# Interactive Workshop September 2010 housing actors engage

Participants involved: UN-HABITAT, UNRWA, FAO, ILO, UNDP. OCHA, CHF International, Islamic Relief Gaza, Coastal Municipalities Water Utility, Palestinian Housing Council, Sharek Youth Forum, Islamic University of Gaza, University College of Applied Sciences Al-Azhar University of Gaza, Al-Agsa University, small-scale contractors/builders, engineering firms, and technical representatives of the Ministry of Public Vorks and Housing.

### Palestine Regeneration Team (University of Westminster)

Murray Fraser, Nasser Golzari and Yara Sharif have set up the Palestinian Regeneration Team (PART) to carry out a range of projects in Palestine. Realising that the limitation with most western academic analysis is its fixation with the negative aspects of the Israeli/Palestinian conflict, the PART aims instead to find constructive ways to use architecture and urban design to help the West Bank and Gaza Strip. (www.palestineregenerationproject.com)

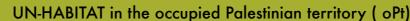
families more energy-efficient - consume water, energy and deal

The workshop, hosted by 1. Achieving sustainability requires UNRWA, gathered all the key action at all scales and levels, fully housing actors and was opened recognizing their interdependence: with a speech of John Ging, from the behavior of the individual Director for UNRWA in the Gaza and the family, to the house, to the Strip. Participants explored the neighborhood to the level of the affected neighborhoods and Gaza Strip; exchanged ideas about how 2. Greener housing means changing to make the designs for typical the way we live, design and build concrete houses for extended our houses, in adition to the way we

keeping in mind existing self-help with waste; building practices, daily habits 3. Greener housing and sustainable neighborhoods can be achieved by Participants were keen not to using locally available materials and dissociate the issue of house affordable technologies, building building from that of developing on the local socio-cultural reality;

more sustainable neighborhoods. 4. Greener housing and sustainable They looked at cost-effective ways neighborhoods are about improving to reuse 'grey-water' to make the quality of the living environment neighborhoods greener, more and making it more productive, productive and inclusive, creating enhancing livelihoods;

5. Greener housing and greener neighborhoods can only be achieved through inclusive communityparticipation and engagement throughout the process.



Filiep Decorte (Team Leader oPt) and Zeyad Elshakra (Deputy Team Leader Gaza Strip) are leading UN-HABITAT's work within the Gaza Strip, increasingly focusing on monitoring the overall housing needs and promoting "building back better", while highlighting the challenges of sustainable urbanization. UN-HABITAT is a specialized UN Agency focusing in oPt on planning, land and housing issues. (filiep.decorte@unhabitat.org, zeyad.elshakra@unhabitat.org)

Re-use, re-fuse, re-think, re-duce, re-

cycle, re-pair & re-design. The above principles formed the basis and inspiration for one of the workshop components. It focused on alternative approaches to everyday habits, a key component in sustainable green practices. Work focused on testing and revising the component with sitespecific design interventions allowing into practical and realistic action.

Rethink: Can a design achieve the raising. outcome better? Can it be adapted? Reuse: Could it be used again? Does it have another value without waste? Reduce: Can we minimize the material and energy used? Can we use less? Repair: How easy is it to repair and maintain? Can we replace parts? Recycle: Is it easy to take apart? Is it possible to reprocess it? Refuse: Is it needed? Is it necessary? Redesign: How to redesign with all the above taken into account?

Building on the current condition and ongoing initiatives, the workshop allowed identifying potential areas to advance towards a more sustainable and greener Gaza.

The need for quick repairs to improve the living urgent. Families should be empowered to take the lead in implementing emergency repairs, the translation of the above principles using creative and affordable technologies to achieve energy efficient solutions. Training should go hand in hand with awareness The guidebook has emerged from the urgent

It is critical that more climate-friendly designs with higher energy efficient standards ventilation using north/south court yards, achieve 'greener' living creating layouts that facilitate seasonal living and providing better thermal mass. House designs should respond to cultural issues and shifting life styles, while reducing the need for heating and cooling.

Changing daily practices, the way we use spaces and the introduction of small scale technical interventions can go along way in reducing water and energy consumption. This ranges from changing everyday habits of washing; switching lights off were possible, conditions in war-damaged houses remains seasonal living, to simple daylight and ventilation techniques.

need to provide immediate help and support for the individual families interested in self-help and 'building back better'. It aims to provide technical support for the construction of new houses. The booklet will be a UN-HABITAT initiative with inputs from the University of are achieved including improved passive Westminster, focusing on practical advise to



and economic realities.

a less harsh microclimate.











