# COILLTE

GROW·TRANSFORM·SUSTAIN

# Satmodo – Timber Harvesting Technology

**Forest Innovation Workshop   -   26th April 2018**
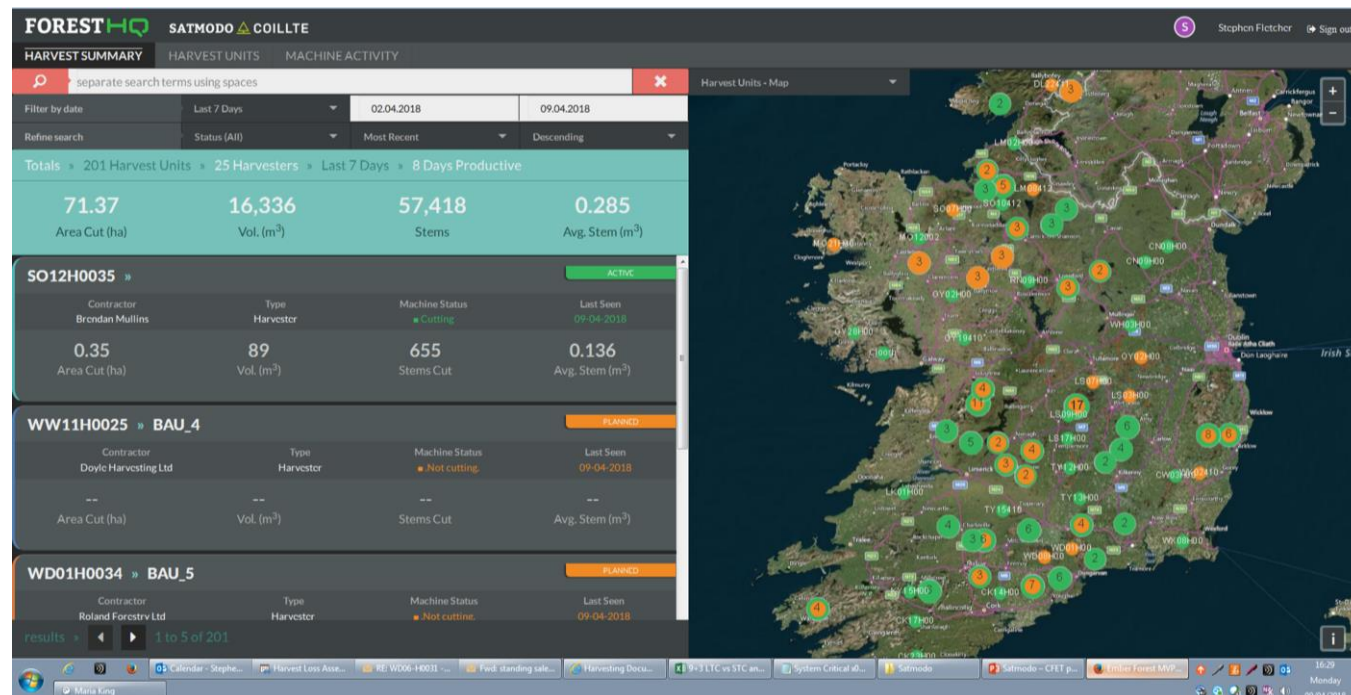
# 1. Background



## DEVELOPMENT

- **Single Telemetry Platform**
- **Partner – Treemetrics & European Space Agency**

