural development. Strategies for crop breeding programs, small-scale irrigation, and risk-management schemes for the poor need to be high on the political agendas of sub-Saharan countries and the international community. As the present food crisis sadly suggests, Africa will reach a sustained turnaround only when its people can afford to eat. ♦



CHRISTOPHER HERWIG

‘Rapid population growth raises the stakes for African governments’

David N. Weil

I share Edward Miguel’s cautious optimism: the new millennium has started out well for Africa. Democracy is making steady progress, with genuinely contested elections more common and the press increasingly free. GDP per capita is growing at an average rate of 3 percent per year—not East-Asian miracle levels, but quite respectable for any developing country, and a sea change from the previous several decades in Africa. Foreign investment is rising; inflation has dropped in most countries; debt has fallen; and foreign exchange reserves have risen. High commodity prices have been a big driver of African growth, but there is evidence that the current boom is more broadly based. The explosive growth of cell phones (from 7.5 million users in 1999 to 100 million today), which are making markets more efficient and alleviating Africa’s curse of bad transportation networks, shows how technology and entrepreneurial innovation can radically change the economic environment. Finally, rapid economic growth in the rest of the developing world, particularly China and India, can only be to Africa’s advantage, and not only by raising commodity prices. As other countries get rich, there will be more demand for expensive sport shoes, and fewer people in the world poor enough to stitch them—and so the jobs (and millions like them) may migrate to Africa.

I also agree with Miguel that political developments on the continent will be critical to determining whether current growth in Africa will hold: war, instability, or a return to inept governance can easily stall gains for several decades.

But Miguel is silent on an important issue affecting Africa’s economic future:

population growth. Start with the numbers: While world population as a whole has grown by a factor of 2.6 since 1950, in Africa it grew by a factor of 4.3. In 2005, 753 million people lived in sub-Saharan Africa. The United Nations forecasts that between 2005 and 2050, the population of Africa will increase by a factor of 2.3. In Kenya, the country on which Miguel focuses, population grew from 13.5 million in 1975 to 35.6 million today, and is forecast to reach 84.8 million by 2050.

The primary reason for Africa’s rapid population growth is what demographers call a “stalled demographic transition.” In the decades following World War II, mortality rates on the continent declined rapidly as medical and public health technologies from rich countries rapidly diffused. Historically, and in other parts of the world, such mortality declines are usually followed, within a generation or two, by similar declines in fertility to a level commensurate with relatively stable population. But in Africa the decline in fertility has been very slow, with the number of children per woman falling from 6.7 to 5.3 between 1950 and 2005. By contrast, fertility in Southeast Asia fell from 6.0 children per woman to 2.5 over the same period.

The reasons declining fertility has trailed so much behind declining mortality in Africa are not fully understood. Cultural factors—including the low status of women—are clearly at work. The fact that Africa experienced a decline in mortality at a level of income much lower than the rest of the world is probably part of the story, too. Furthermore, mortality levels have not fallen as

low as elsewhere in the developing world. Family planning’s departure from the international development agenda while fertility in Africa was still high may also have played a small role.

Rapid population growth has produced sufficient “demographic momentum” that even if the current fertility rate declines precipitously, population will continue to grow quickly for several generations. Indeed, the UN forecast assumes a relatively steep fall in fertility, from its current level of 5.3 children per woman to 2.5 by 2050. If fertility does not fall so quickly, population growth will be even higher.

Thus, failing some catastrophe of unprecedented proportions, Africa is going to experience a huge increase in population over the next several decades. How will that population growth affect economic development? Discussions of this issue tend to fall into one of two camps: apocalyptic and dismissive. The middle-ground view—that rapid population growth makes development more difficult, but not impossible—is surprisingly unpopular.

The most obvious dimension along which population growth will matter is food. Africa already skates along the edge of food shortage. In 2005, 29 percent of children under five were underweight. Africa is currently a small net importer of grain, but with food prices on international markets scaling new heights, food grown outside the continent is unlikely to fill many bellies.

All this would be a recipe for disaster if Africa could not grow enough food for itself, but in fact it can. For a variety of reasons, African agriculture is extraordinarily unproductive in terms of food output relative to land and labor resources used. The yield of maize—one of the region’s primary food crops—per acre planted has been unchanged in sub-Saharan Africa since 1975; over the same period yields more than doubled in every other region of the developing world. Per-acre grain yields in Kenya, which is among Africa’s most productive countries, are two-thirds the level of India, and slightly more than half those in Mexico.

