

URBAN HORTICULTURE IN BOLOGNA



A key role for research and training



G. Prosdocimi Gianquinto and G. G. Bazzocchi - ResCUE-AB Research Center in Urban Environment for Agriculture and Biodiversity Department of Agricultural Sciences Alma Mater Studiorum, University of Bologna









Research Center in Urban Environment on Agriculture and Biodiversity



RESCUE-AB aims at turning the city into a diffuse eco-laboratory, where research activities may take place, linking together the different experiences of urban horticulture and ecology, from the historical urban social gardens, to the recent initiatives of roof gardens, from the community horticultural experiences to the school gardens, toward the global aim of creating a network of green corridors across the city.

RESCUE-AB aims at promoting, within the already present, currently built and future city green infrastructures, researches in the fields of:

- -social and sustainable urban horticulture;
- -soilless systems;
- -urban biodiversity and agro-ecology;
- -urban beekeeping;
- -organic pest control in the urban environment;
- -quality of urban vegetable crops.

The center also include the **Code-crop De**velopment for **Crop** Sciences.



Laboratory of **Co**operation for





Experiences of Urban Horticulture in the South of the World



















Trujillo, Peru

















Lima, Peru















Teresina and Salvador, Brazil

















Tagant, Mauritanie







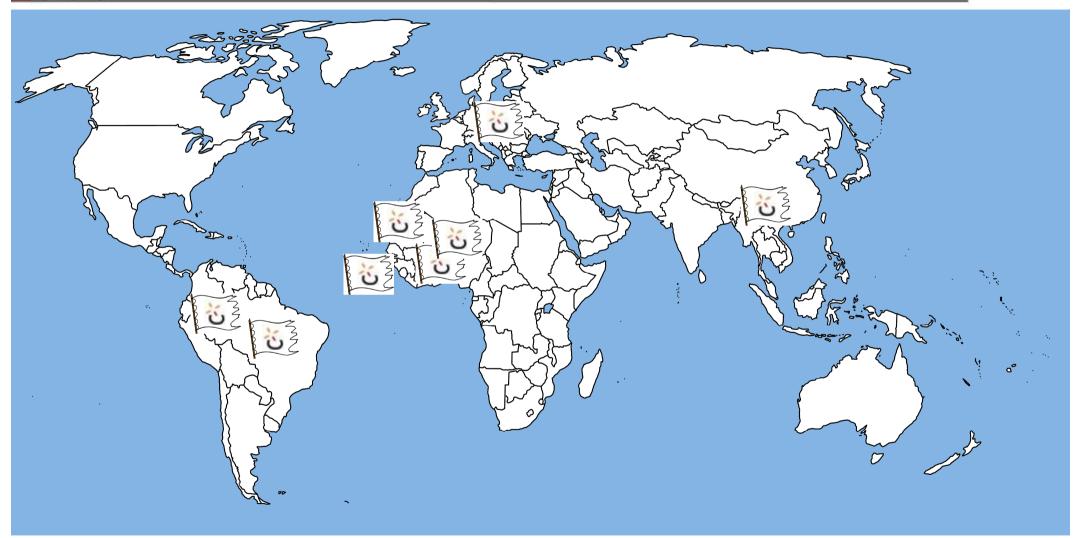






Current and past urban horticulture projects of UNIBO





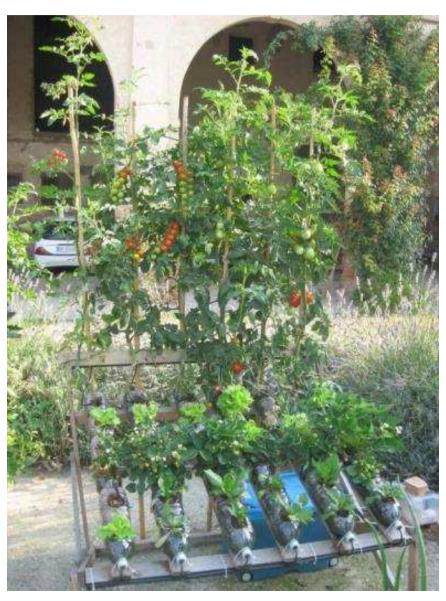
Teresina and Salvador, Brasile Ouagadougou, Burkina Faso Assaba, Tagant e Hod el Chargui, Mauritania Trujillo and Lima, Perù Yangon and Dry Zone, Myanmar Ilha de Santiago, Cabo Verde Abidjan, Costa d'Avorio Bologna, Italia





Gardens, in our cities











.. Simplified hydroponic systems for home vegetable production ...





