

Latin America's Renewable Riches LatAM INVESTOR



Tensions Home and Abroad ETF Global



SPONSORED FINANCIAL CONTENT dianomi



Do you have the skills you need to compete and win on innovation? HBS Executive Education

Close

HORIZONSARCHITECTUREImage: O August 14, 2014Could floating shipping containers help sort out the world's slums?By Barbara Speed



The interior of the first completed City App. Image: Waterstudio.NL.

"What if a city was as flexible as a shuffle puzzle?" Koen Olthuis asked in his 2012 TEDx talk. He was referring to those games in which you move squares around until you make a picture. At the time, his audience probably didn't realise he was serious.









Tensions Home and Abroad



SPONSORED FINANCIAL CONTENT dianomi



Do you have the skills you need to compete and win on innovation? HBS Executive Education

In June, the first piece of Olthuis' shuffle puzzle was completed: an educational suite which will double up as an internet cafe in the evenings, all powered by solar panels on its roof. It's been built inside a shipping container, to makes it easy to transport; a base constructed from thousands of plastic bottles collected by slum residents will be added once it reaches its destination.

It's due to be shipped out to a slum in Manila in the autumn. Here's the architect's mock-up of the city app in situ:



Olthuis' interest in water-based construction was inspired partly by his home country: around half the Netherlands lies below sea level, and massive amounts of water are pumped away daily to keep the country high and dry. But it's not the low countries that could benefit most from this kind of architecture: it's the rapidly growing and slum-packed cities of the developing world, and wet slums – those edging onto bodies of water, and so at risk of rising sea levels – were forefront in Olthuis' mind when he came up with the idea:

"They're some of the hardest areas to help, because they're so close to the water," he says. "People are unwilling to invest in development that could flood, or just wash away." His hope is that these City Apps could help change that: the units they would rise with sea levels if an area floods, and could be moved elsewhere if necessary. This first app was funded by the prize money from the 2012 Architecture and Sea Level Rise Award, the studio and other sponsors; in future, the studio is hoping to build them then lease them out to NGOs and development agencies for a low monthly cost.

There's a case for helping the world's 1.1bn slum dwellers to more permanent settlements, rather than just improving the slums, of course. But in Olthuis' view, "slums aren't going to go away, so the only thing we can do is upgrade thei prosperity". There are a few creases to iron out first, though – at the moment, the studio may have to pay tax on **Carsponies** Annila app, and are meeting with embassies to try and avoid this "real waste of money".