

The Guardian

Fast-growing mini-forests spring up in Europe to aid climate

13 June 2020



A Miyawaki forest being planted on the outskirts of Paris, France. Photograph: Courtesy of Boomforest

Miyawaki forests are denser and said to be more biodiverse than other kinds of woods

Tiny, dense forests are springing up around Europe as part of a movement aimed at restoring biodiversity and fighting the climate crisis.

Often sited in schoolyards or alongside roads, the forests can be as small as a tennis court. They are based on the work of the Japanese botanist Akira Miyawaki, who has planted more than 1,000 such forests in Japan, Malaysia and elsewhere.

Advocates for the method say the miniature forests grow 10 times faster and become 30 times denser and 100 times more biodiverse than those planted by conventional methods. This result is achieved by planting saplings close together, three per square metre, using native varieties adapted to local conditions. A wide variety of species – ideally 30 or more – are planted to recreate the layers of a natural forest.

Tiny, dense forests are springing up around Europe as part of a movement aimed at restoring biodiversity and fighting the climate crisis.

Often sited in schoolyards or alongside roads, the forests can be as small as a tennis court. They are based on the work of the Japanese botanist Akira Miyawaki, who has planted more than 1,000 such forests in Japan, Malaysia and elsewhere.

Advocates for the method say the miniature forests grow 10 times faster and become 30 times denser and 100 times more biodiverse than those planted by conventional methods. This result is achieved by planting saplings close together, three per square metre, using

native varieties adapted to local conditions. A wide variety of species – ideally 30 or more – are planted to recreate the layers of a natural forest.



A three-year-old forest in Ormeignies, Belgium. Photograph: Urban Forests

The first in France was planted in March 2018 beside a busy four-lane road on the edge of Paris. The dense thicket was intended to reduce noise and filter air for the adjacent neighbourhood. On the day of planting, 40 people gathered with 31 species of saplings to bring new life to ground that had been prepared with compost from local horse stables.

Two years earlier, Enrico Fusto and Damien Saraceni had applied for funding from Paris's participatory budget, a scheme that asks residents for ideas about how to spend 5% of the city's funds. The pair proposed mini-forests, saying they could help increase the level of tree cover in the city, which is currently less than 10%, much lower than many other major cities. "Each community can be the protagonist of its own restoration story," said Fusto.

In Toulouse, a mini-forest group planted 1,200 saplings on a 400 sq metre patch in March.

Nicolas de Brabandère, a Belgian naturalist and founder of Urban Forest, began planting Miyawaki-style forests in 2016, organising volunteers and local authorities to plant 300 saplings on a grassy strip of land near a road. Now his first forest is 3 metres tall, its floor a thick layer of humus.

De Brabandère believes the participatory nature and speed of a mini-forest is what appeals to people, and he predicts a bright future for the movement. "Every time I tell the story, everybody likes it," he said. "So I have a good feeling the trend will continue."

Source: <https://www.theguardian.com/environment/2020/jun/13/fast-growing-mini-forests-spring-up-in-europe-to-aid-climate>