

Making  
**Sustainable Consumption and Production**  
the Core of the  
**Sustainable Development Goals**

Discussion Paper



Lewis Akenji  
and  
Magnus Bengtsson

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Lewis Akenji<sup>1</sup> and Magnus Bengtsson<sup>2</sup>

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<sup>1</sup> Senior Policy Fellow, Institute for Global Environmental Strategies, 2108-11 Kamiyamaguchi, Hayama, Kanagawa, 240-0115 Japan. [akenji@iges.or.jp](mailto:akenji@iges.or.jp)

<sup>2</sup> Principal Policy Researcher, Institute for Global Environmental Strategies, 2108-11 Kamiyamaguchi, Hayama, Kanagawa, 240-0115 Japan. [bengtsson@iges.or.jp](mailto:bengtsson@iges.or.jp)

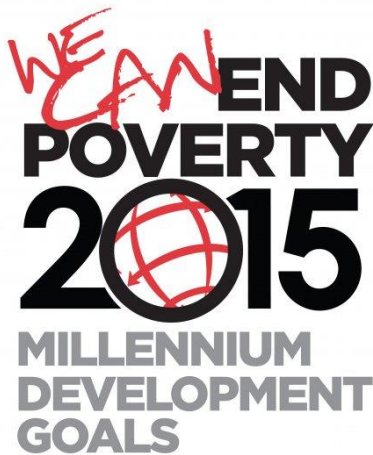
## Background



Governments gathered at the Rio+20 meeting in 2012 agreed to develop a set of goals that would unify efforts and concretize actions towards sustainable development – the Sustainable Development Goals (SDGs). In parallel, discussions have been held on how to design an international framework to follow-up on the Millennium Development Goals (MDGs) when they expire in 2015. Recently it has been decided that these two efforts will be merged into a common SDGs and post-2015 MDGs agenda.



Unsustainable patterns of consumption and production have been declared the primary cause of environmental deterioration. This was clearly recognized already at the United Nations Conference on Environment and Development (UNCED, or the Rio Summit) in 1992, and this recognition has been reconfirmed in all high-level sustainability meetings since then. Sustainable Consumption and Production (SCP) aims to change these patterns; it is thus a policy agenda for addressing the root causes of our ecological predicament while at the same time providing for human well-being and prosperity.



This paper argues that SCP should be reflected in the formulation and implementation of the SDGs. Drawing from international agreements, practical policy experience, and research from a range of disciplines, the intention of this paper is to provide a clarifying framework for scientifically robust, policy relevant and practical goal-setting for SCP within the SDGs. Special attention is given to how SCP in the SDGs can create synergies with other international policy initiatives. The paper highlights two possible options: i) SCP as a stand-alone goal, and ii) SCP as a cross-cutting objective embedded within relevant goals. While the two are not necessarily mutually exclusive, given the competing number of issues for prioritization and the fact that there is also a 10-Year Framework of Programmes on SCP, it is hardly foreseeable that both options can be reflected. Thus the advantages and disadvantages of each of the two options are analysed and discussed. Some basic principles for SCP at a global level are presented, and some recommendations are provided towards the formulation of indicators supporting SCP objectives in the SDGs.

## 1. Introduction: SCP and international mandates

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In 1992 at the Rio Earth Summit world leaders acknowledged that “the major cause of the continued deterioration of the global environment is the unsustainable pattern of consumption and production” (UN, 1992; para 4.3). This central role of sustainable consumption and production (SCP) towards sustainable development (SD) was reaffirmed at the World Summit for Sustainable Development in 2002; SCP was declared once again one of the “overarching objectives of, and essential requirements for, sustainable development” (UN, 2003) - the other two objectives are environmental protection and poverty reduction. At the recent Rio+20 conference, leaders adopted a global 10-year framework of programmes (10YFP) to enhance international cooperation and to support concrete regional and national initiatives towards SCP in both developed and developing countries. The UN Environment Programme (UNEP), serving as secretariat, is preparing to launch several programmes under the 10YFP. As evidenced by these development, SCP has had a consistently strong recognition at the highest international political level for over two decades, and has been embedded at the core of achieving SD. In the formulation of sustainable development goals (SDGs), as mandated in the agreement from Rio+20, SCP should therefore be placed as high priority.

This is especially the case as the SDGs and the follow-up to the Millennium Development Goals (MDGs) will likely be brought under the same framework as the Post-2015 Development Agenda (UN 2013b). In setting the MDGs, most environmental issues were lumped together under MDG 7: to ensure environmental sustainability. It was then assigned targets relating to environmental resources, biodiversity, water and sanitation, and poverty. Attaining the MDGs requires the production and consumption of more goods and services to

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UN High-Level Panel of Eminent  
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Development Agenda

meet the basic needs and aspirations of the poor while keeping within planetary limits - this latter part is however poorly articulated in the existing MDGs. In assessing lessons learnt from the MDGs, the Report of the High-Level Panel of Eminent Persons on the Post-2015 Development Agenda sees a missed opportunity: “Most seriously, the MDGs fell short ...by not addressing the need to promote sustainable patterns of consumption and production” (UN 2013b). The Panel then asks for “a rapid shift” to SCP.

