

# Case Studies: How ICT is helping to deliver the low carbon economy

**Title: Mobile Management of wood procurement supply chain**

**NOKIA**

**Company: Nokia**

<b>Summary of what has been achieved:</b>	<b>Efficiency improvements in the wood procurement process</b>
<b>Parties involved:</b>	<b>Nokia and Stora Enso</b>
<b>Sector/s:</b>	<b>Forestry</b>
<b>Approx scale:</b>	<b>Wood procurement chain between the forest and the pulp mill</b>
<b>Outcome:</b>	<b>More efficient logging and wood transportation</b>

## **Key Objectives**

Improving the efficiency of logging and wood transport with the help of a real-time information system.

## **Description**

Stora Enso is a company producing paper, packaging and forest products.

Stora Enso's wood logging areas in Finland are connected to the pulp mills through an information system based on GSM, GPRS and GPS. This system stores every area's own wood procurement targets and forecasts together with the wood orders from the pulp mill and the details of logging and transportation programs. Using GSM and GPRS, forest entrepreneurs not only get logging programs, instructions and target distribution for timber assortment from the information system but they also enter logged and hauled amounts of wood and the coordinates of wood trucks from the truck drivers.

Based on this information, the system performs real-time operational stock accounting, updates the logging program and devises transportation plans for wood trucks. It sends the updated information to forest entrepreneurs and truck driver and also sends a transportation plan to the mill, as well as an advance notice about the trucks coming to the mill. The transportation plan is updated 2 times per week.

## **Environmental Benefits**

The use of ICT in forest machines and trucks means fewer empty drives, lower environmental impact, smoother processes, and significant savings of time and resources.

## **Scope for further work**

Similar systems could be applied to improve the efficiency of logistics in other industries as well.