A Toolkit of Policy Options to Support Inclusive Green Growth

Submission to the G20 Development Working Group by the AfDB, the OECD, the UN and the World Bank¹

¹ The UN contribution was coordinated by UNDP and included inputs from in particular FAO, IFAD, ILO, UNEP, and WFP.

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Highlights

Much of green growth is about good policies—addressing market failure and "getting the price right" by introducing environmental taxation, pricing the use of scarce natural resources and pollution (such as carbon pricing), defining and enforcing property rights, and reforming inefficient subsidies. Integrated policy approaches to growth are critical for enabling the private sector to undertake needed investments and innovations and for getting both consumers and businesses to internalize the true costs of their behavior.

This toolkit focuses on inclusive green growth—growth that not only helps green economies, but also helps move towards sustainable development by ensuring environmental sustainability contributes to, or at least does not come at the expense of, social progress.

While we have good reason to think that improved environmental performance will benefit the poorest and most vulnerable, green growth policies must be carefully designed to maximize benefits and minimize costs for them, particularly during the transition. There is thus a critical need for policy design that also ensures that skills are upgraded and that jobs are decent, that vulnerable groups are not marginalized or left behind, and that revenues from fiscal reforms are also channeled into broader social protection and health measures.

A number of the tools that will be mobilized to implement inclusive green growth policies are "classic" public management tools, but this document focuses only on the most relevant instruments vis-à-vis green growth in developing countries, as these instruments are widely known and implemented the world over.

What this toolkit aims for instead is to provide policy-makers with:

- A framework to help develop inclusive green growth strategies that are well anchored into countries/regions/cities' broader development goals, and that efficiently and consistently combines the many instruments that are needed in a coherent policy package.
- An overview of some of the key tools that specifically address the challenges raised by making growth green and inclusive. Quick technical descriptions of these tools (or policy instruments, methodologies and approaches) are offered along with suggested sources for further details.
- A brief discussion of knowledge sharing and capacity building challenges and solutions, including the Green Growth Knowledge Platform (GGKP) developed by a number of international organizations (IOs) to identify knowledge gaps, remediate these and create communities of practice.

This toolkit does not pretend to be exhaustive and should be understood as a initial iteration on a broad and emerging policy arena. It could therefore become a living document that could be periodically updated as new tools and instruments to support inclusive green growth are developed. Further, continued consultation on these tools amongst the various institutions (IOs, think tanks, bilateral donors) that support inclusive green growth could help lead to common approaches and practices and promote a better understanding of how different approaches and tools complement each other.

Given the relevance of these tools for inclusive green growth, a process in which IOs and relevant partner institutions work together towards the harmonization and complementarity of tools and practices relevant for fostering inclusive green growth is desirable. In particular, the G20's highlighting or endorsement (whichever appropriate) of one or several of these initiatives and knowledge sharing activities (notably the Green Growth Knowledge Platform described in Section 4) would facilitate the work and yield increased benefits for countries. One option to make this a living toolkit would be to develop it in a "wiki" type approach, as a program under the broader Knowledge Platform.

1. Introduction

In 2012, the Mexican Presidency of the G20 introduced inclusive green growth as a cross-cutting priority on the G20 development agenda. The second meeting of the G20 Development Working Group (DWG), hosted by the Government of the Republic of Korea, took place in Seoul the 19th and 20th of March 2012. As agreed during the first DWG meeting, this second meeting focused on the priorities for their presidency in the first half of 2012: infrastructure, food security and inclusive green growth (IGG). At its Seoul meeting, the DWG also agreed that IGG co-facilitators and relevant IOs (the AfDB, OECD, UN, and World Bank) should work together in 2012 to develop a non-prescriptive Good Practices Guide/Toolkit on enabling national policy frameworks for inclusive green growth to support countries who voluntarily wish to design and implement affordable and inclusive green growth policies, with the aim of achieving sustainable development and poverty alleviation.

Within the G20 process, the DWG has fully recognized that inclusive green growth is a key element of long term sustainable development. In addition, the DWG has emphasized that embarking on inclusive green growth must not become a prescriptive conditionality for developing countries and G20 countries alike to access international assistance and resources. Instead, the international community must come together to support developing countries seeking to put in place country-driven and nationally-appropriate tools that foster economic growth which is both environmentally sustainable and socially inclusive. Inclusive green growth will not happen on its own, deliberate policy and investment decisions need to be taken at all levels, local to global, to ensure that economic growth is in fact green and inclusive.

The policy package needed to implement inclusive green growth instruments will differ across countries depending upon their national circumstances and level of development. For example, poorer countries are more likely to find sustainable agriculture (Box 1) than improved industrial practices at the heart of inclusive green growth. The economies of developing countries, especially low income countries (LICs), frequently exhibit characteristics that can complicate the implementation of inclusive green growth policies. These often include:

- High dependence on natural resources for both livelihoods and economic growth
- High degree of vulnerability to climate change
- Lack of basic infrastructure and services
- Large informal economies
- High levels of poverty and inequality
- High population growth rates
- Rapid urbanization processes and growth of urban areas
- Limited capacity for policy development, financing and implementation
- Limited public and private capacity for technological innovation and investment
- Severe economic, social and ecological threats from energy, food and water security

- Premature deaths due to pollution, poor water quality and diseases associated with a changing climate
- Underdeveloped financial markets and limited access to savings, credit and insurance products

Box 1. Inclusive Green Growth and agriculture and fisheries

Sustainable growth in agriculture is a key component of inclusive green growth. Agriculture- crops, livestock, forestry and fisheries- is the steward of most of the world's natural resources. The crop and livestock sectors use 70 percent of freshwater resources and, together with forestry, occupy 60 percent of the earth's land surface. Oceans cover 70 percent of the planet's surface and sustain fisheries and aquaculture, which accounts for a growing share of land and freshwater use. Agriculture produces food and raw materials for the bio-economy-including textiles, building materials, bio chemicals and renewable energy. Agriculture is an important economic activity especially in developing countries where it is the source of livelihood for the large majority of the extremely poor, drives economic development and creates green job opportunities. Agriculture is closely linked with the quest for ensuring a sustainable development path that can ensure food security and proper nutrition for 9 billion people in 2050.

Ultimately, the billions of men and women who farm, keep livestock, fish, manage forests, and run agribusinesses will determine whether inclusive green growth becomes a reality. From poor smallholders to multinational corporations, they are stewards of natural resources, and they take risks and make investments every day in managing their enterprises. Properly applied, the tools in this toolkit can help guide their decisions to reflect true scarcity values of resources, take account of positive and negative social and environmental impacts and put agriculture onto a more sustainable path.

The motivation for inclusive green growth policies varies: the need to better harness natural resources for meeting basic needs, poverty alleviation, and providing sustainable livelihoods and job creation; the desire to mobilize resources and reduce burdens on public finances, while improving the environment; reduce vulnerability to environmental shocks and natural resource bottlenecks; or the goal of fostering new growth and employment opportunities.

Implementing inclusive green growth is a significant challenge. The scale of changes implies that countries will have to take "transformational" actions that redirect investment flows within and across sectors. Isolated project interventions alone will not suffice. However, not everything has to be done at once. An important contribution that a strategic framework can make is to help identify which interventions are urgent and which can wait; which can help address some of the immediate and critical challenges of developing countries and which imply trade-offs.

And there are important complementarities between inclusive green growth and poverty reduction. These include: more efficient and expanded coverage of water and energy services; reduced the health impacts associated with environmental degradation; reduced costs and increased productivity from technologies that also ease environmental pressure. Given the centrality of natural assets in low income

countries, inclusive green growth policies can reduce vulnerability to environmental risks and increase the livelihood security of the poor. ²

The international community's focus must be to help developing countries catalyze investment for greener technology, practices, and enterprises that will make green growth possible and will contribute to an equitable development paradigm. Fortunately, a number of initiatives by IOs are underway to help support countries in these efforts (Box 2).

Box 2: Selected initiatives by international organizations to support inclusive green growth

The African Development Bank (AfDB) is taking inclusive green growth to the heart of its Long Term Strategy and designing its operations to account for the African specificities, notably (i) addressing the infrastructure gap as a fundamental enabler for economic growth, (ii) managing more efficiently Africa's natural resources as its stock of wealth and main source of income, (iii) and boosting economic and social resilience to exogenous shocks. In addition to its suite of green financing instruments such as ClimDev-Africa, Congo Basin Forest Fund (CBFF), African Water Facility (AWF) and Sustainable Energy Fund for Africa (SEFA), AfDB is developing an Africa Green Growth Facility for upstream work and capacity development on inclusive green growth.

The **OECD** is actively engaged with developing countries in many areas closely related to inclusive green growth. It has synthesized good practices on topics such as Environmental Fiscal Reform, Strategic Environmental Assessment, Climate Change Adaptation, and Capacity Development for Environmental Management and Governance to support efforts towards inclusive green growth. OECD tracks development co-operation support with environmental objectives and is currently also working with its members to mainstream green growth in areas of development co-operation as diverse as private sector development, infrastructure investment, and trade-related assistance. See www.oecd.org/greengrowth.

The **UN system** is a major provider of support; the system itself represents the different elements of inclusive green growth—for example, with IFAD focusing specifically on eradicating rural poverty, FAO promoting sustainable agricultural practices, WFP fighting hunger worldwide, ILO promoting green job creation, UNEP protecting the environment and providing advisory services on green economy, UNDP working to reduce poverty and inequality and strengthen governance and environmental sustainability, UNICEF and UNFPA promoting youth empowerment, UNIDO supporting sustainable industrial development, the UN Secretariat looking at broader economic development and investment aspects (UN-DESA, UNCTAD etc.), and WHO addressing health issues.

The **World Bank** is working to mainstream inclusive green growth in its operations and knowledge activities. Its report on "Inclusive Green Growth: The Pathway to Sustainable Development" (www.worldbank.org/inclusivegreengrowth) sets the framework for this maintreaming. The World Bank has launched a series of complementary activities with partners. Such initiatives include: WAVES (Wealth Accounting and the Valuation of Ecosystem Services), LEDs (Low Emission Development), Climate Finance Options Knowledge Platform, to name a few.

In addition, the Global Green Growth Institute (GGGI), the OECD, UNEP and the World Bank jointly launched in early 2012 the GGKP, a global network of researchers and development experts seeking to identify and address major knowledge gaps in green growth theory and practice.

² See for example the OECD's 2011 "Towards Green Growth: A Summary for Policymakers"; the World Bank's 2012 *Inclusive Green Growth: The Pathway to Sustainable Development*; UNEP's 2011 *Towards a Green Economy*, FAO Save: Pathways to Sustainable Development and Grow 2011Poverty Alleviation; UNDP's 2012 "Triple Wins for Sustainable Development. Case studies of Sustainable Development in practice".

This document does not provide a one-size-fits-all solution to implement inclusive green growth strategies, because the appropriate measures and policies are highly dependent on the context, especially on the most pressing environmental, social, and economic issues. Countries will have different priorities depending on, among other, their income levels, the sectoral compositions of their economies, and the relative importance of sectors directly based on natural resources or with dependence on fossil fuels, and their specific risk and vulnerability profile from an environmental standpoint. The political economy of policymaking around green growth may also significantly shape the agenda in different countries.. Hence, this document merely provides a series of tools that can help design a strategy that is appropriate in a given context.

This toolkit should not be seen as a definitive answer to the challenges raised by inclusive green growth. It is rather the first step of a collaborative effort to mobilize the tools at the countries' disposal in their domestic efforts to green their economies.

The toolkit is organized as follows. First, the necessity of applying the different tools in the context of a broad inclusive green growth strategy is stressed, and a harmonized framework combining approaches and tools identified by all four IOs is set forth. Second, the document offers an overview of key tools that can be mobilized to implement an inclusive green growth strategy. Quick technical descriptions of these tools are offered along with suggested sources for further details. Finally, capacity building and knowledge sharing initiatives are presented, with the GGKP highlighted as a powerful collaborative tool to advance policies for inclusive green economies.

2. Crafting an inclusive green growth strategy

As emphasized in the joint draft report from OECD, UN and the WB to the G20 Energy and Commodity Markets Group in the Finance track on "Incorporating green growth and sustainable development policies into structural reform agendas", tools used to advance inclusive green growth need to be deployed within a coherent overarching strategy. An overall vision and strategy for inclusive green growth is indispensable for framing policy reforms as national strategies with positive long-term goals.

The approach should be to integrate green growth into policy processes and national development plans,, rather than create stand-alone policy documents or agencies. Doing so increases the acceptability of immediate costs by the population, including the private sector. It also improves consistency among policies and fosters policy certainty—which creates a friendlier climate for investments, making it more likely that private resources will be invested in long-term projects. But building a national strategy creates some challenges of its own, including the need for coherent cross-government collaboration, multi-stakeholder engagement, interagency coordination, private sector engagement, and the definition of relevant long-term goals and indicators.

