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NYC SKY CONDO

NEW YORK CITY FARM TOWER

INTERNATIONAL IDEAS COMPETITION OF ARCHITECTURE

ARCHITECTURE
WORKSHOP
IN ROME



VERTICAL FARMING ARCHITECTURE AND NATURE WORK TOGETHER

In the 2000 Dickson Despommier, professor of the Environmental Sciences at the Columbia University in New York, developed in collaboration with various architectural firms, the concept of vertical farms.

The urban vertical farming means the cultivation of agriculture products and livestock in vertical, in multi-storey structures energy self-sufficient inserted within the metropolitan areas.

The benefits offered by this technology are:

- continuous, non-seasonal, supply of agricultural products.
- elimination of the possibility of damage to the agricultural production caused by natural disasters such as droughts, floods.
- contribution to the reconstruction of the ecosystem balance through the reduction of cultivated land.
- reduction of the CO2 emissions by eliminating the use of pollutants machineries such as tractors and vehicles for the transport of goods for long distances.
- reduction of the water consumption.
- decrease of the cost of food products.
- social benefits such as creating new job opportunities and education for the community.

The goals to achieve are:

- meet the requirements of the World Green Building Council.
- determine which materials are best suited for the construction of the vertical farm.
- identify resistant, light, transparent and long-term materials.
- experience the most innovative materials.



SUPPORTING THE NEEDS OF FOOD
WILL REQUIRE 1.000.000.000 ACRES OF FARMLAND

THE HIGH LINE

The High Line, in collaboration with field operations, is a new 1.5-mile long public park built on an abandoned elevated railroad stretching from the meatpacking district to the hudson rail yards in manhattan. Inspired by the melancholic, unruly beauty of this postindustrial ruin, where nature has reclaimed a once vital piece of urban infrastructure, the new park interprets its inheritance.

It translates the biodiversity that took root after it fell into ruin in a string of site-specific urban microclimates along the stretch of railway that include sunny, shady, wet, dry, windy, and sheltered spaces. Through a strategy of agri-tecture, part agriculture, part architecture. The high line surface is digitized into discrete units of paving and panting which are assembled along the 1.5 miles into a variety of gradients from 100% paving to 100% soft, richly vegetated biotopes. The paving system consists of individual pre-cast concrete planks with open joints to encourage emergent growth like wild grass through cracks in the sidewalk.

The long paving units have tapered ends that comb into planting beds creating a textured, 'pathless' landscape where the public can meander in unscripted ways.

The park accommodates the wild, the cultivated, the intimates, and the social. Access points are durational experiences designed to prolong the transition from the frenetic pace of city streets to the slow otherworldly landscape above.



Photo by © AWR

NEW YORK CITY
UNITED STATES



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PAGE 1 OF 8

Photo by www.territoire.wordpress.com





SITE AREA **

The abandoned railroad that made a park.. that made a neighborhood.. that made a brand.

The High Line didn't appear out of thin air, but thin air played a role in its development. For decades, the High Line had been seen as an ugly obstacle to neighborhood redevelopment. Comprehensive rezoning of the area and provisions to allow the transfer of development rights turned the structure into an asset.

During the construction of the High Line the whole district of Chelsea has undergone a major transformation. Many buildings have been rehabilitated and many are under construction. Hence the idea of this contest, converting a space that is now a parking lot, near the elevated square formed by the High Line's crossing of 10th avenue and 17th street, in a building that represents the new relationship between people and nature.





site area



site area

1432 sqm



Photo by © AWR



Photo by © AWR



FUNCTIONAL PROGRAM *

The competition involves the design of a vertical farm with a residential use and the related reorganization of the environment. The site area covers 1.432 sqm.

The building will include several functions and their connections:

- farm 40%
- mixed residential 40%
- commercial 15%
- services 5%

Services mean areas designed for sports and culture, administrative spaces, etc.

