# Annex 1 Expert Group Meeting Indicators of Sustainable Development 13-15 December 2005

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# Annex 2 Expert Group Meeting Indicators of Sustainable Development Programme

United Nations Headquarters New York, 13 – 15 December 2005

# Tuesday, 13 October 2005

10:00 – 10: 30 a.m.

# **Opening Session**

Welcome by Chair

Organizational Matters Adoption of the Draft Programme

Status and role of the CSD work programme on Indicators for Sustainable Development and Objectives of the Meeting Comments by Ms. Mary Pat Silveira, Chief, National Information, Monitoring and Outreach Branch, Division for Sustainable Development

Brief discussion

The main objectives of the meeting are to update and revise the 2001 set of CSD Sustainable Development Indicators (CSD-ISD), as appropriate, and to consider future action. For this purpose, the expert group should work within the adopted thematic framework and try not to exceed the size of the current CSD-ISD. The meeting will also seek commitment from lead agencies to provide updated and revised methodology sheets, if necessary.

10.30 – 11:15 a.m.

#### **Review of Indicators – Social Themes**

Brief introduction

Comments by countries and lead agencies

Discussion

The Division for Sustainable Development will prepare a preliminary list of CSD-ISD including revised methodology sheets, based on input received from lead agencies as well as on work done within the Division. The list will be made available to participants approximately two weeks before the meeting. In the theme-by-theme discussion, country representatives and agencies will be invited to share their experiences with these indicators and identify further gaps and limitations in the proposed set.

11:15 – 11:30 a.m. Break

11:30 a.m. – 1:00 p.m. **Review of Indicators – Social Themes (cont'd)** 

Brief introduction

Comments by countries and lead agencies

Discussion

1:00-2:30 p.m. Break for lunch

2:30 – 4:00 p.m. **Review of Indicators – Environmental Themes** 

Brief introduction

Comments by countries and lead agencies

Discussion

The format follows the review of indicators for social themes

4:00 – 4:30 p.m. Break

4:30 – 6:00 p.m. **Review of Indicators – Environmental Themes (cont'd)** 

Brief introduction

Comments by countries and lead agencies

Discussion

# Wednesday, 14 December 2005

10:00 – 11:30 a.m. **Review of Indicators – Economic Themes** 

Brief introduction

Comments by countries and lead agencies

Discussion

The format follows the review of indicators for social themes

11:30 – 11:45 p.m. Break

11:45 – 1:00 p.m. **Review of Indicators – Economic Themes (cont'd)** 

Brief introduction

Comments by countries and lead agencies

Discussion

1:00-2:30 p.m. Break for lunch

2:30 – 4:00 p.m. **Review of Indicators – Institutional Themes** 

Brief introduction

Comments by countries and lead agencies

Discussion

The format follows the review of indicators for social themes

4:00 - 4:30 p.m. Break

4:30 – 6:00 p.m. **Review of Indicators – Institutional Themes (cont'd)** 

Brief introduction by the Division for Sustainable Development

Comments by lead agencies

Discussion

# Thursday, 15 December 2005

10:00 – 11:15 a.m. **Indicators of Sustainable Development – Suitability of** 

**Frameworks** 

The Need for an International Framework for the Construction of National Indicators for Policies to Enhance Sustainable Development

Presentation by Thorvald Moe, Ph.D., Deputy Secretary General, Norwegian Ministry of Finance

The System of Economic and Environmental Accounting (SEEA) and Indicators of Sustainable Development

Presentation by Ivo Havinga, Chief, Economic Statistics Branch, United Nations Statistics Division

Open discussion

Participants are invited to express their views on the suitability of different frameworks for further developing Indicators of Sustainable Development.

11:15 – 11:30 a.m. Break

11:30 a.m. – 1:00 p.m. **Indicators of Sustainable Development – Future Areas of Work** 

Presentation by Prof. Bedrich Moldan, Charles University Environment Center

Presentation by Dr. Laszlo Pinter, Director, International Institute for Sustainable Development

Open discussion

Participants are invited to put forward proposals for future work in the area of Indicators of Sustainable Development.