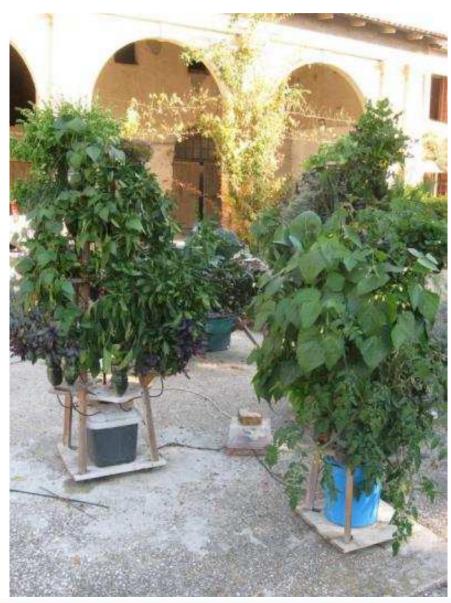


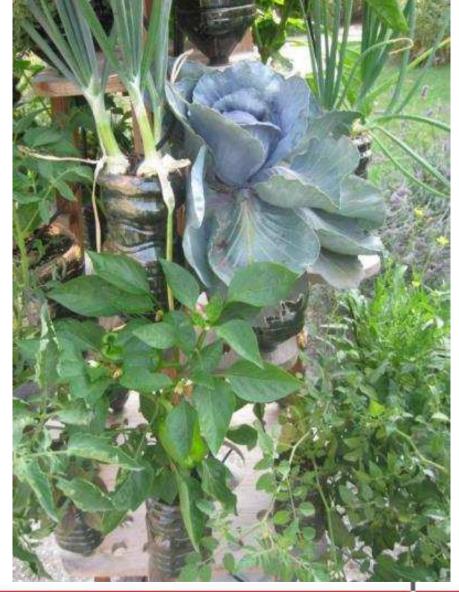




... including vertical gardens ...



