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Green Industry for Inclusive and Sustainable Industrial Development

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UNIDO
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UNIDO

- Specialized intergovernmental organization that supports industrialization in developing and emerging economies
 - Foster specifically those forms of industrialization that benefit all in society and respect environment and planetary boundaries



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Inclusive and Sustainable Industrial Development





Creating shared prosperity
Safeguarding the environment



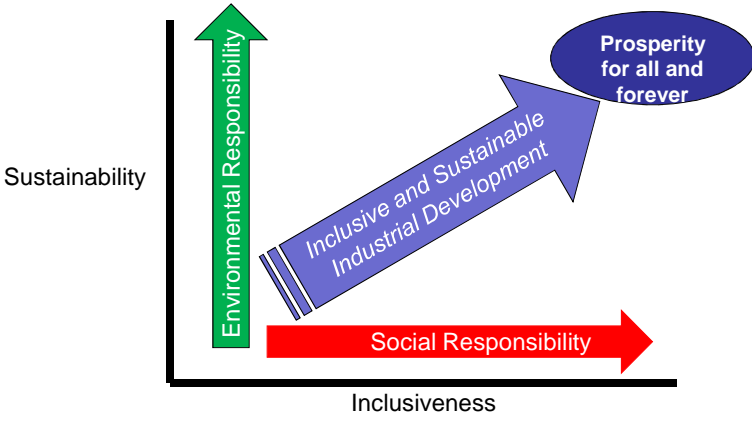
Lima Declaration, 2nd Dec 2013

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Inclusive and Sustainable Industrial Development



Environmental Responsibility

Sustainability

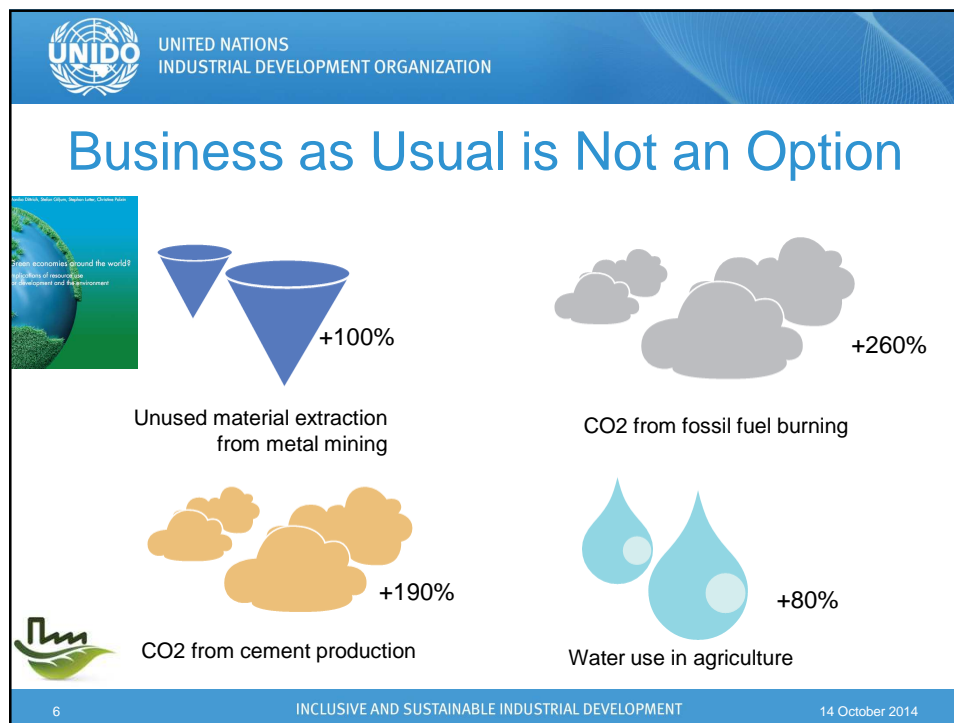
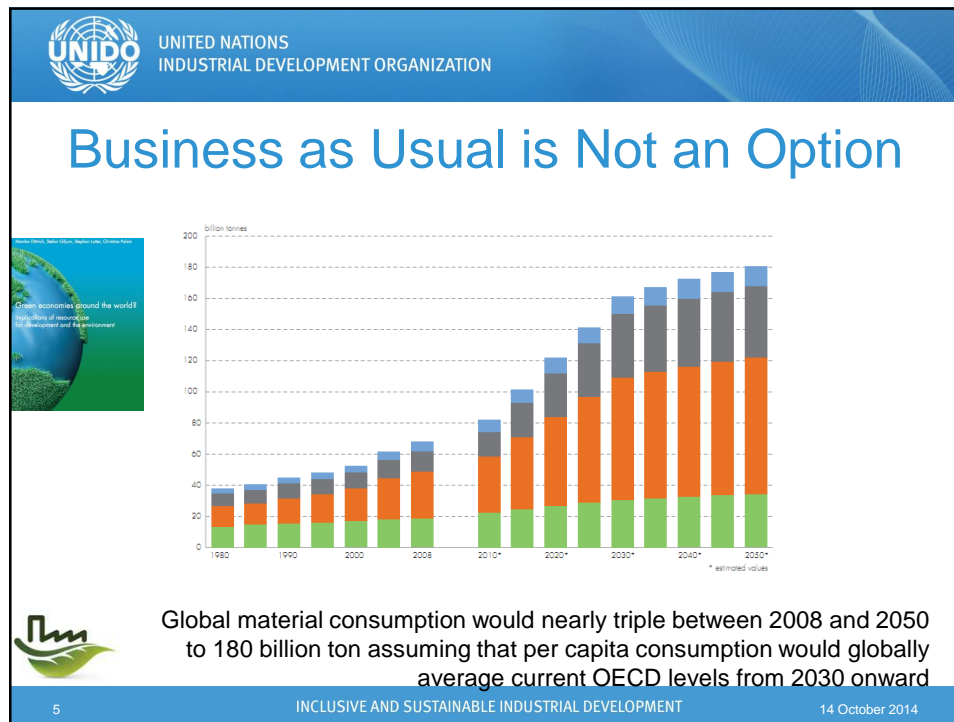
Inclusiveness

