The importance of an integrating framework for achieving the Sustainable Development Goals: the example of health and well-being

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ABSTRACT

The 2030 Agenda for Sustainable Development came into force in January 2016 as the central United Nations (UN) platform for achieving ‘integrated and indivisible’ goals and targets across the three characteristic dimensions of sustainable development: the social, environmental and economic. We argue that, despite the UN adoption of the Sustainable Development Goals (SDGs), a framework for operationalising them in an integrated fashion is lacking. This article puts forth a framework for integrating health and well-being across the SDGs as both preconditions and outcomes of sustainable development. We present a rationale for this approach, and identify the challenges and opportunities for implementing and monitoring such a framework through a series of examples. We encourage other sectors to develop similar integrating frameworks for supporting a more coordinated approach for operationalising the 2030 Agenda for Sustainable Development.

INTRODUCTION

The 2030 Agenda for Sustainable Development, adopted by the United Nations (UN) General Assembly in September 2015 to replace the Millennium Development Goals (MDGs), is the central UN platform for achieving ‘integrated and indivisible’ Sustainable Development Goals (SDGs) across three dimensions: social, environmental and economic. The SDGs came into action in January 2016 aimed at offering a broad and inclusive framework for ending poverty worldwide in the next 15 years. It is widely recognised that successful achievement of this agenda, which is comprised of 17 SDGs and 169 targets, requires national, regional and local efforts across all sectors of society. For some, the SDGs are seen as an opportunity to bring together the development efforts of different sectors under a single agenda. Others are concerned that the 2030 Agenda for Sustainable Development provides a model for more integrated implementation of the SDGs.

Key questions

What is already known about this topic?

After extensive negotiation, broad support for the 2030 Agenda for Sustainable Development was achieved, and the commitment to 17 Sustainable Development Goals (SDGs) and 169 targets came into effect in January 2016.

Implementation of such a broad and diverse agenda, however, poses challenges for policy and practice at national, regional and local levels across all sectors of society.

There is a particular need for integrating strategies and approaches for operationalising the SDGs in ways that emphasise their interdependence, and provide clear indicators and measures for their achievement.

What are the new findings?

This paper proposes a framework for integrating health and well-being across the SDGs, extending over both health and non-health sectors.

By locating health and well-being as both preconditions and outcomes of sustainable development, this approach leads to the identification of health-related SDGs and synergies between health and well-being, and other goals within the SDGs by sector.

This, in turn, allows for particular objectives, and measures or indicators, for example, health issues and SDGs targets, to support the implementation of the 2030 Agenda for Sustainable Development.

Recommendations for policy

The proposed health and well-being framework provides a model for more integrated implementation of the SDGs.

The framework complements the Health In All Policies (HiAP) approach, by ensuring that health and well-being are cross-cutting and unifying themes.

Importantly, the framework can also be used by other sectors to set particular objectives, measures or indicators which support an integrated approach to implementing the three dimensions of sustainable development underpinning the 2030 Agenda for Sustainable Development.
Agenda for Sustainable Development is too broad and, as a result, difficult to measure and manage.6–8

SDG 3 of the SDGs is to ‘ensure healthy lives and promote well-being for all at all ages’.4 Better health and well-being is not only viewed as a single goal for sustainable development, but is regarded as being essential for achieving all three pillars of sustainable development.9 Health, well-being and sustainable development are considered to be intrinsically connected, with health regarded as a precondition indicator, as well as an outcome of successful sustainable development.10 Within the health promotion literature, “sustainable development refers to the use of resources, direction of investments, the orientation of technological development, and institutional development in ways which ensure that the current development and use of resources do not compromise the health and well-being of future generations”.11 The challenge faced, therefore, is how to implement SDG 3 while, at the same time, supporting an integrated approach to the 2030 Agenda for Sustainable Development.

This paper begins by locating health and well-being as both preconditions and outcomes of sustainable development. We argue that, without ‘good health and well-being for all’, achieving the SDGs will be extremely problematic.5 12 At the same time, health and well-being are dependent on the achievement of other SDGs. Based on this dual relationship, we put forth a framework for integrating health and well-being across the SDGs, covering both health and non-health sectors. The framework identifies particular objectives, and measures or indicators for specific health issues and SDGs targets. We believe that the framework can be used by other sectors to support an integrated approach to implementing the three dimensions of sustainable development underpinning the 2030 Agenda for Sustainable Development.

