



**Forest management spring protection
In Lower Austria
and in Styria (33,000 ha)**

**2 municipal departments:
Vienna Water
Forestry and Agriculture**

**Vienna derives its drinking water
from springs in the Northern
Calcareous Alps (NCA): 33,000
hectares in the catchment area of
the I. and II. high spring pipeline are
to be looked after and managed.**

**In normal operation, both pipes
supply Vienna with 100 percent
fresh spring water.**

**Average daily consumption
approx. 375,000 m³.**

The **spring protection areas in Vienna**



**Stadt
Wien**

Forst- und
Landwirtschaftsbetrieb



33,000 ha Spring protection forests



8,700 ha of urban forests



2,500 ha Agriculture

The forestry and agricultural enterprises of the City of Vienna



**Stadt
Wien**

Forst- und
Landwirtschaftsbetrieb

Our operational goal: :

**‘Qualitative and
quantitative protection of
the springs through
structurally rich, naturally
mixed and healthy forests’**

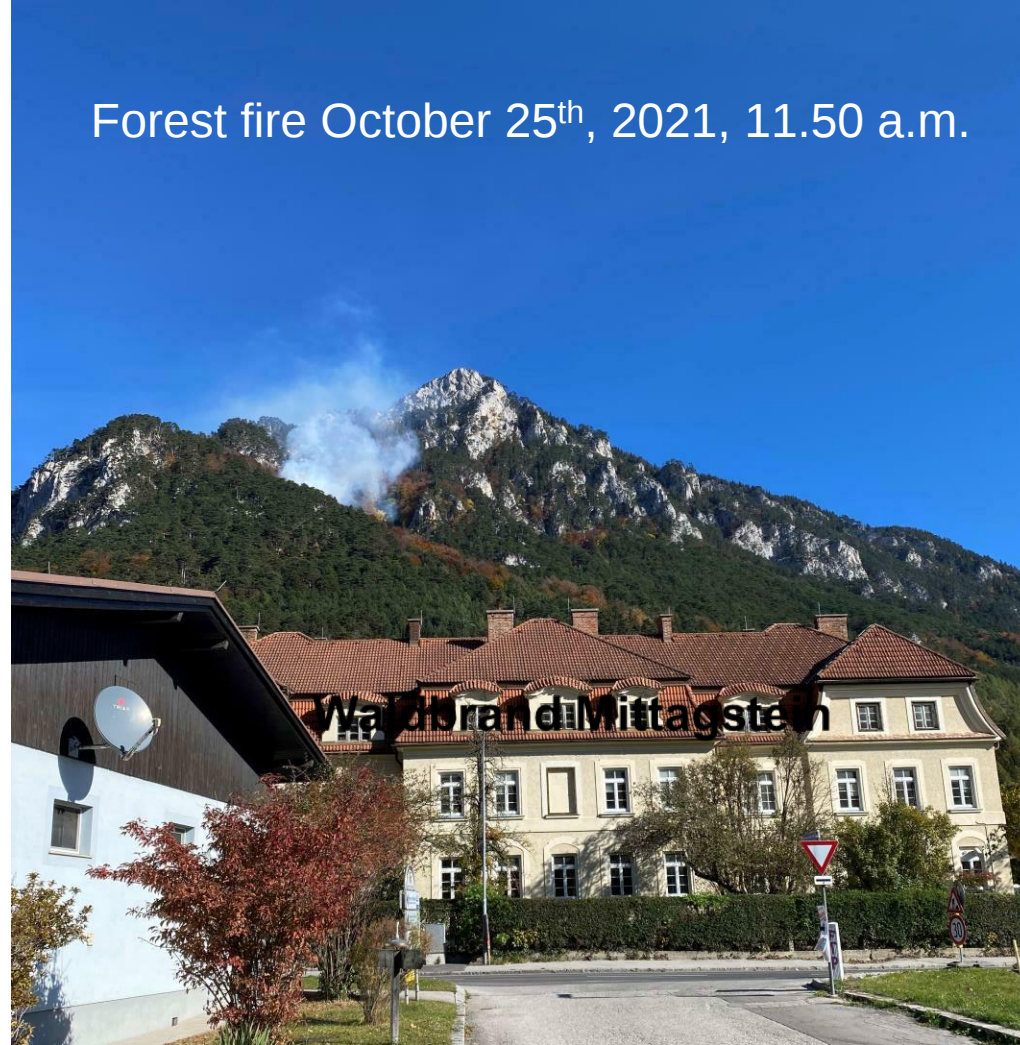
Operational framework



**Stadt
Wien**

Forst- und
Landwirtschaftsbetrieb

Forest fire October 25th, 2021, 11.50 a.m.



