



Green Jobs: What they are and how we promote them

TARAgam YATRA 2010

Orcha, MP, 19 September 2010

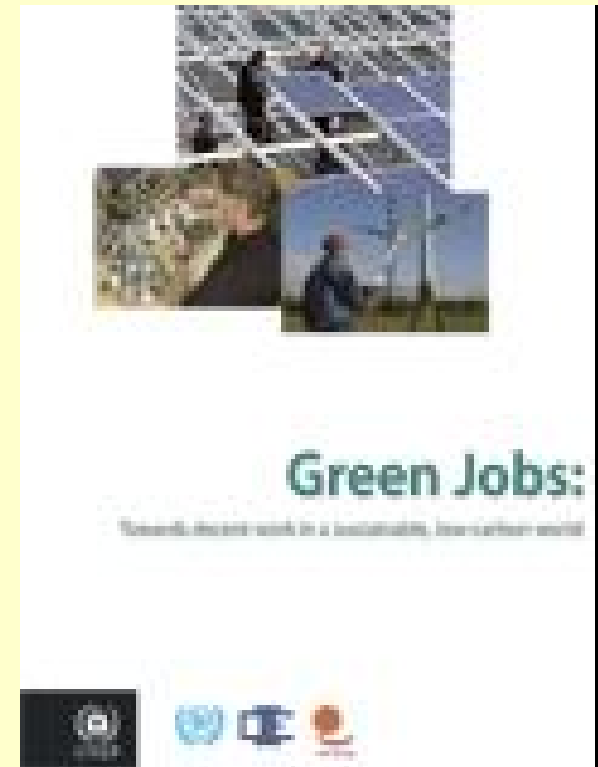
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Green Jobs Initiative Green Jobs Report

The partners:





Green Jobs: Meeting challenges of 21st century

- **Achieving economic and social development and environmental sustainability**
 - **Environmental:** climate-related disasters (262 mill), water shortages (1.8 mill), environmental refugees (50 mill), displacement by flooding (330 mill), food shortages (180 mill now+600 mill 2080), loss of biodiversity
 - **Social/decent work:** working poor (1.3 bill), unemployed (190 mill), young job seekers (500 mill), no access to social security (5.3 bill), food, shelter (1 bill), energy (1.6 bill)



Green jobs

- ✓ Reduce consumption of energy and raw materials (**dematerialize economies**)
- ✓ Avoid greenhouse gas emissions (**decarbonize economies**)
- ✓ **Minimize waste and pollution**
- ✓ **Protect and restore ecosystems and environmental services**
- ✓ **Adapt to climate change**