As part of consultations on the SDGs, in October 2012 UNDESA provided a questionnaire to national governments with one of the questions focusing on thematic areas that countries considered priorities for SDGs. The responses from countries were then ranked according to frequency of occurrence. The ten top thematic priorities for national governments were: sustainable energy; food security; water and sanitation; biodiversity protection; desertification/land degradation; sustainable consumption and production; oceans and marine systems; poverty eradication; gender equality; and education (Stakeholder Forum 2013). This is just one of many lists of possible goals that has been developed; however, this one is authoritative and indicative of the priorities of governments - the stakeholders that will be lead actors in the design and implementation of the SDGs. SCP and its key related issues repeatedly appear among most sets of goals that have so far been published.

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In terms of approaches, the High Level Panel sees SCP at the core of SD – “not directly addressed through a single goal” but as a cross-cutting issue to be embedded within other goals (UN 2013b). The Sustainable Development Solutions Network emphasizes the importance of SCP and chooses to reflect this by placing “a central emphasis on decoupling living standards and economic growth from unsustainable resource use and pollution”, and then more specifically

highlighting it under Goal 2: Achieve Development within Planetary Boundaries. Further illustrating the importance accorded the concept, the SDSN sees a need to provide a justification in the form of a question-and-answer: “Why is there no proposed goal called “Sustainable Consumption and Production”?” (SDSN 2013). The Open Working Group on SDGs highlights SCP as a “crucial topic” (OWG 2013), and the survey by UNDESA shows several countries and stakeholders have highlighted the need for SCP in the SDGs. Our conclusion from this brief overview is that there is broad agreement among key stakeholders that SCP should be reflected in the SDGs, perhaps even playing a central role in this global framework. But how it should be included remains an open question. In the rest of the paper we discuss two main options for how SCP can be reflected and highlight some critical aspects that negotiators should bear in mind.

## 2. Options for including SCP in SDGs

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Unpacking the concept of SCP reveals a broad range that touches upon almost all socio-economic activities and their impact on the environment, from deep sea trawling for fish to meditation in a mountain hut. The UN Environment Programme (UNEP) uses this cumbersome yet technically descriptive definition of SCP: "The use of services and related products which respond to basic needs and bring better quality of life while minimising the use of natural resources and toxic materials as well as the emissions of waste and pollutants over the life cycle of the service or product so as not to jeopardise the needs of future generations" (UNEP 2010).

The approach to "decouple" economic growth from resource use and environmental degradation has often been promoted as one of the key means of achieving SCP (e.g. UNEP 2011, SDSN 2013).

Critics however have stressed that decoupling is ineffective for dealing with the challenges presented by the project of sustainability (Jackson 2009). And indeed, after more than two decades of international policy discussions on sustainability (or four decades if one considers the 1972 Stockholm conference as the starting point) there have been only a few examples of countries achieving relative decoupling (where material consumption and associated environmental pressure grow at less rapid rates than the economies) and no example of absolute decoupling, the measure needed to achieve sustainability. The decoupling approach thus remains largely theoretical, based on questionable assumptions, for example of rapid technological progress with limited undesirable side-effects in the form of rebound effects. Despite its widespread use in discussions on SCP there is almost no empirical evidence, and little theoretical justification, that decoupling could actually work in practice at global scale.

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One of the flaws of decoupling as the main approach to SCP is that it gives primacy to the economic dimension of sustainability. It is based on the assumption that economic growth can and should continue, seemingly *ad infinitum*, and it does therefore in practice assign a secondary role to other sustainability objectives. It is politically appealing since it denies the possibility of trade-offs between different objectives. Recent scientific recommendations have highlighted the need to shift beyond the technological fixes that have characterised many SCP initiatives to date and to examine and address the systemic factors that drive continuously growing production and



consumption (Cohen et al. 2013). As such, in order to effectively accelerate a shift to SCP the SDGs would have to go beyond the green consumerism that has characterized many SCP initiatives to date (Akenji 2014). SDGs, associated indicators and implementation arrangements should be developed to address the social and cultural aspects that facilitate and constrain production and consumption patterns.

Already the Agenda 21 recognised the need for a broad approach to achieving SCP. In Chapter 4, titled “Changing Consumption Patterns” it calls for “new systems of national accounts and other indicators of sustainable development” that do not depend on economic growth. Rather there should be “new concepts of wealth and prosperity which allow higher standards of living through changed lifestyles and are less dependent on the Earth's finite resources and more in harmony with the Earth's carrying capacity” (UN 1992 §4.11). This perspective on SCP should serve as a framing for the SDGs, providing a fitting preamble to, and aspiration for them - in keeping with SCP as an “overarching objective” of SD.

SCP can be defined as having two broad and interrelated objectives:

- i. achievement of well-being for all people, and
- ii. keeping negative environmental impacts of socio-economic activities to within Earth's carrying capacity.