Forest fire Mittagstein

Forest fire October 25th, 2021, 22.00 pm

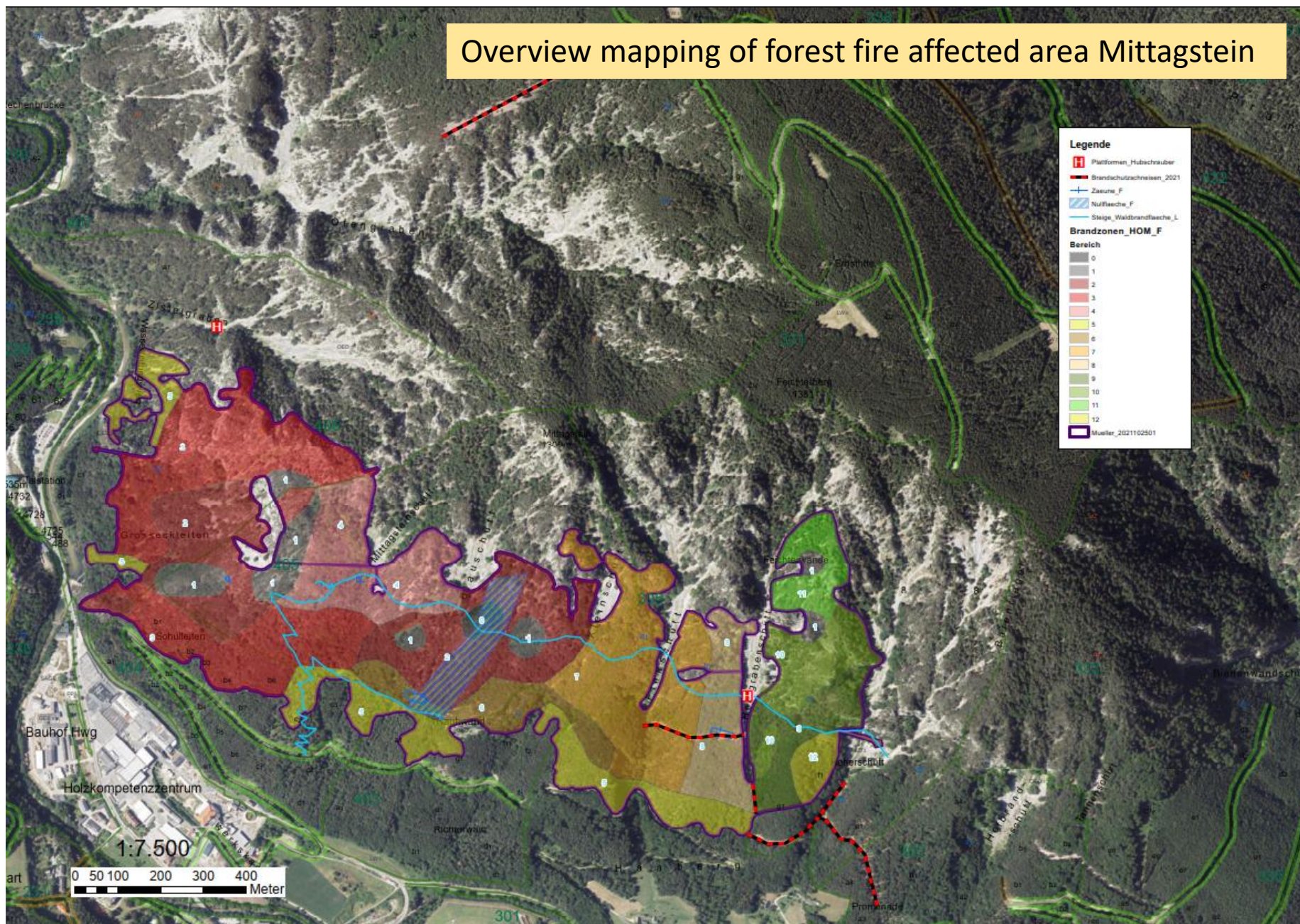


Forest fire Mittagstein



Impact on drinking water?

