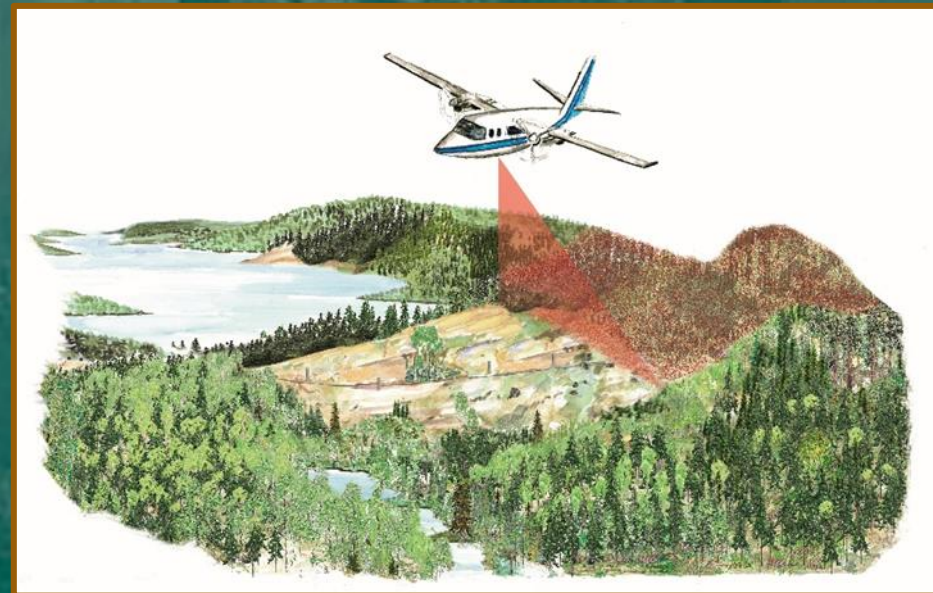


# New laserscanning of Sweden's forest land

Svante Larsson  
Project Manager  
Swedish Forest Agency



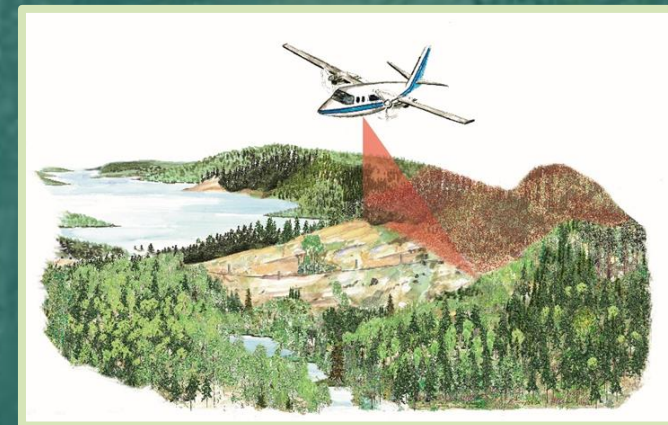
National Geodata Strategy  
Forestry

Geodata for forest purposes  
Forest Data Strategy



# Disposition

1. What is produced?
2. The new laserskanning
3. Questions



