ForestHQ Experiences with open-source components Alex Poveda



What we do?



- Development of solutions for forestry sector
- Multidisciplinary team
 - IT team
 - Forestry Team
 - GIS experts
- Target Customers:
 - Big Forestry Companies
 - Small Forestry companies



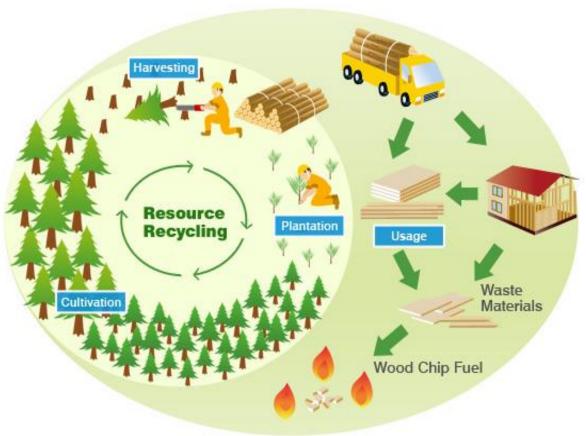




Why?

Need to manage the forest efficiently

- How much timber do I have?
- How much timber do I need?
- Am I cutting enough/to much timber?
- Need to manage the forest **MORE** efficiently
- Where is my timber?
- How much timber am I cutting?
- What type of timber am I cutting?





Our System: ForestHQ

- Online platform
- All information spatially referenced
- Collection of spatial data from mobile devices
- Editing mapping tools
- Remote sensing analysis







Open-Source Architecture

- Standard web service architecture
- Combination with other sources: Rails, Ember, etc

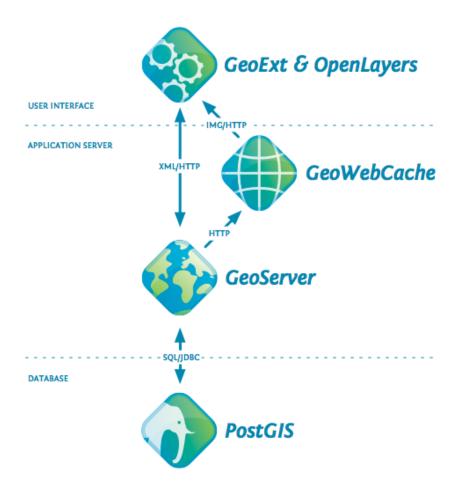
Why open source?

• Flexibility: create specific tools

Simple customised tools have a big impact in the users.

- Geospatial standards
- Integration with client's systems









- **1. Standing Forest Measurement**
- Traditionally very manual intensive
- Starting to use remote sensing
- Based on averages

Our solution:

- Mapping and planning
- Field inventory app. to collect data
- Remote sensing analysis
- Spatial distribution of the results











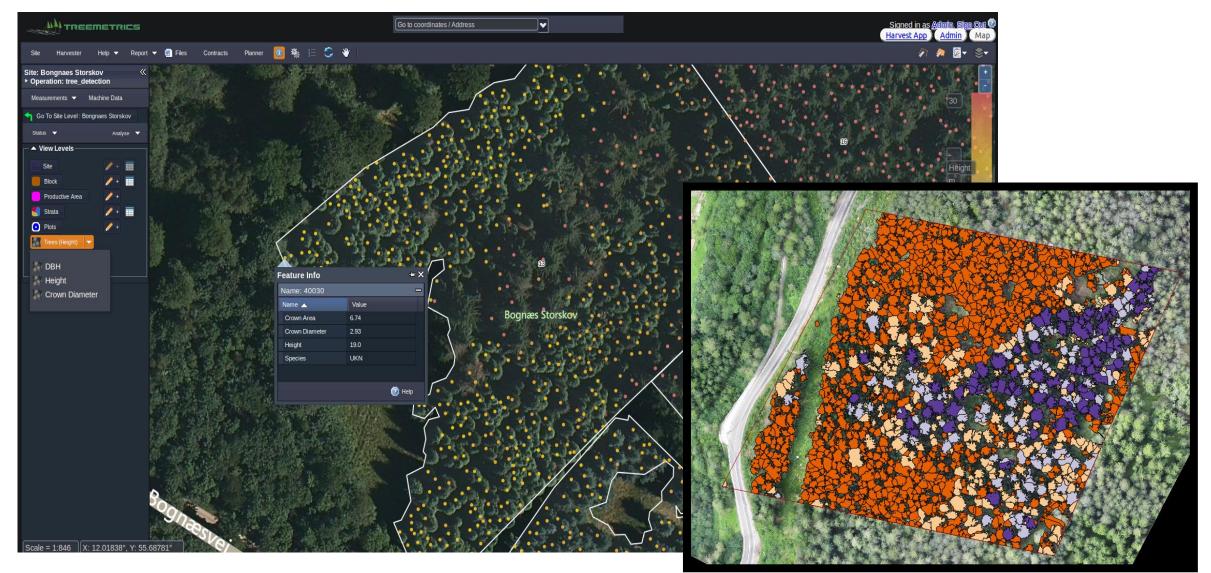














Harvesting Monitoring. What do we try to solve?

