

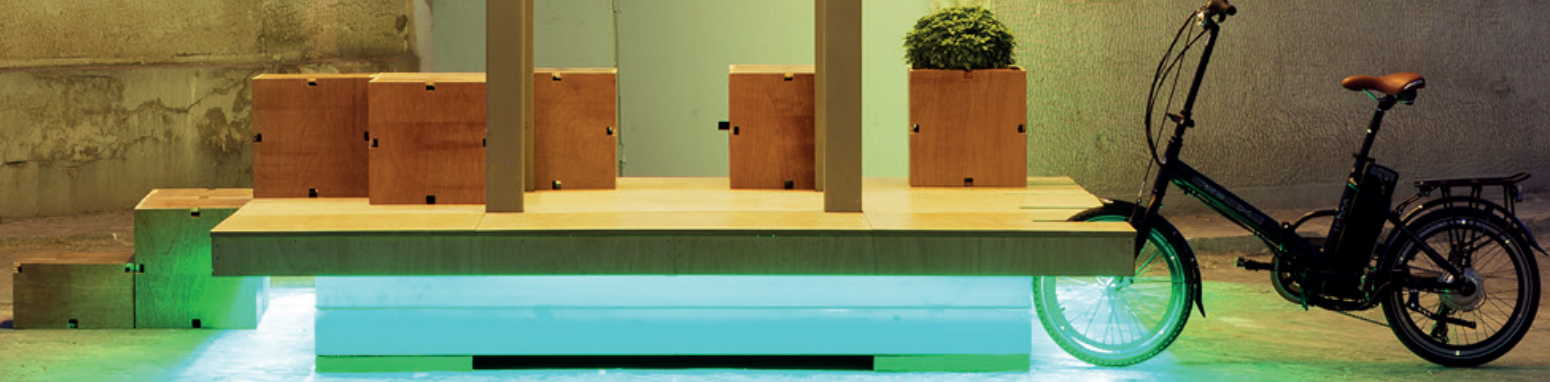


# AKTINA\*

a new productive urban furniture



a solar  
& sustainable mobility  
project by  
CITY INDEX LAB & ENERGIZE



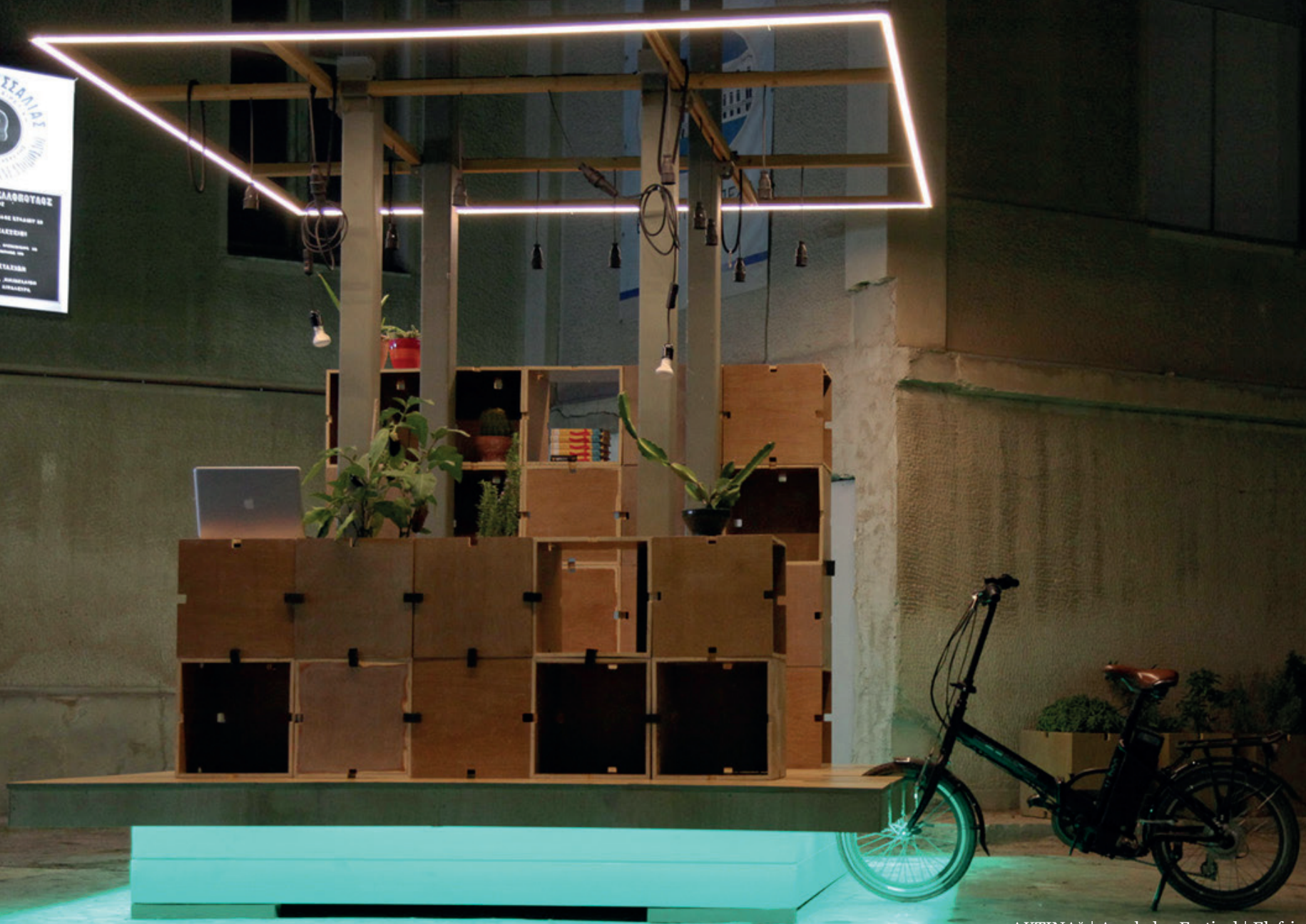
## AKTINA\*

is a new productive urban furniture, which sustainably produces and stores electric power that is supplied to end-users, for recharging mobile e-gadgets and electric bicycles. In the era of digital communication and virtual relationships, the project invites city dwellers to celebrate the enhanced open air public space, by meeting and working in its sitting space, equipped with electricity, lighting and WiFi infrastructure. AKTINA\* proposes the distribution of small-scale, stand-alone, open-access stations in the urban or other landscapes. Those dynamic networks aspire to cover everyday energy needs in public space and raise further awareness on environmental issues. The project is based on some already existing technologies, such as solar energy production systems, electric bicycles, bike sharing systems and WiFi technology.



AKTINA\* | Aeschylus Festival | Elefsina, GR 2012

ΣΑΠΟΝ ΜΑΣΣΑΛΙΔΕΣ  
ΚΑΡΙΑΔΟΣ Α. ΚΑΝΔΑΦΟΤΑΟΣ  
ΑΠΟΤΥΠΩΣΗ ΕΝ ΕΡΓΩΝ, ΠΑΡΕ ΟΥΚΑΝΤΙ ΕΝ  
ΕΡΧΕΣΤΑΙ ΕΝ ΕΑΥΤΩΙ  
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ΕΡΧΕΣΤΑΙ ΕΡΧΕΣΤΑΙ



AKTINA\* | Aeschylus Festival | Elefsina, GR 2012

In order to measure the project's impact and capacity, a fully functional, 1:1 scale prototype was constructed and several test runs have been designed. So far, it has been installed in two different locations; firstly in Elefsina, GR (2012), within the context of "Aeschylus" annual cultural festival, where visitors were able to use it, learn its concepts and get further involved, by rearranging its multifunctional wooden cubes, or by test-riding the offered e-bikes. A second test run is currently conducted, after an invitation by the National Museum of Contemporary Art (EMST). The prototype has been reinstalled at the centre of Athens, GR (2013-1014). Now it functions 24/7, in a more open and public space, i.e. the front yard of the National Hellenic Research Foundation. The prototype tests the functional capacities of AKTINA\*, through daily data collection, in order to monitor energy production and consumption. Moreover, its social impact is also measured, through constant observation, social events organisation and several interviews with random users.



