



## **Momentum for Change: Women for Results Category**

### **Nature-Based Solutions to Increase Urban Adaptability**

#### *Thailand*

As a landscape architect, Kotchakorn Voraakhom established the [Landprocess](#) and [Porous City Network](#) to build innovative landscape solutions for urban resilience in Bangkok. Her firm has equipped the city with public green space and nature-based solutions to increase the city's resilience, reduce flood risk and improve the well-being of its citizens. For the first time in 30 years of rapid urban development, 11 acres of property in the heart of Bangkok was transformed into a public park. Opened in 2017, Chulalongkorn Centenary Park is the first critical piece of green infrastructure in Bangkok to reduce urban flood risk. With on-site water management, the park can collect, treat, and hold up to one million gallons of water, alleviating overwhelmed public sewage during heavy rainfall. In addition to being Bangkok's first park in 30 years, it was also the first city public park led by a female landscape architect.

#### **Key facts**

- By sitting on a 3-degree angle, Chulalongkorn Centenary Park collects rainwater from its green roof, which can slow down runoff up to 20 times more than regular concrete surfaces.
- Some of the water is stored in underground tanks and the rest is sent through a series of ecological components, including a detention lawn and wetlands which filter, aerate, and purify the water. Finally, the water flows down to the retention pond--capable of doubling in size to handle severe floods--where it completes the cycle, now available for its irrigation and distribution to surrounding facilities.
- The Thammasat Urban Rooftop Farm, now Asia's biggest, repurposed 236,806 sq. ft. of abandoned concrete roof space to grow crops.
- The Chao Phraya Sky Park, built from the city's abandoned infrastructure, became the first realized bridge park, across a river, in any capital city in the world.

#### **More information**

Digital assets are available for download at <http://bit.ly/2020-global-climate-action-awards>



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#### **Project Contacts**

Kotchakorn Voraakhom | [Kotch@porouscity.org](mailto:Kotch@porouscity.org)

#### **UN Climate Change Contact**

Sarah Marchildon | [smarchildon@unfccc.int](mailto:smarchildon@unfccc.int)