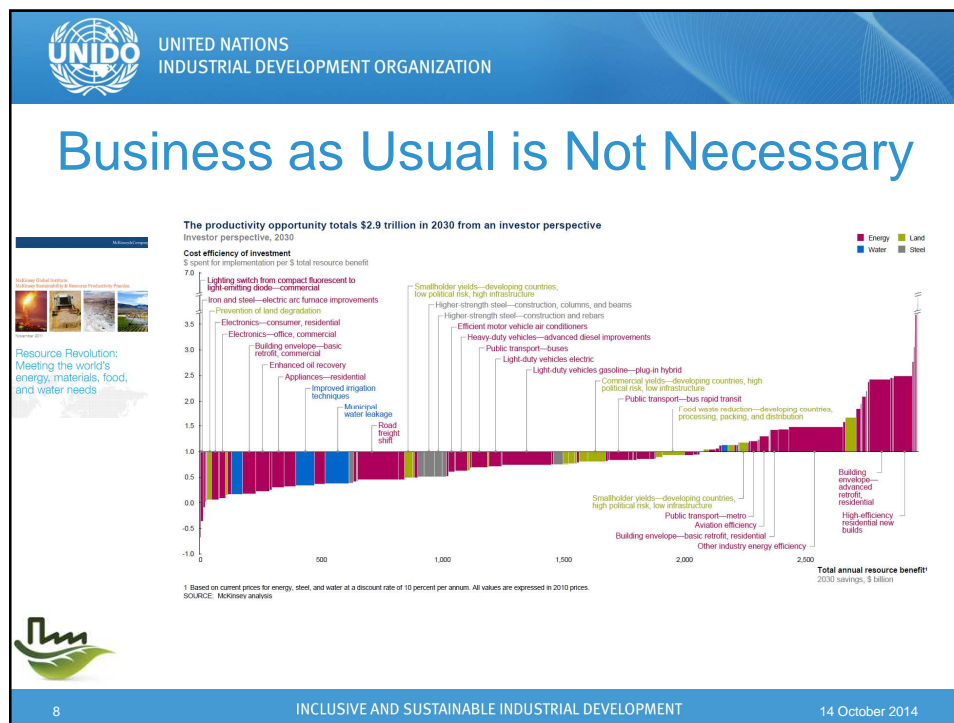
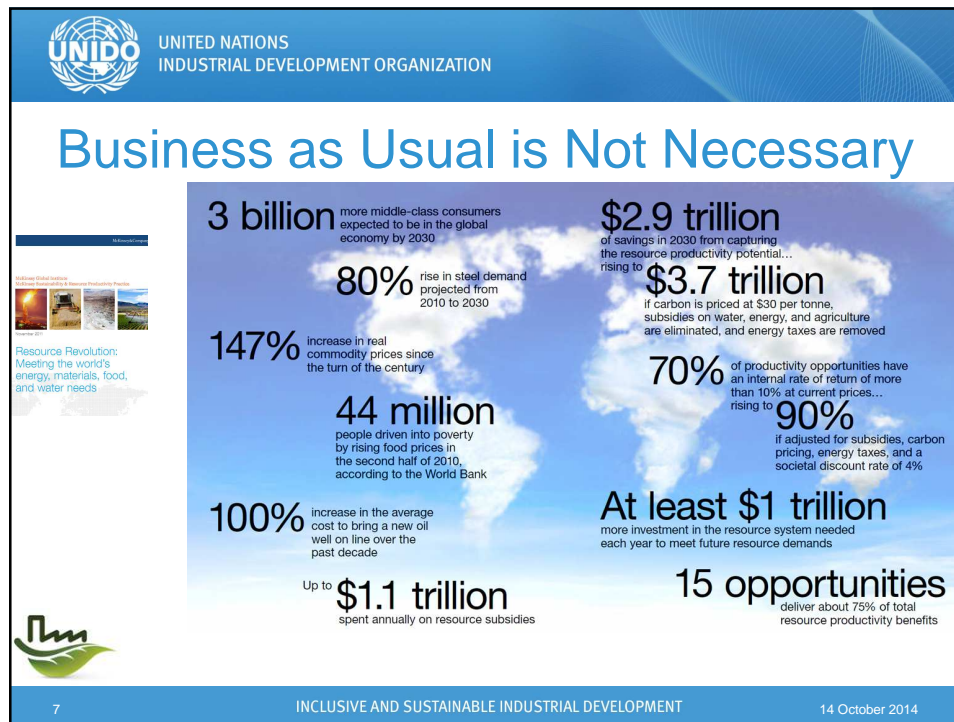
Social Responsibility