Ahead of any major policy process, and more so with regard to policies for an all-encompassing inclusive green growth (IGG) approach, there has to be a methodology for arriving at specific instruments, starting with a shared vision, stocktaking of issues, lessons and opportunities, setting of concrete and

realistic country goals, identification and analysis of technical options, all leading to a reforms agenda and/or investment plan with clear actions, timelines and resource implications. Various strategies have been developed by different development actors, but all have common elements and can therefore be combined into a common framework. Figure 1 summarizes this framework, identifying the main building blocks within which different tools can be deployed. The section that follows develops this framework further, providing illustrations of how different tools can be deployed for the different steps.

Figure 1: Summary of steps to develop an inclusive green growth strategy anchored into national development framework

Vision	•Setting a medium to long-term inclusive green growth vision for the country that is anchored into the country's national development strategy
Diagnostic	•Taking stock of the main economic and social challenges and opportunities, then examine environmental challenges and opportunities
Goal Setting	•Defining objectives and expected outcomes for short and medium-term, that are linked to long term vision
Options/ measures	•Focusing on <i>synergies</i> (are there IGG policies that bring immediate and local benefits?) and <i>urgency</i> : (what is needed now to avoid lock-in and irreversibilities?) identifying policy/technology options that could help overcome the barriers identified and seize the opportunities
Feasibility Analysis	•Undertaking feasibility and MCA analyses of the proposed policy/technology options in order to recognize the best options/practices for the specific national context
Implementa tion	•Designing policy reform process that reflects these best options and mobilize adequate upfront financing for implementation
Monitoring & Evaluation	M&E of policies is needed to create a feedback loop into the design of policies

The type of actions each of these steps may entail is discussed below.

Step 1

VISION & OBJECTIVES

As mentioned above, any IGG strategy must be anchored into a national development vision that is broadly owned within government and by its constituency, including marginalized group and those who may be particularly vulnerable during the transition towards a green economy. In order to achieve this, the process of elaborating the strategy itself needs strong and political commitment and buy-in at all levels, a network of champions across the government complex to drive the change process at the technical level, thorough consultations with different stakeholders and wide sharing of information to ensure a transparent decision process.

SCOPE / SOME CORE ELEMENTS	STEPS/ TOOLS			
Political commitment: strong high-level political commitment and leadership is needed at the various stages of the policy cycle to ensure the process is not captured by vested interests or taken over by other items in the political/policy agenda. Involvement of President / Prime-minster with full technical back-up of leading Ministries/agencies is crucial.	Ministerial Steering Committee best chaired by Ministry of finance, economy or planning or Vice-president's office			
Institutional set-up and champions: a change in process involving cross-sectoral collaboration requires a critical mass people with the ability to understand the vision, communicate with various stakeholders and technical expertise to design, appraise, apply and adjust the policy solutions. More than just setting-up teams/committees across various technical areas, it is important that these people also act as a "network of champions" for IGG.	Technical Committees and sub-technical committees			
Broad consultations: Some steps, like the definition of the Vision and the Objectives/Expected outcomes, require some broad consultations with national stakeholders (including civil society, private sector, development partners, municipalities, advocacy networks etc.). Information dissemination and transparency: All information generated in policy-making process should be widely available and the process must be done transparently, allowing all stakeholders a voice and ensuring that disagreements are noted in public fora.	Consultation instruments (townhall meetings, focused group discussions, opinion surveys government web Portal, National & local press, radio)			

Step 2

• DIAGNOSTICS

Step two entails a systematic compilation of relevant information to better understand challenges/opportunities in framing IGG objectives. In particular, it is this stage to identifies economic, social and environmental / natural capital challenges and opportunities for the country, climate risk management issues, take stock of existing policy instruments as well as the likely constraints to implementing inclusive green growth.

SCOPE / SOME CORE ELEMENTS	STEPS/TOOLs			
Collect relevant information to understand challenges/opportunities and frame objectives	Country-specific statistical bureaus or their equivalents			
Identify key economic and social challenges and opportunities, using existing diagnostics and reviewing:	Country-specific public surveys and in-country think-tanks, universities, research centers			
 Economic Sectors in value-added, job creation, environmental impacts Poverty, inequality, exclusion, and vulnerability indicators Demographic & labour market statistics Urbanization Trends Urban/rural access to basic services (education, health, water, energy) Energy access by population groups, urban/rural areas, technology 	National and MDB Data Portal (provides multiple customized tools to gather and analyze multiple indicators) System of Environmental-			
Identify key opportunities and challenges in natural capital of country/region:	Economic Accounts (UNSEEA); wealth accounting and valuation of ecosystem services (WAVES)			
 Ecosystem types, historical, current and project distributions, maps Spatial maps highlighting biological richness Maps with high above or below ground carbon stocks Agriculture and bio-energy land-use mapping (FAO methodology) National renewable resource assessments (wind, solar, hydro, geothermal) Spatial overlays of areas with multiple high value ecosystem services And in climate change and climate risk management:	Human Development Index FAO FAOSTAT; FAO CLIMPAG (brings together the various aspects and interactions between weather, climate and agriculture in the general context of food security); FAO Global Information and Early Warning System on Food and Agriculture (GIEWS)			
 Disaster statistics (loss of live, total and relative economic losses) Hazard maps (spatial exposure to hydro-meteorological and geological hazards) Regional trends in key climatic parameters Vulnerability and Adaptation Assessments 	Community mapping tools, participatory rural appraisals, and other tools to bring out local knowledge about ecosystems, property right regimes, and patterns of natural resource use			

SCOPE / SOME CORE ELEMENTS STEPS/TOOLs Take stock of existing policy instruments relevant to IGG: Strategic Environmental Assessment; social expenditure Rules and regulations already in place with regard to natural resources, reviews, (green) public energy, pollution, employment expenditure reviews Enacted economic and financial instruments with a bearing on IGG WFP Comprehensive Food Security In terms of economic instruments, understanding which revenues are being and Vulnerability Analysis (CFSVA) collected and by whom, how they are being used, and a measure of their Guidelines; Food Security and success on achieving the policy objectives Vulnerability Analysis; Hunger and In terms of financial instruments, understanding subsidy schemes, their Climate Vulnerability Index; effectiveness, and management/governance in practice In terms of social protection, existing social protection floors and safety net International Rescue Committee systems (IRC) Disaster Risk Databases The national budgeting process and entry points for IGG UNDP Climate Change Country **Profiles** Take stock of likely constraints to implementing inclusive green growth: IPCC Assessment, Special and Political economy, fragility, or behavioural change issues Methodology Reports Financial constraints World Bank Climate Portal Institutional or capacity constraints **AfDB** Country Policy and institutional Assessment; AfDB Throughout examine opportunities for synergies (are there IGG policies that bring **Country Governance Profiles** immediate and local benefits?) and extent of urgency (what are the policies and investments that need to be taken now to avoid locking into an unsustainable future OECD Green Growth Diagnostic and creating irreversibilities?) framework UNEP Green Economy Scoping **Studies**



GOAL SETTING

At this stage, countries will set specific goals and expected outcomes for the short and medium-term that are linked to their long term vision. In particular, criteria are defined for prioritizing the various options and measures across identified in accordance with countries' specific development context. Aassessments of institutional, financial and capacity constraints should also be carried out to ensure that policies are matched to institutional capabilities.

In addition, as countries set their goals they may look into voluntary guidelines and standards anchored into best practices approaches. These may include guidelines that are not specifically designed to promote green growth policies, but that have address core issues of sustainability and inclusiveness in policies and investments affecting

sectors that would be most likely to be at the center of these policies in many low income countries. In relation to agriculture, for instance, useful elements may be drawn from the UN Committee for World Food Security's Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests or the FAO Code of Conduct for Responsible Fisheries, among other.

SCOPE / SOME CORE ELEMENTS	STEPS/TOOLS
Identification of relevant sectors – from the diagnostic, prioritize sectors/sub-sectors where most potential exists for delivering IGG and identify policy options for further assessment.	Sector consultations and alignment with country's long-term development plan FAO Climate Smart Agriculture; CFS Voluntary guidelines on the responsible governance of tenure of land fisheries and forests
Assessment of policy/technological options — this includes an extensive review of tested policy/technologies around the globe for each priority sector, in particular those which have been successfully introduced in countries with similar socio-economic profiles.	Principles for Responsible Agricultural Investment that Respects Rights, Livelihoods and Resources (PRAI) of FAO, IFAD, UNCTAD and World Bank
Assessment of Institutional Capacity Needs - Assessments of	Climate Technology Wiki; UNEP and UNDP's Technology Needs Assessment (TNAs); UNEP Green Economy Scoping Studies
institutional, financial and capacity constraints for implementing policies and measures that facilitate transition to Inclusive Green Growth. It is important to ensure that policies are matched to	OECD Policy Guidance on Integrating Climate Change Adaptation into Development Cooperation Nationally Appropriate Mitigation Actions (NAMAS)
institutional capabilities to ensure that results are achieved.	Nationally Appropriate Mitigation Actions (NAMAs) Sector Master Plan Studies



PRIORITY SETTING AND FEASIBILITY ANALYSIS

Multi-criteria analysis are likely to be needed given the limitation of cost-benefit analysis in the absence of market prices (for environmental goods) and in the presence of substantial uncertainty (about climate risks, technology). Political economy analysis as well as distributional assessment, are important.

But as countries seek to prioritize across the many urgent and important steps that they can take to take to green their growth and promote greater inclusion, two particular dimensions can be highlighted:

- Synergies: the extent to which green policies provide immediate and local benefits and help achieve more rapid or more inclusive growth. Green policies that have immediate and local benefits will also benefit from greater political and social acceptability a critical dimension if strategies are to actually be implemented.
- *Urgency*: the extent to which a policy can be postponed without running the risk of irreversible damages or locking into unsustainable patterns of growth.

SCOPE / SOME CORE ELEMENTS	STEPS/TOOLS		
Multi-criteria analysis is likely to be needed. Political economy analysis as well as	Marginal Abatement Cost Curves		
distributional assessment are important, as are the following:	Multi-criteria analysis for		
Baseline studies for target sectors	comparison of policy options		
 Assessment of first order (direct impacts) and 2nd order (co-benefits / side- effects) of shortlisted policy instruments on fiscal system 	Decision-making under		
 Cost of implementation including mitigation of adverse impacts, monitoring and enforcement 	uncertainty		
 Assessment of institutional barriers hindering policy implementation 	Strategic Environmental		
 Understanding of impacts across different interested groups and powerful factions 	Assessments		
	Stakeholder Analysis & other		
Final policy choice should be informed by the combination of urgency, synergy,	Political Economy tools (factional		
efficacy, and greatest feasibility given existing power and institutional dynamics.	analysis, power analysis)		
Trade-offs should be resolved with reference to priority criteria and validated with stakeholders before implementation.			

Step 5

IMPLEMENTATION

Implementation of policy package should be anchored in a clear timeline (sequencing matters) and underpinned by realistic resource estimates (financial, human and technical). Policies should therefore be integrated into sector plans and national budget processes. Implementation should prioritize "quick wins" or those policies that yield an immediate positive return (e.g. direct revenues, cost savings, jobs) and/or have lowest implementation costs.

SCOPE / SOME CORE ELEMENTS ST	STEPS/TOOLS
No. In Professional Report of the Profession of	National Budget processes Investment Plan & Resource Mobilisation Strategy Poverty and Social Impact Assessments (PSIA); Environmental Impact Assessments (EIA) Payment for Ecosystem Services Environmental Fiscal Reform Sustainable Public Procurement Social Safety instruments World Bank/UNDP Climate Options Platform; UNDP Guidebook on Blending Climate Finance Through National Climate Funds; WFP Innovative risk finance, transfer and insurance (e.g WFP Livelihoods Early Assessment and Protection



• M & E

Monitoring and evaluation of policies and interventions are needed to create a feedback loop into the design of policies. Tools include both standard monitoring and evaluation, as well as impact evaluation given the need for formal learning about green growth what interventions work best. Moreover, the inclusive nature of the IGG agenda is best served by inclusive M&E processes, including participatory approaches that best capture both the social and the environmental impact of policy implementation.

3. Tools for Inclusive Green Growth

A practical and flexible policy toolkit has an important role to play in helping developing countries to identify and address bottlenecks and constraints to realizing inclusive green growth. Such a toolkit requires details of generic and specific policies — environmental, economic and social. It envisages significant long-term investment and innovation, both technological and institutional, to avoid locking-in

inefficient and costly technology and infrastructure. For such investments and policies to work, appropriate policy frameworks and governance arrangements must be in place and to facilitate this, capacity building and knowledge sharing is required.

The IOs drafting this report have identified or developed a number of tools to foster inclusive green growth, which are detailed in the individual annexes to this report. Table 2 below provides a typology of such tools and the function they serve. A brief description of each tool follows, which is further developed in the Annex.

