



Multifunctional Mountain Forestry

2.2.2010

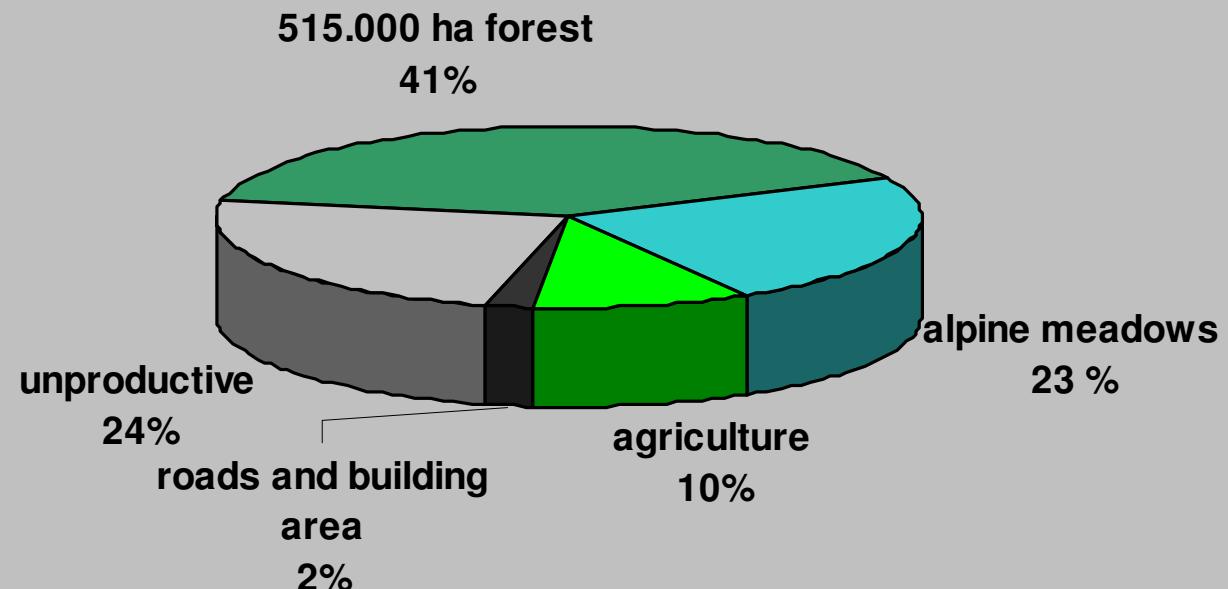
D.I. Kurt Ziegner, Regional Tyrolean Forest Service