Some of Africa’s low agricultural productivity is due to climate and geography,

but a good deal is man-made. Sub-Saharan Africa, excluding South Africa, accounts for only 1 percent of world fertilizer use. Only 20 percent of the area sown in maize uses modern varieties, compared to more than 50 percent in South Asia and Latin America. Irrigation is rare (4 percent of farm land, as opposed to 37 percent in Asia), even where it is technically feasible.

Why does a region capable of providing for itself maintain such poor agricultural practice? The problem lies in the economic and institutional arrangements that determine farmers’ options. African governments spent much of the post-independence period creating institutions—such as marketing boards and price controls—that disadvantaged farmers for the benefit of city dwellers. Fertilizer use stagnated in the 1980s as governments removed subsidies in the face of massive budget deficits. The private sector has not filled the vacuum left by the dismemberment of parastatal—state-owned and partially state-owned—companies; facilities to advance credit to farmers to pay for fertilizer and seeds, and to provide insurance against bad weather that would make borrowing possible, have not developed. Because of its unique ecology, Africa has been unable to make much use of agricultural technology that raised productivity in most of the rest of the world, and its governments—weak and with other priorities—have not built the research infrastructure necessary to tailor crops to local conditions.

In addition, pressure to feed a growing population has led to shortening of fallow periods and overgrazing, which have degraded soil quality. The area of land under cultivation has increased by 80 percent since 1960, with much of the newly cultivated land of marginal quality. Three quarters of farmland in sub-Saharan Africa has suffered significant depletion of soil nutrients.

The good news is that to the extent that low agricultural productivity is a man-made problem, it can readily be fixed. The Millennium Villages project has shown that providing fertilizer and improved seeds to African farmers can have an enormous positive effect on ag-

ricultural productivity. The yield gap between typical farms and demonstration plots using best available techniques is a factor of three. The Alliance for a Green Revolution in Africa is working to develop improved seeds, educate farmers, and improve the distribution systems for agricultural inputs.

A second dimension along which population will matter is urbanization. Africa is the least urban continent, but also the most rapidly urbanizing, with urban populations growing at 5 percent per year. Seventy percent of Africa's urban population lives in slums, with most living in improvised dwellings of scrap lumber, corrugated metal, and plastic sheeting. Terrible crowding along with a lack of sanitation and clean water make urban slums hotbeds for disease. And yet for the majority of residents, this lifestyle represents an improvement over the rural poverty they fled.

Once again, rapid urbanization can be a recipe for disaster, but it does not have to be. Largely a problem in governance and institutions, improving living standards in African cities requires spending on infrastructure and the political will to grant slum dwellers ownership of the land on which they currently squat. Even more significantly, urban poverty will only be ameliorated by the creation of an institutional environment in which private businesses can thrive. The vast number of informal enterprises present in the typical urban slum is testament to the entrepreneurial energy of the residents as well as the legal environment that makes opening a formal business impossible. But only formal businesses, which have better access to credit and can use the legal system to enforce contracts, are going to grow large enough to create jobs. The world is awash in capital that would readily flow to Africa to take advantage of abundant cheap labor, if there were good governance. Low corruption and rule of law are crucial.

Rapid population growth will make good governance harder to achieve. It puts great strain on government finance, as schools and infrastructure must be provided for ever more people. More directly, higher population exacerbates land scarcity, which is a potentially explosive issue. Land shortages are thought to have been one of the preconditions for the horrific ethnic violence that exploded in Rwanda and Burundi in the mid-1990s, and the recent post-election violence in Kenya was driven by politicians exploiting a widespread sense of injustice regarding the distribution of land. Urbanization may also hinder the establishment of good governance. Urban slums, lawless to begin with, and well stocked with young men who have little to lose, are potential flash-points for political violence, as was the case in Kenya.