The set of tools listed here by no means provide a definitive list. To be useful, the toolkit should be viewed as a living document that requires regular updating. In particular, tools related to energy planning, water, management and climate change resilience are being considered for inclusion in the next version of the toolkit.

Table 1: Typology of tools and main functions

	INCENTIVIZE			DESIGN	FINANCE	MONITOR
	Tools for pricing pollution and natural resource use	Tools to complement pricing policies	Tools to foster inclusivene ss	Tools to manage uncertainty	Financing and investment tools	Monitoring tools
Environmental Fiscal Reform and Charges	✓		✓			
Public Environmental Expenditure Review	✓	✓		✓		
Sustainable Public Procurement		✓	✓		✓	
Strategic Environmental Assessment		✓	✓			
Social Protection Instruments		✓	✓		✓	
Payment for Environmental Services	✓		✓		✓	
Certification for Sustainable Production			✓		✓	✓
Tools to frame environmental policies: communication and nudging		✓	✓			
Green Innovation and industrial policies		✓			✓	
Decision Making under uncertainty				✓		
Project level Impact assessment			✓	✓		
Analysis of Labor Markets and Income Effects		✓	✓			
Sustainable land management– Framework & Guidelines on Land Policy	✓	✓	✓			
Integrated Water Resources Management	✓	✓	✓			
Green accounting						✓

Environmental Fiscal Reform and Charges

EFR refers to a range of taxation and pricing measures which can potentially raise fiscal revenues, increase efficiency and improve social equity while furthering environmental goals. EFR instruments fall into the following broad groups: (1) natural resource pricing measures such as taxes for forests and fisheries exploitation; (2) reforms of product subsidies and taxes; (3) cost recovery measures, such as user charges for energy and water, which are broadly applicable but must be carefully implemented and complementation by flanking measures to protect the poor; (4) pollution charges, which are particularly relevant for countries where industrial pollution is a serious problem, and at the same time the administrative capacity to implement such charges is relatively high.

Public Environmental Expenditure Review

PEERs examine government resource allocations within and among sectors, and/or at national and subnational levels of government, and assess the efficiency and effectiveness of those allocations in the context of environmental priorities. PEERs frequently result in highlighting the mismatch between environmental policy and plans and low levels of spending in those areas of government that are linked to environmental sustainability and natural capital. In many cases, they have helped to redistribute spending towards institutions responsible for environmental priorities, towards longer-term goals, and have helped to considerably increase environmental budgets. PEERs are also useful for identifying, quantifying and maximizing the public revenue potential of underpriced natural resources, such as forestry, fisheries and minerals.

Sustainable Public Procurement

SPP is most commonly defined as "a process whereby organizations meet their needs for goods, services, works and utilities in a way that achieves value for money on a whole life basis in terms of generating benefits not only to the organization but also to society and the economy, whilst minimizing damage to the environment." (Definition of the UK Task Force on SPP adopted by the Marrakech task Force on SPP)

Strategic Environmental Assessment

SEAs refer to a range of analytical and participatory approaches that aim to integrate environmental considerations into policies and evaluate the inter linkages with economic, social, and climate change considerations. They are a variety of tools, rather than a single, fixed and prescriptive approach. Applied at the earliest stages of decision making both to help formulate policies and to assess their potential development effectiveness and sustainability, they focus on identifying trade-offs between environment, social and economic objectives. This is valuable in assessing whether apparently "green" policies or major programs, such as subsidy reform, are likely to have unintended consequences. SEAs' focus on the policy and institutional level is useful in governance for green growth.

Social protection instruments

Social protection instruments ensure the provision of essential services and transfers for individuals in need of protection in an effort to prevent them from falling into abject poverty or to assist them out of poverty. *Social Protection Floors*, defined according to specific country context, aim to progressively

realize universal and comprehensive coverage, with a shared longer-term vision, in many cases building on existing, more fragmented, social protection schemes such as *safety nets* that are temporary, residual and limited to certain recipients and/or geographical areas and often reflect immediate priorities (such as the need to respond to food and financial crises

Payment for Environmental Services

PES are defined as "a voluntary, conditional agreement between at least one 'seller' and one 'buyer' over a well defined environmental service — or a land use presumed to produce that service". By providing compensation to the stewards of an environmental service, it can strengthen the ecosystem service provisions at different scales, international, national, regional and local.

Certification for Sustainable Production

Certification identifies goods and services that have potential to reduce adverse environmental and social impacts. Differentiating between green products can increase the market value and share for farmers and producers. It also contributes to economic growth while improving environmental practices, and helps ensure long-term resource sustainability. Acting as information systems for consumers, certification schemes include: (1) multi-stakeholder agreement on what constitutes best/acceptable practice in a set of standards; (2) auditing process to assess compliance; (3) sustainable source tracking process; (4) product label.

Tools to frame environmental policies: Communication and Nudging

Communication and nudging represent a broad range of evidence-based strategies aimed at stimulating and sustaining environmentally sustainable behaviors among individuals including the following: (i) Social marketing approaches which draw on commercial marketing techniques and have been applied at large scale in a variety of fields such as seat belt use, HIV/AIDS prevention and family planning since the 1960s; (ii) Community-based approaches (a subset of social marketing) focused on changing social norms; (iii) Nudging which represents low-cost simple interventions aimed at tweaking "choice architectures" to encourage people to making the best decisions (for health, environment or other considerations).

Green Innovation and industrial policies

Green *innovation* policies are policies seeking to trigger green innovation by encouraging innovation across the board (horizontal policies) or supporting a specific technology (vertical policies). Green *industrial* policies are policies aiming to green the productive structure of the economy by targeting specific industries or firms. They include industry-specific research and development subsidies, capital subsidies, and tax-breaks; feed-in tariffs; and import protection. They do not include policies targeting demand (such as consumer mandates), which can be met by imports without changing local production.

Decision-making under uncertainty

There are 4 main methodologies to tackle uncertainty in green growth strategies: Cost-Benefit Analysis (CBA) under uncertainty, CBA with a Real Options approach, Robust Decision Making, and Climate Informed Decision Analysis. All have different strengths and the development of a decision tool to choose amongst them is not a simple matter.

Project Level Impact Assessment

Upstream planning and policy-making for inclusive green growth must also translate into downstream decision making and implementation processes to ensure that project-level investments are designed in a manner that enhance environmental and social benefits and manage potential risks. For example, environmental impact assessment (EIA) has been a proven tool over the past 40 years and has a good track record in evaluating the environmental risks and opportunities of project proposals and improving the quality of outcomes. Because EIA is now a well-established practice and is increasingly included in national legislation it can provide a key entry point for addressing social impacts as well through an integrated approach. While it is indeed best practice to include social issues in any environmental assessment, the degree to which this is done is variable. There are also several spin-off approaches to project-level impact assessment, such as Social Impact Assessment (SIA), which may also provide entry points and tools for integrating inclusive green growth approaches into project-level design and decision making.

Analysis of Labor Market and Income Effects

This analysis tool by the ILO can identify the changes, opportunities and challenges in the labor market with a high degree of resolution, in particular for young women and men. The tool allows for the identification of the potential job creation and job loss on a sector-by-sector basis as well as shifts in income by type of household. Beyond the assessment of impacts, the tool provides labor market information, highlighting opportunities to create decent work for youth for example and provides pointers for policy formulation such as needs for formalization of employment in certain sectors or for support to green micro- and small enterprises, notably for young entrepreneurs or infrastructure investment. Similarly, the data generated with the tool, provide the basis for assessments of the expected transformation in skills requirements and the implications for education, vocational guidance and training policies

Sustainable land management – Framework & Guidelines on Land Policy in Africa

In 2006, the African Union Commission, the Economic Commission for Africa and the AfDB initiated a process for the development of a framework and guidelines (F&G) for land policy and land reform in Africa with a view to strengthening land rights, enhancing productivity and securing livelihoods for the majority of the continent's population. That initiative was carried out by way of extensive consultations involving the participation of Regional Economic Commissions in all the five regions of the continent, civil society organizations, centers of excellence in Africa and elsewhere, practitioners and researchers in land policy development and implementation, government agencies and Africa's development partners. The final outcome of the initiative was then presented before the formal decision-making processes of the AU for approval and adoption by the Assembly of Heads of State and Government in July 2009.

Integrated Water Resource Management (IWRM)

Integrated Water Resources Management (IWRM) is a comprehensive approach to water resource management that views water as a single resource with competing uses and inter linkages with the ecological, social and economic systems. Through IWRM, water is treated as an economic, social, and environmental good; and IWRM helps ensure that policies and options that guide water resources management are analyzed within an integrated framework.

Green accounting

Green accounting extends national accounts to include the value of the damage and depletion of the natural assets that underpin production and human well-being. In particular, net saving, adjusted for the depreciation of produced assets and the depletion and degradation of the environment, indicates whether well-being can be sustained into the future. Negative net saving indicates that it cannot, because the assets that support well-being are being depleted. With green accounting, the scorekeeping indicators (such as wealth accounts) can be used alongside GDP to better assess how well a country is doing for the long term. It also provides detailed accounts for management of natural capital, which many countries have adopted over the past 20 years—especially for water, energy, and pollution. However, few countries have adopted the revised macroeconomic indicators

4. Knowledge Sharing and capacity development

No country has yet developed by following a strict "inclusive green growth path." However, many different initiatives exist that provide insights into particular aspects of inclusive green growth policies. Given this, and the fact that this knowledge is spread across different countries and actors, it is critical to develop knowledge sharing instruments. A useful role can be played, in this context, by knowledge platforms such as the Green Growth Knowledge Platform (Box 3).

Box 3. Green Growth Knowledge Platform (www.ggkp.org)

The GGKP was established as a joint initiative of the GGGI, OECD, UNEP, and World Bank. The GGKP is aimed at expanding efforts to address major knowledge gaps in green growth theory and practice, and at helping countries to identify, design and implement policies to move towards inclusive green growth.

To this end, the GGKP aims to develop a global network of researchers, practitioners and development experts and policy makers to promote widespread sharing of information on policies adopted by different countries and facilitate funding of world-class research with a view to improving the policy, tools necessary to foster economic growth and implement sustainable development.

The GGKP was officially launched at an inaugural conference (held in Mexico City in January 2012 where leading scholars and experienced practitioners from across the globe met to take stock of the current understanding of the economics of green growth, identify knowledge gaps and establish priorities for knowledge-building work and implementation. The following three Research Programs are being developed in the light of the key knowledge gaps identified from these initial consultations:

- Research program on technology and innovation
- Research program on trade and competitiveness
- Research program on welfare measurement and performance indicators

These work streams will leverage the vast array of green growth work being done by the Platform's partners, including GGKP's first Affiliated Program, the European Climate Foundation's initiative on "Green Growth Best Practices initiative." These research programs, and the associated knowledge-sharing activities to be facilitated by the GGKP, will operate with an understanding that the green growth and green economy policy mix will vary according to country-specific circumstances, thereby necessitating a menu of policy options and toolkits. These

new programs will complement ongoing initiatives.

Over the coming months, the GGKP will be rolling out its interactive online platform to facilitate the development of a dynamic community of experts and practitioners who exchange their experiences, insights, and questions. By helping forge cross-national and cross-disciplinary linkages, GGKP enables more practicable green growth research and provides a virtual tool for capacity building.

GGKP.org will continue to develop in FY13 with expanded capabilities for peer-to-peer interactions among members of the GGKP's communities of practice. These capabilities will likely include fully implemented versions of the tools piloted in FY12 (stakeholder database, submission of materials to e-library, "submit for review") as well as open discussion spaces for users to debate major questions about green growth.

Figure 2: Green Growth Knowledge Platform activities



But knowledge sharing may not be sufficient. Limited capacity in many developing countries—adapt and deploy green technologies, to undertake environmental risk assessment, and to coordinate across sectors and institute environmental fiscal reform—is a key obstacle in the pursuit of inclusive green growth. Institutional capacity constraints may have to do with how different ministries and policymaking and administrative bodies operate individually and together, and whether this is or is not conducive to the necessary inter-agency and inter-sectoral consultations, joint agenda setting, joint policy implementation and monitoring efforts, and so forth.

The cross-cutting nature of inclusive green growth demands approaches that shape policy development and investment decisions and make all stakeholders aware of the important contribution that the sustainable use of natural resources makes to achieving growth and development objectives. This includes stakeholders within different ministries and units at central government level (e.g. in ministries of agriculture, finance, energy, urban planning, education, and so forth), as well as at local government level, in academic and research institutions, within civil society, and in the private sector.