Land use in Tyrol

Land use

Area of Tyrol = 12.647 km²



facts

functions

forest condition

challenges



Cultural landscape since many centuries





Forest area

Forest area in Tyrol
1961-2002



facts

functions

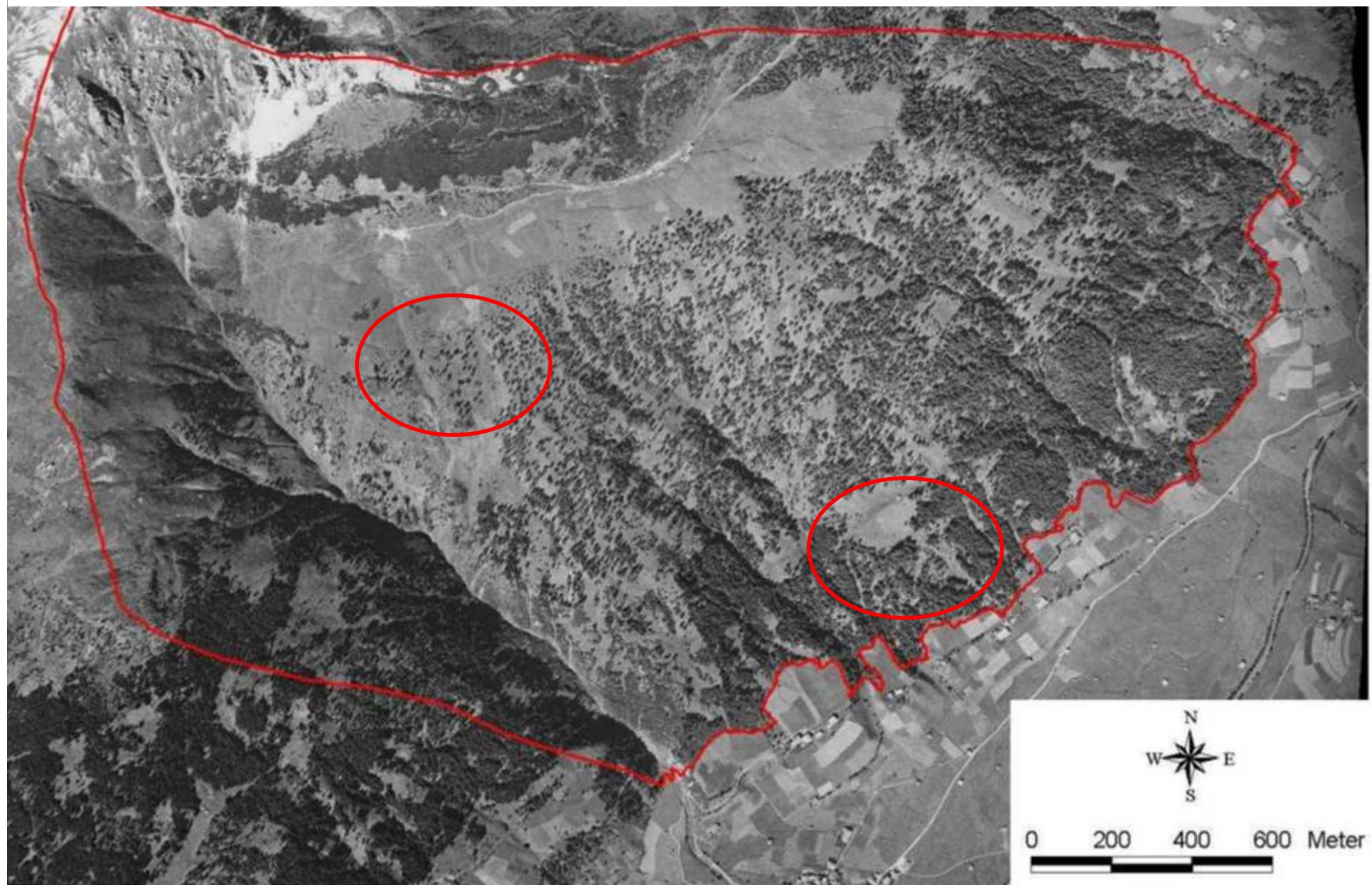
forest condition

challenges

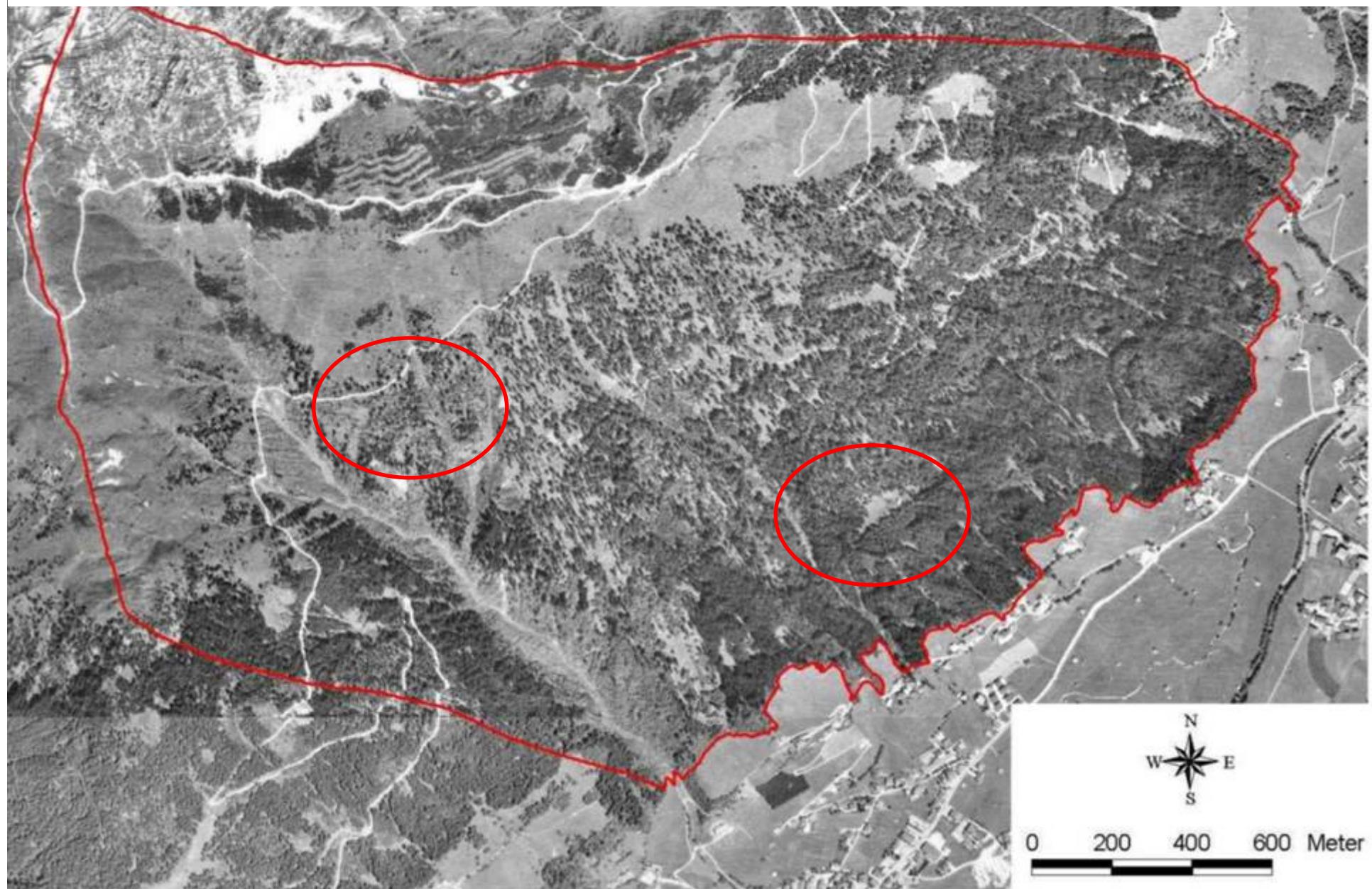
Quelle: ÖWI