## MACHINE

- **Onboard Tablet & Display**
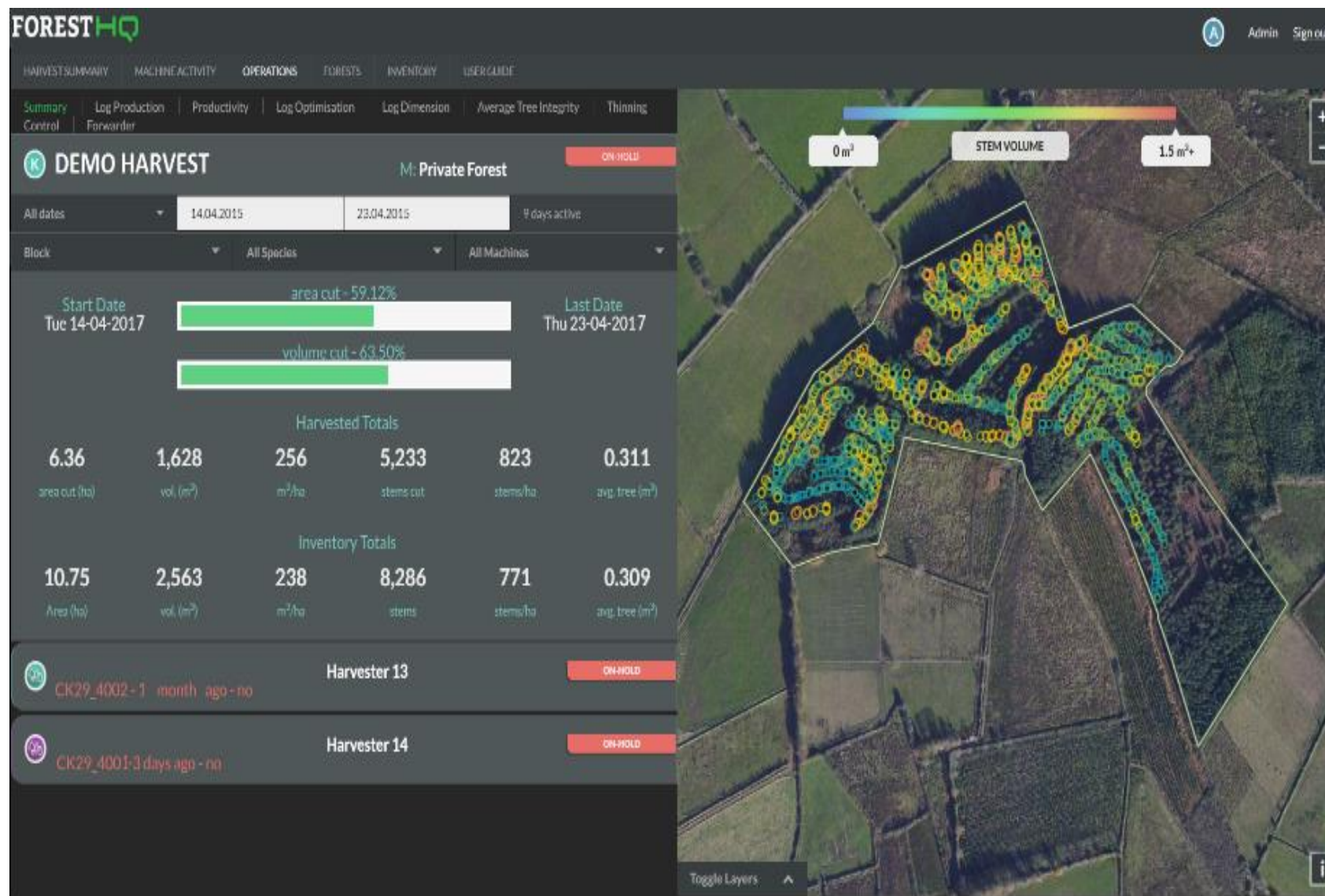- **Integrated with Harvester Data**
- **Satellite Based Comms**