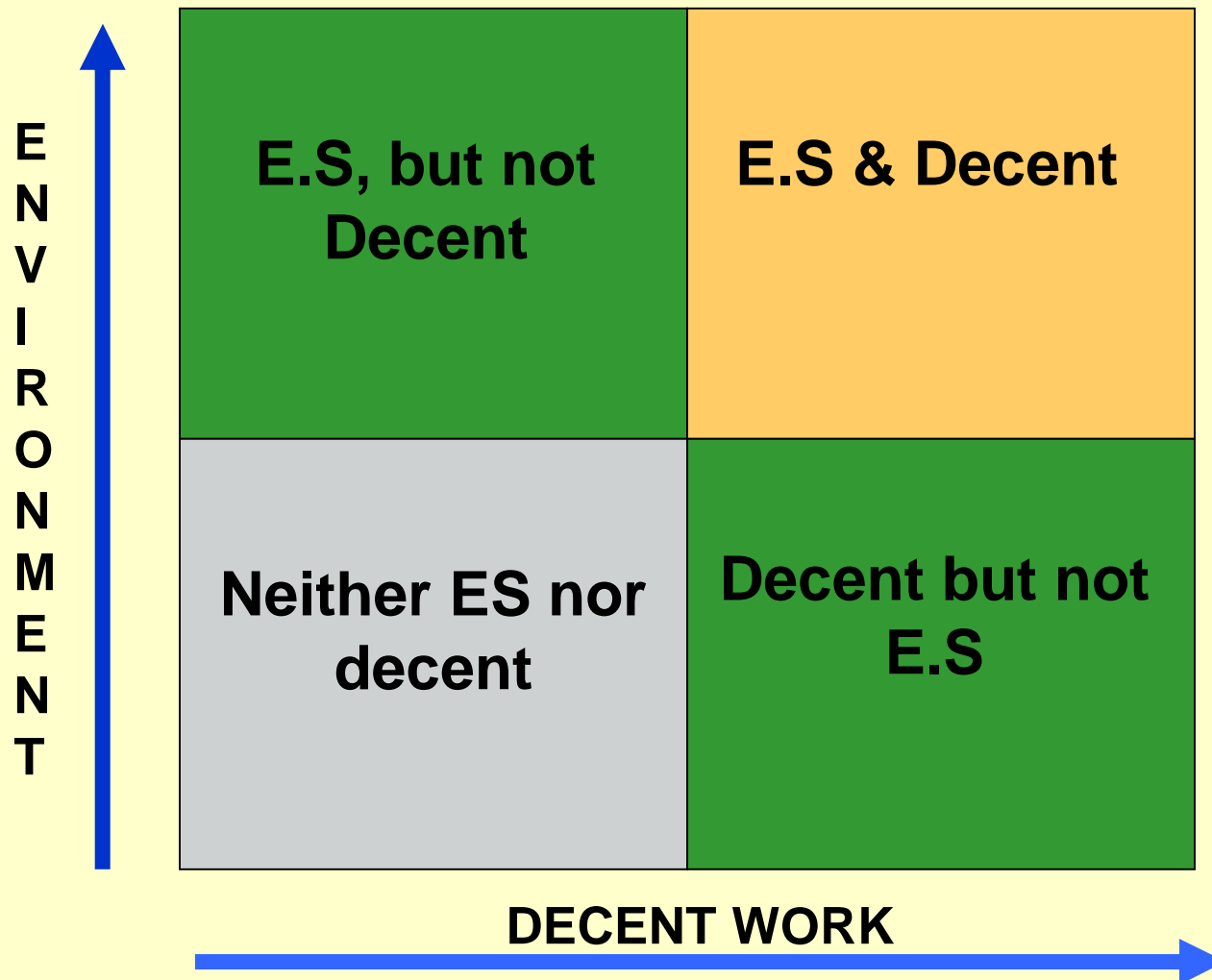


Green jobs

- Can be created in all sectors and enterprises (direct, indirect and induced jobs)
- Decent jobs: adequate incomes, social protection and respect for workers rights