FROM MDGs TO SDGs

The UN Secretary General Ban Ki-Moon calls the MDGs, signed in January 2000, ‘the most successful anti-poverty movement in history’,13 by lifting more than one billion people out of extreme poverty, and making specific gains on targets such as reducing hunger, increasing female education and advancing environmental protection. At the same time, it is recognised that much work remains to be done to address persistent inequalities and uneven progress.14 15 There are also concerns that recent conflicts, growing extremism, unprecedented levels of migration,16 continued economic and financial volatility, and large-scale environmental changes are undermining some of the MDGs achievements.12 14 17

In this context, high expectations are being placed on the SDGs to do more over the next 15 years.2 3 7 The new agenda departs from the MDGs in two important respects. First, the UN Secretary General’s High-Level Panel on Sustainable Development highlights the importance of addressing the determinants of development and well-being within a ‘universal framework’ by which goals apply to every country and across all sectors of society. While the MDGs applied to developing countries, the SDGs are framed to address poverty alleviation in all countries. Second, the SDGs place sustainability at the heart of the development agenda,18 recognising the need to address the complex links between development and the environment. Based on lessons from the MDGs, the 2030 Agenda for Sustainable Development is seen as a unique opportunity to design new objectives, measures and indicators which are innovative and transformative.19 Of particular concern is the need to move away from a narrow set of quantitative goals and targets towards a broader range of more ‘integrated and indivisible’ goals and targets.

HEALTH AND WELL-BEING WITHIN THE SDGs

Health is defined by the World Health Organization (WHO) as ‘a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity’.20 Broadly speaking, ‘health is a concern to all people, and is influenced by and as well contributing to policies across a wide range of sectors’.10 As health is extensively determined by economic, social and environmental conditions, we argue here that health is connected with topics such as poverty, gender equality, education, growth, among others,9 being thus crucial for the effective conditions for sustainable development.16

Health figured prominently in the MDGs. Three of the eight goals focused directly on health-related issues—reducing child mortality (MDG 4), improving maternal health (MDG 5) and combating HIV/AIDS, malaria and other diseases (MDG 6)—while three others were indirectly related to health—eradicating extreme poverty and hunger (MDG 1), ensuring environmental sustainability (MDG 7), and developing a global partnership for development (MDG 8). Under the SDGs, some argue that having only one health goal (SDG 3) among 17 goals is a step back from the MDGs.8 9 21 Others, however, assert that giving such prominence to a single sector is out of step with the new emphasis on universality and sustainability. Thus, the UN asserted that the role of health should be reconsidered, including its relationship alongside the concept of ‘well-being’.22 The Centers for Disease Control and Prevention (CDC) define well-being as ‘a positive outcome that is meaningful for people and for many sectors of society, because it tells us that people perceive that their lives are going well. Good living conditions (eg, housing, employment) are fundamental to well-being’.23

Implementation of the 2030 Agenda for Sustainable Development, therefore, faces a need to reconcile strong support for better health and well-being, and the more integrated approach of sustainable development. The Rio Declaration on Environment and Development, signed by 170 countries in 1992, clearly and fully addresses the links between health and development.
Principle 1 states that ‘human beings are at the centre of concerns for sustainable development. They are entitled to a healthy and productive life in harmony with nature’. This link between health and sustainable development has been part of declarations that have followed. Despite this, and more recently regarding the new 2030 Agenda for Sustainable Development, it has been argued that the relationship between health and development should be further addressed so that health and well-being become central to sustainable development as argued here. In doing so, the UN and its agencies, in their ‘Health in the post-2015 UN development agenda’ report, have explicitly looked at the linkages between health and sustainable development through three different perspectives. Such relationship includes the idea that health can be a contributor, a beneficiary and a vehicle to measure success in achieving sustainable development.

Some authors consider that SDG 3, to ‘ensure healthy lives and promote well-being for all at all ages’, fairly represents health and well-being within the SDGs as they stand. For example, the WHO asserts that the health and well-being goal is one that is very broad, allowing a multitude of issues lacking under the narrower MDGs to be addressed. These include mental health, environmental health and health security.