SCP has been mentioned as being broad in scope. Chapter 4 of Agenda 21 starts by acknowledging that “Since the issue of changing consumption patterns is very broad, it is addressed in several parts of Agenda 21, notably those dealing with energy, transportation and wastes,” (§ 4.2). As can be seen in the UNDESA list of top country priorities mentioned above, almost all the thematic areas have strong linkages to production and consumption. In other words, the patterns of consumption and production determine the degree of sustainability of the highlighted thematic areas: energy production is related to CO<sub>2</sub> emissions; agricultural practices are linked to food security; industrial pollution affects water quality; biodiversity loss is linked with land use patterns; marine issues are linked with over-fishing and acidification from CO<sub>2</sub>; wood production and mining could lead to desertification and land degradation; gender equality and education are linked to access to resources and better quality of life. SCP highlights both the complexity and interlinkages among sustainability issues. It is reflected as a cross-cutting theme in several multilateral environment agreements (MEAs) and is often highlighted in sustainability initiatives for a broad range of sectors and issues (see Table 1). It is for this reason that SCP becomes both an easily identifiable priority and yet a complex objective to integrate in the SDGs.

**Table 1: SCP is reflected in several MEAs and high-profile sustainability initiatives**

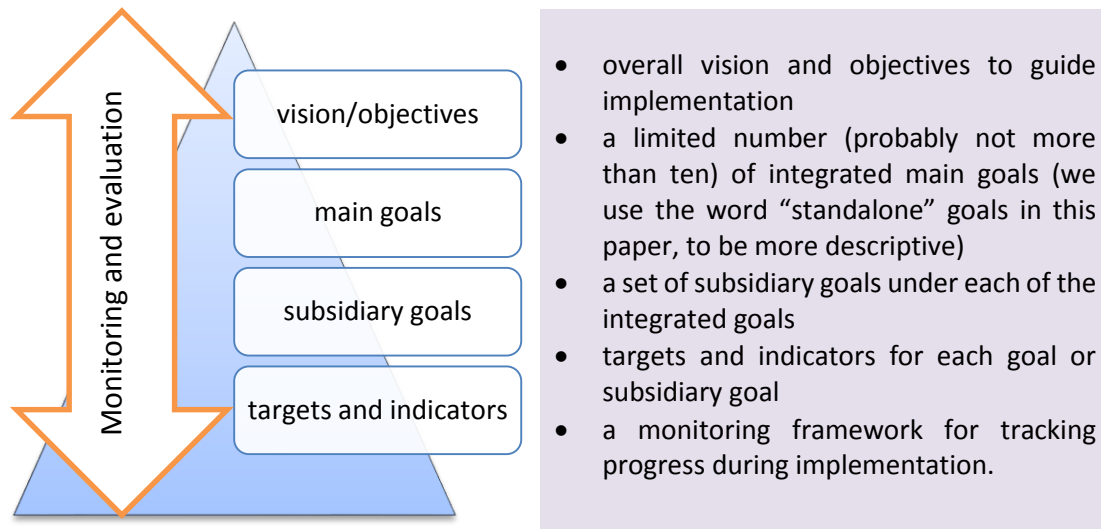
Main sustainability theme	Initiative or MEA		Related SCP objective, goal or target
Food security	Zero Hunger Challenge	Hunger	<ul style="list-style-type: none"> <li>• achieve 100 percent access to adequate food all year round;</li> <li>• end malnutrition in pregnancy and early childhood;</li> <li>• make all food systems sustainable;</li> <li>• increase growth in the productivity and income of smallholders, particularly women;</li> <li>• achieve a zero rate of food waste</li> </ul>
Energy	Sustainable Energy for All Initiative (SE4All)	Energy	<p>Goal to achieve sustainable energy for all by 2030, including:</p> <ul style="list-style-type: none"> <li>• energy access,</li> <li>• renewable energy</li> <li>• energy efficiency</li> </ul>
Biodiversity	Strategic Plan for Biodiversity 2011–2020, under Convention for Biodiversity	Plan for Biodiversity 2011–2020, under Convention for Biodiversity	Aichi Biodiversity Targets require that "by 2020, at the latest, Governments, business and stakeholders at all levels have taken steps to achieve or have implemented plans for sustainable production and consumption and have kept the impacts of use of natural resources well within safe ecological limits." (COP 10 Decision X/2 Strategic Plan for Biodiversity 2011-2020)
Hazardous Waste	The Basel Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal	Basel Convention on the Control of Transboundary Movement of Hazardous Wastes and their Disposal	<p>Seeks to address issues arising from generation and disposal of dangerous wastes resulting from production and consumption practices. It takes a life-cycle approach and places restrictions on movements of hazardous wastes from developed to developing countries.</p> <p>It also has a partnership programme that has encouraged SCP in several sectors – e.g. establishing guidelines on the sound management of end-of-life mobile phones and computing equipment</p>
Forestry	The Forest Principles		state that policies and programmes for the sustainable conservation and management of forests should take into account "all aspects related to the production, consumption, recycling and/or final disposal" of forest products. It includes explicit recommendations for countries to undertake environmental impact assessments and adopt national forestry action plans. In 2001 14 international organizations formed the Collaborative Partnership on Forests, with a mission to promote the sustainable management of forests, including the Food and Agricultural Organisation, World Bank and UNEP.