Towards decent work and environmental sustainability



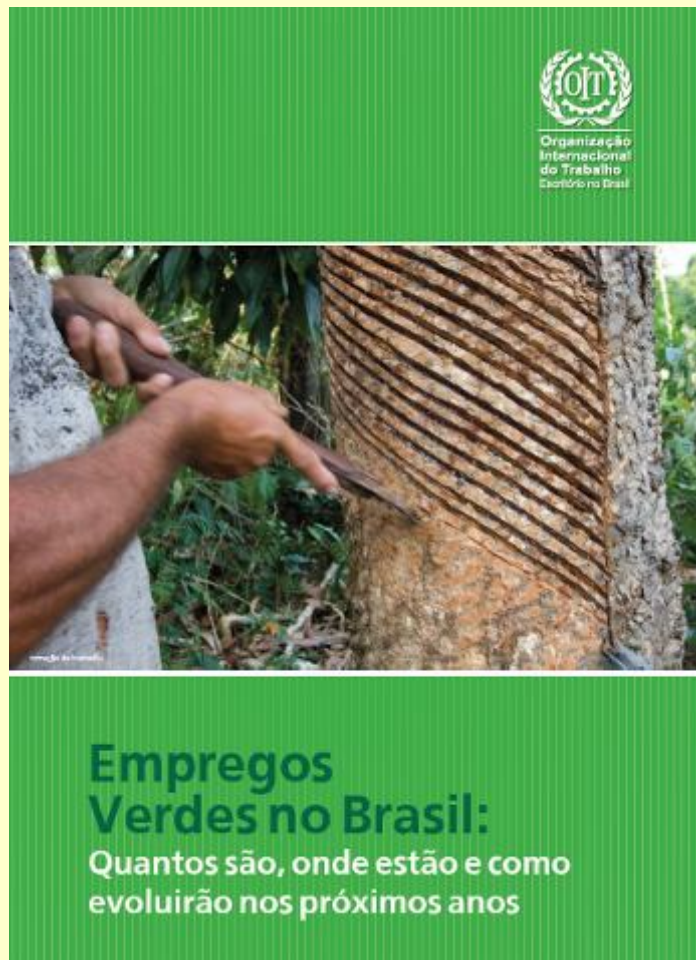


Greening across economy + High potential sectors

- **Energy efficiency:** buildings, industry, transport
- **Renewable energy**
- **Mobility:** mass transportation
- **Recycling,** waste management
- **Sustainable agriculture and forestry**
- **Environmental services**



Green Jobs in Brazil



- 2.65 m formal green jobs
- 6.7% formal employment
- ~ construction industry
- **Growing faster than overall labor market**



Brazil : Social housing, sustainable construction



'My house-my life' social housing program (5/2009)

- 500,000 units energy savings measures (solar water heaters)
- - 40% electricity bill
- - 18% peak demand
- + 18,000 jobs

Sustainable construction



Upgrading of social housing South Africa

Slum population > 1 bn





Rural energy: Photovoltaic in Bangladesh

1.6 bn people without access to modern energy





Green infrastructure

- Social security and anti-poverty schemes
- Public works programmes
- Environmental rehabilitation
- Adaptation climate change
- **Potential ~100 m jobs/y**





Mind the gap: skills

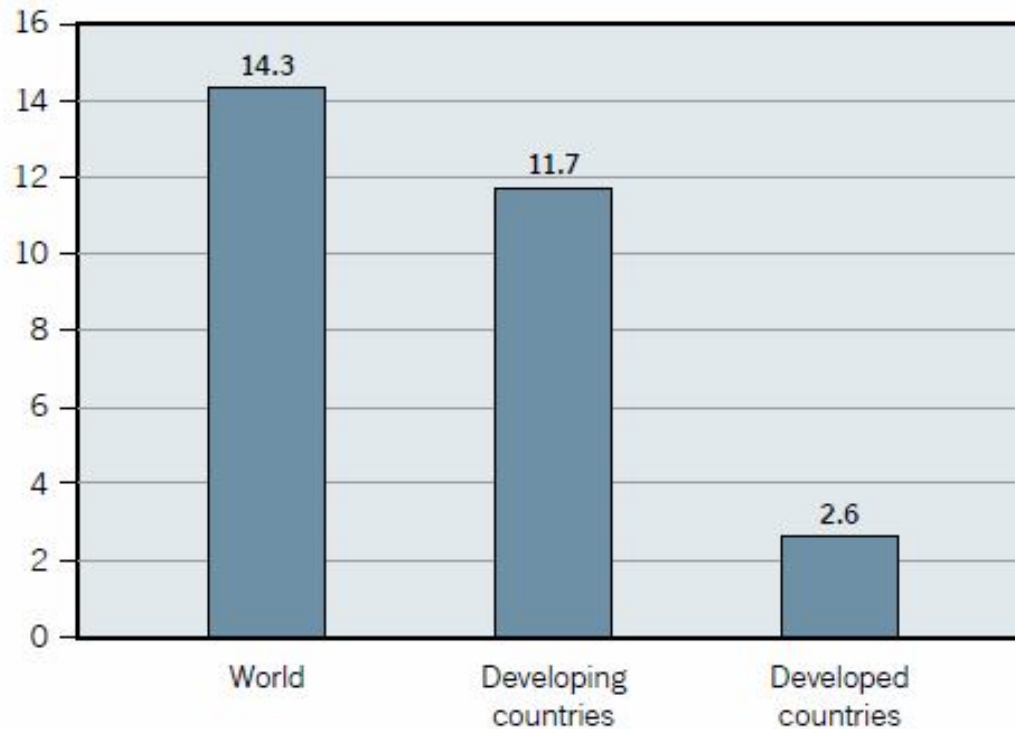
- Skills bottlenecks in all countries and most green jobs
- Technology cannot be used effectively :
 - Ex. UK social housing
- Or not at all:
 - China building industry





Eco-taxes

net gain 14.3 m jobs globally within 5 y



Note: The figure shows the projected impact on employment of green policies combined with lower labour taxes (see text for more explanation). The growth rate of employment estimated for developed countries was extrapolated to total employment worldwide.