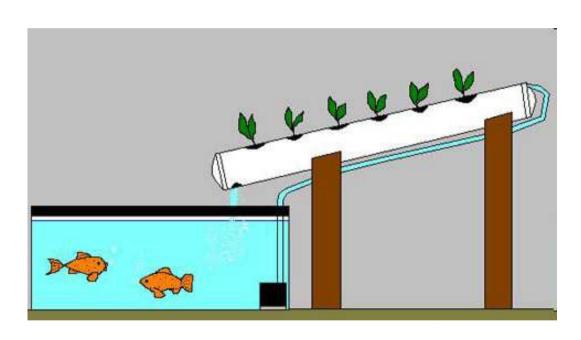


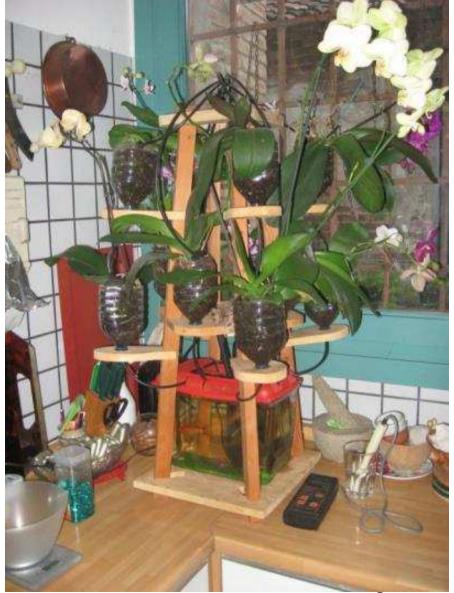




... and aquaponics



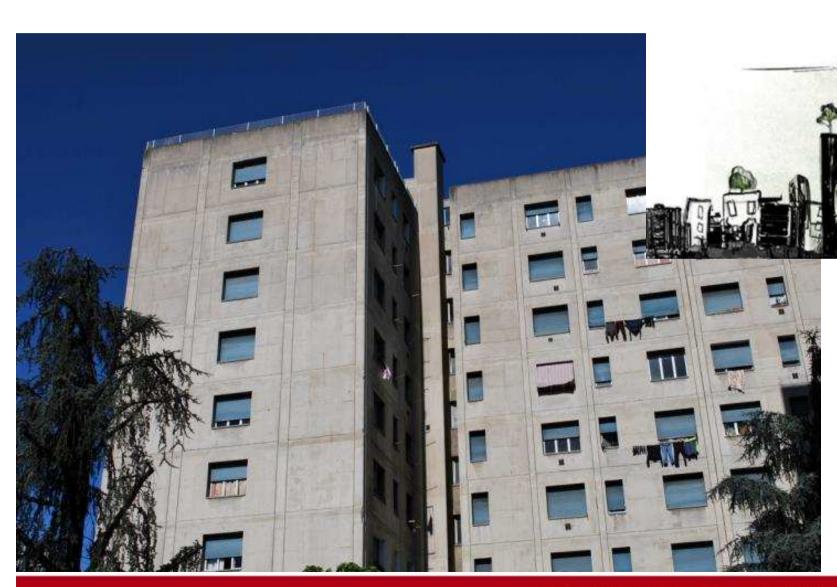






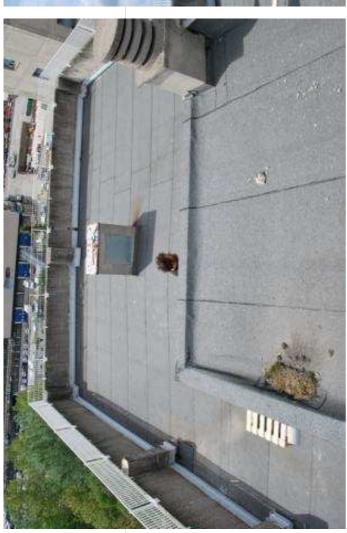
Social housing buildings, via Gandusio, Bologna