Neither food shortage nor urbanization need spell disaster for Africa, but they raise the stakes for the performance of African governments. If governments tack back toward old dysfunctional ways, they are unlikely to head off catastrophe. Political violence will scare away the foreign donors who are investing in the future of African agriculture, as well as the foreign trade and capital required to provide jobs for urban slum dwellers. ♦

'We might ask whether Africa's new democracies are democracies at all'

Jeremy M. Weinstein

While the small (but noticeable) uptick in Africa's recent economic growth is not in dispute, its causes are not entirely clear. Like Miguel, I would like to believe that democratic reforms deserve some credit for this unexpected turn of events. Most African countries today hold regular elections, and political leaders in Africa are significantly more likely to leave power voluntarily than through a coup, violent overthrow, or assassination.

Yet it has been frustratingly difficult for social scientists to find robust evidence of democracy's economic dividends. Analyses of global trends often yield contradictory findings. And there is disagreement both about the data and how it should be analyzed. One recent study, for example, suggests that the poverty-reducing potential of democracies has been overstated simply because the datasets researchers use tend to lack information about the most successful autocratic regimes. Causation is an even harder nut to crack, as there are compelling arguments suggesting that economic growth spurs democracy and not vice versa. Some recent evidence from Africa points to increased spending on primary schools and reductions in infant mortality following the democratic transitions of the early 1990s, but as the graphs in Miguel's essay make clear, recent increases in GDP per capita have come nearly ten years after the wave of political reforms began.

The absence of convincing evidence linking democracy to economic growth is surprising. One would expect societies with democratic processes to better police the behavior of politicians and bureaucrats, thereby ensuring more responsible policy choices. Societies in which a greater share of the population plays a role in selecting leaders should also have policies that are more broadly beneficial. The story is plausible, and I am still prepared to believe it, but there is reason to suspect that Africa's recent economic good fortune has little to do with democratization.

We might ask ourselves whether Africa's new democracies are, in fact, democracies at all. Many observers of African politics were too hasty in crediting countries with having transitioned to democracy, simply because those countries held elections. In 2002 Thomas Carothers famously penned an epitaph for the "transition paradigm," critiquing the long-dominant notions in aid circles that any move away from dictatorship is a move toward democracy, transitions unfold in a sequence that inevitably results in democracy, and that elections are determinative in bringing about a democratic political order.

Reality looks much messier. The majority of countries that initiated elections in the early 1990s are in what Carothers

terms the "gray zone," as "pseudo-democracies" or "hybrid regimes." African governments have often done the bare minimum to appease outside donors pressing for political change—holding elections, permitting opposition parties to contest—while avoiding reforms that might truly level the playing field. Many African democracies, in practice, are controlled by a single political coalition that blurs the line between state and ruling party and sees government assets as tools for enhancing its political domination. Recent booms in commodity prices and the growing importance of unconditional Chinese aid and investment further undermine the incentives that might induce leaders to permit real political competition. And a closer look at Africa's economic success stories—Equatorial Guinea, Chad, Angola, and Sudan (among oil producers); Mozambique, Rwanda, Botswana, and Uganda (among diversified economies)—should give us additional pause. In the last decade, not one has experienced a peaceful transfer of power between political parties. For many political scientists, alternation between governing parties is the sine qua non of democracy.

A less familiar, but equally important, reason for questioning the link between Africa's recent progress and democratization is the fact that democratic politics can have its own pathologies, pathologies that are especially apparent in weak democracies. In highly diverse societies—and Africa is composed of the most ethnically heterogeneous countries in the world—democratic competition is often reduced to an ethnic headcount. Parties are mobilized along ethnic lines, as groups compete with one another for control of the state budget. As we saw so tragically in Kenya in December, politicians can successfully exploit simmering ethnic tension to consolidate support, even when their performance in office would hardly merit re-election.

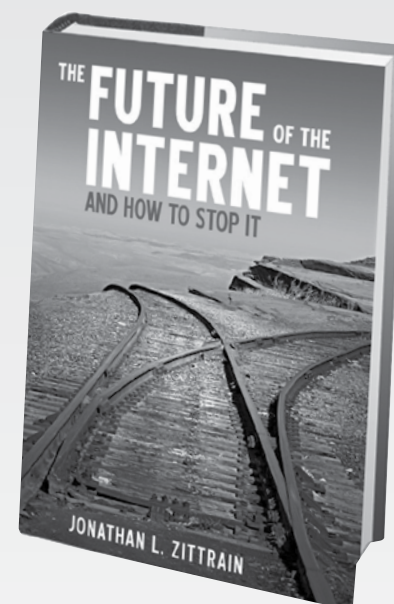
Moreover, democratic transitions are, by definition, unstable—a fact that might account for the stubborn persistence of civil war in Africa, even during a decade of substantial political liberalization. War scares off foreign investors, distorts the economy, and undermines incentives for good public policy and domestic investment. Democracy can only bridge deep social and economic divides when people have faith that government institutions serve interests beyond those of the group that temporarily inhabits office.