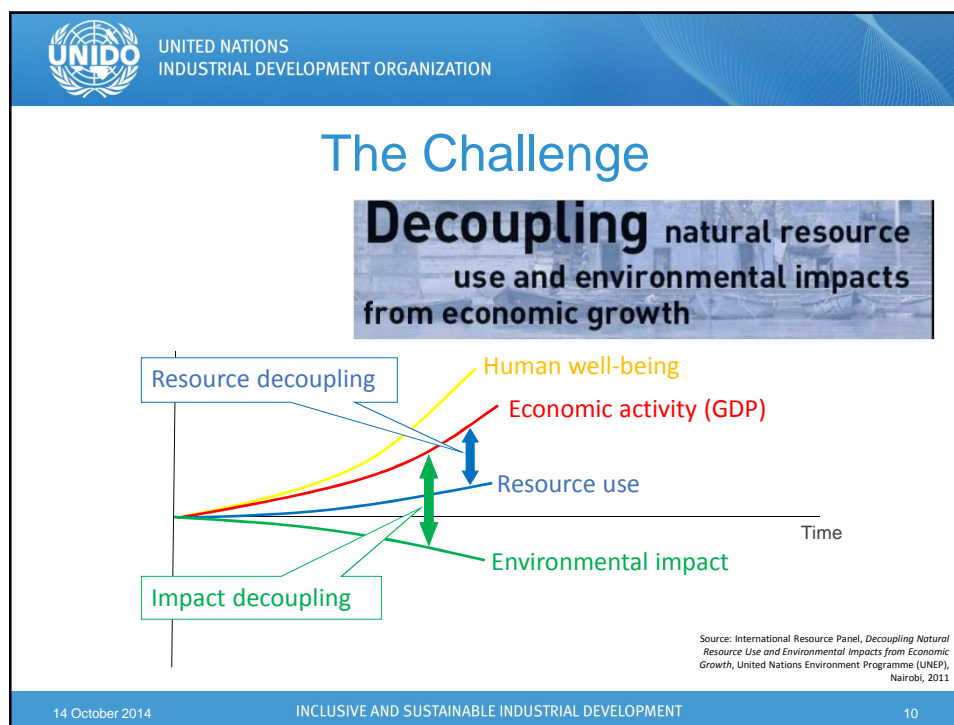
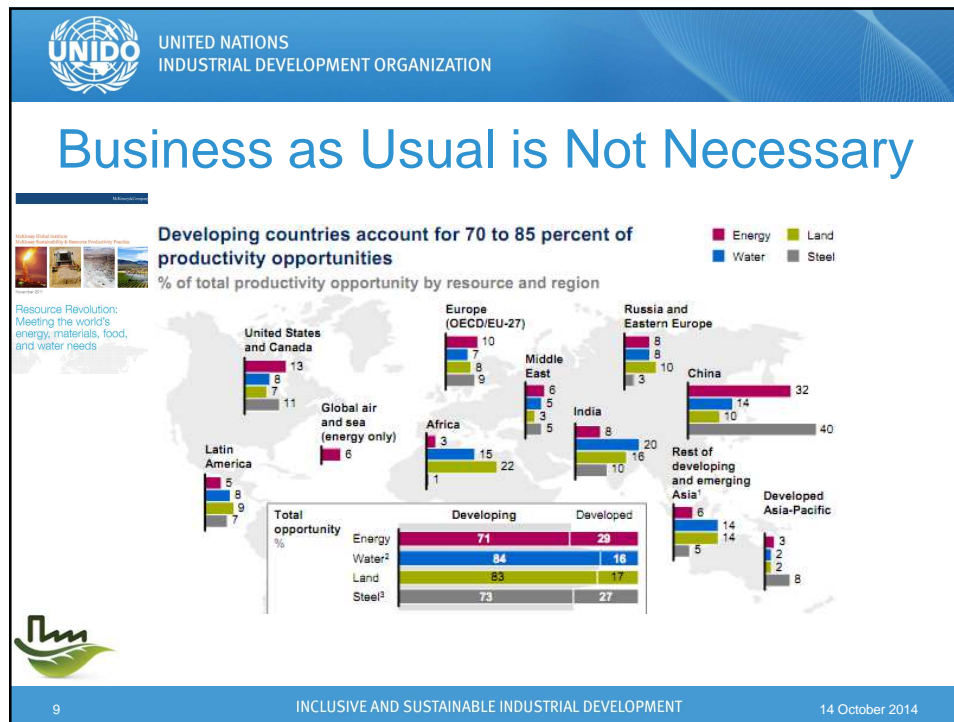
Prosperity for all and forever

Inclusive and Sustainable Industrial Development

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Green Growth and Economy

Green Economy

An approach for achieving sustainable development by (1) reducing emissions and pollution and increasing resource efficiency and (2) improving access to energy, food, water, sanitation and other services (UN-EMG)

Green Growth

Fostering economic growth and development while ensuring that natural assets continue to provide the resources and environmental services on which our well-being relies (OECD)

Green Growth and Economy require investment and innovation, which are driven by business