Overview mapping of forest fire affected area Mittagstein



Brandzonenkartierung:

Bodenbrandklasse 1-3

Flame height 1-3

Kronenbrandklasse 1-3

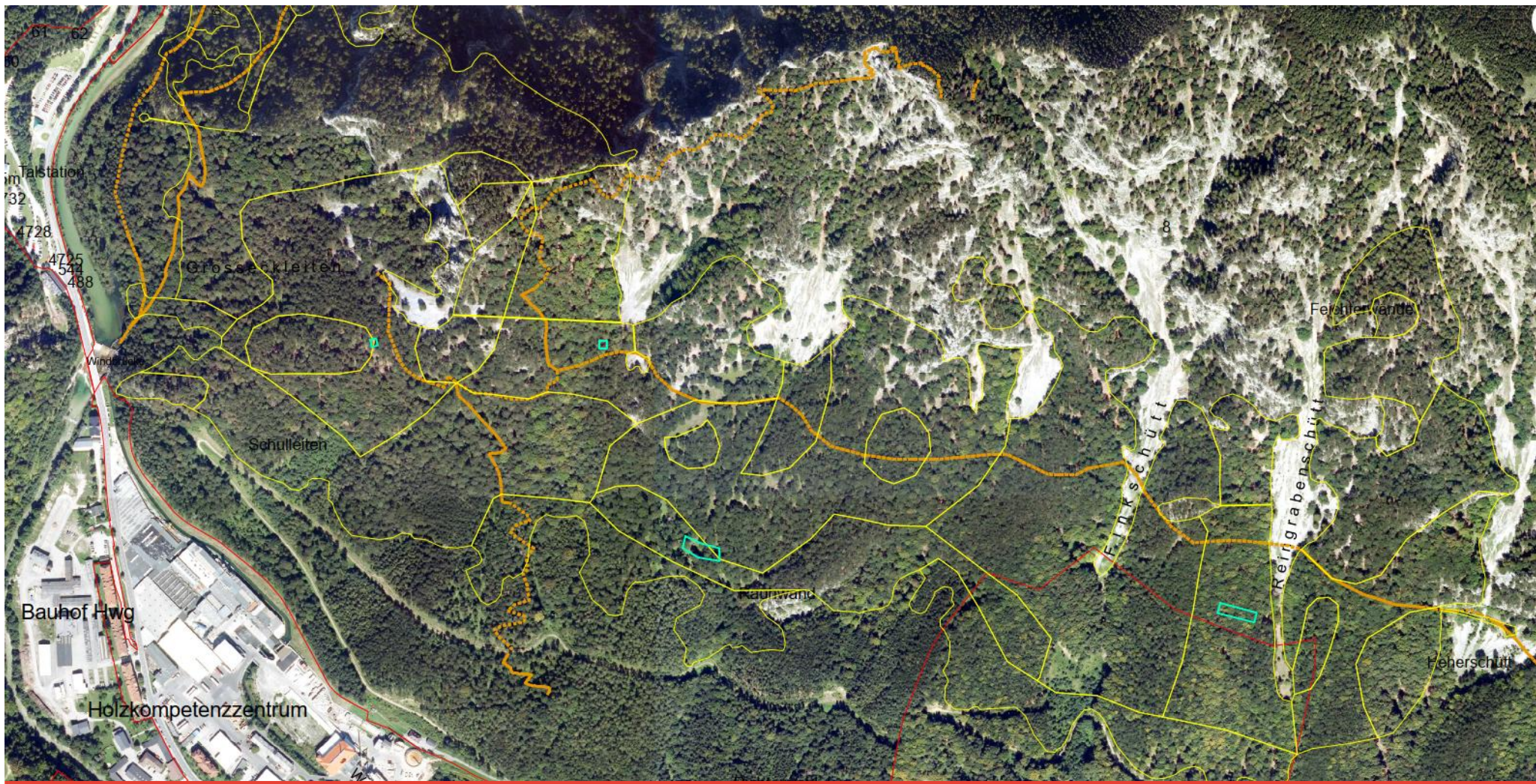
Fire zone mapping:

Burn severity class 1-3

Flame heights 1-3

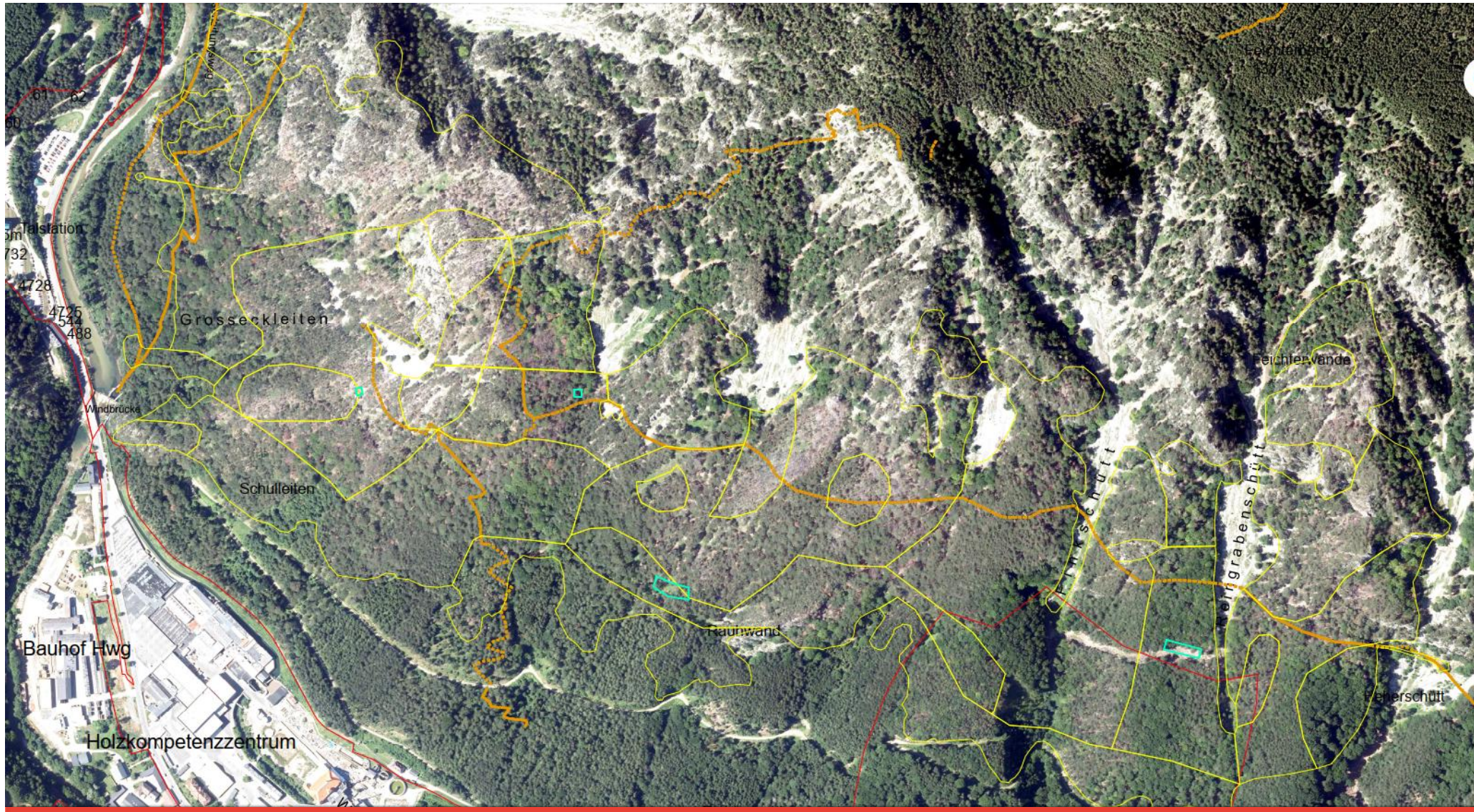
Crown fire class 1-3