Despite being set out as a separate goal, moreover, SDG 3 is recognised as critical for the achievement of other SDGs. Measures of health and well-being can be used to assess progress in the implementation of the SDGs. Conversely, most of the new generation of SDGs have a range of direct positive impacts on human health and well-being (eg, reductions in cardiovascular disease, lung cancer and stroke). There are also a range of health and well-being co-benefits of sustainable development (ie, poverty reduction, sustainable energy sources, safe drinking water, adequate sanitation, sustainable food production and distribution, urban planning). Consequently, the WHO argues that health and well-being are central measures of progress in achieving the SDGs as an overall strategy of the post-2015 agenda. For example, health and well-being are influenced by an array of factors (ie, determinants of health) such as social, environmental and economic factors that are intrinsically related to other SDGs. A series of indicators for sustainable cities, energy, water, sanitation and hygiene, and food production have been presented linking health and the SDGs. Overall, the WHO is confident that health and well-being remain central to the sustainable development framework, with SDG 3 as more integrated under this new agenda than the MDGs.

AN INTEGRATING HEALTH AND WELL-BEING FRAMEWORK

Given recognition of the links between health and well-being, the SDGs, and sustainable development as a whole, there is need for a framework to guide more integrated action. This framework would focus on the interdependencies between goals, and encourage connections among different sectors. For example, the impacts of better health and well-being on poverty reduction and increased equality and, as a result, on achieving overall sustainable development, can be realised through more collaborative efforts between health and non-health sectors.

As a first step towards such a framework, we compile and compare lists of health-related SDG targets (see table 1). Murray identifies 23 health-related SDG targets and Le Blanc includes seven targets related to health within the SDGs and asserts that health is linked with another eight goals. The WHO provides a more comprehensive list of health-related SDGs, which includes 27 targets plus all the health goal targets (17). In a recent report, the WHO considers a slightly different set of 17 targets as being health-related and linked to SDG 3. Table 1 shows that health is more embedded within the SDGs than previous approaches have identified.

As a next step, and drawing on Wilkinson and Hulme, we can identify integrating links between goals. Table 2 sets out the synergies between health and well-being (SDG 3), and other SDGs, and the various sectors relevant to each. In this table, we acknowledge the cross-cutting role that health and well-being play, as preconditions, as well as outcomes, and vehicles to measure sustainable development. Additionally, we incorporate the ‘Health in All Policies (HiAP)’ strategy to make links, between the SDGs, and health and well-being. Given that health, and health-related issues, fall within sectors other than health, incorporating health in all policies to support the SDGs has been suggested as a way to bring better integration and coherence to the new sustainable development agenda. In short, achieving SDG 3 is crucial to other SDGs, and achieving other SDGs is crucial to SDG 3. The integrating framework of table 2 provides a shared language and encourages more dialogue across sectors.