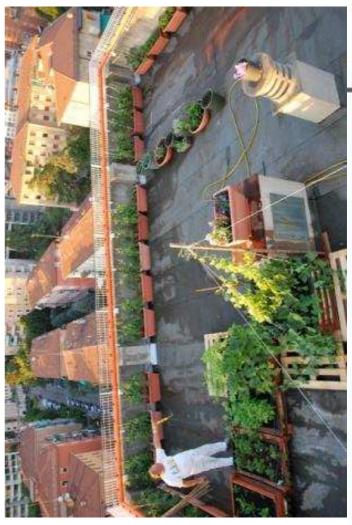








































Schoolyard garden, vertical garden







Schoolyard garden, aquaponic garden















Schoolyard garden, biodiversity garden







Schoolyard garden, Small wind turbine and photovoltaic







The aromatic garden between blocks of flats in popular neighbourhood

















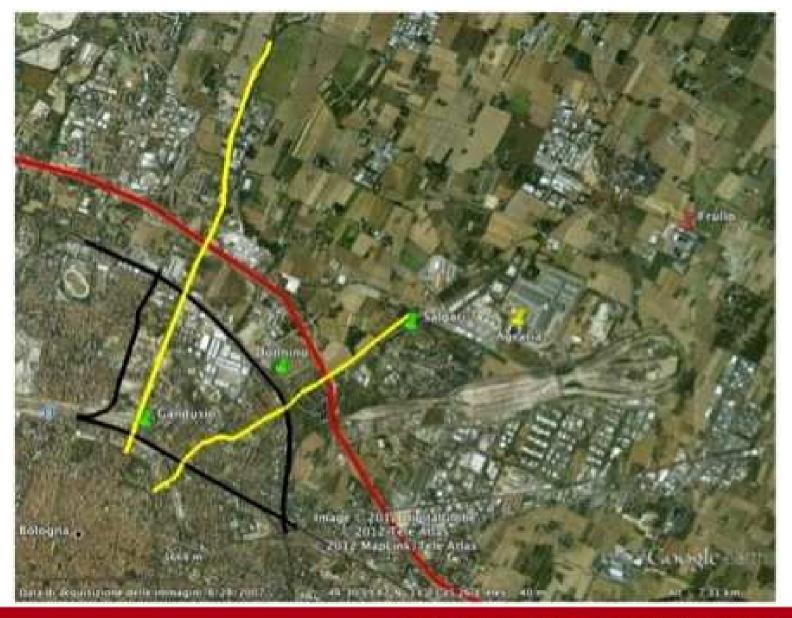






Studies on the physiology and quality of urban grown vegetables



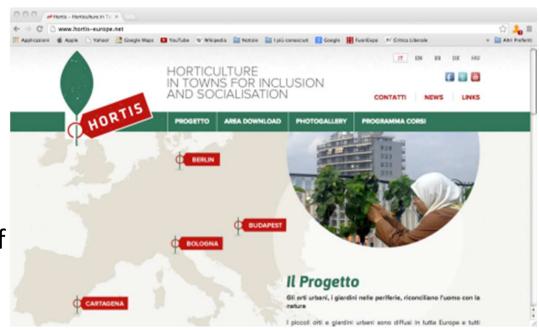






HORTIS – Project funded with the support of the European Community within the framework of the Lifelong Learning Programme, sectorial programme Grundtvig for adult education.

HORTIS is coordinated by the Department of Agricultural Sciences of the University of Bologna (Italy) and it includes partners from several European Countries:



Germania: Workstation ideenwerkstatt berlin e.V.

Ungheria: Corvinus University of Budapest e Magyar Biokultúra Szövetség

Italia: Horticity, Mammut Film e Amitié

Spagna: Universidad Politécnica de Cartagena e Fundación Tierra Integral

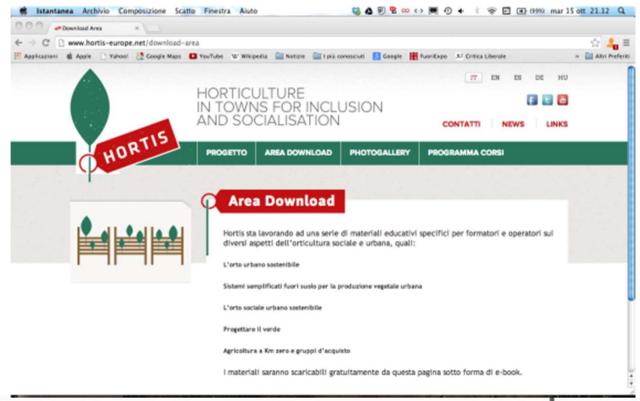






HORTIS aims at the following objectives:

- To develop a set of <u>educational material</u> on the various aspects of urban and social horticulture.
- To organize <u>training courses for trainers</u> on the subject of urban horticulture in the cities of Bologna (IT), Berlin (DE), Budapest (HU) and Cartagena (ES)
- To organize <u>pilot courses on</u> <u>gardening and urban</u> horticulture for adults
- To create a web multilingual and interactive portal for the diffusion of the educational materials developed within the project and encourage the communication and collaboration among the different users







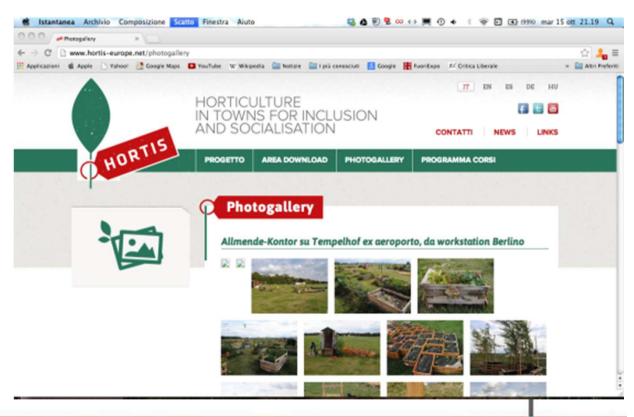


HORTIS develops educational material that are intended to serve everyone, such as:

- Practical tutorials such as short videos
- ❖ a set of illustrated and easy to use "cards", with photos and drawings on the main steps from soil preparation to harvest.