Aerial photo 2020 before fire



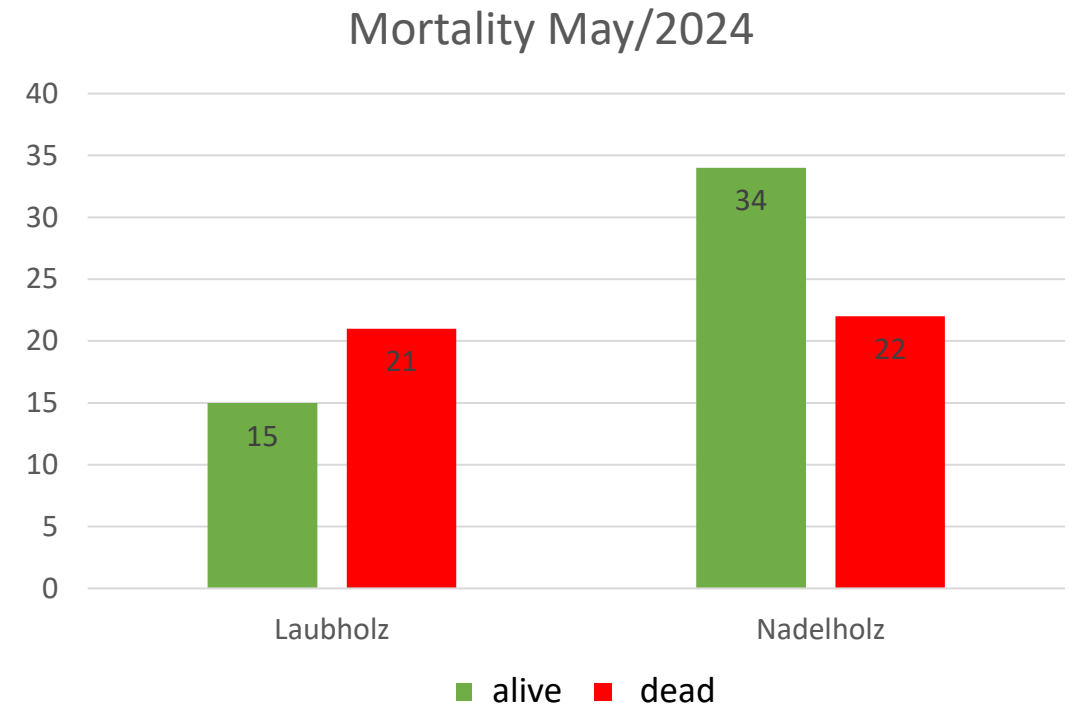
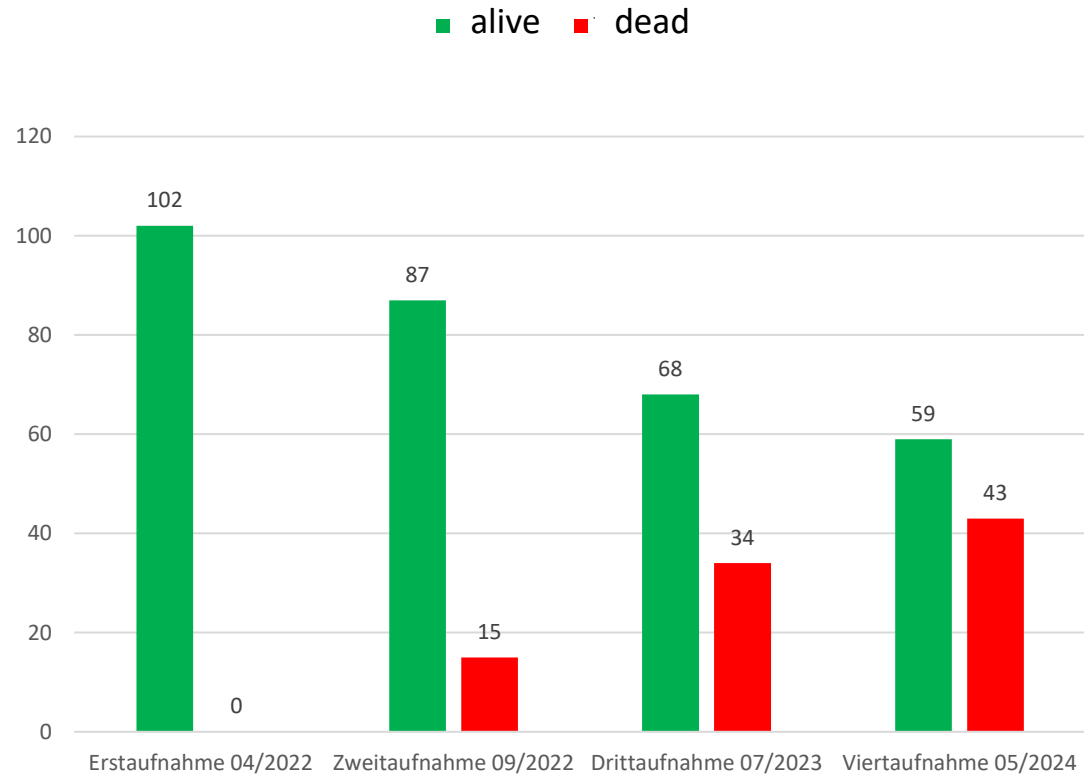
Forest fire Mittagstein

