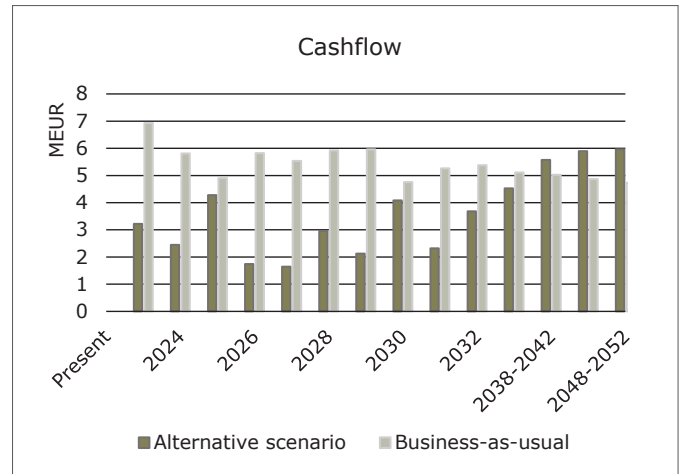


Forest carbon scenario analysis

1.3 MtCO ₂	Additional forest carbon stored by altering forest management from business-as-usual (BAU) during the next 30 years in forests covering some 24 503 ha of forest land.
6.2 €/tCO ₂	Cost per additional tCO₂ stored in tree biomass and forest soil by decreased net present value resulting from altering forest management relative to BAU.
-0.2 MtCO ₂	Decrease in carbon stored in wood products by changing forest management from BAU to the alternative path.



CARBON STORED IN FOREST

During the following 30 years **1 353 264 additional tCO₂** is stored in forests relative to BAU at a total cost of 6 752 211 € (-6.6%), measured as a decrease in net present value between the management scenarios.

FOREST MANAGEMENT SCENARIOS

The **BAU** scenario was defined by the client based on their current management practices, while the **alternative scenario** was defined to extend rotation lengths, apply continuous cover forestry and increase forest growth by fertilisation.

METHODOLOGY

Biomass carbon storage is estimated by applying Motti forest growth model developed by the Natural Resources Institute Finland.

Soil carbon storage on mineral soils is modelled with Yasso15 model by the Finnish Meteorological Institute.

Carbon emissions and storage in harvested **wood products** are modelled based on the latest available statistics and relevant research.