# What is produced?

## Forestry maps from laserdata



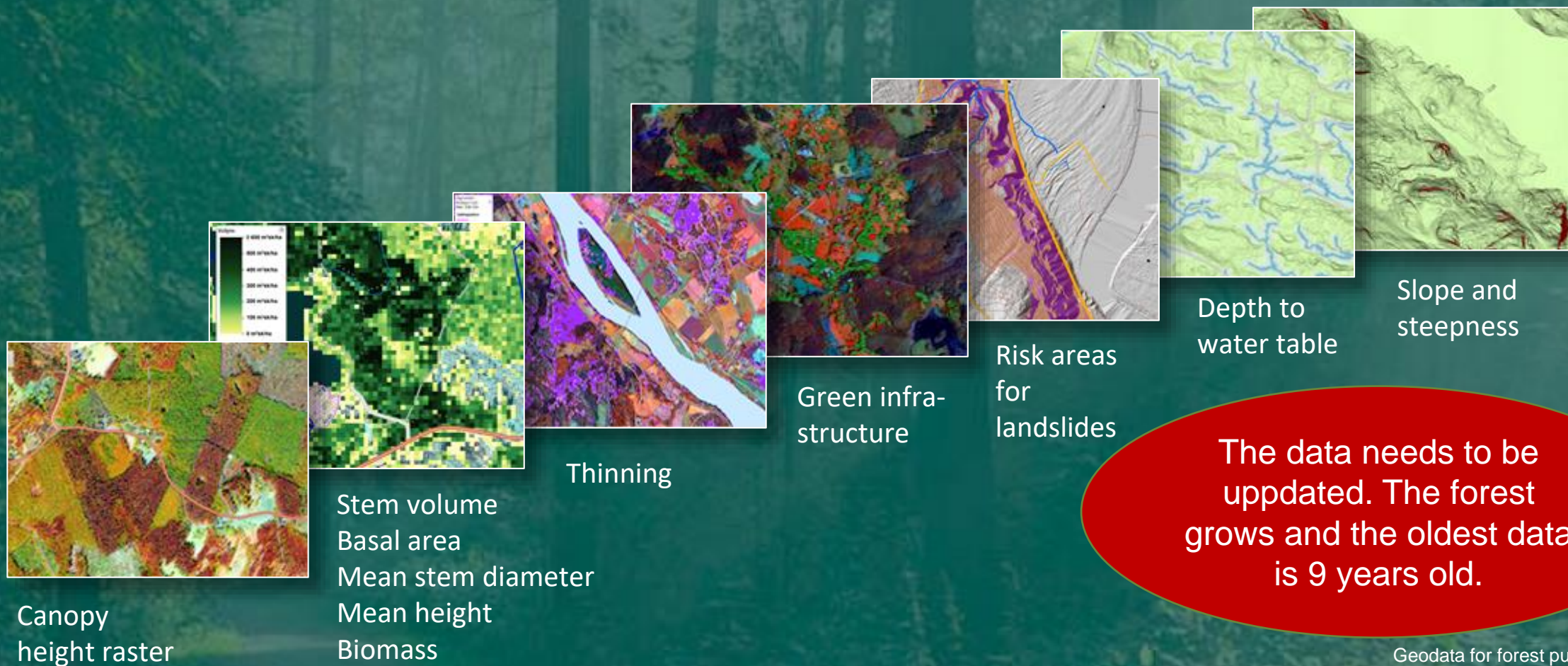
# Forestry maps from laserdata 98% coverage today

Most of Sweden  
finished  
January, 2018





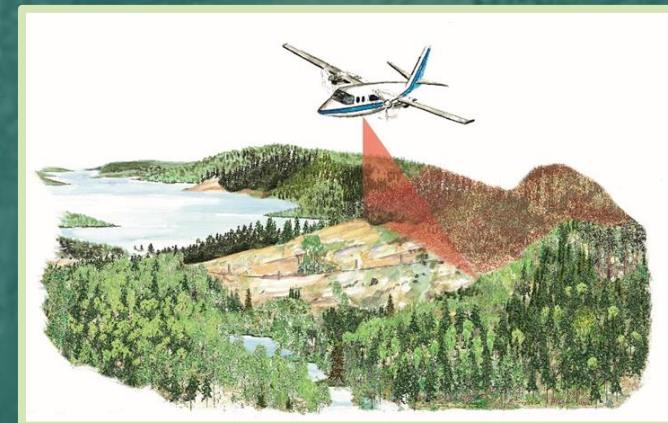
# Forestry Maps from laserdata



The data needs to be updated. The forest grows and the oldest data is 9 years old.