Developing capacity has to do in part with developing skills and knowledge among individuals and organizations at various levels, inside and outside government, insofar as these are needed either to design or to implement inclusive green growth policies and programs. A critical part of capacity development also has to do with putting in place an enabling environment that supports the development of these skills and capacity (e.g. by reforming educational and research programs and curricula as needed), as well as the kind of inter-sectoral and inter-agency communication and collaboration work that is necessary for green growth policymaking to occur. In all these areas, countries with experience in designing and implementing inclusive green growth strategies should work in a more collaborative manner at the global and regional level to establish a knowledge and lesson sharing process. This is separate from, but potentially complementary to, efforts to develop skills for operating in a greener economy.

External actors can in some cases play an important supportive role in capacity building for inclusive green growth policymaking at the country level. In this regard, a five-step framework has been proposed for external actors to help guide capacity development efforts for inclusive green growth at the levels of national development planning, budgetary processes and in key economic sectors (OECD 2012)³:

- Assess the political and institutional context, by conducting an analysis of the national context, understanding incentive structures and gaining familiarity with country level analysis of natural resource constraints and opportunities.
- Identify key actors and their capacity development needs, such as government officials, private sector representatives and members of civil society groups, recognizing the political and economic dimensions that influence stakeholders.
- Identify opportunities to shape organizational incentives, including finding entry points, setting priorities and outlining the appropriate timescale, targets and resources needed.
- Identify awareness / knowledge needs and existing analytical tools, raise awareness of the role
 the environment plays in achieving economic development, becoming familiar with existing
 knowledge products and adopting and using technical tools to make the economic case for
 environmental programs and measures.
- Identify options for policy response, ranging from revised priorities and implementation strategies to specific environmental management measures and investments.

These steps are not necessarily sequential, and depending on the context, may not all be needed. It is important to build such initiatives around a realistic timescale linked to the policy-making or planning cycle. Regular reviews are necessary to monitor progress. Monitoring and evaluation also serve as an important basis for learning from experience, improving capacity development outcomes, planning and allocating resources to meet priorities and demonstrating results. Knowledge sharing at the regional and

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³ OECD. 2012. *Greening Development: Enhancing Capacity for Environmental Management and Governance*. A number of institutions are engaged in capacity development on green growth. See for example http://www.unescap.org/esd/environment/greengrowth/

global levels would be critical in institutions building and facilitating the implementation of IGG. More generally, lessons learnt about capacity development should be applied.⁴)

In conclusion, green growth policies will vary across countries depending on local realities, resources and challenges. But in all cases, care must be taken that these policies further goals of inclusiveness and poverty reduction so they can contribute to achieving sustainable development. This toolkit is by no means a prescriptive one. Rather it lays out broad steps that are needed to develop policies and strategies tailored to local circumstances and highlights some of the main policy tools that can be helpful in the process. Finally, success will require that policies be based on sound knowledge and be matched to local capacities. Knowledge and capacity building initiatives are therefore needed to produce results on the ground, providing a basis for greening economies through policies that drive green and inclusive growth.

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⁴ See for example <u>www.worldbank.org/capacity</u>, <u>www.undp.org/capacity/</u> and <u>http://www.oecd.org/dataoecd/4/36/36326495.pdf</u>

Annex

Environmental Fiscal Reform (EFR) and Charges

<u>Brief Description</u>: EFR refers to a range of taxation and pricing measures which can potentially raise fiscal revenues, increase efficiency and improve social equity while furthering environmental goals. EFR instruments fall into the following broad groups: (1) natural resource pricing measures such as taxes for forests and fisheries exploitation; (2) reforms of product subsidies and taxes; (3) cost recovery measures, such as user charges for energy and water, which are broadly applicable but must be carefully implemented and complementation by flanking measures to protect the poor; (4) pollution charges, which are particularly relevant for countries where industrial pollution is a serious problem, and at the same time the administrative capacity to implement such charges is relatively high.

Examples of Application: Some forest-rich countries – such as Cambodia and Cameroon – have undertaken reforms to increase the fiscal revenues from the forestry sector. Cameroon introduced a forest taxation regime to promote sustainable forest management, increasing local processing, sharing forest rents more equitably and improving governance and transparency in the sector. As well as changing the fiscal structure, for example shifting the tax basis from the product to the area of the concession, the new regime introduced auctioning of harvesting rights, regulations limiting the area that could be harvested to 1/30 of the concession area, and a ban on log exports. In many countries, subsidies on energy consumption represent a significant drain on public finances. However analysis by the IEA shows that only 8% of the USD 409 billion in fossil fuel subsidies in 2010 went to the poorest 20% of the population. A review of country studies on fossil fuel subsidies in 20 countries in Africa, Asia, Middle East and Latin America conducted by the IMF between 2005 and 2009 found that on average the top income quintile received six times more in subsidy than the bottom income quintile. User charges or fees meanwhile are another instrument for EFR. In the absence of such charges the costs of service provision must be covered by government budgets, which are already under stress. Frequent budget shortfalls lead to poor service and the frequent exclusion of the poor as recipients of such services such as potable water and modern energy.

Assessment: If properly designed, EFR could bring about following benefits:

- Economic/ growth: In areas such as natural resource extraction, EFR has the potential to generate significant additional revenues and promote growth in the longer term as it can (1) encourage greater efficiency in production or in provision of services derived from the inputs which were formerly subsidised and force a more rapid rate of technological change; or (2) it can free up funds for governments to spend on actions that can promote growth, such as infrastructure and human capital development. However, it is likely that there will be short term economic costs incurred, such as increasing production costs because of higher energy and water prices.
- Environmental: EFR can lead to better management of natural resources and environmental incentives for conservation, by shifting relative factor prices to increase resource efficiency and by taxing "bads" such as pollution as opposed to goods and services, like labor.

• Social: Transparent and effective fiscal policies, that also safeguard the environment and natural systems, are critical foundations for human health and livelihoods. There are strong arguments that phasing out antiquated energy subsidies that could free up funds for more targeted assistance to poor households.

Good practice/Guidance: Some general principles of effective EFR include:

- Perform early research and establish strong institutional oversight and stakeholder consultation
- Customise process according to capacity (design, implementation, monitoring and evaluation)
- Set clear objectives, priorities and timetable including complementary policies such as targeted cash transfers to prevent reduced income of the poor and other undesired effects
- Develop a communication strategy and mechanisms to ensure transparency of the reform
- Set up controls and enforcement against corruption
- Customise according to sector e.g forestry or fisheries sectors
- Identify the level of industrial pollution and the best way to control it e.g. pollution charges
- Develop the administrative capacity to implement such charges

Sources of Information:

Global Subsidies Initiative, IISD, http://www.iisd.org/gsi/;

OECD 2005 Environmental Fiscal Reform for Poverty Alleviation: A DAC Reference Document;

Topa, G., A. Karsenty, et al, 2009. The Rainforests of Cameroon - Experience and evidence from a decade of reform, World Bank, Washington D.C.;

OECD and IEA, Fossil Fuel Subsidies and Other Supports, http://www.oecd.org/site/0,3407,en_21571361_48776931_1_1_1_1_1,00.html;

Arze del Granado, J., Coady, D. and R. Gillingham. 2010. The Unequal Benefits of Fuel Subsidies: A Review of Evidence for Developing Countries, IMF Working Paper WP/10/202, International Monetary Fund, Washington D.C.

Public Environmental Expenditure Reviews (PEERs)

Brief Description: PEERs examines government resource allocations within and among sectors, and/or at national and sub-national levels of government, and assesses the efficiency and effectiveness of those allocations in the context of environmental priorities. PEERs frequently result in highlighting the mismatch between environmental policy and plans and low levels of spending in those areas of government that are linked to environmental sustainability and natural capital. In many cases, they have helped to redistribute spending towards institutions responsible for environmental priorities, towards longer-term goals, and have helped to considerably increase environmental budgets. PEERs are also useful for identifying, quantifying and maximising the public revenue potential of underpriced natural resources, such as forestry, fisheries and minerals.

Examples of Application: PEERs have been undertaken in many contexts for different purposes and with a variety of outcomes. Among these, a review in Madagascar both highlighted a financing gap for the protected area system – it depended on aid for half of its funding – and demonstrated how the protected area system could become a net source of government revenue through ecotourism fees. Another PEER in Mozambique – showed that environmental expenditure was only 0.9% of GDP and highlighted not only the lack of prioritisation in environmental policy but also the very weak links between environmental policy and actual expenditures. A Tanzanian PEER demonstrated the considerable potential for environmental resources to contribute to revenue due to current underpricing, and very low revenue collection in forestry, fisheries and wildlife – only 5-10% of potential forest revenue was being collected. It also showed that very little of the revenue collected was reverting to the local level. As a result of the PEER the environment budget has now grown considerably and through the Strategic Budget Allocation System is linked to the national development and poverty reduction strategy.

Assessment: Particularly, EFR can be beneficial in producing the following implications:

- Economic: PEERs plays a critical role in enhancing efficient allocation of resources for environment and natural resource management. In general terms this can increase value retention within the domestic economy and finance investments in replacing, maintaining and building natural capital as a sustainable resource. PEERs through promoting efficiency and disaster proofing in infrastructure and sustainable intensification and climate change proofing in agriculture, can help ensure that public investment strengthens the resilience of the economy, promoting growth by reducing risk and limiting the impact of shocks avoiding recurrent costs that can exceed 2-5% of GDP on an annual basis.
- Environmental: PEERs result in higher and more sustainable public investments in natural capital through identifying critical funding gaps and the potential to increase revenues. They also help demonstrate the economic value of the environment to the economy and link positive environmental outcomes to growth and poverty reduction and can result in increased resources, capacity and political support for sustainable environmental management.

• Social: Given that the livelihoods of poor people are largely dependent on natural resources, PEERs can be used to better manage natural resources to produce social benefits. Increased revenue from natural resource use can be used to provide basic services and to finance activities which can reduce poverty i.e. in areas that are of importance both to the livelihoods of poor people and to the environment, such as the development and promulgation of high yield, low input and climate resilient crop varieties. PEERs can result in greater transparency and accountability leading to more inclusive management of natural resources and related public expenditures and helping secure the access and use rights of poor households and the equitable distribution of revenues.

Good practice/Guidance: PEER will be most valuable when:

- Focus on a relatively small and prioritised set of key issues, and particularly in those sectors that enhance or create revenue generating capacity of a country's resource endowment
- Customise the PEER to the individual country context
- Involve and seek full participation from all relevant ministries
- Prioritise the PEER within the context of national development and poverty reduction goals
- Facilitate co-operation across different sectors

Sources of Information:

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Cabral L. and F. Dulcídio. 2008. Environmental Institutions, Public Expenditure and The Role For Development Partners: Mozambique Case Study. ODI, London;

Markandya A, Hamilton K, and E Sanchez-Triana. 2006. *Getting the Most for the Money – How Public Environmental Expenditure Reviews Can Help*. World Bank Environment Strategy Notes No 16. World Bank, Washington D.C.;

Petkova, N. (2009), "Integrating Public Environmental Expenditure within Multi-year Budgetary Frameworks," OECD Environmental Working Paper No. 7, OECD, Paris.

Sustainable Public Procurement (SPP)

<u>Brief Description:</u> SPP is most commonly defined as "a process whereby organizations meet their needs for goods, services, works and utilities in a way that achieves value for money on a whole life basis in terms of generating benefits not only to the organization but also to society and the economy, whilst minimizing damage to the environment." (Definition of the UK Task Force on SPP adopted by the Marrakech task Force on SPP).

<u>Examples of Application:</u> Most developed countries have embarked on SPP implementation. While the initial focus has been on environmental criteria, a growing number are using or considering the inclusion of social criteria. There are also many SPP initiatives at the local government level.

Activities connected with SPP can also be found in a number of Upper Middle Income countries. UNEP is currently assisting seven such countries (Chile, Costa Rica, Columbia, Uruguay, Tunisia, Mauritius, and Lebanon) in developing SPP policies and action plans, using a methodology developed by the Marrakech Task Force on SPP. The International Institute for Sustainable Development (ISSD) has also supported several countries in designing and implementing SPP policies, among others Vietnam, India, South Africa, and Ghana.

In January 2012, the Philippines announced an SPP project to promote the use of environmentally-friendly products and services. Originally launched in 2004, implementation was delayed due to a lack of technical knowledge and skills and the lack of supply, particularly from SMEs who were unable to keep up with the demand for environmentally preferable products and services.

Other relevant examples may include quotas set for government-led procurement from smallholders in the biofuel value chain in Brazil, or in food procurement for public feeding programs, schools, hospitals, and other public institutions in the same country. The Government of Rwanda has initiated the "Common Purchase for Progress (P4P)" initiative which aims to purchase 40% of the national strategic food reserve's requirement in a smallholder friendly way.

Assessment:

Public spending which represents between 15 % and 30 % of GDP in any country can contribute to driving markets towards innovation and sustainability, thereby enabling inclusive green growth. Through procurement of sustainable goods and services and through investments in sustainable infrastructure, governments can lead by example and deliver on key policy objectives. There may, however, be transitional budgetary implications, particularly if SPP is not designed and implemented as part of a broader inclusive green growth strategy that also seeks to internalize environmental and social costs in traditionally produced goods and services. In the medium to long run, budgetary implications could also be upweighed by increased tax revenue stemming from increased employment and growing SMEs.