Source: ILS estimates.

Source: ILS (2009)



Policy instruments

- Regulation
 - Mandates
 - Public investment
 - Public procurement
 - Skills development
- 'Getting prices right':
- Subsidies (shift)
 - Cap-and-trade, CO₂ tax, CDM
 - (Eco-) taxes



Conclusions

- **Jobs:**
 - Positive balance in numbers likely
 - Improvement job quality
 - Short response time
- **Critical conditions:**
 - supportive and coherent policies (mixes)
 - Well prepared enterprises and workers



Green Jobs in the Inclusive Growth

How our efforts to promote Green Jobs
(quantitatively & qualitatively)
can contribute to the inclusive growth
scenario in India?



National Commission for Enterprises in the Unorganized Sector found that...

1. The Indian economy is dominated by informal employment in the informal sector (around 85 % as of 2004-05).
2. The net growth of employment (1999-00 to 2004-05) has been largely of an informal kind.
3. The growth rate of wages of almost all categories of workers has declined during 1993-94 to 2004-05.
4. A large proportion of the Indian workforce and population (more than 3/4) continues to be 'poor and vulnerable' with very low rates of improvement in living standards.
5. The growth that occurred has been unequal, concentrating its benefits among the top segments of the population.



Green Jobs in the Local Economy - a scenario

Access to (clean) energy for the poor

Grid extension

Area-wide collective options

HH level solutions



- repair & maintenance jobs
- some manufacturing jobs

Greener development of sectors with vast informality
(**incl. green & conventional jobs**)

Agriculture

MSMEs

Waste mgt & Recycling

Building & Construction

Induced impact





What we can do (1)

