



# Forstamt Johanniskreuz

Applied period Sommer 2018 MSc. European Forestry - Leon Dijks

## Content

- Forstamt Johanniskreuz
- Experience so far
- Project at the Forest Estate Sattelmühle

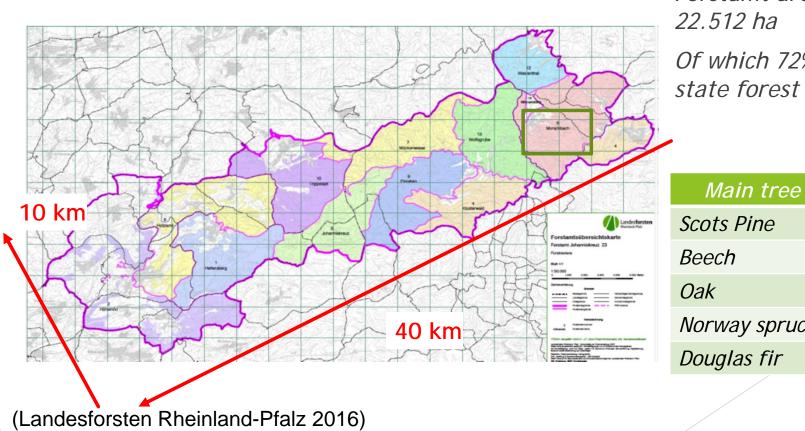


### Forstamt Johanniskreuz





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Forstamt area: 22.512 ha Of which 72% is

Main tree species Scots Pine 30% Beech 29% Oak 16% Norway spruce 12% Douglas fir 7%

## Activities

### Oak Management

- Famous Oak region and management
  - ► Traditionally, international famous
- 1% Volume = 10% income
- Goal set
  - ▶ about 11 ha per year regeneration
- Natural regeneration
  - Beech understory

### Samstag, 28. Juli 2018 LANDKREIS KUSEL Waldwissen für China

Trippstadt: Forstwissenschaftlerinnen aus dem Reich der Mitte erhalten Einblick in Pfälzerwald-Pflege

von Doris Theato



Burkhard Steckel zeigt den Forstwissenschaftlerinnen in einem Areal mit jungen Eichen, wie mit diesen hierzulande umgegangen wird. (Foto: Forst/frei)

### Spruce emergency

- Over 1000m3 bark "beetlewood" per "Revier", and growing
- Capacity of transport and storage is bottleneck

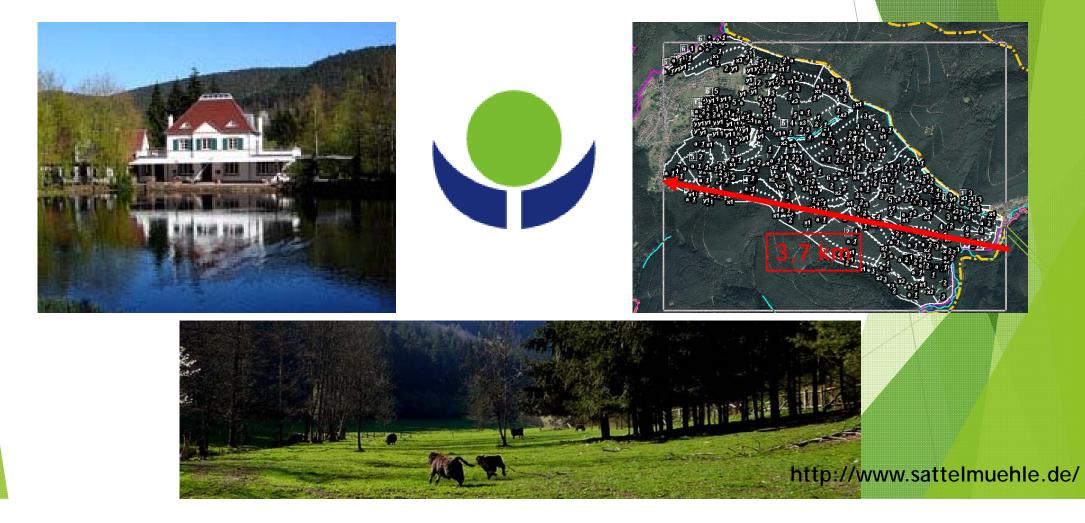
#### Now:

- No regular harvest of spruce, at least until end of September
- ► Work possibilities:
  - Local transport to safe zone, water storage, debarking
  - ▶ When possible, bark and branches on logging trail
  - Not allowed, Usage of insecticide



# Project

## Sattelmühle



## Project, New "Forsteinrichtung"

#### Forsteinrichtung

- Every forest over 50 ha is obliged to have it
- Middle term planning
- Primary an economical "tool"
- ► Goal: "guardian of sustainability"
  - ▶ Inventory, Control, Planning