I do not raise the question of whether we can truly credit Africa's recent economic success to its democratic progress in order to rebut the general importance of liberal institutions for growth. But, given the state of African democracy, it seems more likely that rising commodity prices

"Absolutely required reading."
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THE FUTURE OF THE INTERNET—AND HOW TO STOP IT

Jonathan Zittrain



"This book is fundamental. It will define the debate about the future of the Internet, long after we haven't stopped it."
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and increasing Chinese aid and investment are doing much of the work. This may represent good news in the short term (and the World Bank has trumpeted it as such), but the danger is that Africa's development miracle will be short-lived. Only a firmer institutional foundation can sustain it.

Democracy can create the conditions for development, but only when its protectors (and strongest advocates)—the voters—are in a position to observe how politicians behave and choose to replace them if they fail to deliver. The good news is that it is becoming increasingly difficult for ruling parties to hang on to power unfairly. Mechanisms that generate transparency—such as access to media, cell phones, and the Internet—are making a huge difference. Exit polling sent strong signals to the opposition in Kenya that they had actually won the election. The public posting of precinct results in Zimbabwe—a key concession won by the Movement for Democratic Change in pre-election negotiations—provided the basis for its candidate's claim to have defeated Robert Mugabe.

More broadly, efforts to shed light on the behavior of governments and inform voters are yielding real benefits. Uganda has been an important laboratory. Greater transparency in public expenditures has led to a dramatic increase in the share of government revenue allocated to education that has actually made its way to the schools. Community-based monitoring of government health centers has inspired higher quality care. And efforts to inform voters about what their Members of Parliament do are radically changing politicians' incentives to be active in the legislature.

Decades of dictatorship coincided with a period of economic decline and stagnation in Africa. That the Amins, Mobutus, and Bokassas now inhabit only the pages of history books may be bearing some fruit, as Miguel argues. But the extent of institutional reform should not be overstated; more work remains to be done. As greater transparency and more credible institutions are established, perhaps the economic dividends of democracy will no longer be so difficult to uncover. ♦

'Elections themselves need not force leaders to serve the public good'

Smita Singh

Edward Miguel suggests several reasons to be hopeful about Africa's economic prospects and a few causes for concern. One in each category, democratic governance and climate change, deserve further elaboration.

First, democratic governance. Miguel rightfully lauds the almost continent-wide movement toward greater democratization. Despite Kenya's recent electoral setbacks, Miguel is right that "opposition parties are ubiquitous and open debate the norm in a growing number of African countries." But reaping the economic fruits of democratization will require more than multiparty elections. Elections in and of themselves need not force leaders to be responsive to the public good; electoral competition can drive political parties into patronage instead. Scholars studying African politics are divided on whether democracy is beneficial to African economies.

Miguel argues that, on balance, democracy has been good for Africa. But if elections are not sufficient to consolidate the political, social, and economic gains of democracy, then what is? What more does Africa need? The answer lies in transparency and accountability mechanisms that provide checks and balances, particularly in regard to public spending.

Public spending often determines whether democracy delivers for the average citizen. Are roads built so she can get her crop to market? Are textbooks available in the school for her children? Is the local health clinic staffed? It's not just a matter of attention-grabbing corruption and malfeasance, but more importantly of

creating incentives for the efficient allocation and use of public resources.

Scrutiny of budget allocations, tracking of actual expenditures, and the monitoring and evaluation of service delivery are vital watchdog functions for independent civil society organizations, the media, parliaments, and executive audit agencies. Consider the benefits. In one case, comparative cost surveys carried out by a policy research organization across municipalities in an Indian state highlighted the differential costs of public services, spurring bureaucrats in high-cost towns to lower their procurement costs. Successful fulfillment of these important watchdog functions requires transparency.

