

# ILO's Perspectives on Green jobs Creation Through Building Retrofitting

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### Mainstream employment potential

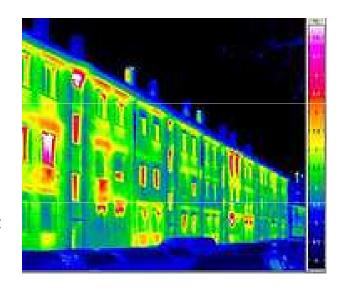
- A study of 10 new EU members states projected that 50000 to 185000 jobs would be created by retrofitting existing residential building stock
- In France, in 2006, partial retrofitting activities in buildings accounted for 9700 jobs (operations) and 7150 jobs (related material production), correspondingly growing to 21000 and 15000 by 2012
- In Germany, a large scale retrofitting project led to around 140000 new or saved jobs



■ In Hungary, a study demonstrated that a large scale renovation programme could create up to 131000 net new jobs by 2020

### The German case

 Initiated by the German Alliance for the Environment in 2001, the project resulted in 342000 apartment retrofits



• From 2001-2006 €3.8 billion of public subsidies stimulated €15.2 billion investment

 For every € 1 billion invested in the program, 25000 additional jobs were expected



By 2004, 25000 new jobs were created and another
 116000 were saved

## Focus on skills development and training

Component Activity	Skills required
Activities before the execution of the projects (consultative meetings with residents, design or establishment of project requirements)	Engineer, Surveyor ,Commercial Agent Transport, Security, Unskilled worker
Activities during the execution of the project Insulation (roof, wall, floor, attic) Air sealing Space heating (underfloor heaters, ground source heat pumps, photovoltaic tubes) Water heating (boilers) Ventilation (passive stack, change of windows, installation of ventilators) Efficient appliances Photovoltaic systems Electric wiring Grey water system Rainwater harvesting Water conservation (replacement of toilet with a lowflush or dual-flush toilet) Plumbing Concrete works Carpentry Painting and paper hanging Masonry Tiling Floor works	Engineer, unskilled worker, plumber, electrician, builder, carpenter, painter, liaison officer, general supervisor, plasterer, pipe fitter, bricklayer, foreman, manufacturer
Activities after project execution  Constant inspection and maintenance Rent collection Security checks	Maintenance officer, security, property manager



### Emphasize decent working conditions

#### A green job is defined as:

 one which makes minimum negative impacts on the environment relative to the status quo, thereby making enterprises and sectors more sustainable

#### Additionally.....

- Green jobs need to be decent jobs: offering good wages and income security, safe working conditions, dignity at work, and adequate workers' rights





# Sustainable retrofitting: a win-win scenario?

- According to IPCC, the largest potential within the building sector for reducing GHGs by 2030 is retrofitting and replacing equipments
- A worldwide transition to energy efficient buildings could create millions or even tens of millions of jobs and would green much of the existing employment in the building sector (highest gains with lowest cost)
- Retrofitting could provide a scope for addressing social sustainability and avoiding huge expenditure in energy and materials



Thank you.

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