HORTIS will also produce specific educational material for TRAINERS and specifically manuals on:

- The sustainable urban garden
- Soilless systems for urban vegetable production
- Social urban horticulture
- Urban garden cultivation systems
- ZeroKM agriculture









HORTIS also aims at the promotion of urban and social horticulture through a variety of actions and activities such as:

- Organization of events in each country and city involved:
 - Promotional events
 - Dissemination events
 - > International conference



- Promotion of the collaborative opportunities among those that are interested in urban and social horticulture
- The production and diffusion of a video and promotional tool-kit, including a DVD, on how to create a urban garden and a kit of seeds.

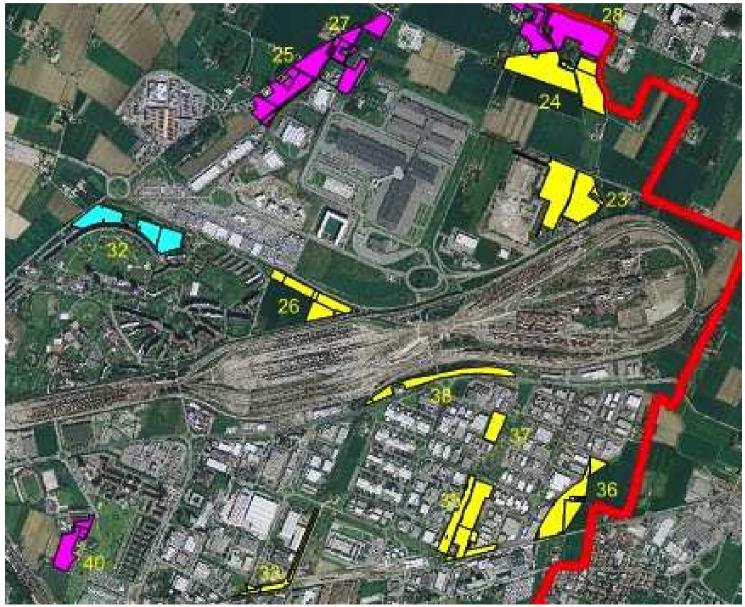
HORTIS last 2 years, from January 2013 to December 2014.