2. Harvesting Monitoring

- Reduce use of the machine data
- Manual road-side log count
- Uncertainty of type logs cut

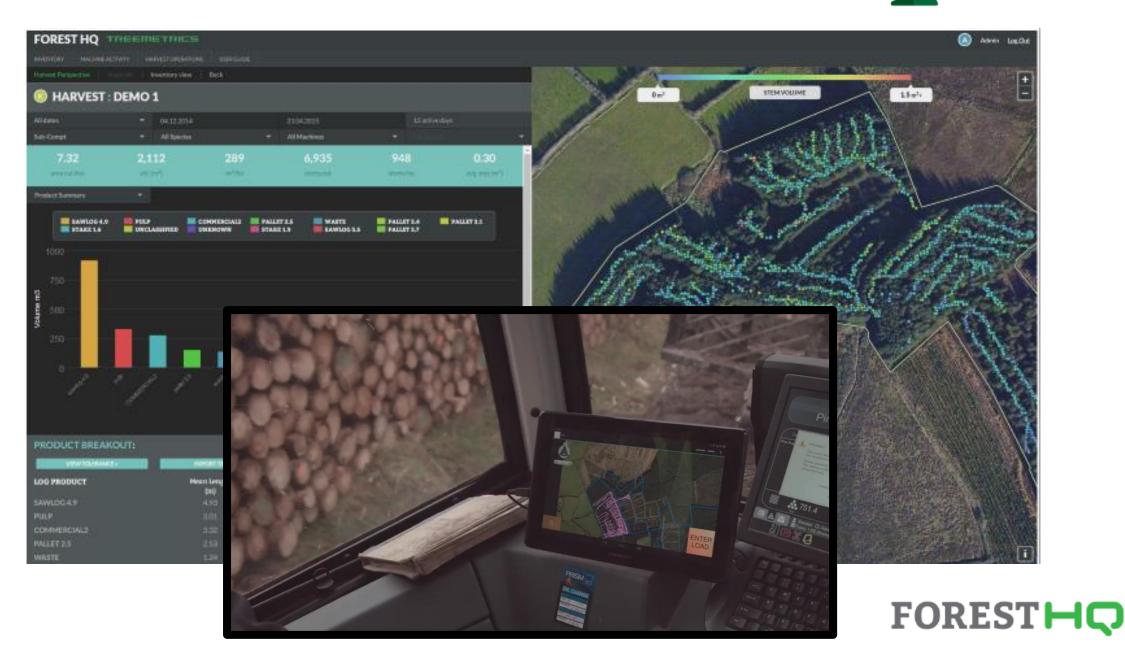
Our solution includes:

- On-board navigation system
- Position of the machine
- Real-time satellite connection
- Number of logs and log types

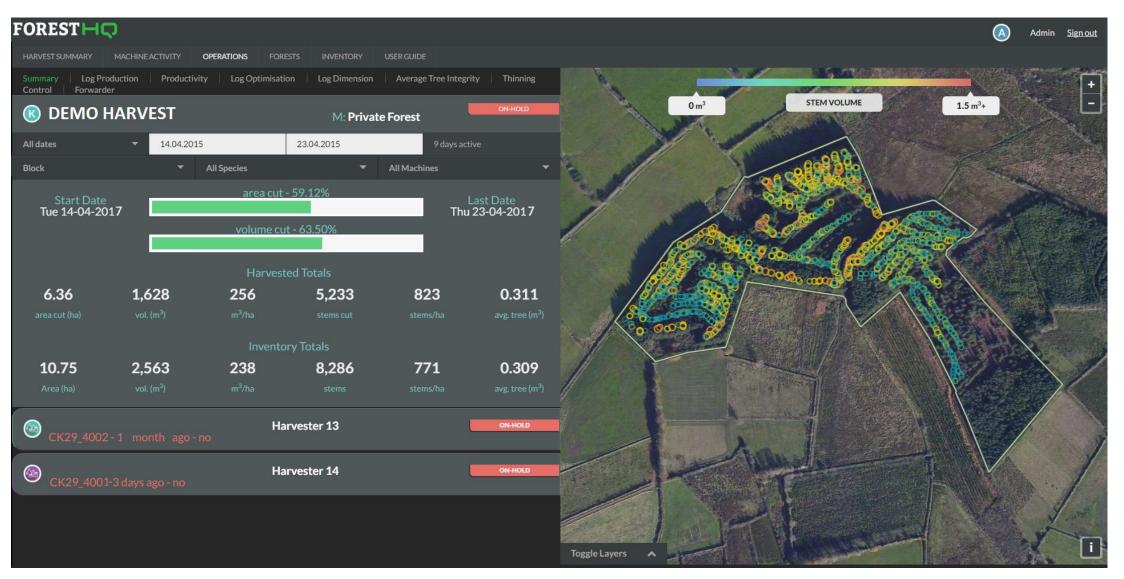




Harvesting Monitoring. What do we try to solve?



Harvesting Monitoring. What do we try to solve?





Thank You



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