## OFFICE

- **Real Time Data**
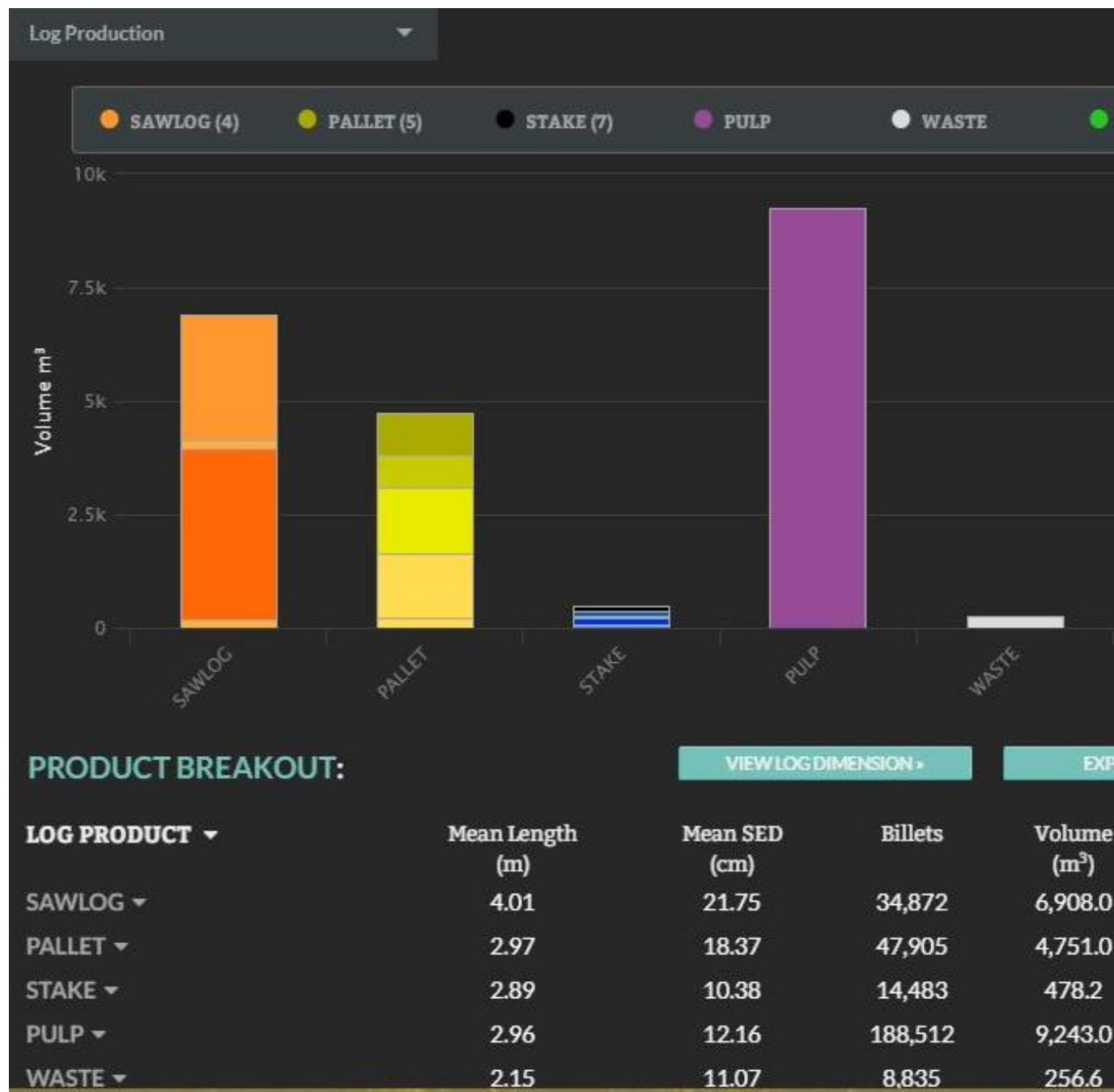- **Data Analytics**