• Economic/Growth implications: Cost saving opportunities stemming from increased resource efficiency, potential growth in SMEs delivering goods and services to the public sector. It can also drive markets towards innovative and sustainable solutions.

- Environmental implications: Reduction of greenhouse gas emissions and air pollutants; improved energy and water efficiency; reduced waste and support for reuse and recycling; use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances.
- Social implications: Potential new decent jobs in sustainable agriculture and environmental services, sustainably produced industrial goods, mass transportation, energy efficiency in buildings, industry, energy provision from renewable sources, waste management, maintenance of water infrastructure. Potential job loss in traditional sectors. Improved gender and ethnic equity; poverty eradication, improved health.

Any Guidance/Good Practices:

The evidence of the impact of SPP, either as a mechanism for green growth or for driving sustainable consumption in developing countries, is still limited because the initiatives are still emerging and evolving. Research suggests that the challenges and obstacles confronted by developing countries are similar to those experienced in advanced economies.

The key criteria essential to enhance SPP effectiveness include:

- Establish a broader public procurement framework which puts an emphasis on "the best value for money" rather than the "best value across the product life-cycle"
- Understand clearly and analyse issues
- Develop and build capacity of adequate suppliers to meet environmental and social standards

Sources of Information:

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http://www.ippa.org/IPPC4/Proceedings/07GreenProcurement/Paper7-7.pdf

http://www.unep.fr/scp/procurement/

http://www.iisd.org/pdf/2007/state procurement.pdf

http://www.wfp.org/purchase-progress

Strategic Environmental Assessments (SEAs)

<u>Brief Description:</u> SEAs refer to a range of analytical and participatory approaches that aim to integrate environmental considerations into policies and evaluate the inter linkages with economic, social, and climate change considerations. They are a variety of tools, rather than a single, fixed and prescriptive approach. Applied at the earliest stages of decision making both to help formulate policies and to assess their potential development effectiveness and sustainability, they focus on identifying trade-offs between environment, social and economic objectives. This is valuable in assessing whether apparently "green" policies or major programmes, such as subsidy reform, are likely to have unintended consequences. SEAs' focus on the policy and institutional level is useful in governance for green growth.

Examples of Application: In Vietnam, the use of SEA concerning the Quang Nam Province hydropower plan in 2006-15 proved effective in getting the local authorities to consider a cumulative assessment of a 80 social, economic and environmental issues related to sustainable development. Finally, four critical strategic concerns were drawn: integrity of ecosystems, water supply, impacts on ethnic minority groups, and economic development. Overall, the SEA concluded that the pace and scale of the proposed hydropower development was at an unsustainable level. Furthermore, the SEA made a number of strategic-level recommendations relating to the integrated management of the basin. The ex-post assessment of SEA on a completed plan still demonstrated its effectiveness in highlighting strategic concerns and identifying opportunities for enhancing sustainability (OECD, 2012).

In Mauritius, the sugar production industry makes an important contribution to the economy and international trade, but can be harmful to the environment. In order to ensure environmental integrity, SEA was conducted on the Multi-Annual Adaptation Strategy of the sugar cane sector. Although the SEA concluded that the strategy will make a positive contribution to the environment, some risks were also identified, such as the increased transport demand for harvested sugar cane and pollution of water courses. The SEA recommended measures to optimise environmental performance of sugar cane farming and suggested indicators for monitoring the proposed environmental management system. One of the success factors includes recognising the economic benefit of SEAs to secure support from industries (OECD, 2012).

In Guinea, Liberia and Sierra Leone, where mining activities are central for growth, a regional assessment - the West Africa Minerals Sector Strategic Assessment (WAMSSA) – created significant impetus for regional harmonization of mining policy in the Mano River union. Through a multistakeholder policy dialogue the assessment promotes the adoption of a strategic, cluster focused, permanent multistakeholder framework for addressing mineral sector policy and development decisions; strengthening of environmental governance; regional management of the Upper Guinean Forest; increasing local-level benefits in mining areas; and improve social accountability and mineral sector governance (World Bank et al., 2011).

<u>Assessment:</u> The application of SEAs in developing countries could bring a range of benefits by improving decision making and safeguarding environmental assets and opportunities for the poor. SEAs can be beneficial in producing the following implications:

- Social: Safeguarding environment and natural systems are the critical foundations for human health and livelihoods. SEAs support good governance by encouraging stakeholder participation and increasing transparency and accountability in decision making;
- *Economic/ growth:* SEAs can prevent costly mistakes by identifying unsustainable development options at an early stage including unbudgeted time and resources in handling disputes with local communities or mitigation of avoidable harm through pollution.
- Environmental: SEAs can identify and avoid unexpected environmental impacts by evaluating
 the costs and benefits of alternatives and outlining the trade-offs. SEAs can also provide an
 important arena for regional co-operation for shared resources and trans-frontier
 considerations.

<u>Good practice/Guidance:</u> To be influential and help improve green growth policy making, planning and decision making, an SEA should follow the following key criteria (OECD, 2006):

- Establish clear goals that are integrated in existing policy and planning structures
- Be flexible, transparent and adaptable to context
- Analyse potential effects, risks and alternatives against a framework of sustainability criteria
- Provide explicit justification for preferred options and acceptance of significant trade-offs
- Include an effective, preferable independent, quality assurance system,
- Include formal reviews after completion and monitor projects, programmes and plans outputs
- Involve key stakeholders, encourage public involvement and build capacity for the SEA

Sources of Information:

OECD, 2006, Applying Strategic Environmental Assessment: Good Practice Guidance for Development Co-operation, Paris; OECD, 2012, Strategic Environmental Assessment in Development Practice: A Review of Recent Experience, Paris, http://www.oecd.org/document/38/0,3746,en 2649 34421 47464486 1 1 1 1,00.html;

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Social Protection Instruments

<u>Brief Description:</u> Social protection instruments are a way to make green growth more inclusive and socially acceptable including by easing the burden of the transition on the disadvantaged.

Social protection instruments ensure the provision of essential services and transfers for individuals in need of protection in an effort to prevent them from falling into abject poverty or to assist them out of poverty. *Social Protection Floors,* defined according to specific country context, aim to progressively realize universal and comprehensive coverage, with a shared longer-term vision, in many cases building on existing, more fragmented, social protection schemes such as *safety nets* that are temporary, residual and limited to certain recipients and/or geographical areas and often reflect immediate priorities (such as the need to respond to food and financial crises).

Countries at the same level of economic development spend very different shares of their national incomes on social protection (ILO and UNDP, 2011). Thus, in many cases some fiscal space can be created for social protection, even at low levels of GDP. In the context of IGG, measures such as environmental fiscal reform or subsidy reform can help create the necessary fiscal space. Monitoring of social protection expenditure is important to ensure the financial viability. A Public Social Expenditure Review can help generate an overall statement on current social protection expenditure in order to develop a social budget.

Examples: A number of developing countries have social protection floors in place or are developing such floors. Examples are Bolivia's universal old-age pension (*Renta Dignidad*); Brazil's conditional cash transfer (*Bolsa Família*) Brazil's Rural Social Insurance Programme; Colombia's General System of Social Security in Health; India's Mahatma Gandhi National Rural Employment Guarantee Scheme; Rwanda's public work and direct services (the Vision 2020 *Umurenge* Programme); South Africa's Child Support Grant, and Thailand's Universal Coverage Scheme. In addition, countries such as Burkina Faso, Cambodia (National Social Protection Strategy for the Poor and Vulnerable), Mozambique (National Strategy for Basic Social Security), and Rwanda are in the process of building social protection floors based on the synergy between traditional mechanisms of social security, micro-insurance and social transfers (ILO and UNDP, 2011). Among safety net examples that are relevant for IGG is the MERET (Managing Environmental Resources to Enable Transition) project in Ethiopia which explicitly recognizes that land degradation is not only an ecological issue but also a social and economic one (Nedessa and Wickrema 2010).

Assessment: For social protection instruments to assist and protect, it is important that they are adequately designed and in place before action to transform the economy is taken The design should ensure that benefits respond to the needs of those targeted and are adequate in scale to protect beneficiaries, without discouraging them from engaging in productive activities. Expensive or time consuming burdens upon beneficiaries should be avoided. The management should be transparent and accountable, and include well defined targeting mechanisms, provisions for monitoring and impact evaluation and "graduation" strategies. Programs should also be linked to wider national strategies and

policies. It is more efficient to expand existing programs which have been tested and are functioning during transition, than to implement new programs (ILO and UNDP, 2011b).

- Economic / growth implications: While social protection is increasingly seen as important not only to guarantee social rights but also to foster economic performance, the economic implications are both direct and indirect. These might stem, for instance, from increased aggregate demand, a healthier and potentially better educated population, increased productivity, improvements in physical infrastructure, and greater readiness among the general public to accept reforms. In specific sectors where transition to green growth may require shifts in the productive activities of individual households, as in the case of agriculture, the link is also in mitigating risks and costs that may be involved in these shifts. Overall, social protection schemes improve the human capital and productivity of beneficiaries, who with higher education and health are more likely to be able to successfully transition towards green growth. Regarding improvements in physical infrastructure, a cost benefit analysis of the MERET Project found that the economic and financial rates of return averaged more than 12 per cent for the main activities. MERET provides food assistance for up to three months each year to enable food insecure households in drought-stricken areas to participate in labour intensive soil and water conservation activities (Nedessa and Wickrema 2010).
- Environmental implications:, Social assistance and safety nets can directly help in greening livelihoods by encouraging people to take risks and invest in greener technologies. Also, certain programmes such as employment guarantee schemes, can improve the environment and provide assets for more sustainable growth. The Indian Mahatma Gandhi Scheme is an example of the later. Permissible works under the scheme are productive green jobs such as water conservation and water harvesting, and drought proofing (including afforestation and tree plantation). According to a pilot study, this has already led to an increase in groundwater level and soil fertility (ILO and UNDP, 2011).
- Social implications: During a green economic transition, many jobs are lost in certain sectors, while others can change in nature (e.g. in the agriculture sector), and yet others are created. Social protection instruments can help prevent adverse outcomes for those that lose their livelihoods during the transition and empower those whose jobs have been destroyed to reenter the labour market through skills development, training and labour market services. Also, a number of programmes have demonstrated that the impact of the social protection floor on poverty can be dramatic. The *Renta Dignidad* has reduced extreme poverty by 5.8 per cent (2007-2009). The Mahatma Ghandi Scheme has provided employment and income to 52.5 million households (2009-2010). The Brazilian *Bolsa Familia* reduced the poverty gap by 12 per cent (2001-2005) (ILO-UNDP 2011).

Any Guidance / Good Practices: 1) Although not developed in the context of IGG, the 18 cases from 15 countries shared in a joint UNDP-ILO report from 2011 can serve as good practices. The cases, analyzed mostly by officials of the concerned countries, go into detailed descriptions of approaches, challenges and achievements. 2) Under the UN Social Protection Floor Initiative a number of UN agencies, IFIs, bilateral development cooperation agencies and NGOs are working with developing countries to

carefully analyze and take stock of existing structures and strengths and weaknesses of schemes and programmes in place, improve coordination of different activities, explore synergies, increase efficiency and develop a social budget. The report of the Social Protection Floor Advisory Group (2011) lists a number of principles that any social protection system should take into account. 3) The International Poverty Center for Inclusive Growth has also developed a number of case studies on social protection for inclusive growth. 4) More country examples on the interaction between social protection interventions and climate adaptation are available in Kuriakose (2012).

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http://docustore.wfp.org/stellent/groups/public/documents/newsroom/wfp225646.pdf

- World Bank (2012). *Social Protection and Climate Resilience*. Report from an international workshop in Addis Ababa, Ethiopia on March 14-17, 2011.
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Payments for Ecosystem Services (PES)

<u>Brief Description:</u> PES are defined as "a voluntary, conditional agreement between at least one 'seller' and one 'buyer' over a well defined environmental service – or a land use presumed to produce that service" (Wunder, 2005). By providing compensation, either financed by the government or the endusers, to the stewards of an environmental service, PES can strengthen ecosystem service provisions at international, national, regional and local levels. However, programmes can have diverse results, depending on the sellers and buyers, and the services that are being provided and the way the programme is implemented.