1:00 – 2:30 p.m. Break for lunch

2.30-3.30 pm Summary of review and discussion

Introduction by Division for Sustainable Development

Discussion

The session will review the recommendations made throughout the previous sessions, assign responsibilities among lead agencies for

further work, and determine a timeframe

3.30 -4.00 p.m. **Concluding Comments** 

Ms. Mary Pat Silveira, Chief,

National Information, Monitoring and Outreach Branch, Division

for Sustainable Development

Annex 3: CSD Indicators and MDG Indicators

		SOCIAL		
Theme	Sub-theme	CSD Indicators	MDG Indicators	New Indicators
			Proportion of population below \$1 (1993 PPP) per day	
		Percent of Population Living Below Poverty Line	Poverty Headcount (Percentage of population living below poverty line)	
	Poverty		Poverty gap ratio [incidence x depth of poverty]	
		Gini Index of Income Inequality	Share of poorest quintile in national consumption	Share in national consumption by quintile*a
Equity		Unemployment Rate	Unemployment rate of young people aged 15-24 years, each sex and total	
				Employment-population ratio*b
				Employment structure <sup>c</sup>
			Ratio of girls to boys in primary, secondary and tertiary education	
			Ratio of literate women to men, 15-24 years old	
	Gender Equality	Ratio of Average Female Wage to Male Wage	Share of women in wage employment in the non-agricultural sector	
			Proportion of seats held by women in national parliament	
	Nutritional Status	Nutritional Status of Children	Prevalence of underweight children under five years of age	
			Proportion of population below minimum level of dietary energy consumption	
Health		Mortality Rate Under 5 Year Old	Under-five mortality rate	
	Mortality		Infant mortality rate	

 <sup>&</sup>lt;sup>a</sup> Proposed by DESA-DSD as an alternative to Gini Index.
 <sup>b</sup> Proposed by ILO as an alternative to Unemployment Rate.
 <sup>c</sup> Proposed by ILO as an additional indicator.

			Maternal mortality ratio	
		Life Expectancy at Birth		
	Sanitation	Percent of Population with Adequate Sewage Disposal Facilities	Proportion of population with access to improved sanitation, urban and rural	
	<b>Drinking Water</b>	Population with Access to Safe Drinking Water	Proportion of population with sustainable access to an improved water source, urban and rural	
		Percent of Population with Access to Primary Health Care Facilities		
		Immunization Against Infectious Childhood Diseases	Proportion of 1 year-old children immunized against measles	
			Proportion of births attended by skilled health personnel	
Health			Condom use at last high-risk sex	
	Health Care Delivery		Percentage of population aged 15-24 years with comprehensive correct knowledge of HIV/AIDS	
		Contraceptive Prevalence Rate	Contraceptive prevalence rate	
		_	Condom use rate of the contraceptive prevalence rate	
				Proportion of desire for family planning satisfied <sup>d</sup>
				Total fertility rate <sup>d</sup>
			Proportion of population in malaria- risk areas using effective malaria prevention and treatment measures	
	No CSD-ISD sub- theme applicable		Proportion of tuberculosis cases detected and cured under DOTS (internationally recommended TB	
			control strategy) HIV prevalence among pregnant women aged 15-24 years	

<sup>&</sup>lt;sup>d</sup> Proposed by WHO as additional indicator.

Health	No CSD-ISD sub- theme applicable		Ratio of school attendance of orphans to school attendance of non-orphans aged 10-14 years  Prevalence and death rates associated with malaria  Prevalence and death rates associated with tuberculosis	Proportion of population using
				solid fuels e
			Net enrolment ratio in primary education	
Education	Education level	Children Reaching Grade 5 of Primary Education	Proportion of pupils starting grade 1 who reach grade 5	
			Primary Completion Rate	
		Adult Secondary Education Attainment Level		
	Literacy	Adult Literacy Rate	Literacy rate of 15-24 year-olds	
Housing	Living Conditions	Floor area by person	Proportion of households with access to secure tenure	
Security	Crime	Number of Recorded Crimes per 100,00 Population		Number of intentional homicides per 100,000 population*f
		Population of Urban Formal and Informal Settlements		
Population	Population Change	Population Growth Rate		Population growth in rural and urban areas g
				Dependency ratio <sup>h</sup>