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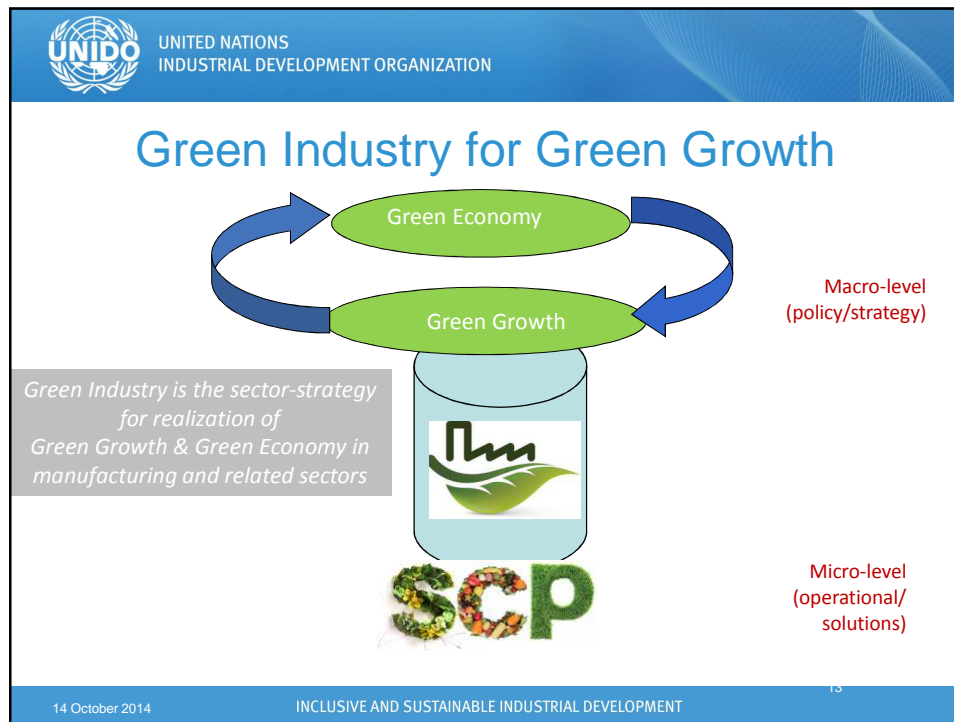
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Sustainable Consumption and Production

- “The use of services and related products, which respond to basic needs and bring a better quality of life while minimising the use of natural resources and toxic materials as well as the emissions of waste and pollutants over the life cycle of the service or product so as not to jeopardize the needs of future generations”.

SCP


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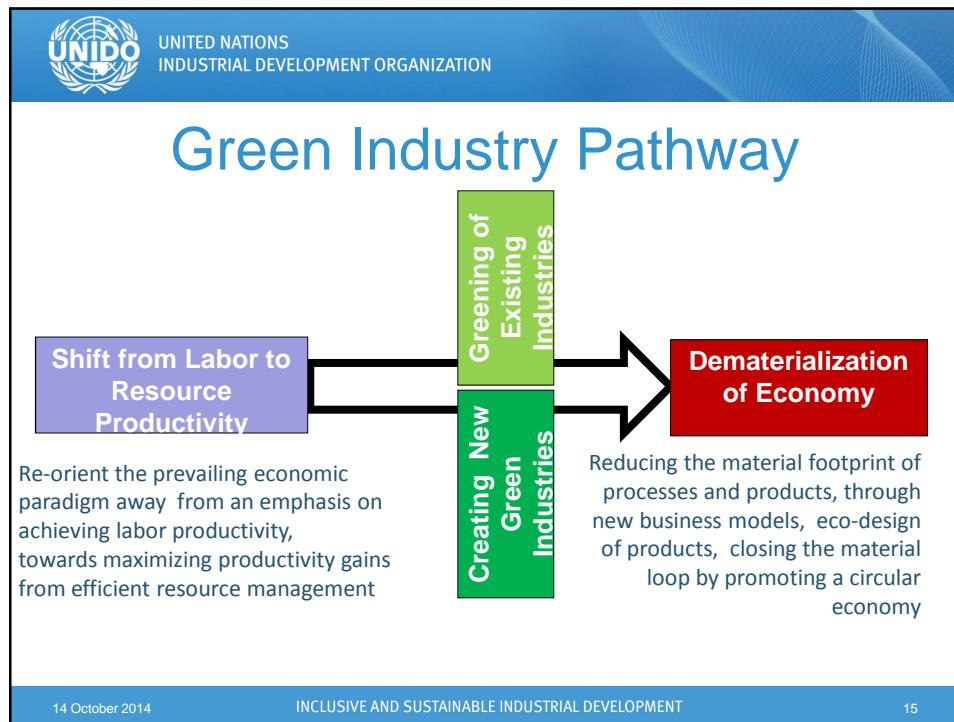
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Green Industry

Greening Existing Industry <i>Improve the environmental performance of existing industries</i>	Creating New Green Industries <i>Support creation of industries delivering environmental goods and services</i>
<ul style="list-style-type: none"> ▪ Efficient use of materials, energy and water ▪ Reduction of wastes and emissions ▪ Safe management of chemicals ▪ Phasing out toxic substances ▪ Switching to renewable energy sources ▪ Product and process redesign ▪ etc... 	<ul style="list-style-type: none"> ▪ Reduce, reuse and recycle (3R) industries ▪ Pollution control technology and equipment ▪ Renewable and energy-efficient technologies ▪ Waste management and resource recovery ▪ Environmental advisory and analytical services ▪ etc...

 The Green Industry Initiative is fully in line with the 2012 United Nations Conference on Sustainable Development (Rio+20) outcome document 

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Green Industry = Development Priority

- Triple bottom line development impact
 1. Income and employment creation
 2. Competitive and sustainable business
 3. Innovative and value-adding products
 4. Natural resource security
 5. Mitigation and adaptation to climate change
 6. Environmental management
 7. Industrial and chemical safety

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Green Industry Platform





- High-level, multi-stakeholder, transformative partnership framework
- Businesses, governments, international and civil society organizations have joined by signing the “Statement of Support”
- Scales up and mainstreams Green Industry throughout global industry
 - Reduces** the negative environmental impact of manufacturing
 - Increases** social and economic benefits