AKTINA\* | National Hellenic Research Foundation | Athens, GR 2013 -



AKTINA\* | Aeschylus Festival | Elefsina, GR 2012  
educational programme for school kids



AKTINA\* | National Hellenic Research Foundation | Athens, GR 2013  
open-air 3d printing sustainable lab



AKTINA\* | National Hellenic Research Foundation | Athens, GR 2013  
urban pic nic

The project's ideas 'travel abroad', as AKTINA\*MINI, a 1:4 scale model constructed to be presented in IABR 2014 Urban by Nature biennale exhibition, which (June-August 2014) took place in Kunsthal, Rotterdam, NL. The model shows not only AKTINA's\* form and structure but also the projects's basic functional principals. Thus, the installation contains a small-scale PV panel, which by getting power from a brooder heat lamp -the 'indoor sun'- generates movement to a single wheel, also part of the installation. The wheel abstractly represents e-bikes and all the potential devices AKTINA\* can recharge. A 3d-printed cloud, constitutes a playful additional element of the exhibit; visitors can place it close to the light source and watch the effect of making the wheel to stop, as it would have 'get cloudy' in the indoor exhibition space. AKTINA\*MINI constitutes a diagrammatic representation of the project, which tries to engage visitors of all ages, to a simple but playful interaction with the model.



This smaller but functional version of the project, is currently exhibited at Adhocracy exhibition at Onassis Cultural Centre of Athens (May-July 2015), in order to convey its ideas to a wide greek and international audience. At the same time, the 1:1 AKTINA\* installation is accessible and fully functional in the open-air public space of Athens (works 24/7, at 48, Vassileos Constantinou av., Athens, GR).

AKTINA\* 1:1 installation  
app. dimensions: 280X280X450cm.  
app. weight: 1500kg.  
app.cost: 18.000EUR

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## Adhocracy [Athens] From making things to making the commons

29 April - 5 July 2015  
Daily 12:00-21:00