Proposed by WHO as an additional indicator.
 Proposed by UNODC as an alternative to Number of recorded Crimes.
 Proposed by CIESIN as an additional indicator.
 Proposed by DESA-DSD as an additional indicator

		ENVIRONMENTAL		
Theme	Sub-theme	CSD Indicators	MD Indicator	New Indicators
	Climate Change	Emissions of Greenhouse Gases	Carbon dioxide emissions per capita and consumption of ozone-depleting CFCs (ODP tons)	
Atmosphere	Ozone Layer Depletion	Consumption of Ozone Depleting Substances	Carbon dioxide emissions per capita and consumption of ozone-depleting CFCs (ODP tons)	
Atmosphere	Air Quality	Ambient Concentration of Air Pollutants in Urban Areas		
Land	Agriculture	Arable and Permanent Crop Land Area Use of Fertilizer Use of Agricultural Pesticides		
	Forests	Forest Area as a Percent of Land Area Wood Harvesting Intensity	Proportion of land area covered by forest	
				Forest governance i
	Desertification	Land Affected by Desertification		
	Urbanization	Area of Urban Formal and Informal Settlements		
	Coastal Zone	Algae Concentration in Coastal Waters		
Oceans, Seas and Coasts		Percentage of Total Population Living in Coastal Areas		
	Fisheries	Annual Catch by Major Species		
	Marine environment <sup>1</sup>			
	Water Quantity	Annual Withdrawal of Ground and Surface as Percent of Total Available Water		
Fresh Water	Water Quality	BOD in Water Bodies Concentration of Faecal Coliform in Freshwater		

		Protected Area as a Percent of Total Area	Ratio of area protected to maintain biological diversity to surface area	
Biodiversity	Ecosystem	Alea	biological diversity to surface area	Effectiveness of management of protected areas <sup>1</sup> Coverage of protected areas by
				biome and habitat <sup>i</sup>
		Area of Selected Key Ecosystems		Percentage of selected ecosystem under sustainable management programmes i
Biodiversity	Species	Abundance of Selected Key Species		
	_			Assessment of threatened species i
		ECONOMIC		
Theme	Sub-theme	CSD Indicators	MD Indicators	New Indicators
	Economic performance	GDP per Capita Investment Share in GDP		
	Tourism <sup>1</sup>			Inflation k
	1 ourism ·	Balance of Trade in Goods and Services		Current account deficit as percentage of GDP * n
			Proportion of total developed country imports (by value and excluding arms) from developing countries and from LDCs, admitted free of duty	Share of imports from developing countries and from LDCs <sup>k</sup>
Economic Structure	Trade		Average tariffs imposed by developed countries on agricultural products and textiles and clothing from developing countries	

<sup>&</sup>lt;sup>1</sup> Proposed by IUCN as an additional indicator.

<sup>k</sup> Proposed by DESA-DSD as an additional indicator.

<sup>1</sup> Proposed by DESA-SD as an additional sub-theme.

<sup>n</sup> Proposed by DESA-DSD as an alternative to trade balance.

Structure	Financial Status		exports of goods and services  Total number of countries that have	
Economic		Debt to GNP ratio	developing States as proportion of their GNIs  Debt service as a percentage of	
			of their GNIs ODA received in small island	
			developing countries as a proportion	
			OECD/DAC donors that is untied ODA received in landlocked	
			Proportion of bilateral ODA of	
			education, primary health care, nutrition, safe water and sanitation)	
			donors to basic social services (basic	
			allocable ODA of OECD/DAC	
	Financial Status		gross national income (GNI)  Proportion of total bilateral, sector-	
		received as a percentage of GNP	Assistance Committee (DAC) donors'	
		Assistance (ODA) given or	percentage of OECD/Development	
		Total Official Development	Net ODA, total and to LDCs, as	
			build trade capacity	
			their GDP Proportion of ODA provided to help	
			OECD countries as percentage of	
			Agricultural support estimate for	

 $<sup>^{\</sup>rm o}$  Proposed by DESA-DSD as an additional indicator.