Geodata for forest purposes  
Forest Data Strategy





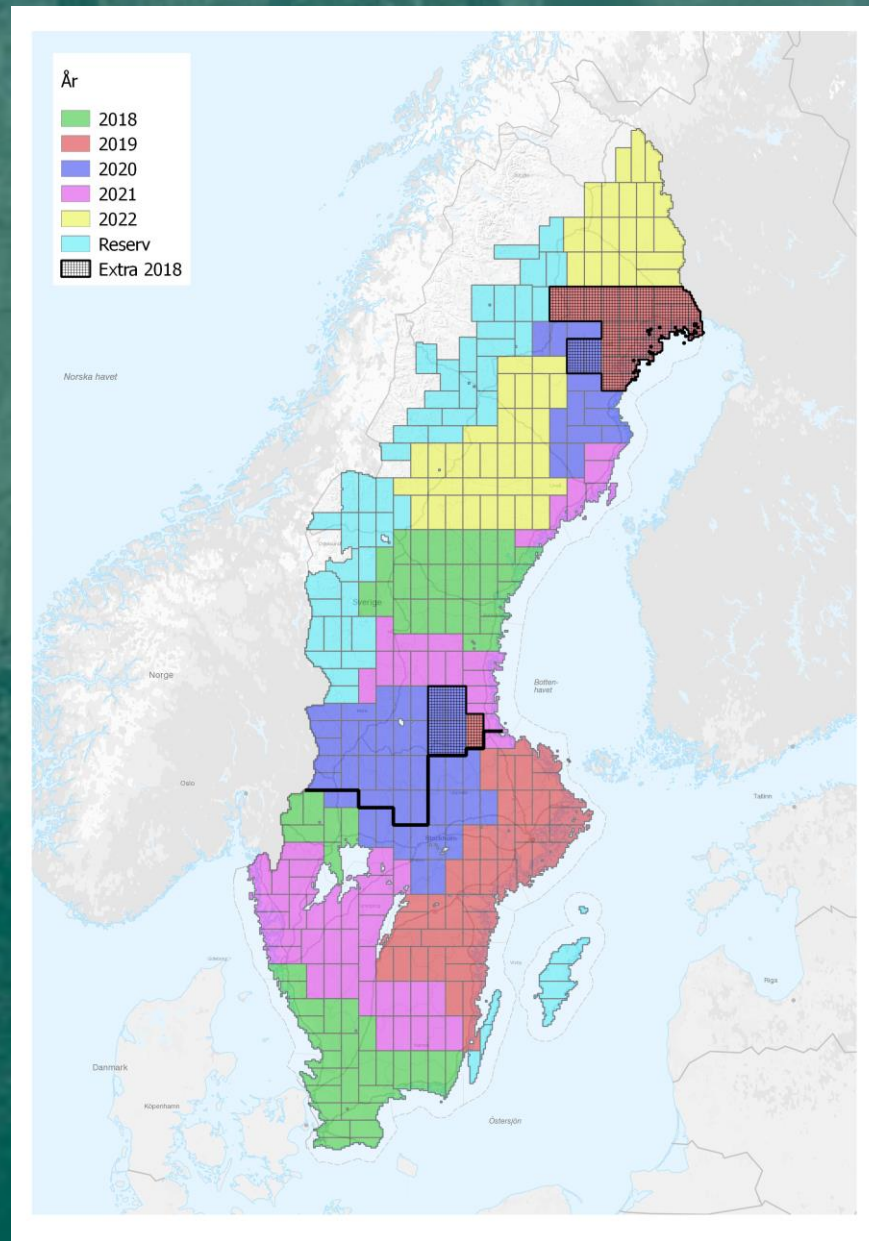
# The new laser scanning

Geodata for forest purposes  
Forest Data Strategy



# Plan for the new laser scanning starting summer 2018

The first national laser scanning was done year 2009-2017



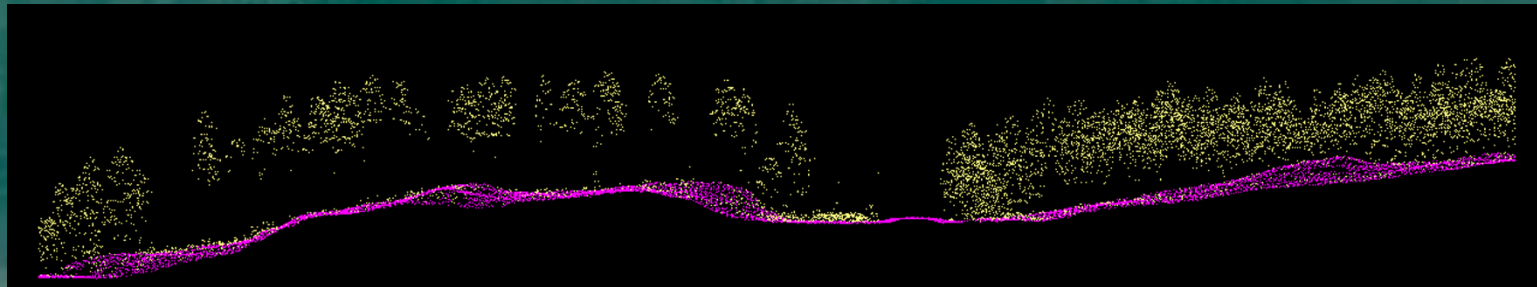
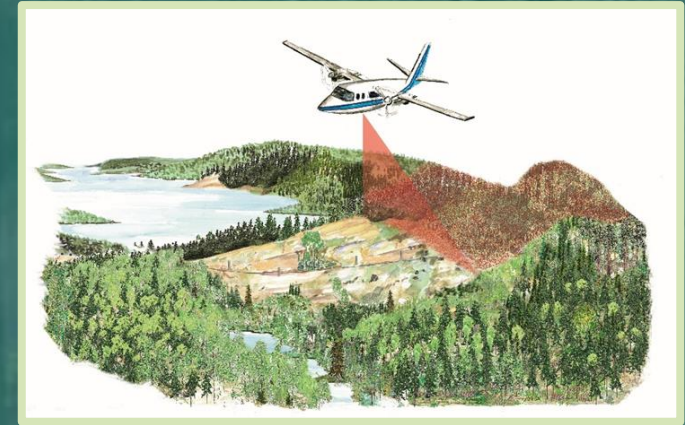
The Forestry maps are going to be updated and developed with data from a new laser scanning.

The National Land Survey received in May a government commission to laser scan Sweden's forest land.



# Airborn laser scanning

- Altitude  $\sim 3\ 000$  m above the ground
- Returns from the trees and the ground give a point cloud.