Earlier as planned new Forsteinichtung for the Uni Freiburg



### Re-Reorganise the mapping

#### Old, "Stand"

- Small
- Homogeneous features
- Plan, control and booking unit

#### Current, "Subdivision"

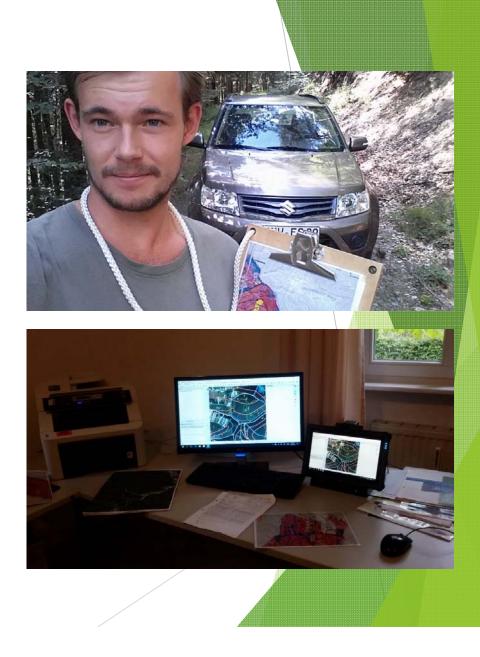
- Big
- Heterogeneous features
- Plan, control an booking unit

#### New, "Befundeinheit"

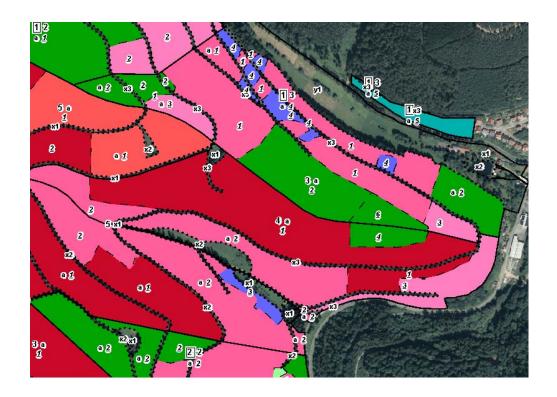
- In between size
- Share an ecological phase
- Plan, control and booking unit

### Average day at the job

- 1) Data check: What area fits together, where to look for sure and how to walk efficiently (Note it down!)
- 2) During the walk, decide the borders, pay attention for changes and understories. (Note it down!)
- 3) Create the new areas in the program, with the right data.



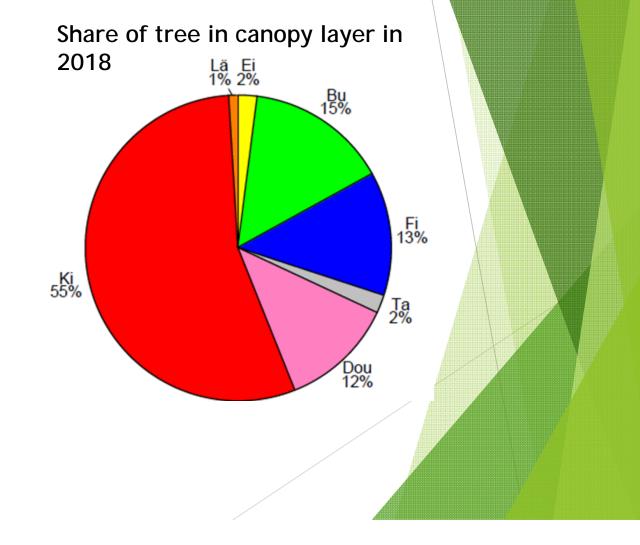
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### Positive findings for the Estate

- Relative high level of financial interesting trees
- Almost all the pine and douglas-fir stands pruned
- Relative high yield

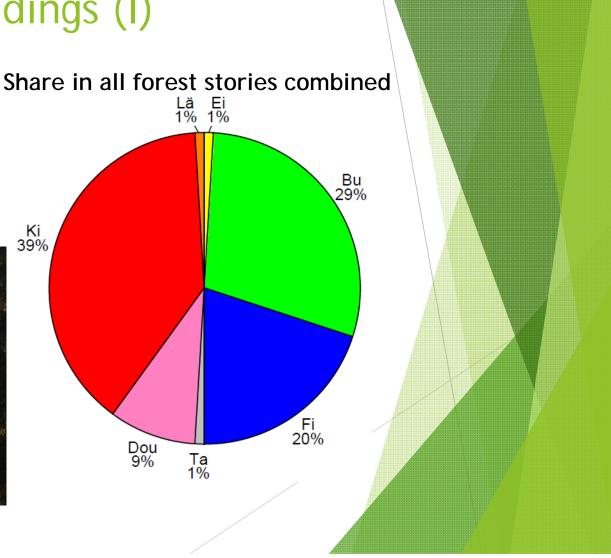


### Negative findings (I)



Damaging understory for canopy layer





## Negative findings (II)

- Large growing stock and high average age
- Why:
  - ► Financially not optimal
  - Also damage own capital and hinders regeneration

Species	Beech	Spruce	Pine	All
average age	133	87	108	102

	per Ha	
Total Yield [m3/year] Total stock [m3]	6,3 284,7	
Total planned harvest [m3/year]	5	

### Recommendations

- Luxury, harvest more... Especially in beech
  - Gehrhardt formula shows 8,0 m3
- Pay attention at new generation. Keep a fair share of conifers



## Thank you for your attention

