

TALK *of the* TOWN

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Storm-resilient school



Perspective

THE IMPACT of climate change is slowly redefining today's architecture and design toward resiliency and sustainability.

One of the four winning teams in "Designing Resilient Schools," a massive open online course (MOOC) on iversity (a European-MOOC platform), uses bamboo as the main element of its design. The design is for a proposed high school in Guiuan town in Eastern Samar, where Supertyphoon "Yolanda" (international name: Haiyan) first made landfall on Nov. 8, 2013.

Yolanda destroyed close to 6,000 classrooms and damaged more than 14,500 classrooms in more than 2,900 public elementary and 470 public high schools in four regions.

The New York-based Open Online Academy (OOA) produced Designing Resilient Schools to crowdsource architectural projects for storm-resilient schools to help typhoon victims.

OOA founder Ivan Shumkov of Harvard Architectural and Urban Society and Illac Diaz of Architecture for Humanity in the Philippines served as instructors in the recently concluded course.

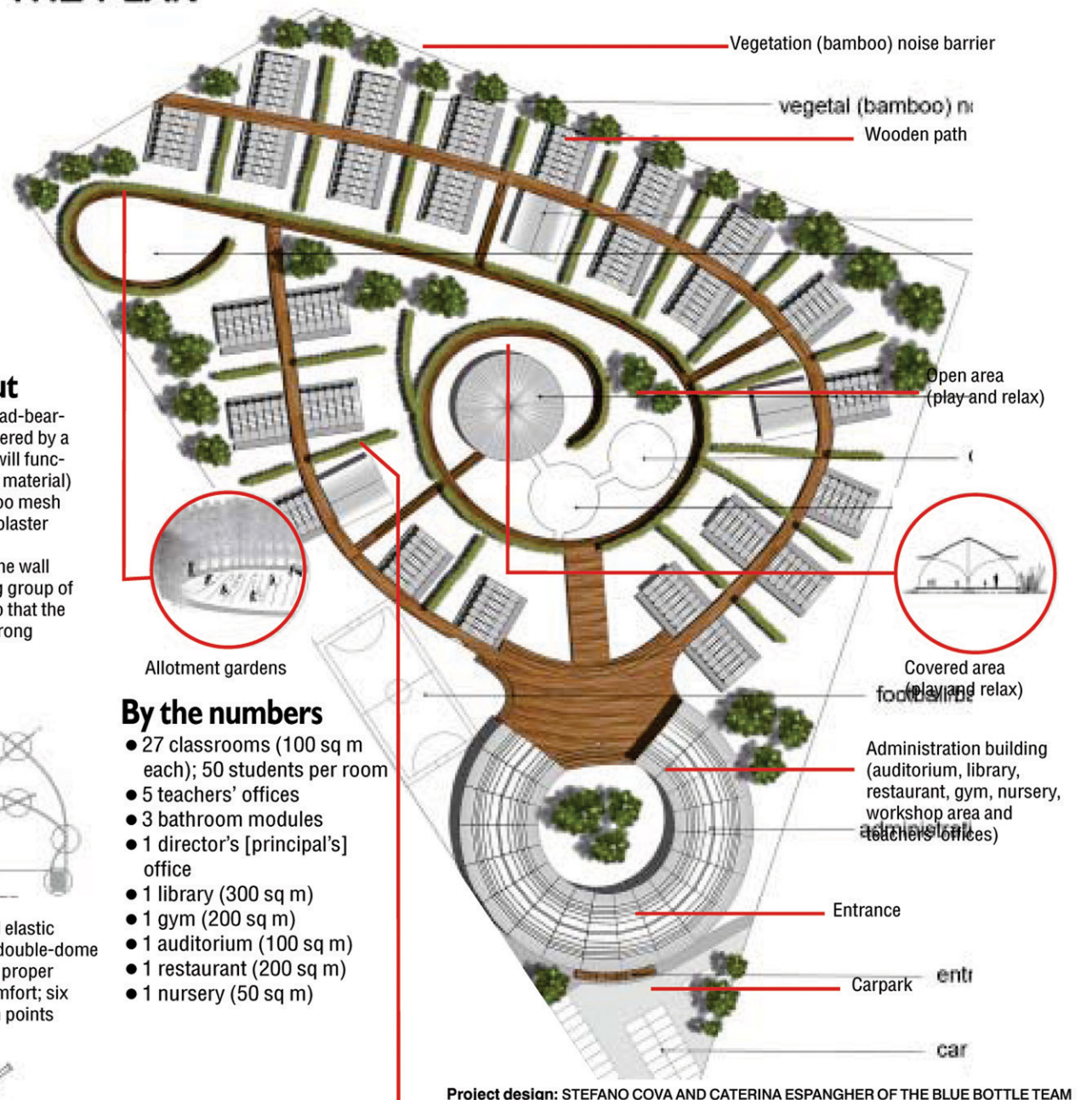
The course attracted people from around the world, including architects, urban planners, other professionals and students, who were asked to come up with designs for resilient schools that could serve as community centers for typhoon victims. Talk of the Town audited the course.

The winning design featured here was submitted by the Blue Bottle Team composed of architects Stefano Cova and Caterina Espangher of Trieste, Italy. Due to space constraints, Talk of the Town was not able to use other elements of the design for this issue.

Maricris Irene V. Tamolang

Plan and components

THE PLAN



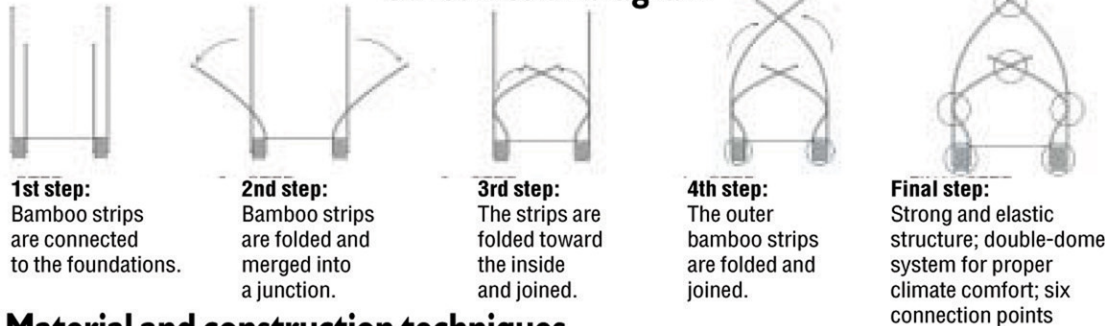
Classroom in case of disaster (perspective)

Classroom layout

THE WALL consists of a load-bearing bamboo structure, covered by a double layer of mud (that will function as a natural insulating material) and completed by a bamboo mesh on the external side and a plaster layer on the inner side.

Bamboo beams cross the wall and join the corresponding group of beams on the other side so that the structure can withstand strong gusts of wind.

Construction diagram



Material and construction techniques

