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Why do we need the Green Economy? Growing Risks of Global Breakdown due to Repeated Heavy Shocks

- Financial-economic crisis: Toxic assets are a multiple of annual global GDP.
- Persistent poverty and growing inequity
- Resource shortages: energy, water, food.
- Environmental harm, extreme events, conflicts, mass migrations, pandemics
- Climate change: the ultimate risk multiplier

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Multiple threats are inter-related and synergistic Stakeholder interests are divergent Responses are uncoordinated – Weak political will

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LOST OPPORTUNITY: Economic Stimulus Packages were not used to also solve longer term issues of Poverty, Resources & CC

- 1. Support productive long term investments (e.g., infrastructure, renewable energy, forestry, agriculture) and social development (e.g., health, education, sustainable livelihoods, safety nets), NOT subsidies for rich banks, companies & consumption expenses.
- 2. Boost poverty reduction and job creation efforts (e.g., more access to assets for the poor, promote exports of IT and manufactures).
- 3. Better governance, manage markets, reform prices

Fraction of stimulus funds spent on green investments: Korea – 80%; China – 35%; Others mainly 10-15% or less

Green Economy Approach Enhances the Momentum for Change

- 1. Build for long term. Make Development More Sustainable -- with balanced consideration of sustainable development triangle (economic, social and environmental elements). Transcend conventional boundaries using innovative, holistic, integrative approaches.
- 2. Transform global governance structure. Reform market regulation. Make UN system more effective, equitable & responsive. Make IMF/World Bank more inclusive. Give more weight to G20 (with advice from B20, C20, etc.)





Way Forward - A Long Term Vision of SD: 3					
Levels	Indicators Time	Human Interventions			
Main Issues (surface)	Poverty, Inequity, Exclusion, Now Resource Conflicts, Harm to Environment (including CC)	High risk from unrestrained, myopic market forces ("Washington consensus", globalisation etc.) – Reactive: piecemeal - mainly govt.			
Immediate Drivers (sub-surface)	Consumption Patterns Population Technology/Production Governance	Making development more sustainable (MDMS) with systematic policy reform to manage market forces (Sustainomics) – Proactive: integrated, harmonious approach - govt., business, civil soc.			
Underlying Pressures (deep)	Basic Needs Social Power Structure Values, Perceptions, Choices Knowledge Base	Fundamental global sustainable dev. transition catalysed by grass roots citizens movements, & driven by social justice, ethics and equity, innovative leadership, policies, info. flows, tech. (new SD paradigm) – Proactive: civil soc., business, govt. <u>ce:</u> Munasinghe (2007), IPCC, MA, GTI			

HOW DO WE GET THERE ?

Addressing Complex, Multiple, Interlinked Sustainable Development issues within the Integrated SUSTAINOMICS Framework

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Core Concept 1: Make Development More Sustainable with EMPOWERMENT, ACTION & FORESIGHT

There are many definitions of sustainable development, and its precise meaning still remains elusive (and perhaps unreachable).

PRACTICAL TEST FOR HUMAN ACTIONS:

Does the activity make development more (or less) sustainable?

Making development more sustainable (MDMS) is a more practical incremental strategy that is easiersimpler implement because many unsustainable activities are easier to recognize and eliminate.

Parallel track strategy:

1. Short to medium term – make development more sustainable (apply best practice).

2. Long term - aim for ideal goal of sustainable development (identify next practice).











<u>Core Concept 3: Transcend Boundaries with</u> <u>INNOVATION & FRESH IDEAS</u> Values – replacing unsustainable values Disciplinary – complex issues need all disciplines Space – spans local to global scales Time – spans days to centuries Stakeholder – need to include all stakeholders

• Operational – full cycle from data to application

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Adaptation Burden & Climate change is likely to impact Equity: CC ____ SD disproportionately upon the poorest countries and the poorest persons within all countries, Adaptation is the first worsening inequities in health status and access priority of developing to adequate food, clean water & other resources. countries that are most Impacts worse & capacity to adapt is lower vulnerable to climate because of a lack of financial, institutional and change. Financial and technological capacity, and access to knowledge technical help is crucial Annex I: Population 19.7% Non-Annex I: Population 80.3% Mitigation Obligation 25 & Equity: SD→ CC Annex 1 avg. Average Annex I: 16.1 t CO₂egicap **Mitigation leadership is** the main responsibility of industrial countries Non-Annex I ava with high per capita GHG emissions and