Examples of Application: In Costa Rica, forest owners are paid for several land-management practices, and all except agro-forestry⁵ are paid per hectare over five years. In 2001, the Costa Rican National Forestry Financing Fund (FONAFIFO) created the Environmental Services Certificate, which is a financial instrument through which FONAFIFO could receive funds from companies and institutions interested in compensating forest owners for preserving forests. Between 1997 and 2008 FONAFIFO distributed USD206 million to protect 460,000 hectares of forest and almost 6,600 contracts were signed across the country. This PES program, and others, formed part of the successful government initiative to increase the forest cover in Costa Rica and to promote an ecotourism industry. In Tanzania's Mafia Island, a twopart PES scheme was set up to encourage the mainly poor local population to conserve sea turtles. The initial payment provides immediate recompense for not harvesting nests (and also makes the overall payment scheme less risky for poor residents than if all payment were solely dependent upon successful hatchings). The post-hatching variable payment then provides an incentive not to poach eggs once the nest has been reported. The scheme reduced poaching rates of turtle nests dramatically, from 100% at the year of its introduction in 2001 to less than 1% in 2004. Moreover, from 2001 to 2004, the number of hatchings increased in both absolute terms (from 1200 to over 10,000) and relative terms (from 55% to 71% of the eggs remaining at hatching time).

Assessment: Most of the monitoring effort of PES has been placed on assessing changes in land use and management practice and whether landowners are meeting the terms of their contracts. The implications of these land use changes for ecosystem services are less frequently studied. This applies particularly to payment for watershed services schemes for which the data gathering and modeling required to establish a link between payments, land use/management changes and impact on water quality and flow is extensive and costly. For all types of ecosystem service there is the challenge of establishing a counterfactual or reference scenario of what would have happened in the absence of the scheme to take account of other factors that might influence land use. In any event, PES can be beneficial in producing the following impacts:

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⁵ One example of agro-forestry is pasture within actively managed tree or shrub crops.

- Social: PES promotes active citizenship and seeks to improve living standards. Small, local schemes have generally achieved a good level of participation; however, some early schemes have been criticized for lack of inclusiveness. Other studies have also found that the schemes that promote social inclusion are less effective in achieving environmental goals. Hence, a better understanding on how the "environment" and "social inclusion" goals can be promoted in parallel is required. Experience shows that poor rural communities only benefit from PES schemes where they include capacity building measures to switch to new resource management practices, and where adequate safeguards are introduced to secure the resource entitlements (including traditional tenure and access rights) of poor rural people. Where land is held collectively, equitable outcomes from PES schemes are more likely to be achieved when economic power prior to the creation of the market scheme is fairly evenly distributed within a community. Livelihood outcomes of PES schemes also need to be looked at from the standpoint of impacts on service users. Impacts on non-participants can be positive or negative, depending on how changes in land use, markets and social relations resulting from the PES scheme are manifest locally. If a payment scheme displaces other activities with higher employment benefits, rural laborers could be disadvantaged. If it increases employment options, these groups would likely derive benefits from the scheme.
- Economic/growth: PES could increase income growth through deliberate targeting of poor and marginalized groups, however, to what extent it helps to deliver poverty reduction goals is still not clear. More evidence needs to be gathered to examine linkages between the payments and poverty reduction impacts. Poor farmers voluntarily participating in PES initiatives will usually become better off so long as the mentioned safeguards and capacity building measures are integrated into the schemes. There is also growing evidence that non-financial rewards can also be a powerful incentive for rural communities to join PES. PES schemes involving reforestation often require front-loading of payments to help farmers meet the investment costs. The extent to which payments are front-loaded will shape the tendency to participate.
- Environmental: PES can provide incentives for ecosystem conservation and sustainable use of natural resources; however, the significance of the positive environmental impacts need to be examined on a case by case basis, hence a comprehensive monitoring process is required if outcomes are to be determined.

<u>Guidance / Good Practices:</u> The environment benefits and cost-effectiveness of PES depend crucially on program design and implementation based on the following key criteria:

- Define clearly objectives and property rights (and respect existing tenure and access regimes, with specific safeguards for vulnerable groups), and consider bundling multiple ecosystem services
- Explore means for land-limited households to gain access to under-utilized or under-performing public or private land (e.g. national forest reserves, absentee landholdings), with emphasis on mutual benefit arrangements
- Remove perverse incentives

- Adapt to circumstances and take time to build trust and overcome obstacles
- Raise potential participants' awareness and ability to invest and undertake the necessary changes in natural resource management and use practices through capacity building
- Identify buyers and sellers and ensure sufficient and long-term sources of financing
- Design a simple scheme with low transaction cost and clear incentives, especially for the poor, keeping in mind that incentives do not necessarily need to be financial
- Develop a robust monitoring and reporting framework, preferably in a participatory manner
- Deliver performance based payments and ensure adequate enforcement
- The role of Government as honest broker is key since buyers tend to be in a superior position thus limiting economic gains for sellers from PES schemes.
- PES, should complement a broader set of Government policies (e.g. environmental governance, land tenure reforms, fiscal reform, etc.).

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- TEEB, 2011, TEEB for National and International Policy Makers, Chapter 5 Renewing Benefits through Payments and Markets, available at http://www.cbd.int/doc/case-studies/inc/cs-inc-teeb.Chapter%205-en.pdf.; Rewards for, use of and shared investment in pro-poor environmental services, at https://rupes.worldagroforestry.org; and Pro-poor rewards for environmental services in Africa, https://presa.worldagroforestry.org/.
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Certification for Sustainable Production

<u>Brief Description</u>: Certification identifies goods and services that have potential to reduce adverse environmental and social impacts. Differentiating between green products can increase the market value and share for farmers and producers. It also contributes to economic growth while improving environmental practices, and helps ensure long-term resource sustainability. Acting as information systems for consumers, certification schemes include: (1) multistakeholder agreement on what constitutes best/acceptable practice in a set of standards; (2) auditing process to assess compliance; (3) sustainable source tracking process; (4) product label.

Examples of Application: Adopted in 2007, the East African Organic Products Standard (EAOPS) was the single, official standard for organic agriculture production. Back in 2005, Kenya, Tanzania and Uganda had developed different organic standards. At least five public, and several private and international standards for organic agriculture were being used in the region. This proliferation of standards posed significant problems for local organic farmer and called for harmonisation. The implementation of the EAOPS is carried out by various private certification companies and export outlets, despite some resistance by one of the national standards bodies to the private sector-led initiatives. Some private sector stakeholders also feared that the governments would have too much control. However, all stakeholders ultimately agreed through extensive consultation that government involvement was necessary for credibility. In 2008, the Pacific Organic Standard was adopted by 10 Pacific Island countries and territories, Australia and New Zealand, a replication of EAOPS aim to increase organic production and counter standards proliferations.

Assessment: Certification schemes still need development and strengthening and, more generally need to be accompanied by capacity building measures to ensure that farmers are able to produce in compliance with standards. As in many contexts smallholder farmers and indigenous communities already utilize traditional production methodologies based on minimal use of external inputs and maximum reliance on self-sustaining agroecological processes, it is important to develop certification approaches that are flexible and context-responsive enough to build on these practices and to avoid the temptation to set extremely high certification criteria.

• Economic/growth implications: It could help farmers, foresters and fishermen to secure a higher premium and gain access to a niche market. The evidence on the impacts of various certification schemes on the producers' incomes in developing countries is diverse, but they have generally been modest. Nelson and Pound (2009) demonstrated strong evidence that Fair Trade provides a favorable economic opportunity for smallholder farming families who are able to form producer organizations. Evidence indicated that Fair Trade producers benefited from higher returns and more stable incomes, which allowed a more long-term view than conventional producers in investing in their land, domestic facilities and children's education. On the other hand, a case study in Mexico suggested that certification for organic agriculture failed to generate additional incomes for small-scale producers due to their limited capacity in dealing

with increased bureaucratic requirements (Tovar et al, 2005). A combination of organic with a Fair Trade scheme could effectively help small-scale farmers make the transition.

- Social implications: With an increased level of income, there is an opportunity to improve living standards, enhance the resilience of livelihoods and create extra resources for education, health and other social necessities. Other benefits include building self-esteem, access to training programmes, increased confidence in negotiations, and greater gender benefits. All such benefits however greatly vary and depend on the specific nature of each standard and certification process and what it entails with respect to locally prevailing farming practices. It should also be considered that the vast majority of socially disadvantaged agricultural producers in the developing world do not primarily rely on the kind of crops that are usually the target of certification processes.
- Environmental implications: Evidence is rather limited. Van Kuijk et al (2009) examined the good forest management practices required by certification schemes and concluded they are beneficial for biodiversity by reducing impacts from logging, creating riparian buffer zones and green tree retention in clearcuts, and conserving protected areas.

<u>Any Guidance/Good Practices:</u> Although there are no worldwide agreed criteria in designing costeffective certification schemes for sustainable products, some lessons learned include:

- Certification would work if a price premium is attached to certified products. The evidence on
 whether such premiums exist, and if so how high they are, is very mixed. Aside from the
 proliferation of certification criteria, one large obstacle is the cost of certification, which can
 easily absorb all the price premium. Keeping certification costs low is therefore critical, and
 needs to be stressed.
- Raise awareness for organic goods
- Raise awareness for good produced through agro-ecological practices that are environmentally sustainable and well-suited to local contexts, avoiding rigid imposition of a single set of international standards
- Be clear in the specifications for certification
- Be transparent and non-discriminatory regarding all participants
- Design schemes that allow for inputs and feedback from all concerned stakeholders
- Reduce transitional costs to participation through additional public funding wherever possible
- Ensure that capacity building measures are built into certification schemes, with due consideration for the scope of market opportunities for farmers related to certified goods
- Create straightforward, uncomplicated schemes so less capable stakeholders can participate

<u>Sources of information:</u> Nelson, V and Pound B, 2009, The Last Ten Years: A Comprehensive Review of Literature on the Impact of Fairtrade, A Fairtrade Foundation Report; UNEP, Aid for Trade Case Story, available at http://www.oecd.org/dataoecd/11/62/47719232.pdf; Tovar, L.G., L. Martin, M.A.Gomez

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Tools to frame environmental policies: Communication and Nudging

Brief Description

Communication and nudging represent a broad range of evidence-based strategies aimed at stimulating and sustaining environmentally sustainable behaviors among individuals including the following:

- Social marketing approaches which draw on commercial marketing techniques and have been applied at large scale in a variety of fields such as seat belt use, HIV/AIDS prevention and family planning since the 1960s;
- Community-based approaches (a subset of social marketing) focused on changing social norms;
- Nudging which represents low-cost simple interventions aimed at tweaking "choice architectures" to encourage people to making the best decisions (for health, environment or other considerations).

Examples of application:

A social marketing approach was used by Puget Sound Energy (PSE) in the state of Washington (USA) to promote the adoption of compact fluorescent light (CFL) bulbs in 2009. Using a branded campaign approach called "Rock the Bulb" based on research insights among the targeted audiences, the program employed a variety of of channels including community outreach, web-based and mass media. Lifetime energy and environmental savings are estimated to have totaled over 118 million in kWh savings and 130 million lbs in greenhouse gas emissions avoided.

In terms of nudging which is a nascent approach, a recent trial at an office building in Amsterdam used bright red strips along the floor to encourage visitors to use the stairs (instead of power-hungry elevators); the frequency of people entering the building who opted to take the stairs increased by 70% during the 24-hour sample period that followed.

Many examples of community-based approaches can be found in the 122 countries where UNDP's Small Grants Programme has awarded more than 12,000 grants to support projects of NGOs and community-based organizations to demonstrate that community action can maintain the fine balance between human needs and environmental imperatives. For example, in Honduras, 1,200 indigenous women organized in MIMAT, took on the clean-up of the largest lagoon in the area and the streets of the six municipalities that make up eastern Mosquitia. They built an incinerator and also classify, pack and ship garbage to a private company that purchases the material. Since 2006, the MIMAT project has collected an average of 70 cubic metres of garbage per month. As a result, people no longer throw their garbage in the lagoon which is the source of staple food - fish. Also, diseases like malaria and diarrhea have decreased and polluting smoke from residents burning garbage in their homes has been reduced.

Assessment:

The application of communication and nudging approaches offer the potential benefits:

<u>Economic/growth:</u> Adding a behavior change component to infrastructure or other types of investments can have a potential transformational effect. For example, a public transport system may not be utilized unless it is not properly "marketed" to potential users and supported by an evidence-based behavior change communication program. Behavioral change may also stimulate new markets and sources of income.

<u>Social implications:</u> Social marketing, including community-based approaches, can support the creation of new social norms that can in turn help foster and sustain behavior change at the individual and community level.

<u>Environmental</u>: By supporting the adoption and maintenance of green or sustainable behaviors, communication and nudging can contribute directly to environmental benefits such as a reduction in greenhouse gas emissions and pollution.

Any Guidance/Good Practices: To be effective, communication approaches should:

- Recognize that creating awareness or knowledge of a problem or issue is not sufficient to generate behavior change and hence must address a wider range of behavioral determinants such as beliefs, social norms or access to enabling products and services;
- Be evidence-based in that they build on insights from consumer or market research data;
- Target clearly identified audiences;
- Establish clear communication objectives based on the body of evidence;
- Use multiple channels that will convey and repeat a consistent set of messages;
- Integrate monitoring and evaluation to inform program adjustments or continuation;
- Be developed with stakeholder buy-in to ensure replication and uptake.