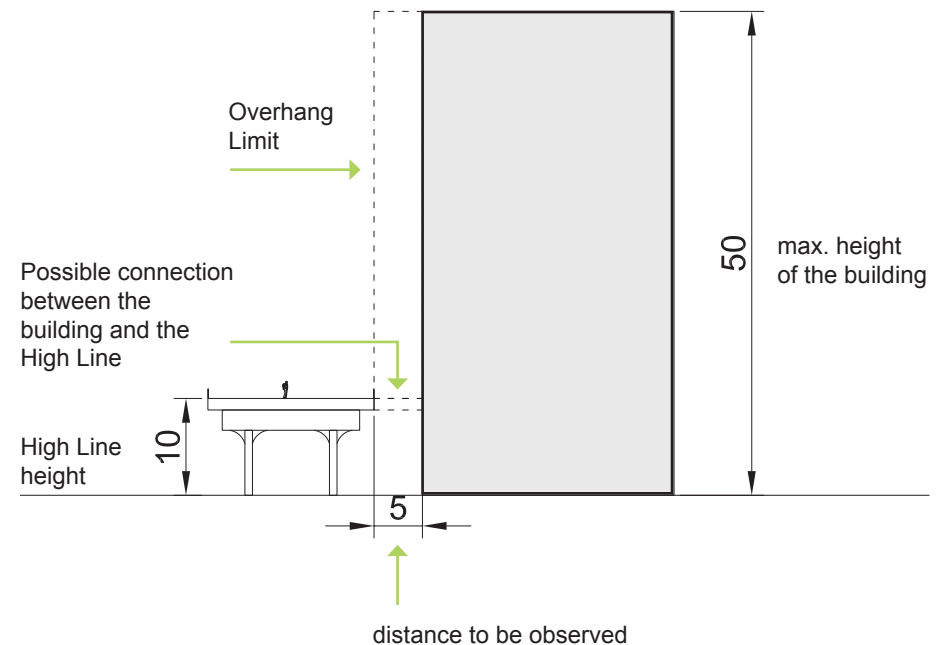
In the spaces dedicated to the farm should be included laboratories, spaces for animals and crops, leisure areas etc.

- **Participants can change or supplement functional program and dimensions if they think it is necessary. Functions and dimensions are approximate.**
- **Height of the building must not exceed 50 mt.**
- **Team can consider empty the site area. Any elements that now is located inside the project area can be considered as well not exist.**

SITE AREA: 1.432 sqm

BUILDING FOOTPRINT: max. 1.165 sqm

TOILETS + CIRCULATION = 30% of Building GFA





building footprint
1.165 sqm

SITE AREA
1.432 sqm

ELIGIBILITY *

Students, architects, engineers, and designers are invited to participate to this competition. Admissions will be accepted for individuals as well as teams. Teams should be made up of no more than five members and can be multidisciplinary.

TEAMS CAN HAVE MEMBERS OF DIFFERENT NATIONALITIES AND, IF STUDENTS, THEY DON'T NECESSARILY HAVE TO STUDY IN THE SAME CENTER.

The registration fee are for teams and not for each participant or member of the team. Each team may submit only one project proposal that corresponds to the amount paid. The submission of more than one project proposal may be made only after the payment of an additional fees.

The projects submitted are considered by the author that logs in to the Site and enter this competition. Every copyright infringement will be punished with immediate disqualification, excluding any compensation for the registration fee.

Signing up at awrcompetitions.com and participating in the contest, you are accepting the "General Rules" and the "Terms of Use" of awrcompetitions.com.

The works reached out of time will be excluded.

Awards are intended for teams, regardless if the participation is by individuals or groups. The prize includes bank commissions and taxes.

IT IS ABSOLUTELY PROHIBITED THE PARTICIPATION TO THE COMPETITION OF A JURY MEMBER, A RELATIVE OR A PERSON OR BODY CONNECTED PROFESSIONALLY TO THE JURY.

PARTICIPATION IN THE COMPETITION IMPLIES FULL ACCEPTANCE OF THESE RULES.



AWARDS *

Prize 5000 €

+ 5 honorable mentions

Each winning project will be published, if possible, on different scientific magazines and on several architecture blogs and websites, national and international. Winners and Honorable mentions will be published on the Website awrcompetitions.com.

Awards are intended for teams, regardless if the participation is by individuals or groups.

The prize includes bank or paypal commissions.

For all other information please see “General Rules” and “Terms of Use” sections on the Website awrcompetitions.com

SCHEDULE **

Nov	15, 2014	Promotional registration
Nov	30, 2014	Promotion registration deadline
Dec	1, 2014	Special registration begins Question period is open
Jan	31, 2015	Special Registration Deadline
Feb	1, 2015	Early Registration begins
Mar	1, 2015	Early Registration Deadline
Mar	2, 2015	Late Registration begins
Apr	2, 2015	Late Registration Deadline
Apr	18, 2015	Project submission deadline
Apr	22, 2015	Jury meeting - Evaluation period begins
May	10, 2015	Winners' announcement

AWARD 5000€

CALL FOR ENTRIES *

Team will be registered between November 07, 2014 and April 02, 2015, and all projects, without any exception, will be delivered no later than April 18, 2015.