				Remittances as percentage of GNI °
	Material Consumption	Intensity of Material Use		
		Annual Energy Consumption per Capita		
	Energy Use	Share of Consumption of Renewable Energy Sources		
Consumption and Production Patterns		Intensity of Energy Use	Energy use (kg oil equivalent) per \$1 GDP (PPP)	
			Proportion of population using solid fuels	Share of households without access to electricity or commercial energy
	No CSD-ISD sub- theme applicable			Land area dedicated to sustainable bioenergy production <sup>p</sup>
		Generation of Industrial and Municipal Solid Waste		
	Waste Generation and Management	Generation of Hazardous Waste		
Consumption and Production Patterns		Management of Radioactive Waste		Ratio of solid radioactive waste awaiting disposal to total solid radioactive waste generated <sup>q</sup>
		Waste Recycling and Reuse		
	Transportation	Distance Travelled per Capita by Mode of Transport		

Proposed by FAO as an additional indicator
 Proposed by UNSD as an alternative to Management of Radioactive Waste

		INSTITUTIONAL		
Theme	Sub-theme	CSD Indicators	MD Indicator	New Indicators
Institutional	Strategic	National Sustainable Development		
Framework	Implementation	Strategy		
	of SD			
	International	Implementation of Ratified Global		
	Cooperation	Agreements		
	Information	Number of Internet Subscribers per	Personal computers in use per 100	
	Access	1000 Inhabitants	population and Internet users per 100	
			population	
Institutional	Communication	Main Telephone Lines per 1000	Telephone lines and cellular	
Capacity	Infrastructure	Inhabitants	subscribers per 100 population	
	Science and	Expenditure on R&D as a Percent		
	Technology	of GDP		
	Disaster	Economic and Human Loss Due to		
	Preparedness and	Natural Disasters		
	Response			
	Vulnerability to			Percentage of population living in
	Natural Hazards			disaster prone areas <sup>r</sup>
	Good governance s			

<sup>&</sup>lt;sup>r</sup> Proposed by UNISDR as an additional indicator. <sup>s</sup> Proposed by Eurostat as an additional sub-theme

Annex 4: Interim List of Revised CSD Indicators

Theme	Sub-theme	Core Indicators	Additional/ Secondary Indicators	To be developed / Tertiary Indicator
		Percent of Population Living Below National Poverty Line	Proportion of population below \$1 (1993 PPP) per day	
	Poverty	Share in national income by quintile (Alternative Ratio of share in national income of highest to lowest quintile)		
Equity		Employment rate, disaggregated by sex		
		Employment Status, by sex (Share of unpaid family workers in total employed persons)		
	Gender Equality	Ratio of Average Female Wage to Male Wage		
	Nutritional Status	Nutritional Status of Children (Percentage of underweight and obese (or overweight) children)		
Health	Mortality	Mortality Rate Under 5 Year Old		
		Life expectancy at Birth	Healthy life years	
	Sanitation	Proportion of population with access to improved sanitation, urban and rural	Breakdown by OECD treatment category, and/or by urban and rural	
	<b>Drinking Water</b>	Population with Access to Safe Drinking Water		
		Percent of Population with Access to Primary Health Care Facilities		
	Health Care Delivery	Immunization Against Infectious Childhood Diseases		
		Contraceptive Prevalence Rate		
	Health Care Delivery	Total fertility rate		