Only comprehensive, targeted and practical sector-based strategy

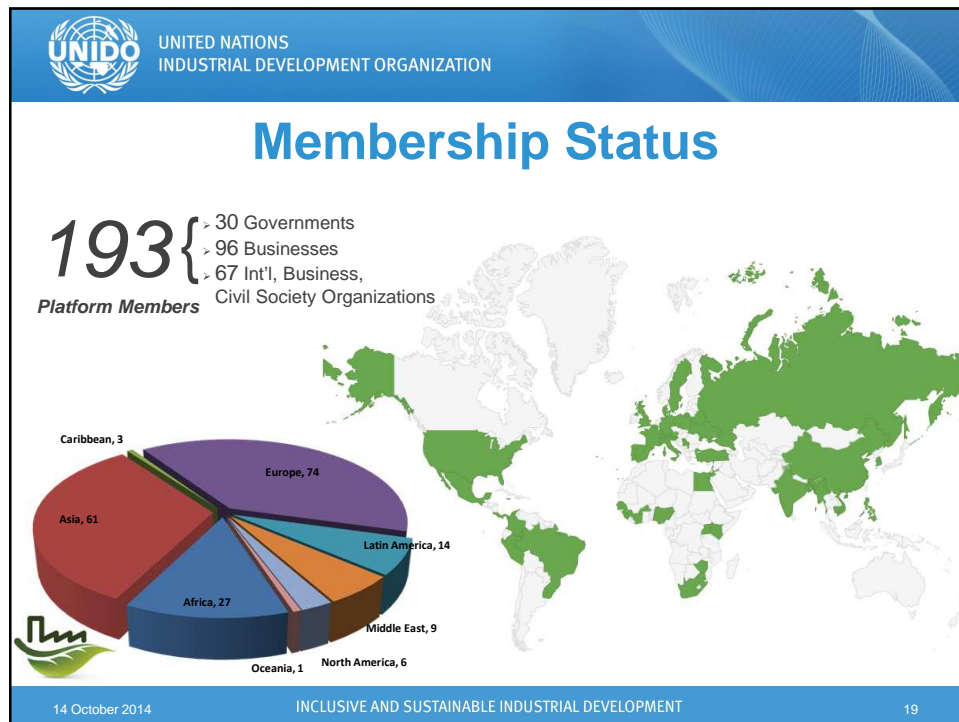
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Platform Functions

Awareness Raising	<ul style="list-style-type: none"> Profiles Green Industry objectives through events, engagement, actions at the enterprise, national and regional level
Convening	<ul style="list-style-type: none"> Brings together members to discuss specific themes, approaches and issues Connects members to third parties on areas of mutual interest
Networking and Information Sharing	<ul style="list-style-type: none"> Shares contact information between signatories Provides a web portal to exchange information amongst signatories Provides one-stop advisory services for signatories seeking specific information Provides an introductory and mediating role
Partnering	<ul style="list-style-type: none"> Provides a framework for members to explore possible partnerships between different sectors and stakeholder groups Identifies and encourages synergies and partnerships between members Identifies possible partnerships with non-members such as in the supply chain context
Researching	<ul style="list-style-type: none"> Identifies strengths and weaknesses of current Green Industry approaches and commissions research on relevant topics
Promotional	<ul style="list-style-type: none"> Provides a framework in which members' actions in pursuance of Green Industrial policies and practices can be made public and promoted

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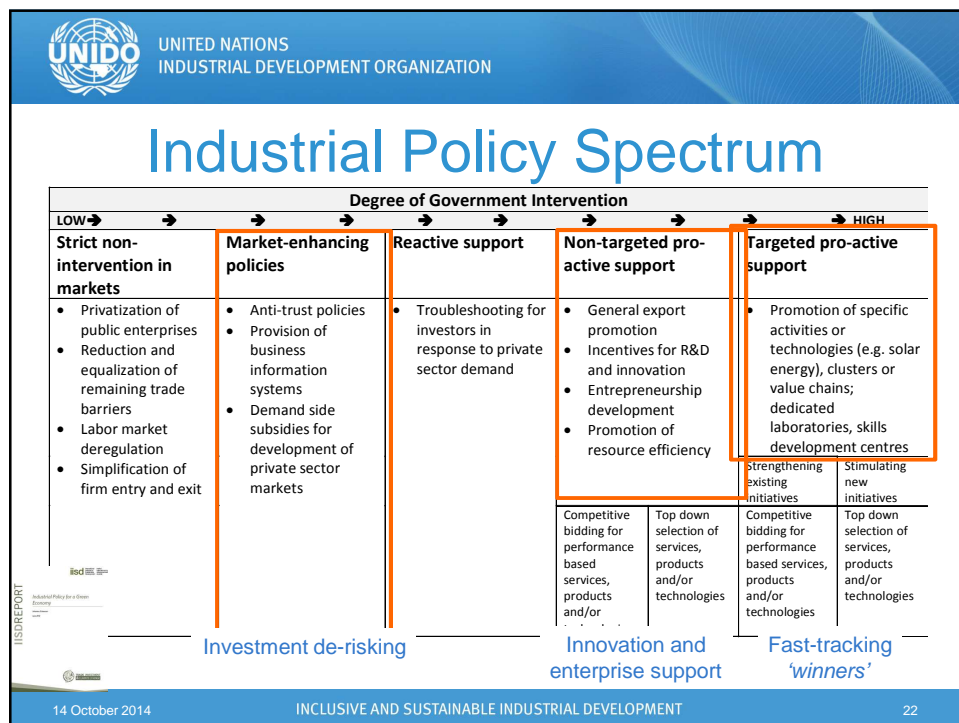
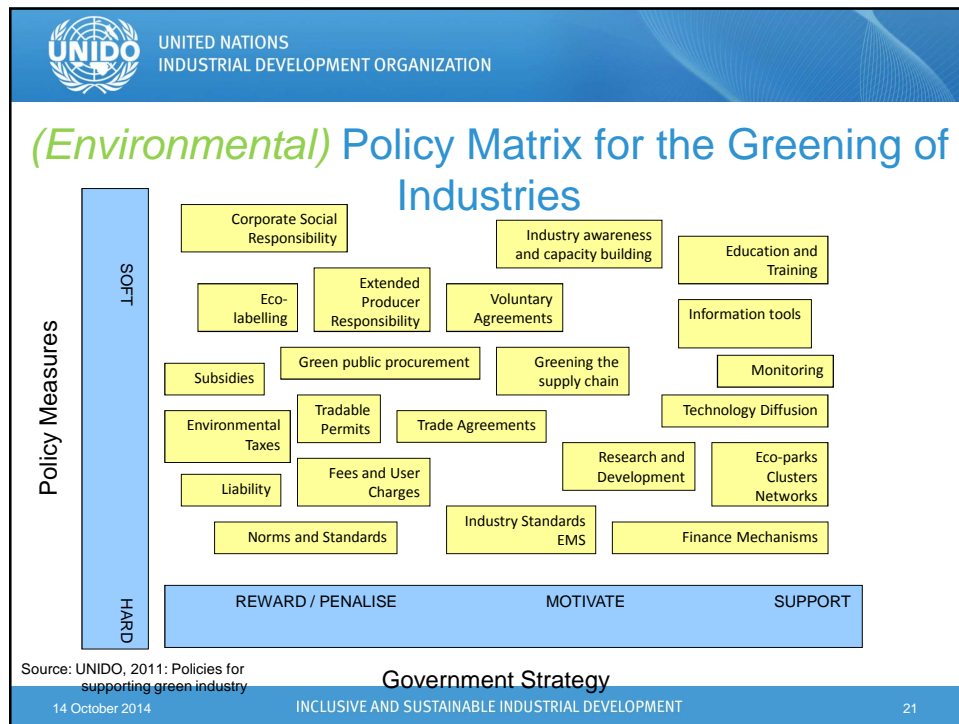