Aerial photo 2023 after fire



Forest fire Mittagstein

Monitoring mortality





Forest fire Mittagstein



Measures:

Erosion protection (cross-cuttung, sowing, planting)

Restricted forest area

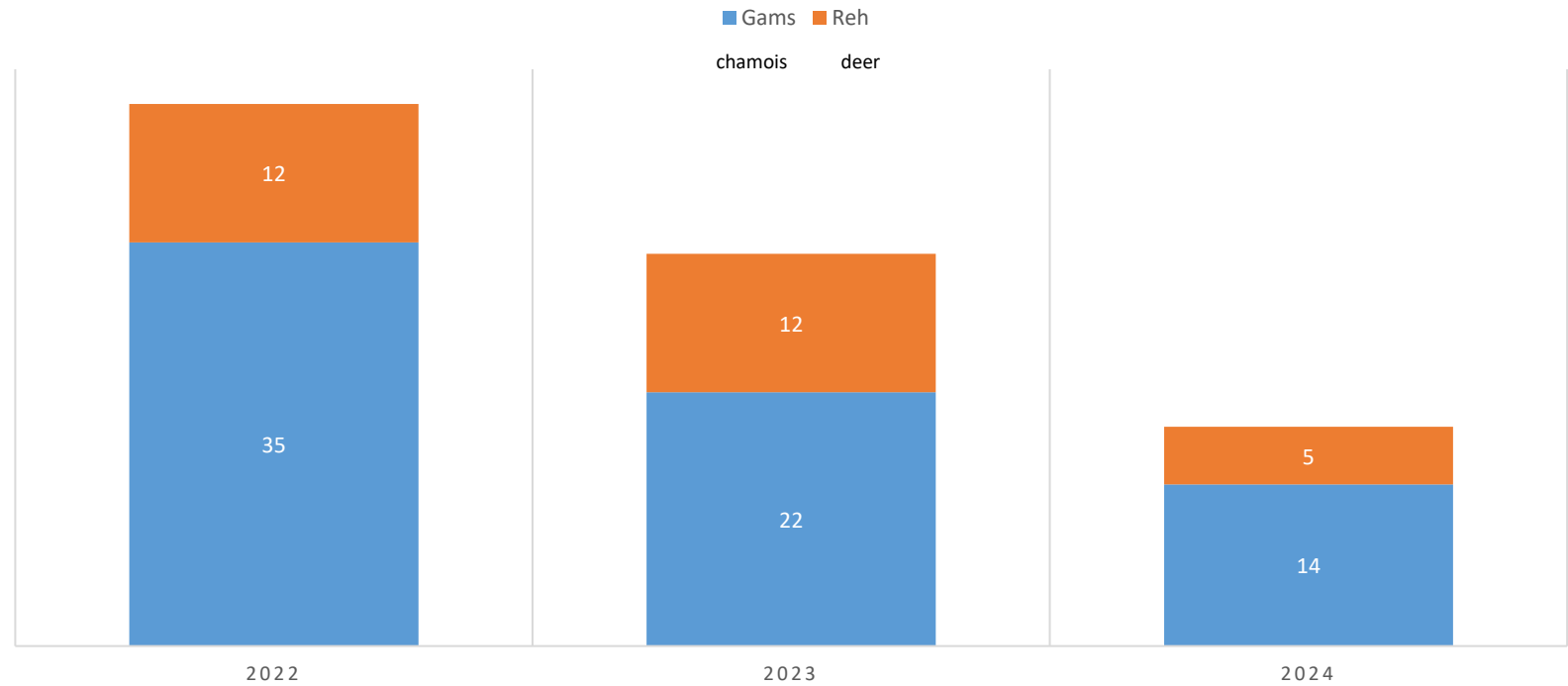
Focus on hunting of chamois and roe deer (game browsing)

Several research projects

Focus hunting



Downed animals on forest fire area



Characteristic of sustainable forest
management

Humus formation

Water storage

CO₂ storage

protection against browsing

Erosion protection



Species diversity

Thank you for your attention!