Nudging approaches in particular should not restrict individuals' freedom of choice and must be monitored to ensure that they remain effective.

Selected sources:

http://www.cdc.gov/healthcommunication/ToolsTemplates/index.html - CDC Health Communication and Social Marketing Practice

<u>www.toolsofchange.com</u> – Community-based social marketing for promoting health, safety and environmental citizenship

http://www.embarq.org/en/from-here-there-a-creative-guide-making-public-transport-way-go-

A creative guide to make public transport the way to go

http://Nudges.org - blog on nudging

http://InudgeYou.com - Danish Nudging Network website

The Handbook on Community-Led Total Sanitation, Kamal Kar and Robert Chambers, 2009

http://wsp.org/sanmarketingtoolkit - WSP sanitation marketing tool kit

Social Marketing Influencing Behaviors for Good, Lee and Kotler, Sage, 2011

Nudge - Improving Decisions About Health, Wealth and Happiness, Thaler and Sunstein, Penguin, 2008

UNDP's Small Grant Programme website:

http://sgp.undp.org/index.cfm?module=ActiveWeb&page=WebPage&s=AboutSGP.

The Honduran example:

Http://sgp.undp.org/index.cfm?module=ActiveWeb&page=WebPage&DocumentID=1017

Green innovation and industrial policies

Brief description

Green innovation policies are policies seeking to trigger the development and commercialization of new solutions to environment problems by encouraging innovation across technologies (horizontal policies) or by supporting a specific technology (vertical policies). Green industrial policies are policies aiming to green the productive structure of the economy by targeting specific industries or firms. They include industry-specific research and development subsidies, capital subsidies, and tax-breaks; feed-in tariffs; and import protection. They do not include policies targeting demand (such as consumer mandates), which can be met by imports without changing local production.

Example of application

Brazil has supported the development of a biofuel industrial sector for decades. China is subsidizing research and development (R&D) and industrial production of photovoltaic (PV) panels, most of which it exports. Morocco is investing public resources in producing electricity from concentrated solar power and plans to sell renewable energy to Europe. In all three cases, the policy objective is both to produce environmental benefits and to create growth and jobs. These countries are not alone in pursuing such approaches. Indeed, most countries tap these types of environmental policies—which really amount to green innovation policies and green industrial policies. Some commonly used policies include R&D subsidies for drought-resistant crops, national strategies for electric cars, and efforts to create new green industries such as China's promotion of solar PV production.

<u>Assessment</u>

- <u>Economic/Growth implications:</u> Green innovation and industrial policies can help spur economic
 growth and more jobs to the extent that their contribution to the expansion of existing markets
 and the creation of new markets outweighs associated costs. However, there is little empirical
 evidence to-date that the induced innovation is sufficient to overcome the added costs of
 environmental regulations.
- <u>Social implications:</u> Very few base-of-pyramid green innovations to meet the needs of poor consumers have been sufficiently scaled-up to-date. Whether there may be a need for more focused policy efforts in this area requires a better understanding of the constraints, both on the supply and demand side, impeding scaled-up commercialization, and the benefit-cost of appropriate policies and their implementation to improve market outcomes.
- Environmental implications: Green innovation and industrial policies can help, among others, to (1) reduce pollution and achieve greater resource efficiency in buildings (thermal insulation and new materials, heating, energy-efficient lighting); production processes (new uses of waste and other by-products from firms); agriculture (from improved and resilient crop and livestock breeds, water management, and farming systems to mechanical irrigation and farming

techniques); and infrastructure and urban design (such as land use zoning), and (2) mitigate climate change through a cleaner energy supply (wind, solar, geothermal, marine energy, biomass, hydropower, waste-to-energy, hydrogen fuels); low-carbon end use (electric and hybrid vehicles, climate-friendly cement); and carbon capture and storage.

Any guidance/good practice

- More advanced countries should invest in frontier innovation through research and development as well as in catch-up innovation to benefit from existing global knowledge; lowerincome countries (with more limited technological capacity) should focus on adapting and disseminating technologies already developed and demonstrated.
- The desirability of innovation and industrial policies—green or not—cannot be assessed without analyzing a country's economic situation, the benefits it can expect from these policies, and its ability to avoid capture by vested interests. Experiences around the world with these policies show that the following five lessons are key:
 - The relevant policy intervention depends on what market failure needs addressing
 - Horizontal (or output-based) policies should be favored over vertical policies ("picking winners" or at least the winning technology) when possible.
 - The desirability of innovation and industrial policies depends on the balance between market failure and government failure.
 - Successfully using innovation and industrial policies requires the capacity to remove support when it is no longer justified, especially if one technology proves less promising than expected.
 - The benefits from innovation and industrial policies vary depending on the scale of assessment.

Selected sources

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 DC: World Bank.

Decision making under uncertainty

Brief description

There are 4 main methodologies to tackle uncertainty in green growth strategies: Cost-Benefit Analysis (CBA) under uncertainty, CBA with a Real Options approach, Robust Decision Making, and Climate Informed Decision Analysis. All have different strengths and the development of a decision tool to choose amongst them is not a simple matter. Here, we choose to focus on one methodology: Robust Decision Making (for a comparison of the 4 different tools, see Brown and others, forthcoming).

The robust decision-making (RDM) approach helps design strategies able to cope with deep uncertainty (Lempert and others 2003). It starts with analyzing a candidate strategy to determine its vulnerability to surprise and uncertainty. It then tries to reduce this vulnerability, thereby increasing the overall resilience of the strategy. In practice, this is done through a stakeholder consultation process that identifies the available strategies or "policy levers," then determines the criteria for appraising these strategies and the range of uncertainties to consider. Next, decision makers proceed through an iterative process, identifying the vulnerabilities that different scenarios expose and how these can be addressed until the vulnerabilities are reduced to an appropriate level. This robust decision making approach can be managed through a consultative process or supported by sophisticated modeling.

Example of application

RDM has been applied for water planning in Southern California. Under the RDM analysis, the best management plan was adaptive and included near-term implementation of more water use efficiency techniques. When water managers were presented with these results, surveys indicated an increase in their confidence that they could adequately plan for the effects of climate change despite the uncertainty in forecasts. The methodology will soon be applied in Ho Chi Minh City to enhance flood protection.

Assessment

Benefits

- Full vulnerability analysis of proposed projects
- Transparent, reproducible, and exhaustive scenario discovery reduces over-confidence bias
- Stakeholder process to define measures of success and potential futures builds consensus on project action even under diverse assumptions and priorities
- Adaptive decision process explicitly addresses the limits of our ability to anticipate the future for any project.
- Project alternatives and plans evolve from existing project options

Constraints

- Time and cost intensive
- Quality of the stakeholder process influences the relevance and efficacy of analysis, especially regarding the range of policies available, uncertainties considered, and choice of worst-case scenario
- Requires extensive quantitative modeling of project area

Any guidance/good practice

This approach is particularly relevant when multiple policy goals and world views coexist, because it allows for a flexible definition of success and failure. A cost-benefit analysis requires a consensual objective function that is able to rank all potential outcomes. In contrast, the robust decision making approach makes it possible to combine different performance criteria. It is thus useful for the design of green growth policies, which are based largely on the identification of synergies across policy goals.

Selected sources

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Project-Level Impact Assessment

Brief Description:

Upstream planning and policy-making for inclusive green growth must also translate into downstream decision making and implementation processes to ensure that project-level investments are designed in a manner that enhance environmental and social benefits and manage potential risks. For example, environmental impact assessment (EIA) has been a proven tool over the past 40 years and has a good track record in evaluating the environmental risks and opportunities of project proposals and improving the quality of outcomes. Because EIA is now a well-established practice and is increasingly included in national legislation it can provide a key entry point for addressing social impacts as well through an integrated approach. While it is indeed best practice to include social issues in any environmental assessment, the degree to which this is done is variable. There are also several approaches to project-level impact assessment, such as Social Impact Assessment (SIA) and Health Impact Assessments (HIA), which may also provide entry points and tools for integrating inclusive green growth approaches into project-level design and decision making.

Examples of Application:

EIA, SIA and HIA are applied at the project level as part of the design phase. Impact assessment approaches can be applied to projects ranging from large-scale infrastructure development projects to community-based natural resource management projects.

Assessment: Similar to Strategic Environmental Assessment, the application of project-level environmental, social and health impact assessments in developing countries could bring a range of benefits and safeguard the environmental assets and opportunities upon which all people, particularly the poor depend on. It can also improve project-level design and implementation which is where direct impacts are often realized. However, it must be noted that project-level assessment invariably takes place in a predetermined policy environment and seldom influence upstream planning processes. For example, an EIA of a new energy generation plant will be unlikely to consider other energy generating possibilities. Therefore, project-level assessment should complement upstream assessment such as Strategic Environmental Assessment.

- <u>Economic/growth implications</u>: Project-level impact assessment provides a process to consider potential socio-economic impacts of a proposed project in order to design the project in such a way that enhances the economic benefits of the project while at the same time avoiding negative environmental and social trade-offs. HIA enable health objectives to be considered along with socio-economic and environmental objectives, an important step towards sustainable development.
- <u>Environmental implications:</u> EIA is a well-established process that aims to identify and assess potential environmental impacts of a proposed project to ensure that projects are designed and implemented in a manner that is environmentally sustainable.

<u>Social implications:</u> Project-level impact assessment should include a strong stakeholder engagement component is part of the scoping and assessment process to ensure that the concerns of stakeholders are considered in project-design. The field of SIA provides best practice guidance and approaches to assess social implications of a proposed project.

Any Guidance / Good Practices:

An environmental and social impact assessment process should identify, predict, evaluate and mitigate the biophysical, social, and other relevant effects of development proposals prior to major decisions being taken and commitments made and maximize opportunities for environmental enhancement, including exploring opportunities for promotion of global environmental benefits. It should be a participative, inter-disciplinary and integrated process. The following resources provide specific guidance and good practice principles.

Sources of Information:

Environmental Impact Assessment, Open Educational Resource, http://eia.unu.edu/index.html

World Bank Environmental Assessment Sourcebook, http://go.worldbank.org/D10M0X2V10

Principles of Environmental Impact Assessment Best Practice,

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Analysis of Labor Market and Income Effects

<u>Brief Description:</u> The knowledge of how the transition to a sustainable, low-carbon economy will affect employment, especially underlying job movements, as well as income generation and distribution is vital to informing policy. Preliminary analyses that outline the potential implications of different policy choices are therefore a crucial first step.

Green jobs have been mapped and traced in a growing number of countries. For example, based on a broader definition (green jobs as decent jobs which reduce environmental impacts), 2.9 million green jobs were recorded in Brazil in 2010, accounting for 6.6 percent of all formal employment. Green job growth has continued to be strong, growing 6.1 per cent per year against 5.8 per cent for total formal employment. In a recent assessment to underpin it's new development strategy, South Africa has evaluated the potential to create net direct green jobs at 460,000 by 2025.

ILO's analysis tool can identify the changes, opportunities and challenges in the labour market with a high degree of resolution, in particular for young women and men⁶. The tool allows for the identification of the potential job creation and job loss on a sector-by-sector basis as well as shifts in income by type of household. Beyond the assessment of impacts, the tool provides labour market information, highlighting opportunities to create decent work for youth for example and provides pointers for policy formulation such as needs for formalization of employment in certain sectors or for support to green micro- and small enterprises, notably for young entrepreneurs or infrastructure investment. Similarly, the data generated with the tool, provide the basis for assessments of the expected transformation in skills requirements and the implications for education, vocational guidance and training policies.

<u>Examples:</u> In support of government efforts to protect and sustainably manage of forests, a very detailed assessment has been prepared for the Brazilian forest sector disaggregating 12 forestry activities and distinguishing between the Amazon (natural forests) and other parts of the country. It shows that forest-based employment is far larger than normally reported, that some activities have high employment elasticity and multiplier effects, but also that incomes are low in some of these activities, requiring complementary measures for poverty reduction. Other assessments have been conducted in Mauritius. Work is under way among others in India (Gujarat state), Nepal, South Africa and Sri Lanka.

Assessment: The tool requires at least an input/output table and ideally a Social Accounting Matrix as a basis. This information is derived from the national accounts and supplementary surveys. Data are available in most developing countries from statistical offices, ministries of planning or finance and central banks. Before finalizing it, the tool has been tested in Bangladesh to ensure its applicability also in Low Income Countries. The tool should be used by qualified economists and labour market analysts. Professionals who can undertake the analysis or can be trained with little input exist in most developing countries. One of the limitations of the tool in its simple form, is its static nature. This limits the time horizon of analysis to the near to medium term (around 5 years). A dynamic version is also available

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⁶ A guide for the application of the tool is available from the ILO website: ILO (2011) <u>Assessing Green Jobs Potential in Developing Countries:</u> A Practioner's guide

(DySAM) and used but requires more data and preparation. The ILO offers relevant support and capacity building for both versions. It is currently supporting national partners to apply DySAMs in Indonesia, Malaysia and South Africa.