Source: UNEP 2012a; UNTST 2013



Based on previous international sustainability strategies and goals (for example, Agenda 21, MDGs, Montreal Protocol, several national SD strategies and action plans), SDG Open Working Group outcomes and reports so far (UN 2013b, OWG 2013), as well as on expert recommendations (Griggs 2013, UNEP 2013), the SDGs would likely be structured in the following manner:

Figure 1: A framework for SDGs



Source: authors

An effective framing of SCP in the context of the SDGs, with associated indicators and implementation arrangements, would require:

- i. a thorough understanding of the **drivers** of production and consumption, including the social, economic and cultural context in which these activities take place (e.g. inequity, commodification of culture and many forms of human interaction, individualism and competition, marketing and advertising practices, corporate governance and the design of financial markets);
- ii. understanding **patterns** of production and consumption in society (planned obsolescence in products, inefficiencies, peer-to-peer influence), including how they respond to the identified drivers; and
- iii. using a life-cycle perspective, prioritising areas where production and consumption have the highest **impact** on society and the environment (food and agriculture, transport and mobility, housing and construction, and manufactured goods)

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*As SCP is already officially designated by UN member states as one of the “overarching objectives, and essential requirements for, sustainable development”, it is expected to be included among the broader objectives of the SDGs.*

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The above would be used in setting an SCP goal and/or subsidiary goals, indicators and concrete targets to support SCP objectives. This is examined in the following sections, with two main options discussed. The first option is to make SCP a standalone goal, one of the main goals of the SDGs. The second option is to break it down into its various practical key issues and then, as a cross-cutting SC objective, embed it as subsidiary goals and indicators across the main goals. The practicalities of each of these options are discussed, as well as their advantages and disadvantages. However, the tendency to

recommend one “better” option is resisted. The intention of this paper is to provide a clarifying framework for scientifically robust, policy relevant and practical goal-setting for SCP within the SDGs. Also, as SCP is already officially designated by UN member states as an overarching objective of SD (UN 2003), it is expected to be included among the broader objectives of the SDGs. Thus this option is not discussed here in further detail.

## 2.1 SCP as a stand-alone goal

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As a stand-alone goal SCP would be highlighted as a top-priority for international and national policy and action. In addition to being a policy goal, it would be clearly recognizable for individual citizens and consumers; thus contributing to easier communication. With the overall objective of achieving well-being for all while minimising negative impacts on the environment, the goal will then be broken down to a set of subsidiary goals, each with clear targets and concrete, measurable indicators.

There are both advantages and disadvantages to having SCP as a stand-alone goal. If the goals are meant to integrate all the dimensions of sustainability, SCP is a strong vehicle for such integration. It brings together economic elements of production and consumption, social aspects driven by and resulting from production and consumption patterns, and environmental impacts from across product life-cycles. Such inherently integrative nature of SCP means that subsidiary goals, and targets cannot be effectively dealt with in silos, and would require a more systemic approach.

Another major advantage of SCP as a stand-alone goal is that it would immediately focus political attention of all stakeholders and demand action at local, national and international levels. It would mean, for example, bringing attention to sustainability issues from consumption and production patterns in the current growth-oriented economic system, the often misrepresented lack of clear

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*As a stand-alone goal, SCP would bring attention to the often misrepresented lack of clear correlation between continuous economic growth and attainment of well-being, and the extent to which small "green" individual consumer actions at the fringes of economic activity fail to address the urgency and complexity of economic unsustainability.*

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correlation between continuous economic growth and well-being (Nair 2011), and the extent to which small "green" individual consumer actions at the fringes of economic activity fail to address the urgency and scope of the complex unsustainability of the economic system (Akenji 2014). Issues of health, equity, livelihoods would take centre stage on the social sustainability side. Effects of production and consumption on the environment would also become focal points. Resource extraction and the associated social and environmental consequences; land use and biodiversity loss; industrial pollution and effects on water, air and soil quality, issues which have long been skirted because of political

expediency would rightfully have to be addressed. Actions on these issues would also be backed by resources mandated under the Post-2015 Development Agenda, which will affect development aid flows and spending priorities.

Shifting to SCP involves complex systemic issues. For SCP to be practically implementable as a goal would require nothing short of a critical review of the culture of consumerism that become pervasive through mass media and advertisements; has been internalised by billions of consumers around the world; and which has come to define modern macro-economic thinking and the existing economic system. The SDG mandate from Rio+20 asks for a set of clearly defined goals on priority issues; SCP is notably broad, and there is no clear definition of its boundaries.

Placing SCP as a stand-alone goal would mean it partly overlaps and competes with all or most other SDGs. It would require that most other areas - energy, food, health, etc, which are related with production and consumption of goods and services - be addressed both under the SCP goal and as separate stand-alone goals. This then presents a further challenge of how to design the other main goals, if they are already addressed under SCP. Perhaps the question here is less about the nature of the concept of SCP and its suitability as a main goal, but the strength

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*Negotiations and previously agreed goals on climate change have shown how agreements on pressing issues do not necessarily always arrive at good results; in this case, the climate change problem has instead gotten worse during the period of implementation of the Kyoto Protocol!*

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of the mandate for the Post-2015 Development Agenda and its ability to accomplish truly ambitious SDGs.