1 000

2 000

3 000

4.000

Cumulative population in million

5 000

6 000

7.00

capacity to mitigate

Green Economy & SD: Climate Justice & Right to Develop

















CONSUM	IPTION — Empower households behavioural contexts to promote sustainable change	
Individual	 Empower and motivate – using prices, labels information, psychology and advertising. 	
Community	 Change values, habits and socio-cultural contexts to shift to low-carbon products and behaviour. Eg., public attitude to smoking]
Producer	 Adapt material and physical elements of production - goods and infrastructures are inter-connected 	
Social capital en can be better m synergistically make developm		
Sustainable Consumption Institute	LNEASING SALASEE	

production	acture & processing	distribution transport	ail	umer use	Recyc & dispo
Light bulb (UK 11W)					
2%	/ 0	1%	1%	95%	1%
<u>ht bulb (</u> 2%	<u>2%</u>		1%	95%	

PRODUCTION - Life cycle analysis of carbon emission hot spots along the supply/value chain: 2						
Raw	Manuf-	Logistics	Ret-	Cons-	Recycling	
production	processing	transport	an	use	a disposal	
Light bulb (UK 11W)						
2%		1%	1%	95%	1%	
Orange Jui	Orange Juice (Brazil freshly squeezed 1L)					
28%	19%	47%	5%	1%	0%	
MIND Source: Adapted from Munasinghe et al. (2009)						

PRODUCTION - Life cycle analysis of carbon emission hot spots along the supply/value chain: 3						
Raw material production	Manuf- acture & processing	Logistics distribution transport	Ret- ail	Cons- umer use	Recycling & disposal	
Light bulb (UK 11W)						
2%		1%	1%	95%	1%	
Orange Jui	Orange Juice (Brazil freshly squeezed 1L)					
28%	19%	47%	5%	1%	0%	
Milk (UK, National Tesco)						
76%	5%	4%	10%	3%	1%	
MIND Source: Adapted from Munasinghe et al. (2009)						











Optimistic final message for the World

Multiple global problems pose a serious challenge to us all – the economic crisis, poverty, resource scarcities, ecosystem harm, climate change, etc. are interlinked. Although the issues are complex and serious, these problems can be solved together, provided we begin now. Sustainomics framework shows us how to make development more sustainable (MDMS), that will transform the risky "business-as-usual" scenario into a safer and better future. **GREEN ECONOMY TRANSITION IS THE FIRST STEP** Governance systems (at all levels) must be transformed to deal with multiple crises in an integrated way. Business and civil society must work with govt. in mobilising resources, identifying issues and implementing solutions. Sustainable producers and consumers following millennium consumption goals, can help to chart a new 21st century path for sustainable development





- 1. Millennium consumption goals (rich) complement MDG (poor)
- 2. 20% of richest percentile (1.4 billion people) account for >80% of consumption. Small changes towards more sustainable consumption can reduce burden on environment
- 3. Household consumption ultimately accounts for a large share of carbon emissions (and other resources) ~ 80%
- 4. Complements conventional approach of reducing emissions via top-down, large scale activities (energy, big industry)
- 5. Relies on influencing the behaviour of large numbers of individual household consumers
- 6. Will provide quicker results compared to top down government policies and long term industrial investments
- 7. Cuts across national boundaries and avoids self-interest based approach of governments and interest groups
- 8. Links with producers and global supply chains





Four horsemen of the Apocalypse: famine, plague, war, death



"DEVO VASSATU KALENA SASSA SAMPATTI HETU CA PHITO BHAVATU LOKO CA RAJA BHAVATU DHAMMIKO" Environmental: "May the rains come in time, Economic: May the harvests be bountiful Social: May the people be happy & contended May the king be righteous" Even in ancient times, a favourable environment, economic prosperity, social stability (and good governance), were clearly identified as key pre-

Ancient Pali Blessing (Sri Lanka)

requisites for making development more sustainable.

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