Measures combining skills development, job assistance and economic diversification are needed to assist workers at risk of losing their jobs, e.g mining regions. (ILO-UNEP, 2012)

- Economic / growth implications: Gross and net impacts of greening the economy in terms of employment gains or losses and of income distribution are affected by the way changes in relative prices for goods, services, capital and labor are transmitted through the whole economy, including input-output linkages in value-chains, the shares of wages in value-added and expenditure patterns of households. The impacts are strongly conditioned by the policy instruments adopted and their interaction with the structure and composition of the economy in terms of sectors and sizes of enterprises. Substantial net gains in employment and improvements in income distribution are possible provided the right policies are applied. The labour market analysis tool helps to design policy so these development benefits accrue. It also helps to ensure that human resources are available across sectors in a timely manner to avoid skills shortages and reduce the cost of labour market adjustment. The tool also helps to identify workers who will be relocated because of the transition to greener growth and allows putting in place policies like unemployment benefits, labour market intermediation and economic diversification to make the transition to a greener growth smooth and just.
- Environmental implications: The tool enables policy makers to assess social impacts of environmental policies and to compare the impacts of different policy instruments for the achievement of a given objective. This makes it possible to identify opportunities for synergies, but also potential trade-offs. The information obtained provides a basis for an informed dialogue with stakeholders. This is often critical in order to build consensus and stable support for environmental policies for example by making employment benefits visible or by anticipating and mitigating social cost when reforming energy subsidies.
- <u>Social implications:</u> Social inclusion is a goal and policy priority in a growing number of developing countries. Access to gainful and productive employment is the most important way this goal can be realized. The transition to greener economies has the potential to lift millions of workers in developing countries, particularly women, out of poverty and to include them in the formal economy. A greener economy can not only create more and better jobs, it could also make a major contribution to poverty reduction by improving incomes. The tool allows to identify specific opportunities, assess the nature and the scale of benefits and to tailor policy instruments and programmes accordingly.

Any Guidance / Good Practices: The ILO Strategy for the Green Jobs Programme includes a comprehensive knowledge base, tested tools and practical approaches. The programme brings together a team from various ILO units and offices across the world seeking the full involvement of the constituents and building strategic partnerships. The Programme operates at various levels, (i) it

promotes international policy coherence through research and advocacy (e.g. between climate change and employment/labour policies in the international negotiations), (ii) supports constituents at national level through policy and technical advisory services and (iii) provides capacity development of constituents and partners through training and knowledge sharing at international, regional and national level.

Sources of Information:

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ILO –UNEP-IOE-ITUC (2008) <u>Green Jobs: Towards Decent Work in a Sustainable, Low-Carbon World</u>. The first comprehensive study on the emergence of a "green economy" and its impact on the world of work.

OECD (2012) The Jobs Potential of a Shift towards a Low-carbon Economy

Framework & Guidelines on Land Policy in Africa

Brief description

In 2006, the African Union Commission, the Economic Commission for Africa and the AfDB initiated a process for the development of a framework and guidelines (F&G) for land policy and land reform in Africa with a view to strengthening land rights, enhancing productivity and securing livelihoods for the majority of the continent's population. That initiative was carried out by way of extensive consultations involving the participation of Regional Economic Commissions in all the five regions of the continent, civil society organizations, centres of excellence in Africa and elsewhere, practitioners and researchers in land policy development and implementation, government agencies and Africa's development partners. The final outcome of the initiative was then presented before the formal decision-making processes of the AU for approval and adoption by the Assembly of Heads of State and Government in July 2009.

The Framework and Guidelines (F&G) are presented in seven interrelated chapters:

- Chapter One provides the justification for and process followed in developing the F&G;
- Chapter Two describes the context which has defined the nature and characteristics of the land
 question in Africa in order to explain the reason why the land sector has not played its primary role
 in the development process. That role is examined in Chapter Three;
- Chapter Four sets out the key operational processes which African countries will need to follow in order to develop comprehensive policies that would enable the land sector to fully perform that role;
- Chapter Five analyses the difficulties likely to be met and conditions necessary for the effective implementation of such policies;
- Chapter Six discusses the measures which African countries may wish to put in place to track progress in the development and implementation of those policies;
- The final chapter is a concluding statement on how member countries of the AU might want to use the F&G.

Example of application

Rwanda has volunteered to become a pilot country for the implementation of the Declaration on land through the use of the F&G. National land policy processes were strongly influenced by the F&G in Burkina Faso, Burundi, Mali, Kenya and Uganda.

Assessment

Economic/Growth implications: In most African countries, agriculture is the main source of livelihood for the majority of the population and a major contributor to economic growth. The ability to secure access to land resources through a variety of tenure systems that guarantee returns for short or long term investments is important for the improvement of agricultural productivity in general and food security in particular. Clear property rights in agriculture also have the potential of increasing revenues through taxation and enhancement of agricultural exports.

- Social implications: To the vast majority of societies in Africa, land is regarded not simply as an economic or environmental asset but as a social, cultural and ontological resource. Land remains an important factor in the construction of social identity, the organization of religious life and the production and reproduction of culture. The link across generations is ultimately defined by the complement of land resources which families, lineages and communities share and control. These are dimensions which land policy development must address if prescriptions for change are to be internalized. Also to be addressed are gender inequalities in secure access to land and in land tenure, which often place women at a disadvantage, despite the major role of women farmers particularly in smallholder agriculture across the continent.
- <u>Environmental implications:</u> Africa has a rich heritage of natural and ecological resources which remain central to development. Strong systems of land governance rooted in the principles of sustainability will be critical in an effort to ensure their protection and renewability.

Any guidance/good practice

Land policy development is clearly a complex, interactive and often long drawn out exercise. Reduced to its fundamentals, however, the process may be conceptualized as consisting of the steps summarized below:

- 1. Stakeholder consultation and identification of salient problems in the land sector;
- 2. Preparation of working drafts for further discussion with stakeholders;
- 3. Appraisal of institutional and financial/budgetary options;
- 4. Refinement, processing and approval of the national land policy;
- 5. Design of implementation programmes and rationalization of institutional responsibilities for implementation;
- 6. Enactment of new and revision or repeal of existing land and land-related legislation;
- 7. Further dissemination of information to the public, training and capacity building to support implementation.

Selected sources

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http://www.uneca.org/fssdd/lpi/Publications/F&G%20on%20Land%20Policy ENG.pdf

Voluntary Guidelines on the Governance of Tenure, FAO 2012, http://www.fao.org/nr/tenure/voluntary-guidelines/en/

Integrated Water Resources Management (IWRM)

Brief description

Integrated Water Resources Management (IWRM) is a comprehensive approach to water resource management that views water as a single resource with competing uses and inter linkages with the ecological, social and economic systems. Through IWRM, water is treated as an economic, social and environmental good; and IWRM helps ensure that policies and options that guide water resources management are analyzed within an integrated framework.

Example of application

Water supply and sanitation, water-related disaster risk, and water for agriculture, industry, energy and transport, all must be managed through well designed integrated water resources management plans. Application of IWRM principles could include: i) development of national and trans-boundary water resources management plans; ii) development of water resources information management systems; and iii) establishment of river basin organizations.

For example, the Lake Chad Basin Commission developed a basin water charter, which is a joint legal platform for effective protection, co-management and coherent water resources development of the basin. In the Kibuon and Tende River Catchment of Kenya, sustainable agricultural and land use practices were promoted that lead to a reduction of nutrient and sediment transport into the water courses. Water harvesting techniques were introduced in Bugesera, Rwanda for multiple water use such as agriculture, livestock and human consumption, which has improved livelihood of rural population. More examples could be found in GWP IWRM ToolBox.

Assessment

Good governance and integrated approaches for water resources management are essential for building sustainable development pathways and resilient societies. So is capacity building of institutions and organizations tasked with water management, from the local level upward. The solution also lies in improving the information and knowledge base in most countries to improve the reliability and quality of data and in engaging stakeholders. Other tools from the Inclusive Green Growth toolkit, such as Environmental Fiscal reform, Payment for Environmental Services and Social Protection Instruments can be applied as part of IWRM approaches. Ensuring sustainable financing for water supply and sanitation, and for water resources management more generally, is also critical to effective implementation of IWRM.

The main challenge is to operationalize these integrative principles. Hence, a "pragmatic but principled" approach that respects principles of efficiency, equity, and sustainability is required. Such an approach recognizes that water resources management is highly political and that reform requires the articulation of prioritized, sequenced, practical, and patient interventions.

Most impacts of climate change appear in water-related phenomena, such as droughts, floods and sea level rise. These impacts exacerbate water related challenges the world is already facing. As an example, Africa has over 60 shared river basins and 38 shared aquifers between 2 or more countries and

thirteen major river basins covering most of Africa are shared by 5 or more countries. About half of the continent faces some sort of water stress or scarcity and less than 5% of the renewable water resources are utilized for economic and social development needs. IWRM approach is critical for the development of the continent.

<u>Economic/growth implications:</u> Water, energy and food security will heavily influence economic growth and development, and water is at the center of this nexus. Unsustainable management of scarce water resources and unsustainable water-use practices can seriously hamper economic growth and close off development opportunities.

<u>Environmental implications:</u> Successful IWRM approaches can help improve water efficiency, preserve biodiversity and environmental capacity, and reduce pollution of water resources.

<u>Social implications:</u> IWRM can help improve livelihoods, improve nutrition, reduce women's workload and enable them to participate on better terms in economic growth. It is also an approach that enables to maximize benefit at basin level through coordination between competing water uses.

Any guidance or good practice

The Global Water Partnership (GWP), a network of Country and Regional Water Partnerships with 2,000 partners world-wide —water experts, development agencies, public institutions, government agencies, private companies, professional organizations, academic institutions, and others—has developed a ToolBox in the form of a free and open database with a library of background papers, policy briefs, technical briefs and perspective papers as well as huge sections of case studies and references in each tool. These are all available for use by anyone who is interested in implementing better approaches for the management of water or learning more about improving water management at a local, national, regional or global level.

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Green Accounting

Brief Description

Green accounting extends national accounts to include the value of the damage and depletion of the natural assets that underpin production and human well-being. In particular, net saving, adjusted for the depreciation of produced assets and the depletion and degradation of the environment, indicates whether well-being can be sustained into the future. Negative net saving indicates that it cannot, because the assets that support well-being are being depleted. With green accounting, the scorekeeping indicators (such as wealth accounts) can be used alongside GDP to better assess how well a country is doing for the long term. It also provides detailed accounts for management of natural capital, which many countries have adopted over the past 20 years—especially for water, energy, and pollution. However, few countries have adopted the revised macroeconomic indicators.

Examples

Countries like Australia, Botswana, and Spain are implementing accounts for material resources and piloting ecosystem accounts. This piloting of methods will help the development of internationally agreed methodology for ecosystem accounting. This is supported by parallel efforts to identify data gaps and capacity constraints and a strategy to overcome these limitations. A World Bank–facilitated partnership—Wealth Accounting and Valuation of Ecosystem Services (WAVES) —is helping implement natural capital accounting based on the SEEA. Through WAVES, Botswana, Colombia, Costa Rica, Madagascar, and the Philippines have embarked on work plans that have been endorsed at the highest level of their governments.

Assessment

Natural capital accounting can provide detailed statistics for better management of the economy. For example, land and water accounts can help countries interested in increasing hydro-power capacity to assess the value of competing land uses and the optimal way to meet this goal. Ecosystem accounts can help biodiversity-rich countries design a management strategy that balances tradeoffs among ecotourism, agriculture, subsistence livelihoods, and ecosystem services like flood protection and groundwater recharge. Ecosystems accounting not only provides a tool to maximize economic growth but is also a means to measure who benefits and bears the cost of ecosystem changes, helping governments gauge whether their growth is inclusive. Natural capital accounting straddles all three pillars of sustainable development and can move the world beyond a GDP metric to focus on all assets that a country needs for long-term growth and well-being.

Any Guidance/ Good Practices

The System for Environmental and Economic Accounts (SEEA) provides an internationally agreed method, on par with the current System of National Accounts, to account for material natural resources like minerals, timber, and fisheries. The adoption of the "Central Framework" of the SEEA has eliminated a major barrier to the adoption of natural capital accounting. The challenge now is to build capacity in countries to implement the SEEA and to demonstrate its benefits to policy makers. Many countries want to take natural capital accounts beyond the material resources like timber to include ecosystem services

such as water filtration, flood protection, and pollination services. These "regulating services" are not yet included because of a lack of internationally agreed methodology to calculate them, making it a barrier to implementation.

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