Access to (clean) energy
for the poor

Grid extension

Area-wide collective options

HH level solutions

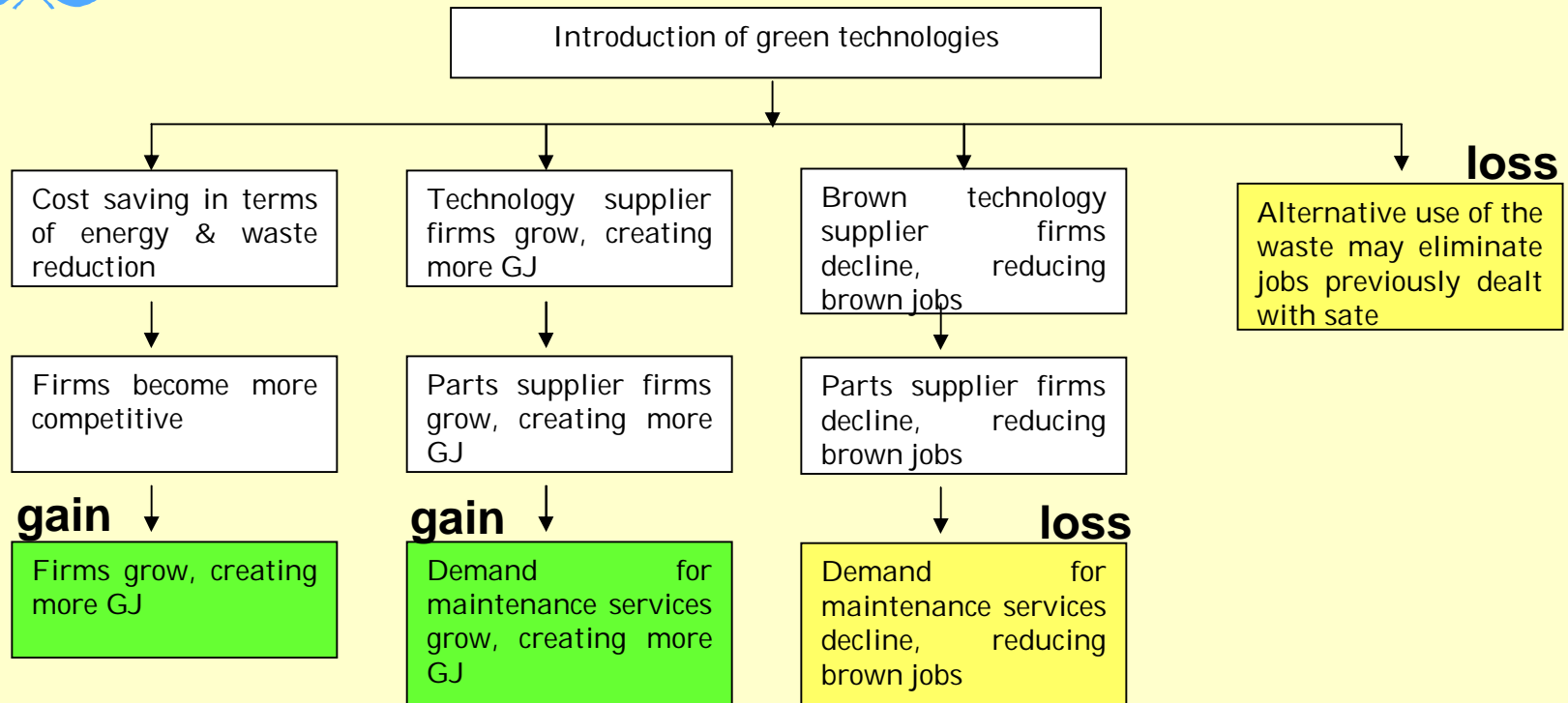


- repair & maintenance jobs
- some manufacturing jobs

- We support:
 - gauging the labour market impact of selected energy projects and resulting skills gap
 - Value-chain and business model dev
- Partnership required
 - e.g., regulators, technology providers, training providers, financiers, market facilitators