Health			Tobacco use indicator (E.g., smoking prevalence)	
	No CSD-ISD sub- theme applicable		Prevalence of mental health problems (E.g., suicide rates as proxy)	
		Gross intake into last year of primary education, by sex		
			Net enrolment rate in primary education	
Education	Education level	Adult Education Attainment Level (Secondary and/or tertiary), by sex		
			Life long learning (Proportion of working age population receiving learning or training)	
	Literacy	Adult Literacy Rate, by sex		
Housing	<b>Living Conditions</b>	Proportion of population living in slums		Indicator on quality of housing indicator
	Access to energy	Share of households without access to electricity or commercial energy		
Security	Crime	J		Number of recorded serious crimes per 100,000 population (Serious crimes to be defined)
				Indicator on Corruption
Population	Population Change	Population Growth Rate, rural and urban		
		Dependency Ratio		
	Climate Change	Emissions of Greenhouse Gases	Emission by sector, according to internationally standardized sector classification	
Atmosphere	Ozone Layer Depletion	Consumption of Ozone Depleting Substances		
	Air Quality	Ambient Concentration of Air Pollutants in Urban Areas		
				Indicator on Persistent Organic Pollutants (POPs)

		Arable and Permanent Crop Land		
		Area (Part of land use indicator)		
	A	Land degradation	TI CE III	
	Agriculture		Use of Fertilizer	
			Use of Agricultural Pesticides	
Land			Organic farming as percentage of	
		The state of the s	total farming	
		Forest Area as a Percent of Land	Forest Area as a Percent of Land	
		Area (Part of land use indicator)	Area, by type of forest (Primary,	
	T		plantations,)	
	Forests		Percent of forests damaged by defoliation	
			Wood Harvesting Intensity	
				Forest governance
	Desertification	Land affected by desertification		
		(Land degradation in arid, semi-		
		arid and dry sub-humid areas)		
	Coastal Zone	Algae Concentration in Coastal		
		Waters		
Oceans, Seas			Percentage of total population living	
and Coasts			in coastal areas	
				Coastal pollution
	Fisheries	Fish catch outside safe biological		
		limits		
	Marine environment			Coral reefs
				Marine trophic index
	Water Quantity	Annual Withdrawal of Ground		1
		and Surface as Percent of Total		
		Available Water		
Fresh Water	Water Quality	BOD in Water Bodies		
		Concentration of Faecal Coliform		
		in Freshwater		
			Metal contamination of Fresh Water	

	Ecosystem	Coverage of protected areas by biome and habitat		
				Management effectiveness of protected areas
			Area of Selected Key Ecosystems	
				Fragmentation of habitat
Biodiversity	Species	Abundance of Selected Key Species		
			Farmland and woodland birds	
			Butterflies	
			Assessment of threatened species	
		GDP per Capita		
			Investment Share in GDP	
		Net Savings Rate (alternative: Genuine Savings Rate)		
	Economic performance	Labor productivity		
	-		Unit labor costs	
		R&D Expenditure as percentage of GDP		
		Inflation		
	Tourism			Tourism indicators
		Current account deficit as percentage of GDP		
Economic Structure	Trade	Share of imports from developing countries and from LDCs		
		Total Official Development Assistance (ODA) given or		
		received as a percentage of GNI		
	Financial Status	Debt to GNI ratio		
				Net FDI inflows and outflows as percentage of GNI
				Remittances as percentage of GNI

	Material Consumption	Intensity of Material Use	Intensity of Material Use by sector, based on standard classification	
			Annual Material Use per Capita	
	Energy Use	Annual Energy Consumption per Capita	Annual Energy Consumption by type of source (renewable, bio-fuels, fossil fuels,)	
		Intensity of Energy Use		
		Generation of Waste	Generation of Waste by industry/sector (based on standard classification)	
	Waste Generation and Management	Generation of Hazardous Waste		Management of Hazardous Waste
		Management of Radioactive Waste		
Consumption and Production Patterns		Waste Treatment and Disposal by method of treatment (recycled, incinerated, landfilled)		
1 atterns		Share of cars in passenger transportation		
	Transportation		Road share of freight transport	
			Fuel use by distance of passenger transportation	
	Information Access	Internet users per 100 population		
Institutional Capacity	Communication Infrastructure		Fixed Telephone lines and cellular subscribers per 100 population	
	Disaster Preparedness and Response		Economic and Human Loss Due to Natural Disasters, as percentage of population and of GDP	
	Vulnerability to Natural Hazards	Percentage of population living in disaster prone areas, by type of natural disaster		
				Governance indicators