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Policy Framework for Greening of Industries

- Policy options and practice measures:
 - An integrated framework to support greening of industries
 - Creating an enabling environment
 - Industry-led initiatives
 - Harnessing environmental technologies
 - Instrument mixes to promote the greening of industries

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Mainstreaming Green Growth in Development Policy



Putting Green Growth at the Heart of Development
Summary for Policymakers

LEAD, SET THE VISION & PLAN FOR GREEN GROWTH

- Leadership and communication around a common vision
- Integrating green growth objectives into plans and budgets, e.g. national development plans, infrastructure plans, regional plans and budgets

DESIGN, REFORM AND IMPLEMENT POLICIES FOR GREEN GROWTH

- Fiscal and pricing instruments that value natural assets
- Regulations, standards and information
- Supportive and enabling sectoral policies


GOVERN, DEVELOP CAPACITY & RESOURCES, LEARN

- Multilevel governance among institutions and stakeholders
- Capacity development and institutional reform
- Monitoring and evaluation, assessment and reform
- Education policy, information and awareness raising

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Valuing Natural Assets

Policy Tools	Green Growth Contribution	Lessons Learned
Taxes, pricing instruments and mechanism that value natural assets		
Energy subsidy reform	Aims to achieve right price for energy and higher energy price results in energy conservation and GHG mitigation	<ul style="list-style-type: none"> • Research and stakeholder consultations are key • Coherent reform strategy with clear objectives needs to be accompanied by flanking measure to compensate disadvantaged groups • Public expenditure freed up from energy subsidies should be used to finance other public priorities • Reform needs to fit implementation capacity
Reform of environmental taxes and fees	Environmental fiscal measures can raise revenue while furthering environmental goals. They can free up resources and generate revenue that can help finance the poor's access to water, sanitation and energy	<ul style="list-style-type: none"> • Map out and engage both winners and losers of reforms • Allocate some of the revenues to monitoring and enforcement and facilitating compliance investments • Match instruments to implementation capacity • Build the capacity and credibility of implementing agencies
Payment for ecosystem services	Increase efficiency of natural resources management by putting a price or value on provision of ecosystem goods and services. This encourages the conservation and even enhancement of natural assets while contributing to local livelihoods and increasing incomes of those who manage the natural resources	<ul style="list-style-type: none"> • Clearly identify ecosystem service providers and differentiate payments by levels of environmental services provision • Customize design to tackle high transaction costs for small-scale providers and to protect those providers with limited bargaining power • Develop and improve ecosystem management capacities and practices

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Enabling and Recognizing Performance

Policy Tools	Green Growth Contribution	Lessons Learned
Regulations, standards and information policies		
Standards and certification of sustainable production	Certified goods and services can increase in market value and market share. This benefits producers, improves environmental practices and maintains long term sustainability of natural assets	<ul style="list-style-type: none"> • Certification schemes should address local conditions • Ensure small business and landholders access to certification as well as use by producers in informal economy • Foster demand for certified products while retaining rigour in standards and assessment
Sustainable public procurement	Can shape consumption and production to support green growth objectives, generate new domestic markets and provide good practice examples for business and consumers	<ul style="list-style-type: none"> • Link procurement to life cycle costs and benefits • Prioritize high impact goods and services • Include procurement staff, lawyers and environmentalists • Start with pilots that have built in incentives • Provide advance information to suppliers
Land tenure	Land tenure secures income generating opportunities for land-holders, improves management of natural assets and supports tax collection, each of which allows government to support sound land management practices and planning	<ul style="list-style-type: none"> • Secure right land rights to the right people • Set up technical and institutional infrastructure for land tenure administration • Understand local context and involve non government actors