Implementing and Monitoring the Health and Well-being Framework

Once synergies across the SDGs and sectors are identified (table 2), highlighting the interdependencies...
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<th>SDGs</th>
<th>Synergies between health and well-being, and other goals</th>
<th>Sectors</th>
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<tbody>
<tr>
<td>SDG 1—no poverty</td>
<td>Poverty results in ill health as a consequence of lack of adequate nutrition, housing, and access to safe drinking water and sanitation. Poor people struggle to educate themselves and their children, are less able to find and remain in a job, and access services that would alleviate poverty. Poor people are also made vulnerable to air and water pollution and other hazards such as landslides, drought and flooding, all of which carry physical and mental health dangers. Their poverty makes them politically and economically unable to escape threats. For achieving this goal it is vital to focus on better or improved health, reducing inequalities and improve social protection and political efficacy. Bestowing health and well-being assists in addressing the reduction of vulnerability.</td>
<td>Economy; Employment; Education; Early life; Housing; Health</td>
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<td>SDG 2—zero hunger</td>
<td>Hunger and food scarcity result in malnutrition and ill health. For achieving this goal it is crucial to incorporate the health benefits of sustainable agriculture, food production and distribution. Having access to food improves human health and enables better chances in life, including educational achievement (see SDG 4). As such, patterns of development for food have bearing on health.</td>
<td>Agriculture; Food; Environment; Land; Sustainability; Security; Justice; Health</td>
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<td>SDG 3—good health and well-being</td>
<td>Improved health for all countries, communities, families and individuals has implications for achieving all SDGs. Investing in health is both a necessary and effective way to achieve all the other goals. Health is a major contributor to sustainable development, but much of the economic, social and environmental determinants of health are outside the health sector so there needs to be intersectoral coordinated action. On the other hand, better overall health improves social and economic outcomes. For achieving this goal it is imperative to increase the provision of and access to health services, guarantee and expand UHC for reductions in mortality and morbidity (eg, communicable and non-communicable diseases, mental health).</td>
<td>Economy; Sustainability; Environment; Security; Justice; Education; Infrastructure; Housing; Community services; Transport; Early life; Planning; Land; Agriculture; Food; Health</td>
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<td>SDG 4—quality education</td>
<td>Quality education impacts on the ability to get out of poverty, finding work, being able to afford appropriate housing, access to drinking water and sanitation, contributing to better health and well-being throughout the life span. On the other hand, health is crucial for high levels of educational attainment for all men, women and children, increasing opportunities for employment and living a meaningful life. For achieving this goal it is important to understand the existing barriers and limits for equal access to education (gender, race, ethnicity).</td>
<td>Education; Early life; Employment; Health</td>
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<td>SDG 5—gender equality</td>
<td>Gender equality promotes educational attainment, work opportunities and empowerment to be an active citizen and seek better health. Equal access to quality healthcare, sanitation and justice for better women's health as well as reductions of violence and discrimination against women. For achieving this goal it is essential to look at its links with education, employment and health.</td>
<td>Education; Early life; Employment; Security; Justice; Health</td>
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<td><strong>SDG 6</strong>—clean water and sanitation</td>
<td>Access to safe drinking water, adequate sanitation and hygiene are essential to the health of individuals and communities, reduces pollution and the risk of communicable and non-communicable diseases (e.g., diarrhoeal, vector-borne diseases) and improves housing quality and environmental conditions (e.g., reduced water contamination). For achieving this goal it is key to understand the links with poverty, urbanisation, education, water scarcity and water management, as well as hygiene for reducing the health risks of unsafe water and sanitation. As such, patterns of development for water have bearing on health.</td>
<td>Environment; Sustainability; Security; Justice; Housing; Health</td>
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<td><strong>SDG 7</strong>—affordable and clean energy</td>
<td>Sustainable energy efforts (e.g., clean, renewable energy) need to consider health benefits, alongside reductions in emissions and subsequently in air pollution, advances in urban planning and green spaces, infrastructure, transport and housing which create healthier living environments as well as employment opportunities. For achieving this goal it is imperative to ensure changes in the urbanisation process and energy demand for reductions in air pollution, and better access to cleaner energy with benefits for health (e.g., reductions in cancer, stroke, COPD rates). As such, patterns of development for energy have bearing on health (e.g., solar power and electricity and refrigeration).</td>
<td>Environment; Sustainability; Infrastructure; Planning; Economy; Housing; Health</td>
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<td><strong>SDG 8</strong>—decent work and economic growth</td>
<td>Economic sustainability can only be achieved with a healthy population. Healthy individuals are at the core of a healthy workforce. Improving work opportunities for individuals across sex and age increases and improves access to food, water, housing, services and justice. For achieving this goal incentives should be given to the establishment of micro and small enterprises as well as microfinance. The role of women empowerment through microfinance depends on improved health, which is the route to education and independence.</td>
<td>Economy; Employment; Security; Justice; Housing; Health</td>
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<td><strong>SDG 9</strong>—industry, innovation and infrastructure</td>
<td>Health impacts should be taken into account when building resilient infrastructure (e.g., roads, transport, housing, building design) and developing new technologies aiming also at reducing health adverse environmental emissions. For achieving this goal it is key to incorporate health and environmental well-being measures.</td>
<td>Infrastructure; Planning; Economy; Environment; Sustainability; Health</td>
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<td><strong>SDG 10</strong>—reduced inequalities</td>