- **Informed Decisions & Alerts**
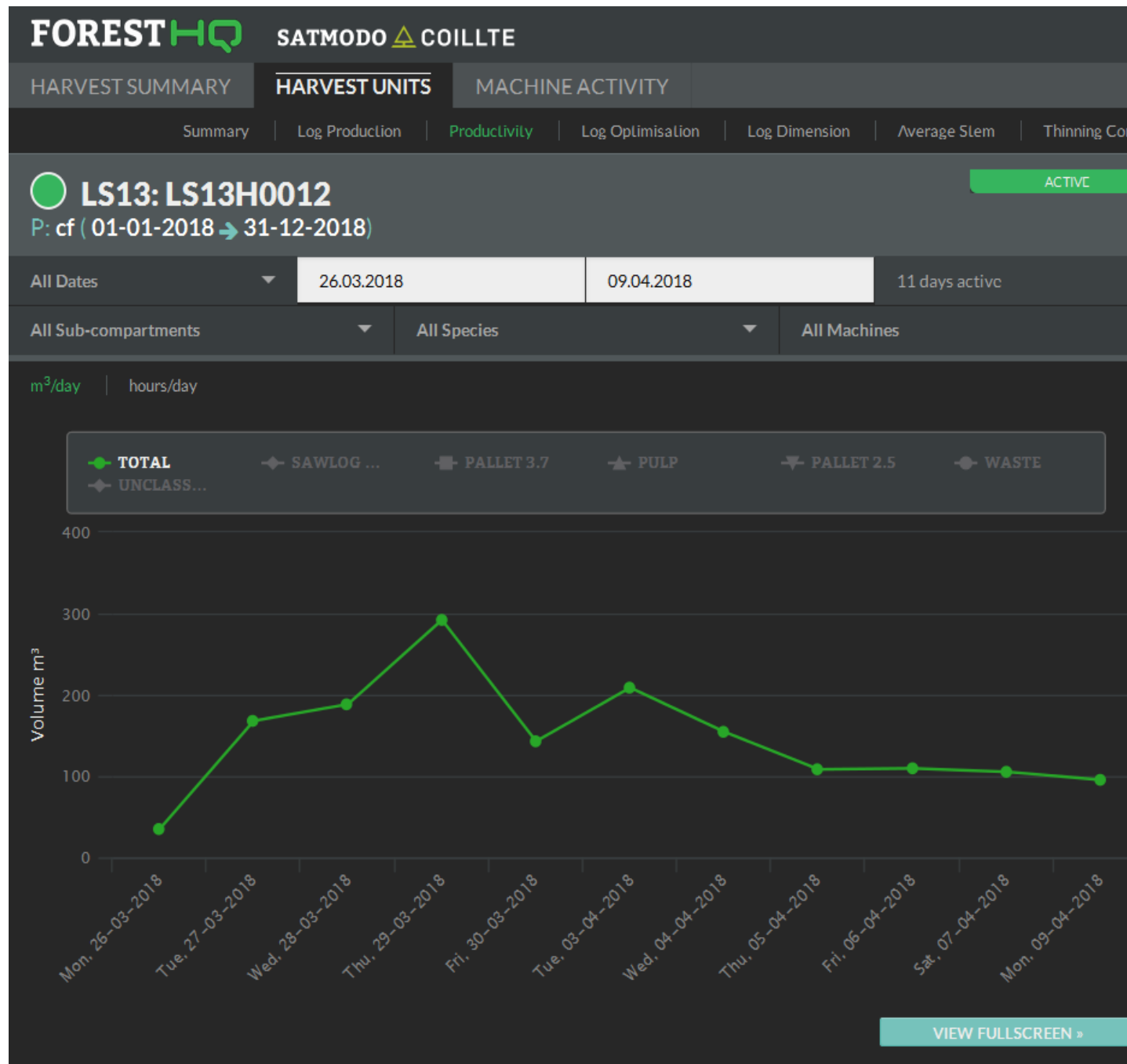
# 2. Site Management