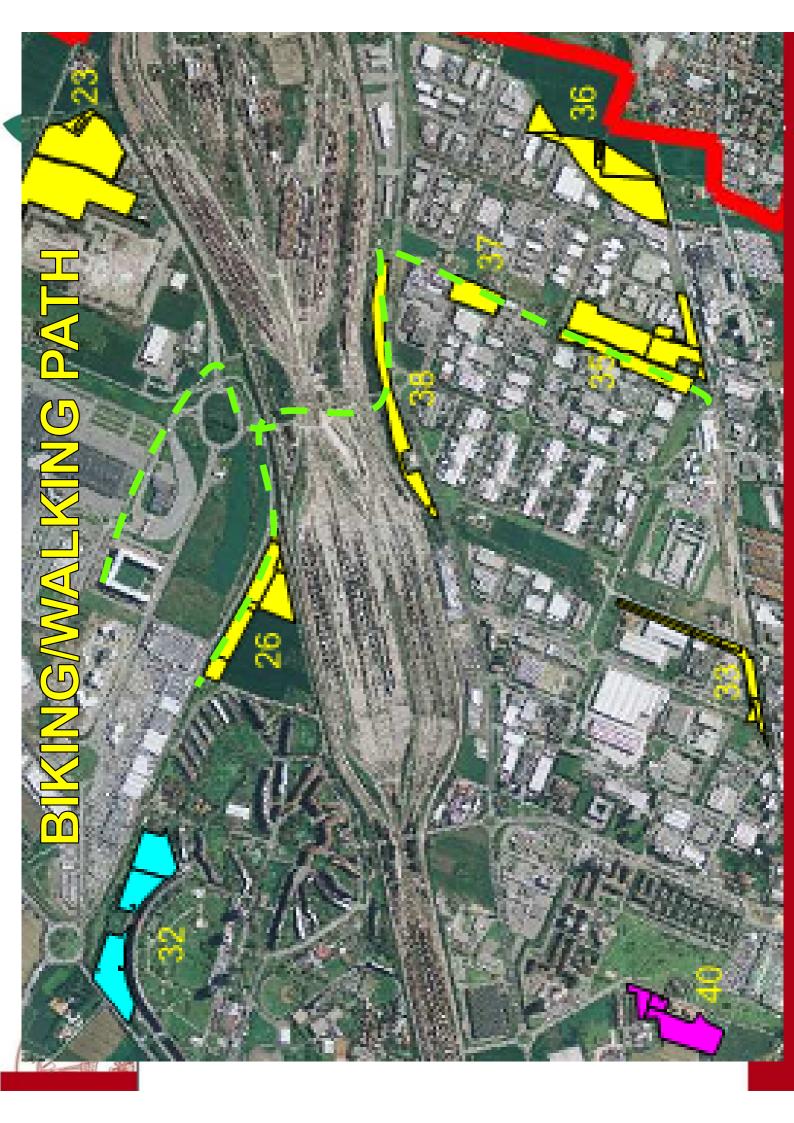




The next project for Bologna





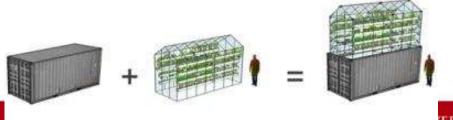




Community garden



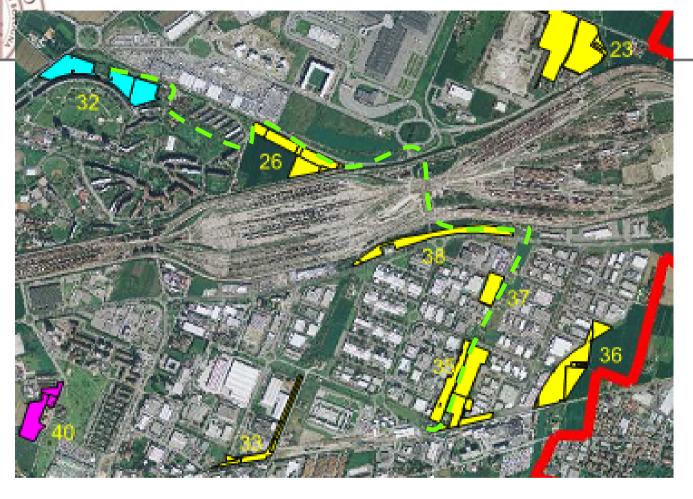
Urban microfarm system





Smart gardens way







Training

Biodiversity



Urban ecology

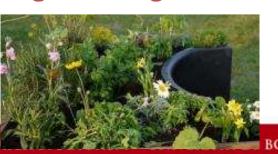
















The smart gardens way





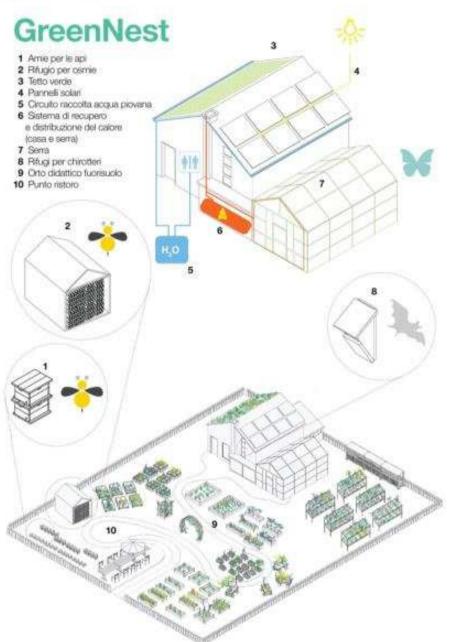
Il Virgolone con Serra (The virgolone greenhouse). Antonio Scarponi / Conceptual Devices,, elaborated from a photo by Francesco Calzolari.





... and creating small biodiversity incubators (GreenNests) in urban marginal areas...











Thank you for your kind attention!







Giorgio Prosdocimi Gianquinto

Dip. Scienze Agrarie

giorgio.gianquinto@unibo.it

http://www.unibo.it
http://www.dipsa unibo.it/