Of course, it is easier to set up elections than effective public accountability mechanisms. Indeed, donors have traditionally spent much more money and time focusing on the development of elections than other techniques for public scrutiny. Our collective knowledge of how to build a system of checks and balances, which are necessarily context dependent, lags far behind our knowledge in other areas. Research devoted to improving efficiency and reducing corruption in public works projects, for example, is helping us get beyond simple notions of community monitoring as the best or only means for achieving public accountability. But more investment in learning which accountability mechanisms work best under which circumstances would be well worth making.

We should not pretend that transparency and accountability are not criti-



CHRISTOPHER HERWIG

cal to the continent's economic future. Whether Africa's current commodity boom is harnessed for long-term development or simply leads to a repeat of the dismal economic performance that followed the commodity boom of the mid-1970s will depend in part on the checks and balances Africans establish to constrain the management of revenues and expenditures.

Second, climate change. In what is surely one of the most troubling ironies of our time, the people who have contributed the least to climate change will suffer the most from its effects. Although rich countries have caused the problem with decades of greenhouse-gas emissions, developing countries are the most vulnerable. Many African countries will be hit especially hard, as Miguel points out.

According to the April 2007 report of the Intergovernmental Panel on Climate Change (IPCC), the poor will bear the brunt of climate risks. The IPCC report concludes that "even the most stringent mitigation efforts cannot avoid further impacts of climate change in the next few decades, which makes adaptation essential." Miguel suggests tailored drought insurance mechanisms and agricultural research as two necessary adaptation measures.

I couldn't agree more, but there is a larger point to be made: one of the key determinants of a society's capacity to adapt to climate change is access to resources. For example, smallholder farmers lack the resources to invest in basic adaptation measures—such as improved irrigation and fertilization—that would better insu-

late them from shifts in weather patterns. Therefore, equitable economic growth is urgently needed to arm the world's poorest people with the resources to adapt to climate change.

Researchers are now recognizing that equitable development and adaptive capacity for coping with climate change actually rely on a common set of conditions. Unless this complementarity between equitable development and adaptive capacity is widely understood, there is a risk that additional financing for climate adaptation could displace investments in economic growth and poverty reduction. This would be a huge mistake, since the key is to build the capacity of societies to adapt to and mitigate climate change over the longer term.

If you care about poverty in Africa, you can't ignore the impact of climate change, and if you care about climate change, you can't ignore economic development in Africa. It is therefore imperative to tackle both of these challenges simultaneously. However, this is not happening. Poorly thought-out biofuels policies pushed by some environmentalists have helped spark a world food crisis, while not doing much, it turns out, to mitigate climate change once land-use changes are taken into account. A similar harmful potential exists for other climate policy proposals that fail to account for secondary effects. Unless we consider the development consequences of our policy solutions, not only will Africa's poor face the worst effects of climate change, but the worst effects of the policy interventions too. ♦



CHARLES POPE

'There is a simple process at work: Africa is learning from its mistakes'

Paul Collier

Edward Miguel is an astute observer of Africa. I particularly admire his combination of insights from fieldwork with an analysis of the big picture, but let me try to offer something more useful than praise.

I wrote *The Bottom Billion* in 2005. Given the lags in economic data, it was only possible to track African economic performance until around 2002, so the millennium was a natural place to draw the line. As Miguel's chart of income shows, the early cut off misses something important: since the turn of the millennium, there has been a boom at the bottom. Obviously, the key question is whether this marks a real break with past trends or a blip.

I rather doubt that the wave of democratization has driven the economic turnaround. I would dearly like to believe that it has, but Africa's democracies basically amount to elections without checks and balances. The inevitable happens: incumbents use the opportunity of freedom from checks and balances to manipulate elections. Miguel writes of Kenya, but a far more dramatic episode has rapidly superseded the Kenyan election. As I write, President Robert Mugabe has turned Zimbabwean democracy into farce. Furthermore, there can be little doubt that the Zimbabwean economy has suffered because of the election. In order to win, Mugabe has uprooted the rule of law, and this has had severe economic consequences. My forthcoming book, *State of War*, sets out why I think democracy has gone wrong in the bottom billion and what would be needed to put it on track.

If democracy is not responsible for the economic about-face, what is? Miguel

considers commodity booms an important factor. Indeed, in the short term a country exporting commodities in high demand cannot help but grow. The issue is whether the revenues can be harnessed for something sustainable. Most African governments failed to do so during the last commodity booms of the 1970s. The vital task for Africa now is avoiding a repetition of history.