As regards the advantage of giving higher visibility, in a sense the 10-Year Framework of Programmes for sustainable consumption and production (10YFP) already raises the profile of SCP. The 10YFP was adopted at the same Rio+20 meeting that gave the mandate for the SDGs. Accordingly, over the next 10 years a set of programmes will be developed to support implementation activities at national and regional level with the objective of changing production and consumption patterns. With an SCP 10YFP and an SCP SDG, there will be some overlap in issues addressed and periods of implementation. If SCP is placed as a stand-alone SDG, it should complement rather than compete with the 10YFP. However, this would require good coordination; care should be taken to prevent an unproductive turf war and fight over limited resources and policy attention by different parts of the UN system. A question arises however whether, with limited resources dedicated to sustainability issues, it is realistic to expect that one theme, SCP, despite its acknowledged importance, would be accorded such political space and the necessary resources provided to support implementation.

There is the risk that divided attention between SCP under the SDGs and SCP under the 10YFP would thin down the potential results. Negotiations and previously agreed goals on addressing climate change as an independent MEA have shown how agreements on pressing issues do not necessarily always arrive at good results; in this case, the climate change problem has instead gotten worse during the period of implementation of the Kyoto Protocol!

**Basic criteria of the 10YFP programmes:**

- Contribute to meeting the goals and principles of the 10-year framework of programmes, as well as to the three pillars of sustainable development;
- Respond to national and regional needs, priorities and circumstances;
- Be based on life cycle approaches, including resource efficiency and sustainable use of resources, and related methodologies, including science-based and traditional knowledge-based approaches, cradle to cradle and the 3R concept, as appropriate;
- Be based on a solid scientific and policy knowledge base;
- Be consistent with international obligations;
- Encourage the involvement of all relevant stakeholders;
- Consider the use of a mix of efficient instruments such as education, training and data collection, as well as research activities in each programme, as appropriate;
- Promote synergies with work in similar areas, in order to leverage resources towards mutual objectives and minimize duplication of ongoing efforts, including other international forums.

Source: UNEP, website of the 10YFP: [www.unep.org/10yfp](http://www.unep.org/10yfp)

For SCP to be a standalone goal there needs to be an assessment of the differences between the mandate for the SDGs and the 10YFP, and for the SCP SDG to address areas the 10YFP does not cover. However, the 10YFP is a flexible framework that is only gradually taking shape. The initial five indicative programmes are: Consumer information; Sustainable lifestyles and education; Sustainable public procurement; Sustainable buildings and construction; and Sustainable tourism, including ecotourism. Both member states and experts have signalled that the initial list of programmes is not comprehensive enough, and fails to capture the more strategic issues and urgent aspects of SCP. The list of programmes from Rio+20 however is only indicative, and countries and stakeholders have the option of proposing more programmes where relevant. Food and agriculture has already been identified as a strong candidate and the 10YFP could include a programme on this topic.

The question then is which approach will be more successful towards realising the SCP objectives: to strengthen the 10YFP further by requesting more programmes and providing it more resources, or to demand for SCP as a standalone SDG. Straddling both could drop SCP between the cracks of policy debate.

**Table 2: Advantages and disadvantages of SCP as a stand-alone SDG**

Advantages	Disadvantages
Puts a pointed focus on SCP as a core objective of SD and an area for action	May overlap and compete with other SD goals since SCP, as an overarching and cross-cutting approach to SD, is a part of all other sustainability goals
Broadens the number of international high profile mandates directly addressing SCP	Requires careful coordination with the 10YFP to avoid duplication and unproductive competition
Makes it easier to highlight well-being as the primary objective of consumption and production	Limitations of precise indicators and lack of data for measuring concrete targets, especially as regards social aspects, might make implementation difficult
Makes it easier to communicate SCP to all stakeholders, including individual consumers and citizens	Could establish SCP as a siloed activity to be dealt with in isolation from other areas.
	Might be regarded mainly as an environmental goal with implementation responsibility assigned to government bodies with limited resources and weak influence in the policy process

## 2.2 SCP as a cross-cutting objective embedded in other goals

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This second option places SCP not as a standalone goal but embeds it in other relevant goals, in certain cases as subsidiary goals. In this case, the main goals will be defined and, under each, SCP will be broken down into its various practical components (e.g. equity, resource use, waste) and embedded where and as appropriate. Realisation of this approach will again have to be through identifying indicators for SCP and then setting concrete targets for each. As such, SCP would be spread across different thematic areas; it could fall under goals such as food and energy security, biodiversity protection, water, etc., serving as a cross-cutting theme of the SDGs.

This is an approach that has already been taken with goals under different multilateral environmental agreements (see Table 1). Phasing out production and consumption of ozone depleting substances is central to the Montreal Protocol; the Aichi Targets adopted by the Convention on Biological Diversity require that by 2020 stakeholders at all levels would have moved towards "sustainable consumption and production and have kept the impacts of use of natural resources well within safe ecological limits"; all eight Millennium Development Goals are in a sense based on SCP tenets, although mainly from the perspective of increasing consumption opportunities for low-income segments. Experiences from developing and working to achieve these previous goals could be brought to bear if the cross-cutting option is taken.

As with the standalone option, SCP as a cross-cutting goal also presents some advantages and disadvantages. The first advantage of embedding SCP in all other SDGs is that it allows the full breadth of the concept to be potentially explored; the SCP approach can be used to create interlinkages and connect the dots between the inherently complex but ultimately integrated dimensions of SD: climate change, water scarcity, energy shortages, global health, food security, women's empowerment, biodiversity loss, atmospheric pollution, waste generation. This makes SCP the mainstay of SD and in fact brings it around to serving as the "overarching objective" that the 2002 Johannesburg Summit declared it to be.