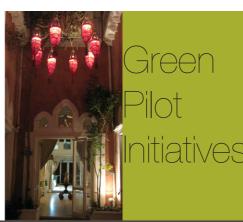


The Six Rs + One principles are inspire from The Sustainable Handbook for Design and echnology Teachers, 2008

















ased on the engagement with the different housing actors during the workshop, pilot projects were awareness, test new ideas and Pilot initiatives range from the neighborhood scale to the detailed scale of a building

green public and private spaces to reduce the use of energy.

include enhanced repairs, creation of devices and greener roofs, and public spaces, made greener rough the re-use of grey water and clever drainage systems. Full community participation will be the key to success.

The reconstruction of Al-Zaitoun on walls and roofs.

The pilot would focus on retrofitting existing school buildings to create a healthier learning environment, creation of a 'Learning Room' as programme and projects; a space to explore appropriate • Aim at water and drainage systems, an integrated greener everyday habits and self- neighborhood school and the local community, on specific neighborhoods; providing a community-laboratory • Test out certain new approaches

green elements in the facades. the neighborhood, through It is proposed to create a platform stitching' promotes innovative low maintenance of organizations motivated to build spaces. Joint work on Al Salam, waste and promote the creation 'green' agenda. The 'coalition' facilitate exchange and promote training activities.

joint initiatives, while sustaining ongoing efforts of local residents.

- shared with the surrounding Actively translate the 'green' community. It will involve the principles in the organisation's own
- including use of earth, low-energy multiple organizations, ensuring help practices. The Learning Room reconstruction and development, would be the interface between the including through joint pilotinitiatives
- construction techniques to learn about, discuss and and technologies for the benefit of experiment with self-help green the broader platform, within the framework of ongoing programme/
- Make motivated technical staff and resources available to participate in Technical Task Force(s), in view of flexible and adaptable uses of urban drainage systems. Recycle on the momentum and further the exchanging experiences, exploring new possibilities and supporting as a pilot neighborhood, would of horizontal and vertical gardens would provide an umbrella to development of common tools and

The Israeli blockade of the Gaza Strip, which started in 2006, coupled with the Israeli invasion "Operation Cast Lead" in December 2008, make it impossible to supply the local market with legitimate building materials, preventing affected families from reconstructing their houses. Families across the Gaza Strip also cannot expand or build new housing units to deal with natural growth. Limited quantities of building materials are being smuggled at high prices through tunnels under the Egypt border. The real housing needs, estimated at over 60,000 units, now exceeds the need for reconstruction tenfold. Projects so far have focused mainly on crude repairs while rehabilitation of partially damaged buildings is slowly picking up. Guidelines for the Reconstruction and Rehabilitation for war affected individual housing focused mainly on financial compensation mechanisms.

The poor economic situation, the lack of space to build within the Gaza Strip, which already has a very high urban density and demanding climate conditions, makes the environmental degradation in the Gaza Strip even more alarming. Gazans struggle to dispose of sewage and garbage and access to clean and safe water become a major challenge. Electricity depends on fuel import, making it expensive and often irregular. The cost of water and energy is a real burden of the Gazans living under the poverty line.

Once the blockade will be lifted and building materials can flow onto the local market, recovery and development is expected to be fast. There is a shared concern that the opportunity to build back better should not be missed. A visit to the Gaza Strip today reveals a remarkable amount of creative local initiatives and an energetic drive of a wide range of committed organizations and individuals ready to adopt greener practices. This provides fertile ground to introduce a more environmentally friendly and sustainable framework. Appropriate technical support and pilot initiatives would make it possible to take further small steps out of the current crisis towards a more sustainable future, starting from improving the current humanitarian and early recovery response. It was with this in mind that UN-HABITAT with the HABITAT Partner University of Westminster (London, UK) organized an inter-active workshop with all housing actors in September, 2010. The building blocks, resulting out of this joint initiative, for a 'greener' way forward are set out further in this brochure.

## greener houses, sustainable neighborhoods

Bridging the gap between humanitarian response and a sustainable future