But the growth we are seeing today is not just a result of commodity booms. I don't think that is the key to Kenya's pre-election economic success. There is a process at work that does not depend on democracy and is so simple that analysts generally miss it: learning from mistakes. Since 1970 African societies have accumulated a huge stock of experience in how not to manage an economy. For example, from the mid-1970s until the mid-1980s Tanzania adopted regulatory policies that proved to be ruinous. The knowledge they gained through failure is valuable. Tanzania is now one of the best-managed of all Africa's economies. The European society with the best record of containing inflation over the past sixty years is Germany. It has the best record because it used to have the worst: the experience of hyperinflation immunized Germans from macroeconomic folly.

Learning from failure is an unglamorous and sometimes unpopular explanation for Africa's improvement. But if it is right it has one hugely important and attractive implication: the improvement is robust. I am hopeful that the present commodity booms will be better handled than those of the 1970s, primarily because many Africans are fully aware of past mistakes and are determined not to repeat them. ♦

'Foreign aid can strengthen governments'

Rachel Glennerster

The soft winds of the Indian Ocean and the view from the cliffs overlooking Maputo would be enough to make anyone fall in love with southern Africa. But my trip to Mozambique in 2001 (and my subsequent work there) did much more than that—it made me an optimist about Africa. Peace, democracy, market-friendly policies, and investment and trade with South Africa had already led to nine years of impressive growth. The prospects for the future looked even better—much of Mozambique's official debt was about to be cancelled, foreign investment was flooding in, and export projections were spectacular. As of writing, Mozambique has enjoyed fifteen years of 8-percent-per-year growth and a sharp reduction in poverty. Even more encouragingly, the list of African countries experiencing sustained growth is lengthening.

Edward Miguel discusses some of the potential reasons for the upswing in growth and warns that conflict, which continues to devastate important regions of the continent, could all too easily shatter these hopeful trends. Making generalizations about a continent as large and diverse as Africa is perilous, but some trends do shine through. Miguel focuses on improvements in democracy and terms of trade, and points to the influence of Chinese investment. He is somewhat dismissive of the role aid has played and calls for reductions in agricultural subsidies to further improve African terms of trade. I, too, will focus on China, trade, and aid, issues on which I have a somewhat different take.

Chinese investment in Africa has been celebrated for reducing the influence of old colonial powers, and feared as the start of a new debt spiral. But China's increasing economic presence in Africa may be more notable for its suddenness than its size. And sudden changes in flows of investment are often not sustained for long periods. Before we get carried away about Chinese investment it is worth noting that the entire stock of Chinese foreign direct investment (FDI) in Africa in 2005 was just one tenth of the flow of new FDI from the United Kingdom into Africa the previous year.

Potentially more important than the import of capital has been the import of cheap manufactured goods from China, which has enabled Africans to afford products they would not otherwise have been able to enjoy. Cheap Chinese bicycles are everywhere in Busia, the Kenyan town Miguel describes. They help transport agricultural produce to market and are the basis of a thriving taxi trade whereby customers sit sidesaddle on the back. In Sierra Leone, where the radio is a key source of information about politics, cheap Chinese radios are helping inform and connect a highly dispersed population.

The commodity price boom—whether generated by China or not—has indeed helped sub-Saharan Africa, which has experienced a 50 percent increase in total

trade since 2000. But it would be wrong to conclude that further price rises of agricultural products, which would likely follow a cut in rich country agricultural subsidies, would necessarily benefit Africa. While sub-Saharan Africa is a net exporter of cotton, it is a net importer of basic food stuffs such as maize and wheat, which means that, on average, it gains from rich country subsidies on these products.

Miguel concludes that aid can explain neither Africa's growth, which picked up in the mid-90s and accelerated around 2000, nor its improved democratic or educational institutions, because aid first fell and then rose during the 1990s and 2000s. But this claim misses the dramatic change in aid-distribution philosophy that took root during that period. During the Cold War, aid was often used to support "our" despots no matter how bad their policies. The dramatic fall in aid in the 1990s in part reflects cutting off those dictators. Donors became more selective about whom they would support and tied aid in countries like Kenya to moves towards democracy and control of corruption. Is it not at least possible that this "housecleaning" supported or even triggered some of the moves to democracy observed shortly afterwards? Democratic advancements in turn have helped deliver the improvements in access to education Miguel points to, as politicians discover that voters find abolishing fees for primary health and education attractive.

