Close to nature forestry for peri-urban pine forest

Location: Kyiv Region, Boyarka Forest Research Station Managed **Forests** Length: 1,3 km

Number of visitors:

Duration:

students

Type of visitors: Scientists State Forestry Enterprise

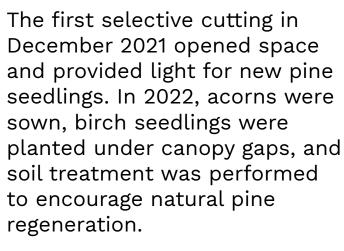








Close-to-nature forestry enhances biodiversity, adapts forests to climate change, and boosts productivity. A pilot project near Kyiv city will transform an 80-year-old monoculture pine forest into a diverse, resilient woodland ecosystem. Initially planted in 1934 with 1.5 x 0.5 m spacing, the forest will become a mixed stand: 70% pine, 20% oak, and 10% birch. An understorey of apple and mountain ash trees will attract biodiversity, creating a sustainable and vibrant ecosystem and recreationally appealing forest.







regenerating pines and

Trees with large nests, hollows showing signs of bird or bat younger trees will ensure an occupancy, woodpecker activity, uneven-aged structure and and single trees used by prey diverse spatial distribution. birds have been preserved to The admixture of broadleaf ensure a biodiversity-friendly species will reduce fire risk and approach. On the site, you can see and hear the singing enhance the stand's resilience blackbird, black warbler, great tit, eastern nightingale, etc.



Mammals include European roe

deer, gray hare, and common fox.



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"Recognizing that our decisions today will shape forests for decades, it's vital to act responsibly, mindful of future generations. The most important takeaway is that investing in nature-based solutions today is a forward-thinking strategy that saves money in the long run by ensuring forest resilience. By adopting these practices now, we are proactively addressing the challenges posed by climate change and biodiversity loss, which in turn reduces future costs associated with forest restoration and disaster management. This proactive investment is not only economically sound but also vital for the health and sustainability of our forests for future

generations."

"Existing regulations on close-tonature forestry do not cover all aspects of practical implementation. This visit offered a valuable opportunity to discuss various challenges and perspectives with the experienced team at Boyarka Forest Research Station. We identified the **need for** legislative amendments to better support these practices. Creating a conducive environment for scaling up such climateresilient forestry practices is crucial. "



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"Exploring practical pilot sites allowed me to discuss challenges with practitioners on implementation such NbS as close to nature forestry. Collecting region-specific knowledge is crucial for developing relevant guidance and methodological approaches. While Ukrainian foresters have some experience with close-to-nature forestry in the Carpathians, it is still in its early stages for pine forests. This visit inspired me to undertake more experimental work and document all practical findings. "

> "I felt inspired and hopeful after witnessing the practical application of close-to-nature forestry. Seeing the ongoing transformation reinforced my belief in the potential of nature-based solutions to address environmental challenges. The key takeaway from the visit is the importance of biodiversity in creating resilient forest ecosystems. Observing the practical steps taken to encourage natural regeneration and the careful planning involved in selective cutting stimulated me to learn more about this type of NbS. "



Oleksandr Scientist

"The main takeaway is the importance of integrating biodiversity into forest management practices. The move from a monoculture pine forest to a mixedspecies stand showcases how we can create more resilient and productive ecosystems through thoughtful species selection and forest structure planning. This visit has significantly deepened my understanding of NbS. The handson experience has highlighted **the** importance of adaptive management

and continuous learning. These learnings will inform our policies and strategies, helping to create a more supportive regulatory environment for scaling up such climate-

resilient practices. "



"Close-to-nature forestry offers a valuable opportunity to adapt to climate change while meeting wood demand. More importantly, it ensures biodiversity conservation by retaining deadwood, preserving hollow trees, and generally avoiding clear-cutting practices.

This approach fosters a healthier and more resilient forest ecosystem. All these features make close-to-nature forestry a nature-based solution."

"In our study process, it is essential to combine theoretical knowledge with practical experience This field visit inspired me to overcome what I have already learned. Both "close-to-nature forestry" and "nature-based solutions" emphasize that **nature** offers abundant knowledge and tools; we just need to learn how to use them effectively. "

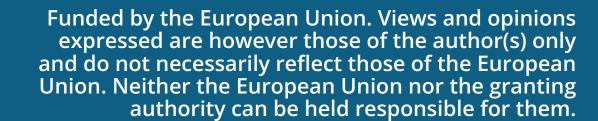


Student



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