UPM'S FOR-IT SYSTEM IN WOOD SOURCING

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AIMING HIGHER

WITH BIOFORE

FOR-IT is ERP solution for UPM Wood Sourcing and Forestry

The Biofore Company **UPM**

- **Wood Sourcing** in Finland is delivering 19 million m3 wood and 2,5 TWh forest energy wood to UPM and 3rd party mills annually
  - 650 employees and 120 locations in Northern Europe
  - 25.000 purchasing contracts from private forest owners in Finland
  - Over 160.000 forest owners in FOR-IT
  - >300 contractors with >1800 trucks, harvesters, forwarders and other machinery
    (18 million m3 = 1000 truck loads every day)

- **Forestry Business** is managing UPM owned company forest and creating value for UPM from its forest property and providing value added forest service to other forest owners
  - 640.000 hectares of UPM owned forest property
  - >1.000.000 hectares of forest property from other forest owners

- **Wood Sourcing CE** is part of Paper ENA and responsible for delivering wood to UPM and 3rd party mills in Central Europe
  - About 100 employees

- ➤ Global solution for different forest functions from stump to mill

- ➤ Centralized and integrated solution – one system and one database
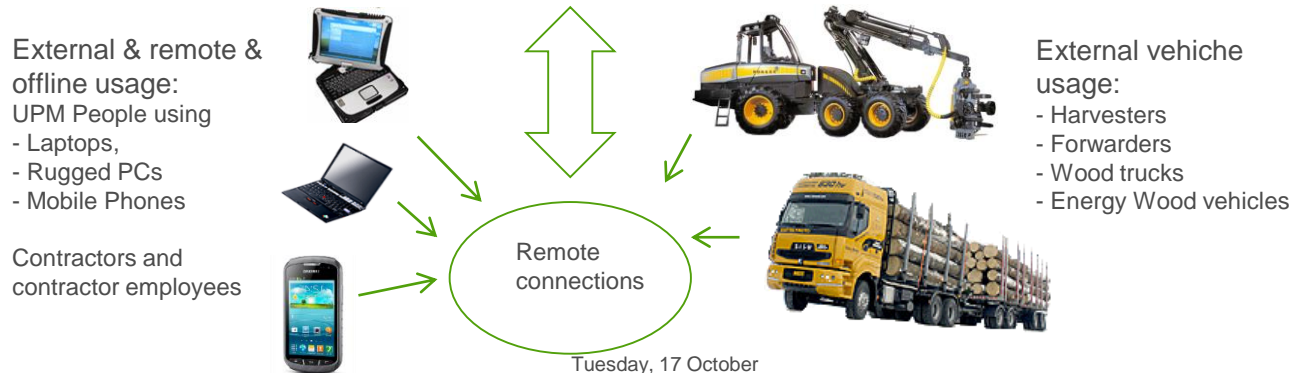
- ➤ For-It application owned by UPM

FOR-IT System usage

Internal usage:
- UPM Wood Sourcing and and Forestry organisation incl. Mill Measurement
- now Finland, Russia, Baltics, Austria, Germany

UPM Network

Internal usage with:
- Laptops
- Rugged PCs
- Citrix workstations
- Callipers
- Mill Measurement devices

FOR-IT System

Users:
- over 1000 UPM users
- over 800 contractors´ people and other external users
- over 2000 harvester-, forwarder- and forest truck drivers
- over 100 UPM Silvesta forest workers

External & remote & offline usage:
UPM People using
- Laptops,
- Rugged PCs
- Mobile Phones

Contractors and contractor employees

Remote connections

External vehiche usage:
- Harvesters
- Forwarders
- Wood trucks
- Energy Wood vehicles

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FOR-IT is:
Global solution for different forest functions from stump to mill

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Forestry and Land Management

- Forest assets
- Forest valuation
- Forest planning
- Forest roads and ditches
- Silvicultural operations
  - Work orders
  - Receipts
  - Payments for contractors
  - Invoicing
  (Tiliportti software in mobilephones)

- Loggings in company forests,
- Tree nursery operations
- Land and estates, contracts and deals of estates and land use

Wood trade

Private Wood trade
- Private forest owners data
- Master data
- Purchase planning
- Purchasing, contracts
- Measuring and payments to forest owners

B-2-B Wood trade
- Customer's data
- Import & Company Wood trade
- Purchasing & Selling contracts
- Payments

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Logistic

– **Contractor's basic data**
  • **Contracts**
  • **Tariff**
  • **Machines and Truck's basic data**

– **Master data**
– **Harvesting**
  • **Scheduling**
  • **Receipts**

– **Transporting**
  • **By Truck**
  • **By Train**
  • **By Vessel**
  • **By Floating**

– **Online Storages bookkeeping**
– **Payments**

Contractor's Service
  • **Key Contractor can use FOR-IT system via Internet**
  • **Harvesting and transport planning, Payments, Reports etc**

Mobile software's
  • **Mekogis software is used Harvesting and Forwarding machines**

  • **Autogis software is used Truck's**
    - **Pre Cor's**
    - **Truck Cor's**
    - **Train Loading etc.**

Mill Measurement

– **Measurement**
  • **Scale based measurement for:**
    – **Trucks,**
    – **Trains**
    – **Vessels**
    – **Floating**

– **Log meter measurement on Sawmills**
  • **X-ray & Laser**

– **Measure receipts and reports**
  • **Wood yard operations, samples, measurement parts works unloading machines computer's**

– **Quality Control and feel back**

Planning of demand and supply, management of storages, forecasting of mill prices & Reporting cover hole processes from Forest to Mills

UPM

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