By the same token, embedding it as a cross-cutting topic runs the risk of causing confusion with SCP perceived as being everywhere and nowhere at once. Practically speaking, at the stage of developing the goals and during implementation, without adequate knowledge and dexterity SCP could be spread thin and weakened. It could end up falling between the goals, especially where certain aspects do not fit well under these goals. A critical aspect of this approach lies in the setting of targets and design of indicators.

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*As a cross-cutting goal, the SCP approach can be used to create interlinkages and connect the dots in the complexity of SD challenges: climate change, water scarcity, energy shortages, global health, food security, women's empowerment, biodiversity loss, atmospheric pollution, waste generation.*

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Weak or ambiguous targets that are hard to monitor and indicators dogged by low data availability and poor data quality could hamper implementation.

More fundamentally, SCP calls for a paradigm shift and given the current climate of limited political will it might be challenging to embed it in the main goals in such a way that it provides a strong impetus for systemic transformation. Yet these issues dog also the implementation of the 10YFP - the SCP focused global framework for action.

The option to embed SCP provides an opportunity to complement and strengthen the 10YFP. In contrast to a standalone SCP goal that might compete with the 10YFP mandate, an integrated cross-cutting approach could identify the thematic areas where the 10YFP falls short and reflect these in the development of indicators and targets for SCP under the SDGs. This would in practice serve as a bridge between the two mandates, where a complementary set of indicators is used for the 10YFP and for SCP components of the SDGs. During implementation, a common monitoring framework could then be developed to track progress towards overall SCP objectives and to report accomplishment (or the lack thereof) of set targets. In this case the 10YFP Secretariat under UNEP would also have a defined role to play in the implementation of the Post-2015 Development Agenda.

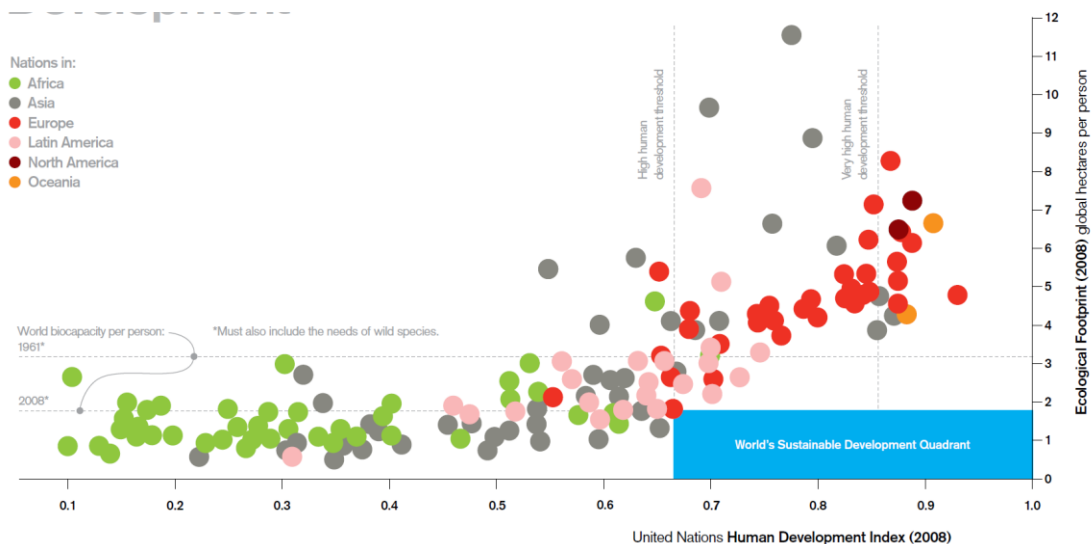
**Table 3: Advantages and disadvantages of SCP as a cross-cutting SDG**

Advantages	Disadvantages
Reflects that SCP is a cross-cutting objective rather than a sectoral issue	SCP less visible up-front
Could generate more resources for SCP implementation	The full breadth of SCP will not be addressed since some aspects of production and consumption will not be possible to fit under the main goals.
Stresses demand-side management (setting limits to consumption) in all major areas	
Facilitates mainstreaming of SCP by mandating sectoral agencies to work towards SCP objectives	
Easier to achieve complementarity with the 10YFP	

### 3. Capturing the essence of SCP: Basic principles for the design of indicators and targets

#### 3.1 Reflecting the global relevance of SCP

**Figure 2: The uneven distribution among nations of Human Development and Ecological Footprint.**



Source: Global Footprint Network 2011 Annual Report

Having analyzed the advantages and disadvantages of the two of presenting SCP in the SDG framework, this section discusses some basic principles that should underpin wither approach. The SDGs are supposed to be universal, applying to all countries of the world. In this respect, a challenge to the SCP theme of the SDGs would be to reconcile the differences in quality and quantity of production and consumption between developed and developing countries. Not only have historic levels of consumption by developed economies been high, present rates of consumption remain much higher than in developing economies, and above sustainability thresholds. On the other hand, developing economies still need to increase production and consumption in several areas in order to meet basic levels of well-being, and most are presently operating below ecological limits. Figure 1 illustrates this situation with advanced countries scoring high on Human Development Index but clearly exceeding available biocapacity, and developing countries lagging behind on human development but also in most cases consuming less than available ecological space. SCP therefore means different, sometimes opposite, things to developed and developing countries. For the SDG process it is a particular challenge to formulate goals, indicators and targets that reflect this reality.