- With the new national laser scanning there will be more points per square meter. The density will increase from 0.8 to 1.5-2.0 points/m<sup>2</sup>.

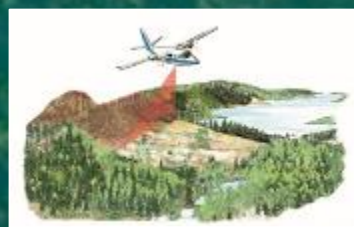


Geodata for forest purposes  
Forest Data Strategy

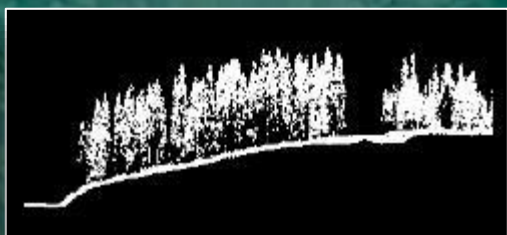


# How the data from the laser scanning is used

”A technological leap for forestry planning”



Laser scanning  
(National land survey)

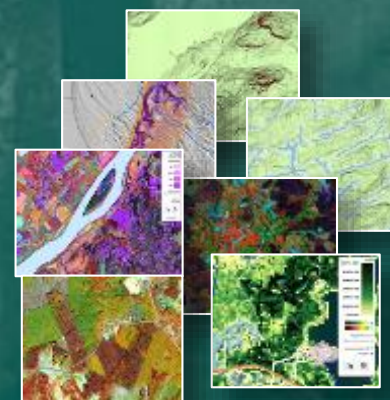


Laserdata

$$Y_i = \beta_0 + \beta_1 X_i + \varepsilon_i$$



Processing (SLU)



Forestry maps from  
laserdata



Very useful in the forest



# Questions?

Geodata for forest purposes  
Forest Data Strategy



# Thanks for your attention!

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