- **Desktop Management**

- **Progress at a Glance**

- **Location of Machines**

- **Alerts & Issues**

- **Ask the Right Questions**
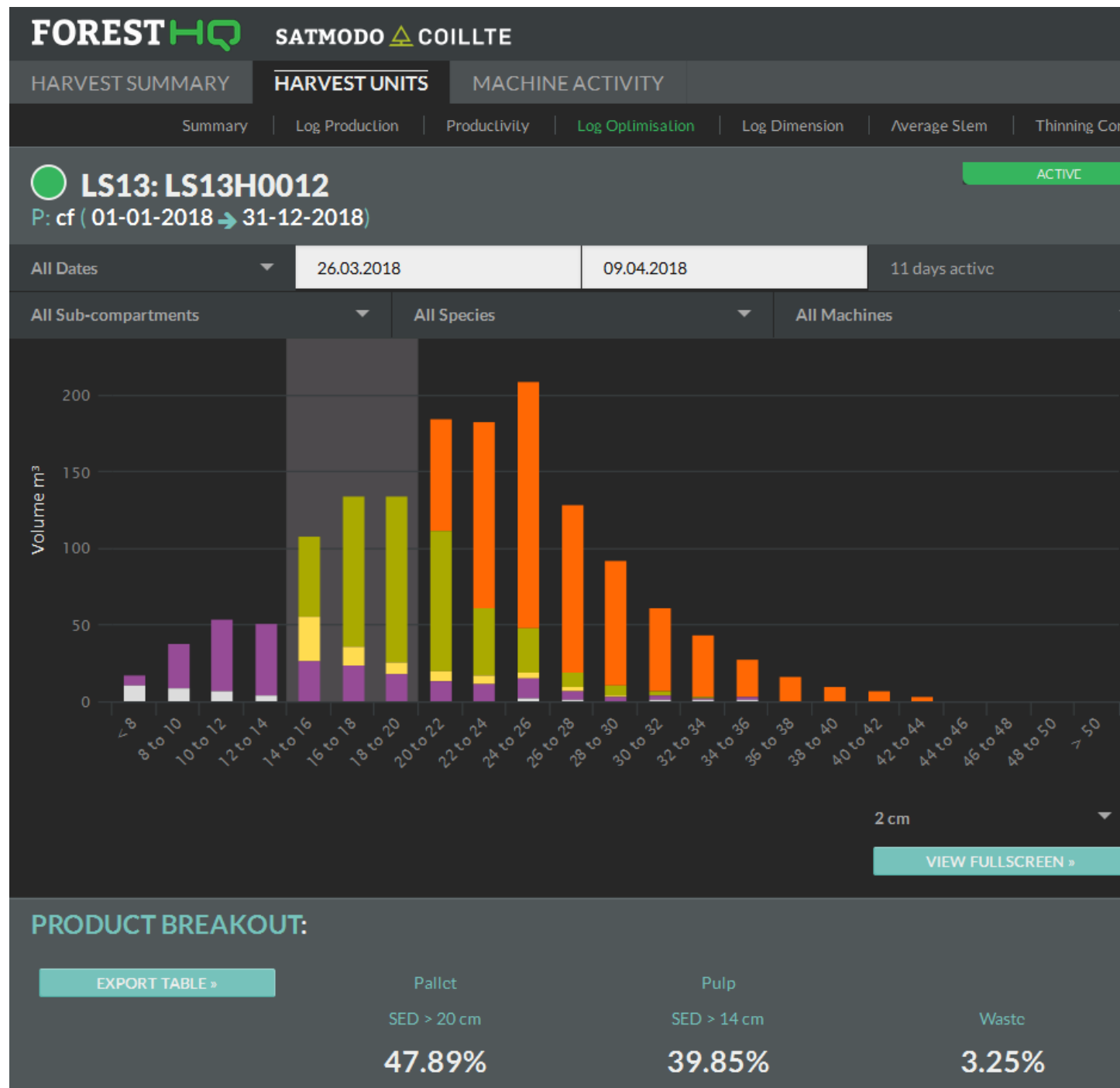
# 3. Production



- **Live Production Data**

- **Order Fulfilment**

- **Forwarder Management**

- **Stock Measurement**

- **Platform – All Machines!**

# 4. Productivity



- **Machine Utilisation**

- **Daily Productivity**

- **Driver Working Time**

- **Fuel & Distance**

- **Cost & Efficiency**

# 5. Value Optimisation



- **Control Cutting Instruction**

- **Monitor Sawlog Downgrade**

- **Identify Optimal Products**

- **Drive 'Bucking to Value'**

# 6. Thinning Control



- **Constant Monitoring**

- **Tree Size & Stems Removed**

- **Improved Silviculture**

- **Post-Thin Inventory**

- **Post-Thin Map**

# 7. Benefits

**Increased Value Recovery (€500k)**

**Reduced Workload & Overhead Cost (€420k)**

**Improved Compliance (Safety & Environment)**

Questions

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