Policy makers have already acknowledged this dichotomy. Agenda 21 declares that “Although consumption patterns are very high in certain parts of the world, the basic consumer needs of a large section of humanity are not being met. This results in excessive demands and unsustainable lifestyles among the richer segments, which place immense stress on the environment. The poorer segments, meanwhile, are unable to meet food, health care, shelter and educational needs” (§ 4.5).

This difference between developed and developing countries highlights three contentious aspects of SCP:

- Equity among populations and equal access to ecological resources to meet well-being needs;
- Fairness in distribution of burden and damages from historic and present unsustainable consumption and production;
- Differences in capacities of developed and developing countries to address the problems of unsustainable consumption and production.

Addressing these three would go a long way to easing implementation of SCP objectives in the SDGs. Agenda 21 recommends “a multipronged strategy focusing on demand, meeting the basic needs of the poor, and reducing wastage and the use of finite resources in the production process” (§ 4.5). However, the current development paradigm is mainly based on the idea of “catching up”, meaning that low-income countries are assumed to gradually approach the levels of wealth and material standard “enjoyed” by industrialised countries. The rich countries are basically assumed to continue on a business-as-usual track, getting increasingly affluent, while making efforts to “decouple”. This idea might have been viable in the past but this is no longer the case. On a crowded planet with a rapidly degrading resource base the “catching up” model of development needs to be replaced with a new vision of “contraction and convergence”. This vision is based on the following two principles:

- i. Reduced levels of consumption by developed countries. For the SDGs to be seen as applicable to all, industrialized countries need to, while ensuring the well-being of their citizens, commit to reducing their level of material consumption. This is as much desired as it is imperative in order to give the Post-2015 Development Agenda fairness and legitimacy.
- ii. Increased quality of consumption by developing countries. Poverty is unsustainable; developing countries need to increase the level of consumption of low-income groups, especially of basic necessities, to at least meet minimum requirements for health and dignity, while adopting the most sustainable methods available to avoid causing the same levels of ecological harm as has been seen with the developed countries.

The upshot of such an approach is that a reconciliation of SCP goals between developed and developing countries would eliminate extremes of poverty and material wealth, and adopt new ways of producing and/or meeting needs in society that are less ecologically damaging.

It is, however, important to recognize that in all countries, even the least developed ones, exists an affluent elite enjoying material standards that exceed what is sustainable. The onus for reducing consumption levels cannot be placed only on advanced countries. Similar changes should be expected from the rapidly growing consumer class in the developed world. In order for the SDGs to be universal, goals and targets would have to reflect this reality.

### 3.2 Towards a monitoring framework for SCP: General principles

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As pointed out above, SCP is a broad agenda that is related with basically all economic sectors and many aspects of society. There have been a large number of efforts to formulate SCP indicators (e.g. UNEP 2008, ETC/SCP 2010) attesting to how difficult it is to capture the breadth and complexity of SCP in just a few metrics. However, the SDG process would need to do just this: to establish a few headline indicators that capture the most essential elements of a transition to SCP. The intention in this paper is not to present a fully-fledged global SCP indicators framework for the SDGs – that is part of the SDG negotiation process. How SCP indicators can be designed to effectively represent SCP objectives and trigger meaningful policy action depends on which of the two options discussed above is taken as well as on how main goals and subsidiary goals in general are set. What we try to do in the following is to highlight some principles that could guide the formulation of indicators and to point out some concrete opportunities. At the general level, the SCP indicators used in the SDGs should be able to demonstrate two things: whether human impact on planet Earth is decreasing towards sustainable levels, and whether people's quality of life is improving. We elaborate these two points in the following sections.

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*For the SDGs to be seen as applicable to all, industrialized countries need to, while ensuring the well-being of their citizens, commit to reducing their level of material consumption. This is as much desired as it is imperative in order to give the Post-2015 Development Agenda fairness and legitimacy.*

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#### *a) Ecological sustainability.*

The SDGs should reflect the need to protect the life-supporting environmental systems upon which human wellbeing ultimately depends. However, for the design of indicators in the context of the SDGs it may not be feasible to try to monitor the state of all relevant environmental systems. A more feasible approach would be to focus on the key drivers of environmental degradation.

One way of doing that is by measuring the **ecological footprint per country and per capita**. This approach is more widely understood outside of academic circles. Another is monitoring aggregate **material consumption**, an indicator that adds up a society's consumption of natural resources (mainly metals and ores, biomass, fossil fuels, and construction minerals). There are now established methodologies and databases available for Material Flow Accounting (MFA) that make it possible to assess resource consumption of individual nations (e.g. Eurostat 2012). Such an aggregated pressure indicator is not a perfect measure of environmental impact. This can be illustrated by the fact that a ton of mercury has the potential to cause more harm than a ton of sand but the actual impact depends on how these materials are handled. However, the material consumption indicator has become widely accepted and is now being used by a number of countries, including the EU and Japan, as a strategic sustainability indicator. In addition it is worth noticing that countries recently agreed on internationally harmonized standards for the System of Environmental-Economic Accounting (SEEA). The gradual implementation of this framework over the coming years will generate improved availability and quality of data. This will enhance countries' capacity to effectively monitor the state of the environment and to better understand drivers of environmental degradation. These emerging opportunities need to be fully exploited when designing a global monitoring framework for sustainable development.