<td>Reducing disparities and inequalities in general and health inequalities in particular can result in reductions in morbidity and mortality. An equal society for all with distributive, redistributive, regulatory and constituent policies (i.e., economic, education, social, fiscal, energy, housing, health) enhances access to education, services and work, among other. For achieving this goal it is crucial to take into account the social and economic gradients of health in order to health and well-being.</td>
<td>Economy; Education; Employment; Justice; Security; Health</td>
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<td>SDG 11—sustainable cities and communities</td>
<td>Improved housing quality, efficient public transport, safe roads, walking and cycling routes can be achieved to enhance the resilience of urban places where individuals live and work. Policies that focus on improving planned urban growth, adequate housing, adequate infrastructures for energy, water and sanitation, access to green spaces in highly populated areas can improve among other objectives air quality, soil quality, water quality, waste management and human health (eg, communicable and non-communicable diseases). For achieving this goal actions need to focus on planned urbanisation, safe drinking water and food security, health systems especially within the urban poor as ways for coordinating health and environmental well-being.</td>
<td>Infrastructure; Housing; Community services; Transport; Planning; Justice; Culture; Land; Environment; Sustainability; Health</td>
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<td>SDG 12—responsible consumption and production</td>
<td>Reducing food waste, improving air, soil and water quality has beneficial impacts on human health and the environment. Sustainable agriculture and tourism, and the local jobs this provide can have a positive impact on the local economy and peoples’ lives. This extends to healthy diets and to safe working conditions which are intrinsically part of genuine corporate well-being responsibility. For achieving this goal there needs to be a focus on the preservation of natural resources/ecosystems and livelihoods of local people to improve the health of terrestrial and aquatic ecosystems (ie, green and blue spaces).</td>
<td>Land; Agriculture; Environment; Sustainability; Economy; Health</td>
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<td>SDG 13—climate action</td>
<td>Reduced vulnerability, enhanced resilience and improved adaptation can provide advances in the health of individuals, oceans, soil, etc. Integration of policies at different levels (ie, community, local, regional, national) is needed for improved education, empowerment and capacity building for all. Climate change carries all manner of additional health threats from new distributions of vectors. For achieving this goal it is vital to emphasise the role education and environmental education have in influencing present and future culture of sustainability for achieving all the SDGs through bringing together individuals, communities, local businesses, local and national governments and public bodies to work together to allow sustainable development for all forever (eg, better health systems, health benefits from reduced human morbidity and mortality, poverty reduction, reduced water pollution and contamination, food security, sustainable energy and transport).</td>
<td>Environment; Sustainability; Education; Early life; Planning; Security; Justice; Culture; Health</td>
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<td>SDG 14—life below water</td>
<td>If the health of aquatic ecosystems and resources is considered, reduced pollution, protection of ecosystems and resources (ie, fish stocks) are stimulated, better planning is achieved. Resulting in local communities having a critical role in supporting sustainable use of water resources (ie, fisheries, tourism) with benefits for hunger and poverty reductions, human health, the environment and economy. For achieving this goal it is crucial to incorporate sustainable planning and conservation of aquatic ecosystems as well as sustainable use of its resources as</td>
<td>Planning; Culture; Land; Environment; Food; Sustainability; Economy; Employment; Health</td>
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<td>SDG 15—life on land</td>
<td>Sustainable use of land and its resources can only be accomplished through policies that take into account local communities and their livelihoods. Sustainable livelihoods have positive benefits on the environment and the health of those working the land. Sustainable terrestrial ecosystems are also source of food which reduces hunger and improves human health. For achieving this goal it is important to understand that protecting and promoting terrestrial ecosystems (ie, soil) is hand-on-hand with marine ecosystems. Special attention should be given to ensuring sustainable food production for a growing population.</td>
<td>Land; Culture; Environment; Agriculture; Food; Sustainability; Planning; Economy; Employment; Health</td>
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<td>SDG 16—peace and justice, strong institutions</td>
<td>Violence, crime and war affect those most vulnerable (eg, children, women and older persons) and poor in society leading to increases in hunger, poverty, ill health. Ensuring peace, reducing all forms of crime, violence, injuries and death rates has positive impacts on the health and well-being of individuals and communities. Implementing sustainable development policies and laws is critical to make societies more just and secure for all. For achieving this goal it is key to ensure individual and community security and safety.</td>
<td>Security; Justice; Economy; Sustainability; Health</td>
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<td>SDG 17—partnerships for the goals</td>
<td>More equitable societies can be achieved through integration and coherence for sustainable development. Monitoring and accountability of all other SDGs and targets is needed to address and support improvements in all areas of society. For achieving this goal it is crucial to involve multistakeholders (eg, governments, private sector, civil society) at the local, national and global levels for more open and participative decision-making processes for sustainable development. For the purposes of this framework, health and well-being awareness should be embedded in all aspects of goal evaluation and achievement.</td>
<td>Economy; Sustainability; Environment; Security; Justice; Education; Infrastructure; Housing; Community Services; Transport; Early Life; Planning; Land; Agriculture; Food; Health</td>
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COPD, chronic obstructive pulmonary disease; SDG, Sustainable Development Goal; UHC, universal health coverage.
between health and well-being and other SDGs, there is a need to operationalise this approach through the identification of specific objectives, and measures or indicators, to monitor their achievement.

