Successful busine Entrepreneurs in t	Cancership ss cases of Green Mediterranean
	: Low cost housing and training
Project Name: City, country: Name of entreprene founder:	ADAPT Egypt Cairo, Egypt eur/ Arch. Hany El-Miniawy
Description:	 Organisation developing low-cost, environmentally- friendly housing for squatter and other low-income/neglected remote areas in Egypt, reducing the cost of housing by 30 % and training low income groups to build their own houses. There are three main components to the initiative; 1) Local materials; reducing dependency on expensive imported, mass-produced, and environmentally unfriendly building materials by participating with local communities to test and improve the properties of local material, using simple non-polluting production and construction methods. Through experimentation with local ingredients used by the ancient Egyptians and the treatment of polluting materials such as rice straw, cement dust, and iron ash, Hany has been able to create low-cost, government-certified, environmentally-friendly construction materials. 2) Affordable construction techniques; techniques that are easier, faster, and more affordable than the techniques currently used to build homes. 3) Training; the know-how of building materials and techniques are transferred to the youth in low-income, illegal communities, adopting a participatory approach and a mutual-learning process that incorporates local construction knowledge and styles.
Investment:	Start up capital: None. Rate of return: Not applicable. Sources of funding: Each project is started as a pilot with varying investment costs, and a consultancy firm is now being developed to generate additional source of revenue.
Stakeholders:	Civil Society Organizations, Settlers in informal areas, Government and local authori- ties, Social leaders
Employment generat	ion: Depends on the project, the numbers of workers in construction, urban upgrading, and rehabilitation of facilities vary, which includes on the job sustainability for the local community.
Timeline:	 1976 Original team started in Algeria including late Arch. Hamdy Diab, Arch. Abdel-rahman El-Miniawy, Arch. Hammam El Mistikawy 1998 ADAPT Egypt established with the team of Arch. EL-Miniawy and his wife Arch. Sanaa Tobah.
Geo-social-economic setting:	Traditionally, the government has responded to the increasing phenomenon of informal housing by either "upgrading" it or by forcibly evicting residents and de- molishing informal structures to accommodate new developments and/or high- income housing. The latter approach is the most common, as upgrading is ex- tremely expensive. The displaced residents of the informal area either resettle to housing compounds even farther away or they are given compensation to seek other housing arrangements. However, in many cases the eviction is carried out without compensation or the securing of appropriate alternative shelter.

Geo-social-economic setting:	Egyptian shantytowns vary in quality from houses made of adobe and cement shacks made out of sheets of metal, cloth, and even cardboard. According to Han mass-produced building materials such as red bricks and reinforced concrete a
	unreliable because their costs are tied to international markets. At the same tim local building materials used by indigenous populations in rural and desert environ
	ments are often not resistant to harsh environmental conditions such as earthquake and heavy rains. Hany's work suggests that it is possible to develop building mate
	rials tailored to each local environment through a scientific process of testing an designing building materials, combined with construction training.
Key features:	Green construction / Low-cost housing / Employment generation / Efficient use local resources.
Overall rationale and motivation:	The founder El-Miniawy, was driven by his passion for socially-sensitive architectur which he studied in Germany and chose to conduct his practice in Algeria, a place whe he felt his knowledge would be needed. The brief stay in Algeria became a 15-year jou ney of development and growth until his return to continue in his home country Egypt.
Strengths:	Direct improvements to the living conditions of 13,000 individuals in Egypt.
Challenges and constraints:	No information given.
Direct activities and impacts:	Social: Han has trained hundreds of individuals to spread the idea of sustainabl local, and environmentally-sound building methods and improved the living concerning of roughly 13,000 individuals in Egypt. Some of the projects include: upgrading and rehabilitating rural houses and apartment buildings in Luxor, in the sour of Egypt; upgrading informal settlements in Imbaba, a squatter area in Cairo; an upgrading home materials in Idfu, a city by the Nile. <i>Environmental</i> : Traditional building techniques used with use of renewable materials and minimal waste. <i>Economic</i> : The Egyptian Ministry of Housing has come to adopt Hany's strategy
	a number of ways, including discussing the integration of youth employment an community participation within Hany's methodology.
Use of innovative technologies:	No information given.
Evidence of a holistic approach/world view:	Traditional Egyptian building techniques are being investigated and young peop being trained in this field.
Scale of benefits:	Hundreds of individuals trained and 13,000 individuals have improved living con- ditions. Hany continues to receive international recognition for his work. In 2008, he was awarded with two international achievement prizes: the Vassilis Sgoutas Prize for Architects from the International Union of Architects and an award from the Tech Museum.
Government policies, incentives and regulations needed:	No information given.
Lessons and recommendations:	No information given.

Reterences: www.ashoka-arab.org/egypt/hany-el-miniawy.html www.youtube.com/watch?v=1uyNSE_2_HM&feature=player_embedded

ADAPT Egypt: Low cost housing and training for low income communities