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Green Industry Flagship:

Resource Efficient and Cleaner Production

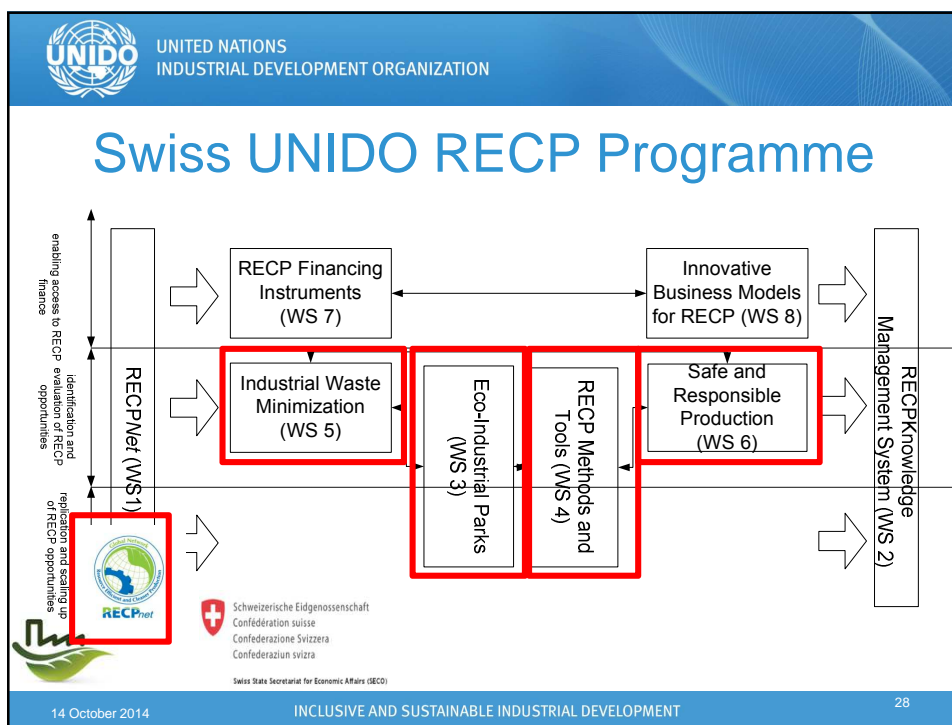
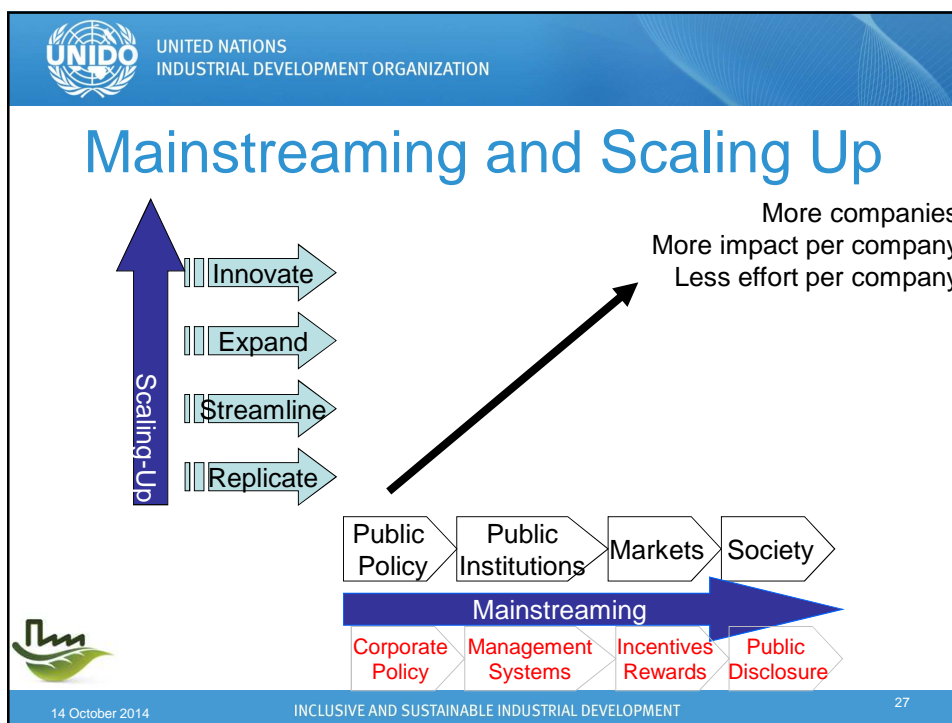
– Continuous application of preventive environmental strategies to processes, products and services to increase efficiency and reduce risks to humans and the environment

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graph TD
    PE([Production Efficiency]) <--> EM([Environmental Management])
    PE <--> RECP((Resource Efficient and Cleaner Production))
    EM <--> RECP
    RECP <--> HD([Human Development])
    HD <--> PE
    HD <--> EM
  
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RECP= REC*i*Pe www.unido.org/cp

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RECPnet in Brief

- RECPnet operates as a global networking initiative that brings together organizations that are professionally involved in and committed to the promotion of Resource Efficient and Cleaner Production (RECP) in developing and transition countries
 - Key functions
 - Innovation and knowledge management
 - Capacity building
 - Advocacy
 - Quality assurance and branding
 - RECPnet has regular, associate and observer members
 - RECPnet operates under the patronage of the global joint UNIDO UNEP RECP Programme