Table 3 sets out six examples of major health issues and how they relate to particular SDGs targets (eg. 1.1; 7.2) and current indicators for each target (eg. 1.1.1; 7.2.1). The six examples focused on the synergies between health and well-being, and other SDGs are advanced through specific objectives we propose to support intersectoral action. We argue that these actions seek to improve health and well-being as part of sustainable development. Actions in non-health sectors, aimed at reducing the disease burden arising from unsustainable practices, include infrastructure provision, economy, agriculture and food, in collaboration with the health sector. The improvement of social protection, health systems and services, the reduction of poverty and malnutrition, the access to sanitation, water and hygiene facilities, and the use of clean energy sources are further examples. Simultaneously, actions in the health sector can directly address health problems caused by broader determinants of health, such as the natural (eg. air, water and land pollution), working and built environments (housing quality, urban planning, sanitation and drinking water facilities, ventilation, toxic exposure).

Building on the current context of the SDGs, and framework of proposed indicators for the implementation of the 2030 Agenda for Sustainable Development, Table 3 sets out examples of additional potential new indicators for guiding action, and assesses the extent to which progress is achieved towards the identified SDG targets and indicators. We acknowledge that the discussion about measurement of health and well-being has already started taking place, but argue that this is still at an early stage. The proposed global indicators, updated as of 4 March 2016, are very pragmatic but, in some ways limited. Table 3 seeks to overcome the specificity of the SDGs by illustrating how it is possible to identify synergies among them, their targets and indicators with current health and well-being concerns (eg. malnutrition, respiratory diseases, obesity). By doing this, we argue that, despite the considerations above, it is possible to reconcile the tensions between a more focused health and well-being framework to the SDGs, and a wider integrated approach that considers the interdependencies among goals, targets and indicators across the sweep of sustainable development.

These potential new indicators, specifically encourage connections between health and non-health sectors within the sustainable development agenda. In this way, an integrated approach is created which provides opportunities for more coherent and coordinated action across all sectors. For example, a focus on human rights, equity and basic cultural freedoms is included as affecting health-related sustainable development outcomes. We further comment on the extent to which current global indicators to be measured to assess the progress of the sustainable development agenda are too broad and unfocused. We contend that they need to be more specific and tailored so as to address all connected development topics. One of many of these examples is indicator 11.2.1 which can be linked with four of the six examples presented in Table 3 (ie, respiratory diseases, lung cancer, overweight and obesity, road traffic accidents). Indicator 11.2.1 comprises the ‘proportion of population that has convenient access to public transport, by sex, age and persons with disabilities’, where it is not clear what convenient access means in practice for it to be consistently measured across countries. Indicator 11.2.1 exemplifies one of the ways in which other indicators need expanding, need to be more comprehensive and need to be more efficient in order to support and galvanise the success of the SDGs through the implementation, monitoring and review of a high-quality, more complete and exhaustive set of potential new indicators for achieving sustainable development, such as the ones suggested in Table 3.

As the UN specialised agency for health, and ‘directing and coordinating authority on international health work’, the WHO has a lead role to play in helping to identify and implement an integrating framework for health and well-being for the SDGs. The WHO can serve as the link agency, between SDG 3 and other SDGs, by ensuring all member states fulfil their commitment to the 2030 Sustainable Development Agenda. The WHO can locate this role by locating it within the implementation and monitoring of a health in all policies Agenda for Sustainable Development, providing technical support to developing clear objectives, measures or indicators, for national, regional and global action.