It is easy to point to the ongoing corruption scandals and vote rigging in Kenya as evidence of the failure of this policy, but would we (or, more importantly, would Kenyans) prefer to return to the days when criticism of government or mention of AIDS were barred in the press, as was the case when I first visited Kenya in 1986? Let us not fall into the trap of equating lack of complete success with failure, as is common in the discussions of aid.

How big a factor in Africa's success was the release of aid from the political constraints of the Cold War? It is impossible to say because it coincided with a recognition within African governments that planning was not going to deliver development, and that market-price signals and economic stability were powerful tools in generating growth. In Mozambique in 2001, I watched the Minister of Finance berate her colleagues for even daring to think of risking long-run economic stability for short run political gain. More than the new mega-export-oriented investment projects opening in Maputo, it was this that made me optimistic. Is there room to improve the way aid supports the governments of countries like Mozambique? Absolutely, and that is what many economists—Miguel included—now do through careful impact evaluations. But was the hand of the Finance minister strengthened by the philosophical and financial support of the donors, responsible for 40 percent of the budget? You bet. ♦



ANGELA SEVIN

'A learning agenda is the key to Africa's economic future'

Edward Miguel responds

These insightful comments raise several points that I neglected, and bring out the subtleties of the issues I wrestled with in my piece. Four questions, in particular, emerge throughout the responses.

Is Africa's recent economic turnaround driven mainly by external factors? Nearly everyone agrees that understanding Africa's place in the global economy is critical to decoding its economic performance, although they place different degrees of emphasis on commodity prices, aid, trade, and investment. Ken Banks disagrees. He argues that mobile technology has been revolutionizing African economies and societies from within, providing employment, boosting farm productivity, and energizing African entrepreneurs. While many of his points are reasonable, the single-minded focus on cell phones is unconvincing. The study Banks himself cites suggests that a tripling of mobile penetration from ten to thirty cell phones per hundred people would boost income per capita by scarcely one to two percent—hardly revolutionary. To assert that global economic conditions matter for Africa—as they do for other regions—is not to typecast Africans as “passive victims,” but rather to appreciate the real-world constraints within which African policymakers must operate.

Is African democratization a sham? Robert Bates articulates the clearest vision of where Africa is headed, and it's not optimistic. Bates believes Africa's current economic expansion is a blip, driven by temporarily high commodity export prices rather than deeper internal changes. He

believes that for all the talk of African democracies, the nature of governing hasn't changed much at all, a position shared by Jeremy Weinstein. Bates and Weinstein aren't even sure we should call these new African multi-party regimes—where the art of rigging elections is perfected and oppositions rarely win—democracies. Weinstein believes Africa's persistent ethnic rivalries and conflict will hinder further reform. Paul Collier tends to share this pessimism about African democratization, pointing to Zimbabwe's relentless slide, even as he shares my cautious optimism about Africa's economic future.

I understand Bates, Collier, and Weinstein's disappointment with the limits of Africa's political transformation. But their analyses fail to acknowledge that genuine progress has occurred. I have not presented decisive evidence on the economic payoffs to democracy, a puzzle that has wrong-footed social scientists for decades. But the political transitions in many countries—Kenya, South Africa, Ghana, and others—have been remarkable, if incomplete. If these political changes have not yet paid large economic dividends, there is hope they will in the not too distant future.

South Africa plays a giant role in this story; Bates rightly emphasizes its importance, which I largely neglected. South Africa has been a major force for investment and trade, and the leading migration destination for many of its neighbors. Moreover, its democratic opening has inspired the world. So much is riding on its steady (if slow) economic growth. Political instability in South Africa, say, in the aftermath

of next year's presidential polls, could have massive consequences for Africa's overall economic development trajectory.