Promotional Registration	Nov 15, 2014 - Nov 30, 2014	€ 40
Special Registration	Dec 1, 2014 - Jan 31, 2015	€ 50
Early Registration	Feb 1, 2015 - Mar 1, 2015	€ 75
Late Registration	Mar 2, 2015 - Apr 2, 2015	€ 100

Fees are per team. Once the registration phase is complete, the fee will no longer be refundable under any circumstances; the only exceptions are described in the "Terms of Use" section on the Website www.awrcompetitions.com.



OPEN REGISTRATION
NOV 15, 2014



Photo by © AWR

JURY *

coming soon

REGISTRATION *

You must be correctly registered to the Website awrcompetitions.com to take part to the competition. Once the registration and the payment process has been successfully completed you will receive an email notice by AWR with a confirmation of the enrollment. In the confirmation mail you will receive a registration number which will be the only way of identifying you during the evaluation period. A further test for the correct payment will be the PayPal confirmation email.

THE PAYMENT OF THE REGISTRATION FEE MUST BE MADE EXCLUSIVELY THROUGH THE WEBSITE AWRCOMPETITIONS.COM, ADOPTING ONE OF THE AVAILABLE PAYMENT METHODS AND ACCORDING TO THE ESTABLISHED TERMS.

ONCE THE REGISTRATION PHASE IS COMPLETE, THE FEE WILL NO LONGER BE REFUNDABLE UNDER ANY CIRCUMSTANCES; THE ONLY EXCEPTIONS ARE DESCRIBED IN THE "TERMS OF USE" SECTION ON THE WEBSITE AWRCOMPETITIONS.COM.

By registering to a competition proposed by AWR makes you are implicitly accepting all the terms of use and the official regulations ("General Rules" and "Terms of Use") of the Website awrcompetitions.com.

PAYMENT METHODS **

The payment methods accepted are the following:

PayPal and Credit Card

PayPal is the simplest and safest way to pay online without disclosing the number of your credit card. There is no fixed time frame for the transfer of money. Registration will be confirmed and the code will be sent instantly in order to start the participation. With this payment method no commission fee is applied.

Bank Transfer

If you want to pay by bank transfer please contact us at registration@awrcompetitions.com. The fee corresponding to a specific period should be credited to the account provided by mail by the AWR staff.

Any bank commission will be covered by participants.

Period Fee + Bank Commission = Payable Fee

IF YOU DO NOT RECEIVE THE REGISTRATION NUMBER IMMEDIATELY AFTER PAYMENT, CONTACT US AT registration@awrcompetitions.com

SUBMISSION

NOVEMBER 20, 2014

SUBMISSION REQUIREMENTS *

Entrants must submit their proposal via email no later than:
APRIL 18, 2015 (23:59 GMT +1) to the following email address:
registration@awrcompetitions.com

Each team must send the following material:

- **ONE A1 FORMAT BOARD (841mm x 594 mm) HORIZONTAL FORMAT** with the project. (max. 5 MB) in *.pdf

Name file example: 14arc-u-01_board.pdf

- **A DESCRIPTIVE REPORT A4 FORMAT (29,7 cm x 21 cm) VERTICAL FORMAT** explain the design process. maximum 5 pages, cover included (max 1 MB) in *.doc

Report can include texts and images.

Name file example: 14arc-u-01_report.doc

- **THE OFFICIAL CONTEST form** containing participants personal information (available for download in the download section of www.awrcompetitions.com).

Name file example: 14arc-u-01_personal info.pdf

A clear, concise explanation of the design that intelligently addresses the three key criteria and answers all the relevant questions in the call for entries. Explain the innovation and inspiration behind your idea. You are encouraged to give a unique name to your design.

THE RESOLUTION OF THE BOARDS MUST BE 150 DPI, RGB MODE AND SAVED AS PDF FILES.

THE BOTTOM RIGHT CORNER OF EACH BOARD MUST CONTAIN THE REGISTRATION NUMBER.

ALL THE FILES MUST BE PLACED IN A ZIP FOLDER NAMED AFTER YOUR REGISTRATION NUMBER.

For example: 14arc-u-01.zip

THE BOARD SHOULD NOT CONTAIN ANY OTHER SIGN OF RECOGNITION, IT CAUSES THE IMMEDIATE EXCLUSION FROM THE COMPETITION.