However, given the intersectoral nature of the sustainable development agenda, and the many other actors now contributing to global health cooperation, the WHO alone cannot take forward the health and sustainable development agenda. The integrated framework to the SDGs put forth here requires closer cooperation across the multiplicity of actors that now populate the global health governance landscape. Indeed, such an approach to the SDGs may provide an opportunity to build networks among these diverse actors, bringing together their efforts to work across health issues and sectors. For example, within the health sector, tackling diarrhoeal diseases might bring together the technical expertise of the WHO on disease prevention, control and treatment, financing of infrastructure by the World Bank, local capacity building efforts of the US CDC, research funding for innovative solutions by the Gates Foundation, and community level initiatives by the Global Public-Private Partnership for Handwashing; and in the non-health sector, the development of innovative solutions to water, sanitation and hygiene needs for children of the UN Children’s Fund (UNICEF), advocacy by the UN Development Programme (UNDP) for access to clean water and sanitation as a basic right. This network of
<table>
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<th>Health issue</th>
<th>SDGs targets and current indicators for each target</th>
<th>Proposed objectives (intersectoral actions)</th>
<th>Examples of potential new indicators</th>
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| Respiratory diseases | 1.1 (1.1.1); 1.2 (1.2.1; 1.2.2); 1.3 (1.3.1); 1.4 (1.4.1); 2.1 (2.1.1; 2.1.2); 2.2 (2.2.1; 2.2.2); 3.3 (3.3.1); 3.4 (3.4.1); 3.8 (3.8.1; 3.8.2); 3.9 (3.9.1); 3.a (3.a.1); 7.1 (7.1.1); 7.2 (7.2.1); 7.a (7.a.1); 7.b (7.b.1); 11.1 (11.1.1); 11.2 (11.2.1); 11.6 (11.6.2); 12.c (12.c.1); 13.1 (13.1.1; 13.1.2); 13.2 (13.2.1); 13.3 (13.3.1; 13.3.2) | To improve access to social protection and health systems and services  
To improve nutrition  
To reduce malnutrition  
To improve access to clean energy sources (eg, renewable) to reduce outdoor and indoor air pollution (eg, coal, biomass, radon)  
To reduce exposure to smoke from cooking and heating with coal and biomass  
To improve access to sustainable, clean energy  
To reduce overcrowding  
To reduce smoking and passive smoking prevalence | Proportion of population who have access to social protection and health services—for example, time/kilometres from home, and social support for travel/access  
Proportion of population with adequate food and energy intake  
Proportion of households with access to sustainable and clean energy sources (eg, renewables)  
Reduce the exposure to outdoor and indoor air pollution (eg, coal, biomass, radon) and related respiratory diseases, and deaths by x%  
Number of people living in each house and bedroom  
Reduce exposure to smoking and passive smoking, and related deaths by x% |
| Diarrhoeal diseases | 1.1 (1.1.1); 1.2 (1.2.1; 1.2.2); 1.3 (1.3.1); 1.4 (1.4.1); 3.2 (3.2.1; 3.2.2); 3.3; 3.8 (3.8.1; 3.8.2); 3.9 (3.9.2; 3.9.3); 6.1 (6.1.1); 6.2 (6.2.1); 6.3 (6.3.1; 6.3.2); 11.1 (11.1.1); 11.6 (11.6.1); 12.4 (12.4.1; 12.4.2); 13.1 (13.1.1; 13.1.2); 13.2 (13.2.1); 13.3 (13.3.1; 13.3.2) | To improve access to social protection and health systems and services  
To improve sanitation infrastructure and facilities  
To promote personal hygiene and behaviour change  
To improve water infrastructure and drinking water quality | Proportion of population who have access to social protection and health services—for example, time/kilometres from home, and social support for travel/access  
Proportion of households with access to reliable sanitation infrastructure and facilities  
Proportion of households with access to hand and body-washing facilities  
Proportion of households with access to clean drinking water facilities |
| Malnutrition | 1.1 (1.1.1); 1.2 (1.2.1; 1.2.2); 1.3 (1.3.1); 1.4 (1.4.1; 1.4.2); 2.1 (2.1.1; 2.1.2); 2.2 (2.2.1; 2.2.2); 2.3 (2.3.1; 2.3.2); 2.4 (2.4.1); 3.2 (3.2.1; 3.2.2); 3.4 (3.4.1); 3.8 (3.8.1; 3.8.2); 6.1 (6.1.1); 6.2 (6.2.1); 6.3 (6.3.1; 6.3.2); 11.1 (11.1.1); 13.1 (13.1.1; 13.1.2); 13.2 (13.2.1); 13.3 (13.3.1; 13.3.2) | To improve access to social protection and health systems and services  
To reduce poverty and hunger  
To improve food intake and access to high nutritional food  
To promote sustainable food production and distribution  
To improve access to land  
To improve sanitation, quality of drinking water and personal hygiene  
To mitigate and adapt to climate change to improve food security | Proportion of population who have access to social protection and health services—for example, time/kilometres from home and social support for travel/access  
Proportion of population with malnutrition by age group  
Proportion of people with access to adequate food and energy intake  
Proportion of rural population with access to cultivable land  
Proportion of households with access to sanitation, hand and body-washing and drinking water facilities  
Number of countries taking active actions and...
<table>
<thead>
<tr>
<th>Health issue</th>
<th>SDGs targets and current indicators for each target&lt;sup&gt;29&lt;/sup&gt;</th>
<th>Proposed objectives (intersectoral actions)</th>
<th>Examples of potential new indicators</th>
</tr>
</thead>
</table>
| Lung cancer  | 1.1 (1.1.1); 1.2 (1.2.1; 1.2.2); 1.3 (1.3.1); 1.4 (1.4.1); 3.4 (3.4.1); 3.8 (3.8.1; 3.8.2); 3.9 (3.9.1); 3.a (3.a.1); 7.1 (7.1.1; 7.1.2); 7.2 (7.2.1); 7.a (7.a.1); 7.b (7.b.1); 11.1 (11.1.1); 11.2 (11.2.1); 11.6 (11.6.1); 12.4 (12.4.1); 12.c (12.c.1) | To improve access to social protection and health systems and services  
To reduce smoking and passive smoking prevalence  
To improve access to clean energy sources (eg, renewable) to reduce outdoor and indoor air pollution (eg, coal, biomass, radon) | Proportion of population who have access to social protection and health services—for example, time/kilometres from home and social support for travel/access  
Reduce the exposure to smoking and passive smoking, and related deaths by x%  
Reduce the exposure to outdoor and indoor pollution (eg, coal, biomass, radon) and related deaths by x% |
| Overweight and obesity | 1.1 (1.1.1); 1.2 (1.2.1; 1.2.2); 1.3 (1.3.1); 1.4 (1.4.1); 3.4 (3.4.1); 3.8 (3.8.1; 3.8.2); 11.2 (11.2.1); 11.7 (11.7.1) | To improve access to social protection and health systems and services  
To reduce the intake to high nutritional food  
To reduce sedentary lifestyles and promote physical activity  
To promote walking, cycling, use of public transport  
To improve urban planning, access and use of public green and blue spaces  
To implement public policies that support healthy diets | Proportion of population who have access to social protection and health services—for example, time/kilometres from home, and social support for travel/access  
Proportion of population overweight and obese, by age group  
Proportion of population with diabetes type 2  
Mortality and morbidity attributed to overweight and obesity  
Proportion of population travelling by public transport, cycling and walking, by kilometres/number of journeys  
Reduce the exposure to outdoor pollution, related diseases and deaths by x% |
| Road traffic accidents | 1.1; 1.2; 1.3; 1.4; 3.5 (3.5.1; 3.5.2); 3.6 (3.6.1); 3.8 (3.8.1; 3.8.2); 11.2 (11.2.1); 11.6 | To improve access to social protection and health systems and services  
To promote reductions in alcohol intake  
To improve the efficiency of public transport  
To promote safe walking, cycling, use of public transport  
To improve urban planning and road safety (eg, use of helmets, use of seat belts, speed limits, bicycle lanes, pavements) | Proportion of population who have access to social protection and health services—for example, time/kilometres from home and social support for travel/access  
Reduce the intake of alcohol and related deaths by x%  
Proportion of population travelling by public transport, cycling and walking, by kilometres/number of journeys  
Number of road traffic accidents, injuries and deaths by age group  
Mortality and morbidity attributed to road traffic accidents |
Global Health Governance (GHG) actors could be brought together with community, national and regional organisations to form a focused network around a specific set of SDGs or targets.

