Get the Sustainable Development Goals back on track

Most of the goals will be missed. Here’s how to put them back on the right path.

In 2015, world leaders met in New York at a landmark conference of the United Nations. Their aim: to end poverty, stop environmental destruction and boost well-being. In the world of multilateral diplomacy, such meetings are not uncommon, but they tend to focus on individual areas, such as climate change or food security. The 2015 summit was different because heads of state and governments pledged concrete action across an integrated set of economic, environmental and social issues. They signed up to the Sustainable Development Goals (SDGs), a package of 17 goals and associated targets for ending hunger, eliminating extreme poverty, reducing inequality, tackling climate change and halting the loss of biodiversity and ecosystems — all by 2030.

With that deadline now a decade away, the world is set to miss most of the SDGs. Just two of them — eliminating preventable deaths among newborns and under-fives, and getting children into primary schools — are closest among all the goals to being achieved. By contrast, the goal to eliminate extreme poverty will not be met because some 430 million people are expected still to be living in such conditions in 2030.

Targets to end hunger and to protect climate and biodiversity are completely off track. Whereas some of the richer countries are making a degree of progress in the SDGs overall, two-thirds of poorer ones are not expected to meet those that relate even to their most basic needs.

The SDGs are extremely valuable, and five years is too short a time to see real progress towards economic transformation, which must happen if the goals are to be achieved in full. But at the same time, the SDGs have had a considerable positive impact — including in research and higher education. Institutions globally are signing up to supporting the SDGs, and staff and students are taking on responsibilities, from eliminating single-use plastic, to switching to renewable energy. The goals’ cross-cutting nature has fuelled research, too, providing scientists with opportunities in the fields of the environment, engineering, health policy, development economics and beyond.

But these bright spots cannot mask what is still a bleak trend. The UN secretary-general, António Guterres, puts the halting progress down to a lack of funding — especially from the governments of developed countries. The goals come with a price tag of between US$3 trillion and $7 trillion per year, and the shortfall has been put at $2.5 trillion. But there’s a larger obstacle. The goals are still a voluntary effort, although monitoring of progress is extensive. A UN-affiliated organization called the Sustainable Development Solutions Network produces an annual report that shows how well countries are performing on the SDGs, and on page 74 of this issue, researchers from the United States and China describe how progress can be more accurately recorded (Z. Xu et al. Nature 577, 74–78; 2020) (see also page 8). But it’s not compulsory for countries to report how they are doing.

To be achieved, the SDGs need to become mandatory — not necessarily in the legal sense, but in the sense that nations have to know that there’s no alternative but to make them happen. One analogy is the way in which countries report their economic data. There’s no international law that says every country must report data, such as on consumer spending, that go into calculating its gross domestic product (GDP). But for more than 50 years, these data have been collected at a granular level and are now reported every quarter by national statistics offices. Every agency of government understands that a nation’s economy must always be seen to be growing, and so the data underlying the GDP must also always be increasing. That’s why there’s a massive national effort to make sure that everyone works towards what could be called the ‘GDP goals’. The SDGs are unlikely to be achieved unless they, too, sit at the apex of a similar national effort.

At the same time — and as is often pointed out — some GDP goals are in opposition to sustainability efforts such as the SDGs. Take new sources of fossil-fuel energy. They provide much-needed power for communities lacking basic needs and contribute positively to economic growth. But they also have a negative impact on the environment and on human health. Yet it’s only the positive economic impact that counts in official data, and that is one reason — although not the only one, by far — why it’s proving so difficult to shift power to renewable-energy platforms.

One solution might be to factor the cost of degrading the environment into national accounting — although there is as yet little consensus on how this would be done.

Tighter focus

One research-led effort where there is more consensus is the Global Sustainable Development Report (GSDR). Due to be published every four years, it is commissioned by the UN secretary-general and written by a team of 15 authors nominated by UN member states, but working independently with the wider scientific community. The first report was published last September, and the UN will appoint authors for the second one, due in 2023, later this month.

The first report’s authors are aware that the SDGs lack a mandatory reporting mechanism, and that in some cases the goals are competing with GDP goals. And they have come up with an innovative solution. They recommend that nations consider redistributing the 17 SDGs into 6 ‘entry points’. These are: human well-being (including eliminating poverty and improving health and education); sustainable economies (including reducing inequality); access to food and nutrition; access to — and decarbonizing — energy; urban development; and the global commons (combining

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biodiversity and climate change).