NO ENTRANT SHALL DISCLOSE, EXHIBIT OR PUBLISH THEIR SUBMITTED ENTRY IN ANY FORM OR IN ANY FORUM UNTIL THE

COMPLETION OF THE COMPETITION AND ANNOUNCEMENT OF THE WINNERS. ANY SUCH DISCOURSE WILL RESULT IN IMMEDIATE DISQUALIFICATION.

The official competition language is English. Any note or text must be written English. Any text written in a different language will be ignored. When the registration project deadline is over the automatic system that controls the delivery of the projects will be closed and it is not possible anymore to deliver the project.

TEAMS WHO DO NOT RESPECT ALL THE REQUIREMENTS IN THE BRIEF, FOR THE DELIVERY OF THE MATERIALS, WILL BE IMMEDIATELY DISQUALIFIED.

JUDGING CRITERIA *

Proposal will be evaluated the ability to interpret the complexity exposed in the competition brief and the approach to the particular urban and cultural background of New York City.

The proposed solutions will be evaluated according to architecture quality, social and architectural features and technology.

The participants are especially invited to submit photorealistic renderings that represent in a best way the integration between the new project and the existing context.



The jury reserves the right to exclude from the evaluation phase the projects that do not meet the criteria mentioned in the competition.

The jury's decision is final, faultless and sovereign in order to determine the winning projects according to the evaluation methods used previously.



NOTES *

All the material submitted to the contest will become the property of AWR. AWR will therefore keep all the rights to publish this material in order to promote the competition. By submitting a proposal, AWR will be authorized to use the material for the publication of the project in both print and digital editions, always referring to its author/s. AWR keeps the right to modify any information in its files in order to better adapt it to any book or magazine format.

AWR staff reserves the right to change dates, deadlines, requirements, regulations and contents of the competition taking place. The changes will be effective from the date of their publication on the Site. Participants will be informed via email. AWR staff assumes no liability for correct receipt of emails from the participants.

Project proposals are only for a single contest, which means that they are fictitious projects and the regulatory restrictions may be disregarded.

No private or public sector has encouraged AWR - Architecture Workshop in Rome which remains an independent and free organization.

None of the sponsors or co-workers have an interest in promoting competition in place.

Signing up at awrcompetitions.com and participating in the contest, you are accepting the “General Rules” and the “Terms of Use” of awrcompetitions.com

AWR - Architecture Workshop in Rome does not assume any responsibility for any access problem, failure, malfunction or difficulty with technical instruments, computer, phone line, transmission and connection, the Internet connection that can prevent a competitor from the competition, for reasons independent from Association.

PARTICIPATION IN THE COMPETITION IMPLIES FULL ACCEPTANCE OF THESE RULES.

FAQ **

FAQs all about the competition can be submitted from the first day until the date specified on competition schedule.

Participants are invited to submit their own doubts and questions. AWR's staff will respond as quickly as possible.

FAQs regarding the competition will be submitted through social networks (Facebook fanpage) or by contacting us at info@awrcompetitions.com.

Adhesions in social networks are possible through the links on the Website www.awrcompetitions.com.

Step 1 site registration begins



Step 2 Choose and enter your username and password



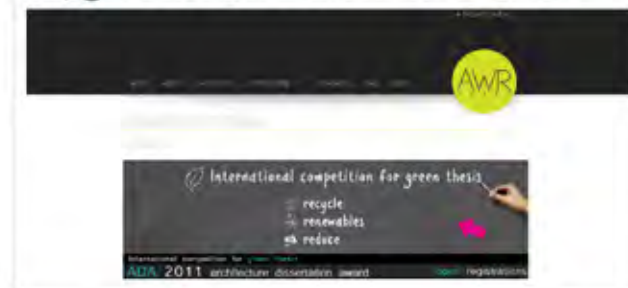
Step 3 compile the required fields of the registration form



Step 4



Step 5 click on the image of the competition to which you want to participate



Step 6 for the payment, click on Payment



SIGN UP!
HOW TO JOIN
AWR WEBSITE

AWR - ARCHITECTURE WORKSHOP IN ROME
www.awrcompetitions.com
info@awrcompetitions.com



WITH THE PATRONAGE OF *



MEDIA **



ACKNOWLEDGMENTS ***

All jury members and scientific committee. Dipartimento di Architettura - University of Ferrara_Italy. DaveLab.