68 members globally of which 18 in Eastern Europe, Caucasus and Central Asia region

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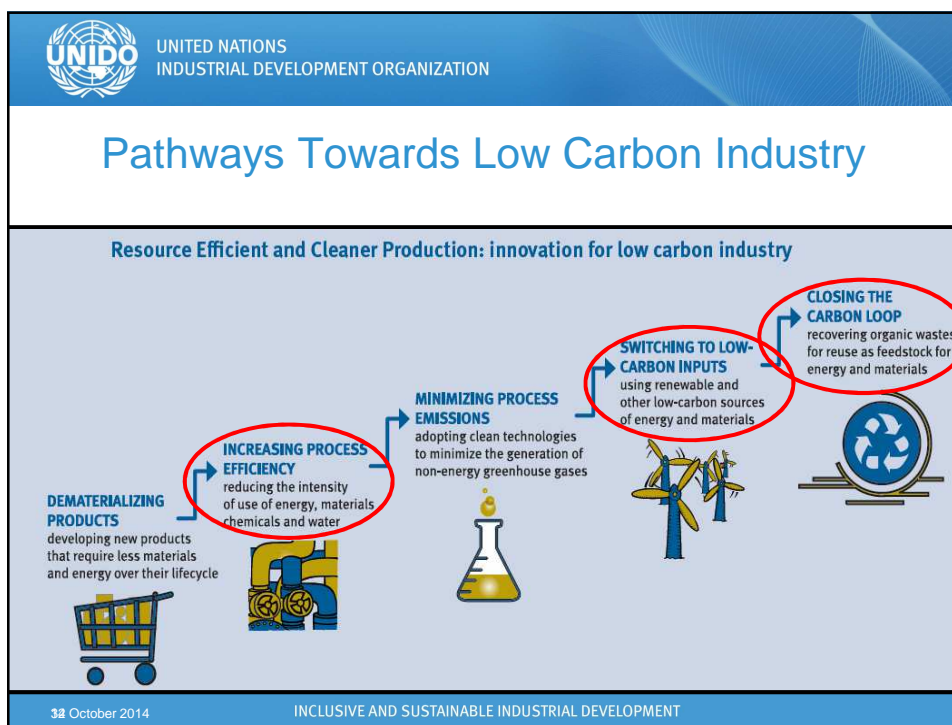
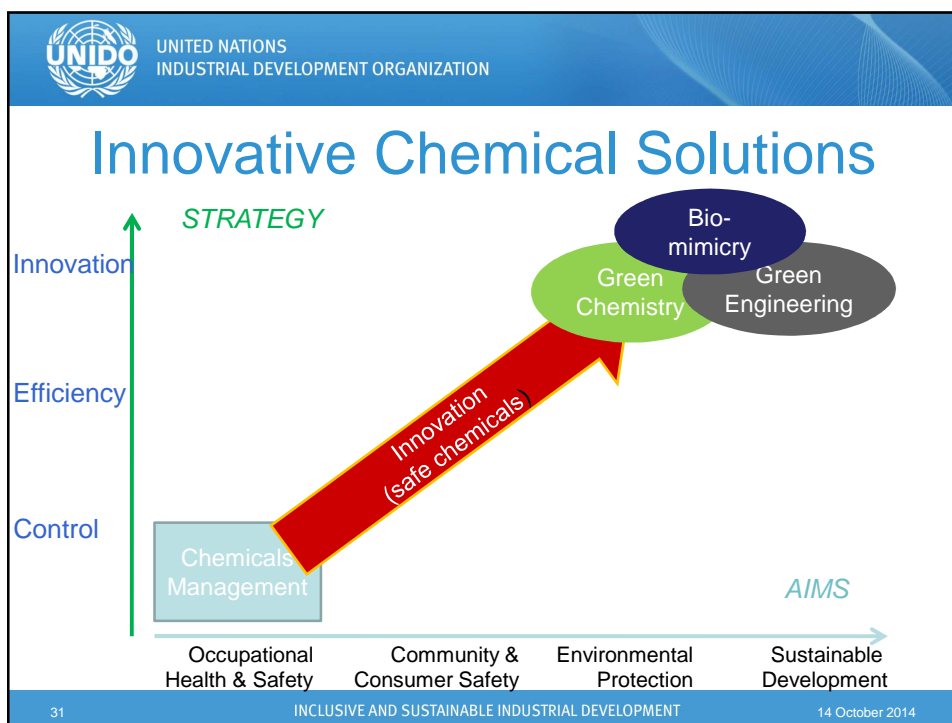
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Work in Progress

Eco-Industrial Parks


68 members globally of which 18 in Eastern Europe, Caucasus and Central Asia region

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Methods and Tools



- Preparation**
 - Motivation, commitment & team
 - RECP Profile
- Initial Assessment**
 - Process flow chart & eco-map
 - Walk through audit
- Detailed Assessment**
 - Analysis of M&E balances
 - Option Generation
- Feasibility Studies**
 - Technical Evaluation
 - Economic Evaluation
- Implementation**
 - Project implementation & investment
 - Ongoing monitoring & evaluation



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In Closing

- Industrial resource efficiency is imperative from environment and business perspectives
 - **Green Industry is the industry sector strategy towards green economy and growth**
 - Foresees scaling up and mainstreaming of established Sustainable Consumption and Production practices
 - Enables transition towards Inclusive and Sustainable Industrial Development



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More Information

www.unido.org/greenindustry
www.greenindustryplatform.org
www.recnet.org

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Thank You

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