This is a sensible recommendation. A focus on a smaller, more integrated set of goals could help to reduce instances in which implementing one of the SDGs has the potential to hinder another. Take the case of wind energy. This has a part to play in meeting the climate action SDG, but if wind farms are sited in the wrong places, or if the turbines are the wrong height, they can potentially harm bird populations, which would affect the SDG on protecting biodiversity and ecosystems. Under the GSDR proposals, climate and biodiversity would sit under one category for action. If properly implemented, this would mean that decisions on new energy sources would need to consider the implications for biodiversity — reducing the numbers of wind power plants that end up in inappropriate locations.

So how could the GSDR’s recommendations be implemented? So far, it’s not clear that they have reached the ministries of finance and economics, and the central banks, where they need to be heard. Last month, Guterres appointed the departing Bank of England governor Mark Carney as UN climate envoy. That is a positive move because Carney’s office has the potential to expand the report’s footprint by creating a formal link between the GSDR team and economic policymakers.

As the 15 scientists tasked with preparing the next report take their posts, they must also urge Guterres to give them the resources to raise the profile of their work further, so that it becomes as well known and influential as the UN reports on climate and biodiversity.

The SDGs were launched in a 2015 UN report called Transforming our World. That’s because a world without hunger and disease, with meaningful jobs and a clean environment, requires transformational change. But, on present trends, there are few signs that such change will be achieved by 2030. That’s a reason to redouble policy efforts guided by evidence. Real change won’t come until the research–policy interface is strengthened. Time is short, and there’s a lot to do when a decade is all we have.

It’s possible to measure progress towards the Sustainable Development Goals, and to reveal where countries fall short.”

Index of improvement

A US–Chinese team shows how sustainability metrics can be improved.

How can a country tell that it’s making progress on sustainability? How can it work out, from year to year, whether its environment is improving, along with the economy and well-being?

This is incredibly difficult. A successful measure must have at least three characteristics: it needs to be based on a comprehensive set of reliable data; it must be accessible to non-specialists; and it has to be updated regularly and presented so that progress (or lack of it) can be seen easily.

For decades, researchers and policymakers have been searching for a measure that everyone can agree on. But most efforts, from the Human Development Index to the Genuine Progress Indicator, end up lacking some aspect of those three characteristics.

The need is becoming more urgent now that the international community is set on its 2030 deadline to meet the United Nations’ 17 Sustainable Development Goals (SDGs), which aim to end poverty and hunger, tackle climate change and more.

The UN publishes an annual report that ranks countries on their progress towards each goal, with a score out of 100. It shows how nations are doing relative to each other and whether they’re on track to meeting the goals (most are not — see page 7). But the report doesn’t record local-level data, and inter-year comparisons are hard.

For example, Denmark — the top-ranked country in the 2019 report, with an impressive aggregate score of 85.2 — still has some way to go in reaching Goal 14, which measures the health of the marine environment (‘life below water’). But those who want to know whether Denmark’s score has improved over time are forced to comb through PDFs of the previous years’ reports, and these include nothing comparing different parts of the country.

But help could be at hand. In Nature this week, a team led by researchers from Michigan State University in East Lansing and China Agricultural University in Beijing show how it’s possible to use the SDG reporting framework to construct an index that allows progress to be compared across regions and over periods of time (Z. Xue et al. Nature 577, 74–78; 2020).

The team chose China as its case study, and the results show that the country’s overall SDG score increased from 45.3 in 2000 to 55.4 in 2015. Each of its 31 provinces also increased its score. Nationally, the trend is in the right direction, although the rate of progress so far is not enough to meet the 2030 target. Moreover, China’s scores have fallen in four goals — life below water, responsible production and consumption, gender equality, and climate action.

Can such an approach to data gathering be scaled up? Yes, but it needs a large literature base to draw on, and public authorities must be willing to recognize the value of such an effort — and must know how to use it.

China’s government is aware of the environmental and social risks of rapid industrialization, and the country has an active community of researchers and policymakers working on sustainability measures. The authors of the paper went to national data sources such as the National Bureau of Statistics of China, as well as specialized sources that hold data on health, energy and population — all of which are accessible for research. But that is expensive on a global scale. In many low- and middle-income countries, especially, the infrastructure to collect such data still needs to be built.

This work is a milestone, nonetheless, because it shows how it’s possible to measure detailed progress towards the SDGs, and to reveal where countries fall short. With 17 goals and just 10 years in which to achieve them, the world needs better measures to see both how far we have come, and how far we have to go.