Finally, we argue that tables 1–3 together offer an integrating framework that should be applied to ensure other sectors serve as cross-cutting themes to underpin the 2030 Sustainable Development Agenda. While the expansion from 8 MDGs and 18 targets, to 17 SDGs and 169 targets, is seen as a daunting and potentially unmanageable agenda, the framework identifies common and mutually reinforcing actions across the new agenda. In this way, efforts move away from the discrete objectives and institutional mechanisms of sector-specific actions, towards ‘integrated and indivisible’ actions which are innovative and transformative.

CONCLUSION

In this paper, we argue that the implementation of the 2030 Sustainable Development Agenda requires an operational approach to implementation that emphasises integration across the agreed goals and targets. We provide a framework for how health and well-being, as the focus of SDG 3, but also a major cross-cutting theme, as part of a health in all policies approach,22 can be operationalised through health and non-health sector objectives, measures or indicators. Ensuring healthy lives and promoting well-being for all individuals and populations is central to achieving sustainable development. Sustainable development, in turn, is critical to achieving health and well-being. Recognising that all 17 SDGs are linked, connected and interdependent is vital for achieving the SDGs, and now require translating into policy and practice. The framework put forth in this paper sets out a strategy for connecting the health and non-health sectors, closely linking goals and targets for addressing the social, economic, environmental and health determinants and outcomes of sustainable development over the next 15 years.

The proposed health and well-being framework put forward here provides a model for more integrated implementation of the SDGs. The approach complements the HiAP approach, by ensuring that health and well-being are cross-cutting and unifying themes. Importantly, the framework can also be used by other sectors to set particular objectives, measures or indicators which support an integrated approach to implementing the three dimensions of sustainable development which underpin the 2030 Agenda for Sustainable Development. There is nothing special about the themes of health and well-being in this respect. Other overarching sustainability themes could benefit from similar approaches.

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