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*Resource intensity (material consumption/GDP), a commonly used metric, is a relative indicator that fails to show whether an economy's ecological pressure is actually increasing or decreasing. As an indicator for monitoring progress towards SCP we argue that absolute measures of resource consumption are preferable over relative decoupling (or efficiency) metrics.*

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The MFA-based indicator discussed above has one major weakness as a metric for monitoring progress to SCP. It accounts for material consumption based on where natural resources are extracted and used in production, not based on where products and services are consumed. While such information can be valuable, it fails to reflect effects of international trade and globalization. With this accounting principle countries that are outsourcing industrial production abroad will seem to be reducing their material consumption. However, if one considers final consumption of goods and services as the driving factor of resource extraction and industrial production it would make more sense to account for resource consumption based on where final consumption takes place. To capture this dynamic, there are now methods available for calculating such an indicator, the Material Footprint (Wiedmann et al. 2013). For many policy applications this indicator provides more relevant information than indicators using production based accounting. We therefore argue that **consumption based indicators** should be seriously considered for inclusion in the monitoring framework for the SDGs.

Many policy applications of material consumption indicators are using metrics expressed in relative terms. Resource intensity (material consumption/GDP) is a commonly used metric. Such a relative indicator can convey something about the composition of a country's economy and the structural shifts that take place over time. However, it fails to show whether an economy's ecological pressure is actually increasing or decreasing. This observation is related to the discussion on the shortcomings of the decoupling approach in section 3. As an indicator for monitoring progress towards SCP we argue that **absolute measures of resource consumption** are preferable over relative decoupling (or efficiency) metrics.

*b) Social sustainability.*

The objective of SCP is not only to limit negative impacts on the Earth's life-supporting systems but also to provide for human well-being within ecological limits and to promote equity.

**Well-being.** Improved human wellbeing is at the heart of SCP and the SDGs need to establish ways of monitoring whether human society is making progress towards this objective. In practice, GDP has often been used as a proxy for welfare and well-being, the logic being that when countries get richer their citizens get better off. However, there is now a large body of research showing that the relationship between level of economic activity and well-being is far from straightforward. Also in policy circles there is now a growing recognition that GDP is not suitable as a well-being indicator, at least not in isolation. Responding to the calls for better indicators in this domain studies in happiness and well-being are now a very active research area. These activities involve not only academic institutions but also international organisations. The OECD, for example, has developed its Better Life Index with a view to providing a more multifaceted assessment of how well their member countries succeed in providing favourable conditions for human well-being. Several developed countries have recently developed, or are in the process of developing, accounting frameworks for quality of life or well-being. Bhutan's Gross National Happiness index is a developing country initiative that has drawn significant attention. There is thus a rapidly growing body of experiences for the SDGs process to draw from.

**Equity.** Inequity can be regarded as unsustainable in its own right but it can have negative implications for sustainability also indirectly. High or increasing disparity in a society can easily trigger social tension and unrest, even open violence. Large gaps between rich and poor can also stimulate high levels of consumption of positional goods used to signal social status. Citizens in less unequal societies have been found to have less need for this type of consumption since social status is reflected in other ways than through material consumption (Jackson 2009). Although (in) equity, has many dimensions the most commonly used indicator is the GINI coefficient based on household income. We argue that social disparity is a key dimension of SCP that should be addressed in the SDGs. The GINI coefficient could be one strong candidate since it is well established and data availability is relatively good.



## 4. Conclusion

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Shifting to SCP will require fundamental changes in the way society operates and how we live our lives. Such a full-scale transition will take considerable time; thus given the urgency and magnitude of unsustainability, and the central role of consumption and production, there is need for immediate forceful action to bring the transition in motion. The SDGs, which are expected to be in place for a 15-year period starting from 2015, should serve as a catalyst to kick-start this societal transformation. This requires addressing the major drivers of consumerism and overconsumption, as well as unequal consumption opportunities, in modern society. Dealing only with the symptoms, and addressing only the politically less challenging issues (the proverbial low-hanging fruits) will not result in the kind of changes needed for putting our civilization on the track to sustainability. The goals and indicators of the SDGs, and the associated action plans for implementation, must be formulated from this perspective.

Furthermore, SCP as reflected in the SDGs must be coordinated with the 10YFP to ensure complementarity and synergies. An immediate opportunity for such coordination is through the 10YFP UN Inter-Agency Coordination Group. The setting of indicators and targets for both the SDGs and the 10YFP is a foundation for complementary operation. Together both programmes would need a comprehensive set of indicators that would consolidate environmental, social and economic elements into a common framework for monitoring progress. A periodic report as such would show: a) how production and consumption patterns contribute or fail to contribute to well-being of people; and b) how prospects of achieving wellbeing by future generations are threatened or safeguarded by current production and consumption activities.

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