What role is foreign aid playing? Rachel Glennerster is optimistic about Africa's future, and gives foreign aid donors a good share of the credit. In her view, foreign aid has largely been a force for sound policymaking in Africa since the end of the Cold War, during which, she observes, donor motives were far less altruistic. She focuses on cases in which donors were instrumental in solidifying the transition to multi-party competition, as in Kenya. Yet I think these cases are only a part of the story. In other situations Western support for human rights and democracy in Africa is more rhetoric than reality. In the 1990s large foreign aid donors (including the World Bank) lavished financial support on Uganda, a one-party regime that meddled militarily in its neighbors' affairs, looting piles of diamonds from war-torn Congo along the way. The United States and France today are far more interested in securing a stable supply of petroleum from Nigeria and Gabon than in investigating credible claims about election rigging there. It is fair to say that Western support for African democracy remains uneven.

Should African policymakers focus resources on improving agricultural productivity? Olu Ajakaiye and Rosamond Naylor lay out sharply different views in the latest chapter of this classic development debate. While I'm highly sympathetic to Ajakaiye's view that the best way to eliminate the massive risk facing African farmers is for more Africans to work in factories than on farms—following the trajectory of other now-rich countries—neither he nor I can articulate a clear set of policies that will generate industrial development. Import-substituting industrialization policies in the 1960s and '70s proved disappointing, as have more recent laissez-faire approaches. Instead of trying to establish a new industrial development scheme, Naylor lays out a series of policy steps to address farming risk and low productivity, problems made ever more critical with climate change looming. The coherence and concreteness of her proposals make them highly attractive.

Yet the agricultural productivity gains that both Naylor and David Weil call for will be hard to achieve. As Weil admits, less corrupt and more capable African institutions are a prerequisite for essential investments in irrigation, agricultural technologies, and adequate crop insurance. He also argues that the challenge of high population growth, which leads to land shortages or fuels urban crime, will require better governance. But, as Smita Singh observes, the big question is how to make African state institutions more effective and accountable.

What is the way forward, then? Collier believes that the key issue for African countries trying to sustain current economic booms is to learn from the past and avoid the unsuccessful policies adopted during the commodity boom of the 1970s. He thinks many African leaders are ready to learn from these past failures, and that this new attitude will help to sustain more robust economic growth.

Collier doesn't specify how we can learn what works best and ensure its implementation. Glennerster believes rigorous

impact evaluations can play a key role in determining which policies are most effective at bolstering economic development and institutional performance, and I agree with her that they are a promising tool for African policymakers and donors alike.

Following more or less the same rigorous methodology as counterparts in the medical sciences, economists have in recent years started taking the lessons of randomized trials to heart. One place to witness this new approach in action is in Kenya's Busia district. The economists working in Busia—led by Harvard economist Michael Kremer, and including myself—are at the forefront of a growing movement to obtain better evidence on what works in development. In collaboration with NGOs, academic researchers working in Busia used randomized program evaluations to show that providing anti-parasitic drugs for intestinal worms—a major scourge affecting over 90 percent of Busia's children—can boost primary school attendance and may have longer-term effects on students' health. Comparing deworming to other common interventions shows it to be arguably the most cost-effective way to achieve such gains in rural Africa. Just as medical researchers are confident that their new therapies are responsible for health improvements among their treatment group, we can be sure that anti-parasitic drugs are responsible for higher rates of school attendance.

While it's natural to focus on such success stories, randomized evaluations don't always produce positive results about program impacts. But information on failures is just as useful; it allows policymakers to shift funding from the projects that don't work toward those that do. This is at the heart of the learning agenda that Collier, Glennerster, Singh, and I all believe is the key to Africa's economic future. Democracies like those emerging in Africa are particularly good learning environments, settings where impact evaluations can be carried out, their fruits widely distributed, and governments held accountable for applying their lessons to policy. In nations with weaker governance, rigorous program evaluations can themselves serve as a form of political accountability, empowering decent government officials to push for reform.

With impact-evaluation results in hand, policymakers in poor countries will increasingly be able to rely on hard evidence when deciding how to use their scarce resources. We now *know* the benefits of anti-parasitic drugs in improving school attendance in Busia, and as a result the Kenyan national government has included mass school-based deworming in its official school health plan for the country. Word has spread, and other African countries have expanded their own school deworming plans. In Ghana, over four million children received anti-parasitic drugs at school in 2007.

Learning about deworming is a small step forward on its own. But it will be through many such small lessons—in areas as diverse as health, education, agriculture, governance, and foreign aid—that African countries might learn to sustain and possibly augment their recent economic growth, even after the inevitable fall in global commodity prices. ♦