



# 4

## simple questions

hard to answer right now -possible to answer  
in Indisputable key

### Why were 10% instead of normally 5% of the boards for windows rejected?

The answer most often consists of a combination from different issues at different steps of the forestry-wood production chain as:

- sensor problems when harvesting – wrong dimensions of logs → wrong dimensions/wane of boards
- logistic problems causing delayed start of kiln drying after sawing boards → cracks/discoloration
- kiln malfunctioning → cracks/fungi
- and very many other reasons

### What actions should to be taken to reduce the amount of rejects?

Correct the sensors; enhance the logistic procedures; repair the kiln; ...

### How could a practical solution look?

To be able to localise the problems and carry through the necessary corrections, the properties of the rejected boards have to be followed through the forestry-wood production chain. A practical solution could be a user friendly system based on automatic traceability for object data because of the huge amount of boards produced and the great variety of possible errors.

### When is it worth while?

As soon as an automatic system is available on the market at a competitive price – this is the aim of Indisputable key.

### Demonstration in Skellefteå/Malå April 16<sup>th</sup>

A demonstration of systems and components that are part of an automatic forestry-wood traceability system will take place in the forest and at a sawmill.

In the forest: Luminescent pigments for marking logs; high resolution GPS systems to identify single logs in the forest; harvester on-board database enabling high quality information for single logs.

At the sawmill: Possibilities to use two-dimensional codes for marking logs with identities and properties; automatic logistic system for handling of logs based on GPS; system to securely connect data from a log to its respective boards; board code marking and reading on the end surface of green boards; examples from kiln drying where traceability improves yield.

More information will follow after the meeting...

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