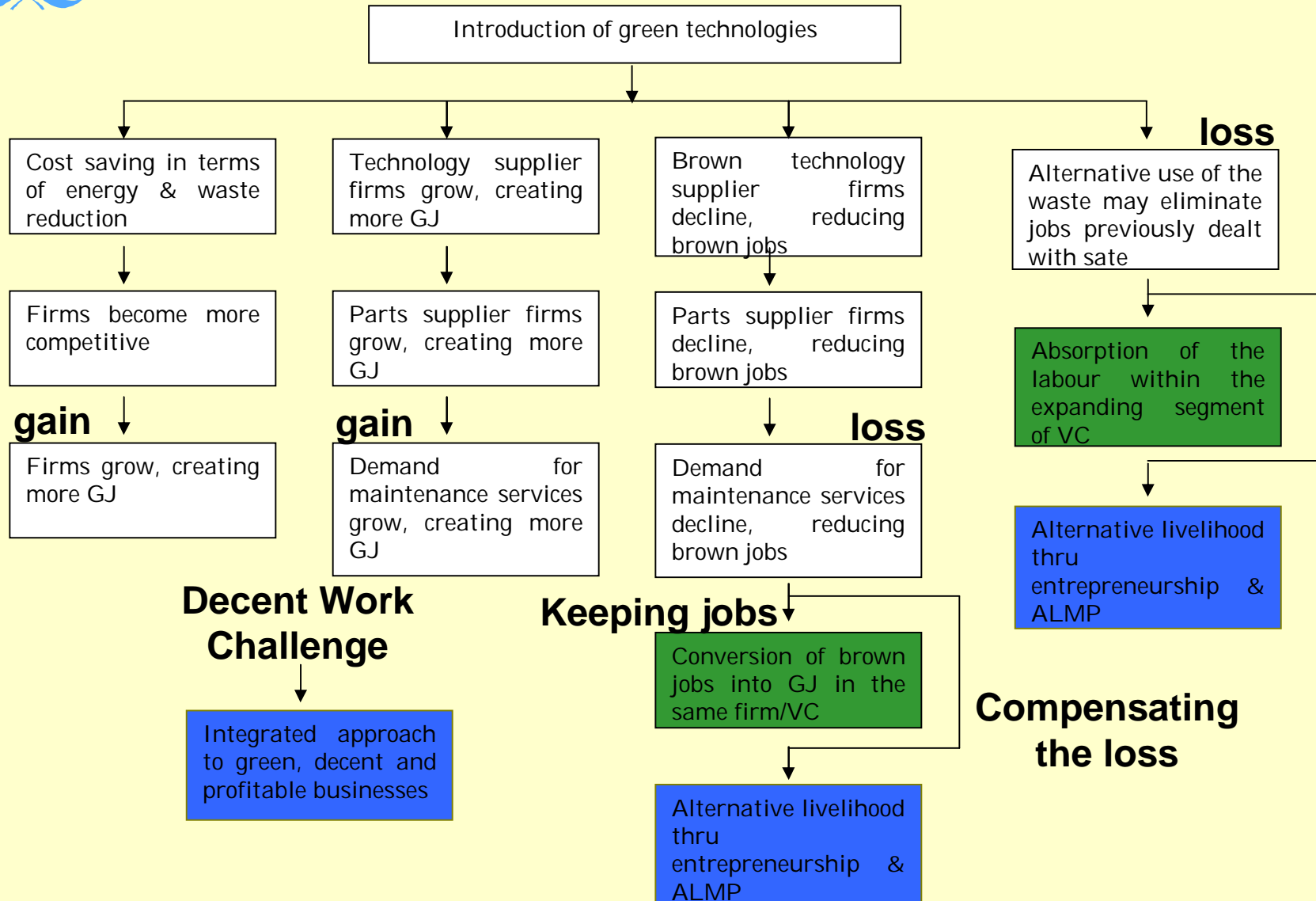


Jobs created or lost?





Jobs created or lost? How about quality?





Materialize the impact of access to energy into local economic develop ...

Access to (clean) energy
for the poor

Greener development of sectors
with vast informality



is NOT AUTOMATIC

- Calls for an integrated approach
- Need to work w/ various stakeholders
incl. convergence w/ gov prog/schemes



What we can do (2)

- ILO programmes & tools available:
 - Local competitiveness & value chain tools
 - Entrepreneurship, skills and MFI training
 - Workplace enhancement & productivity prog.
 - Support to expand social protection coverage
 - Tools to address needs of vulnerable groups
- Greener development of sectors with vast informality
- Agriculture
 - MSMEs
 - Waste mgt & Recycling
 - Building & Construction



New tools to be introduced

- *Tools to assess the size of Green Jobs potential*
 - *Sectoral (ILO-GHK guide)*
 - *project level (under development)*
- Tools to support Local Economic Development
 1. Value Chain Development for Green Jobs
(policymakers' guide/reader + practitioners' guide)
 2. Sustaining Competitive & Responsible Enterprises – SCoRE (workplace & productivity programme)
 3. Generate Your Green Business Ideas (a module of SIYB entrepreneurship programme)



Recommendations for policy

**Win – win not by default,
but by design**

Policies that work:

- 1. Map** employment/income opportunities and risks
- 2. Start with low-hanging fruit**
- 3. Target:** youth, women, the poor, SMEs
- 4. Engage stakeholders in social dialogue**



Useful websites

- *Green Jobs India site:*
http://www.ilo.org/newdelhi/whatwedo/projects/lang--en/WCMS_123411/index.htm
- *ITC-Turin's Green Jobs training site:*
<http://greenjobs.itcilo.org/>
- *LED knowledge website:* <http://www.ledknowledge.org/>
- *Boosting Employment through Small Enterprise Development:*
http://www.ilo.org/empent/WorkingUnits/lang--en/WCMS_DOC_ENT_DPT_SEE_EN/index.htm
- *SCoRE:*
http://www.ilo.org/empent/Whatwedo/Projects/lang--en/docName--WCMS_101367/index.htm
- *Informal economy resource guide:*
<http://www.ilo.org/public/english/support/lib/resource/subject/informal.htm>