annual increase of forest area about 800 ha

Forest area in the Stubai Valley 1952



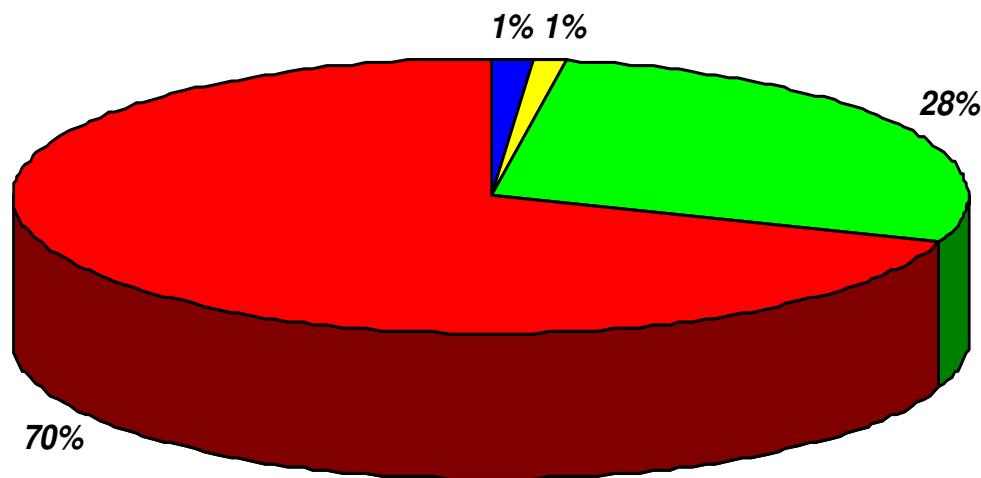
Forest area in the Stubai Valley 1996





Forest functions

Forest Development plan
Tyrol



- protective function
- water&climate function
- recreational function
- economic function

Datenstand WEP:
Sept. 2002

Bearbeitung:
Christoph Kovacs

facts

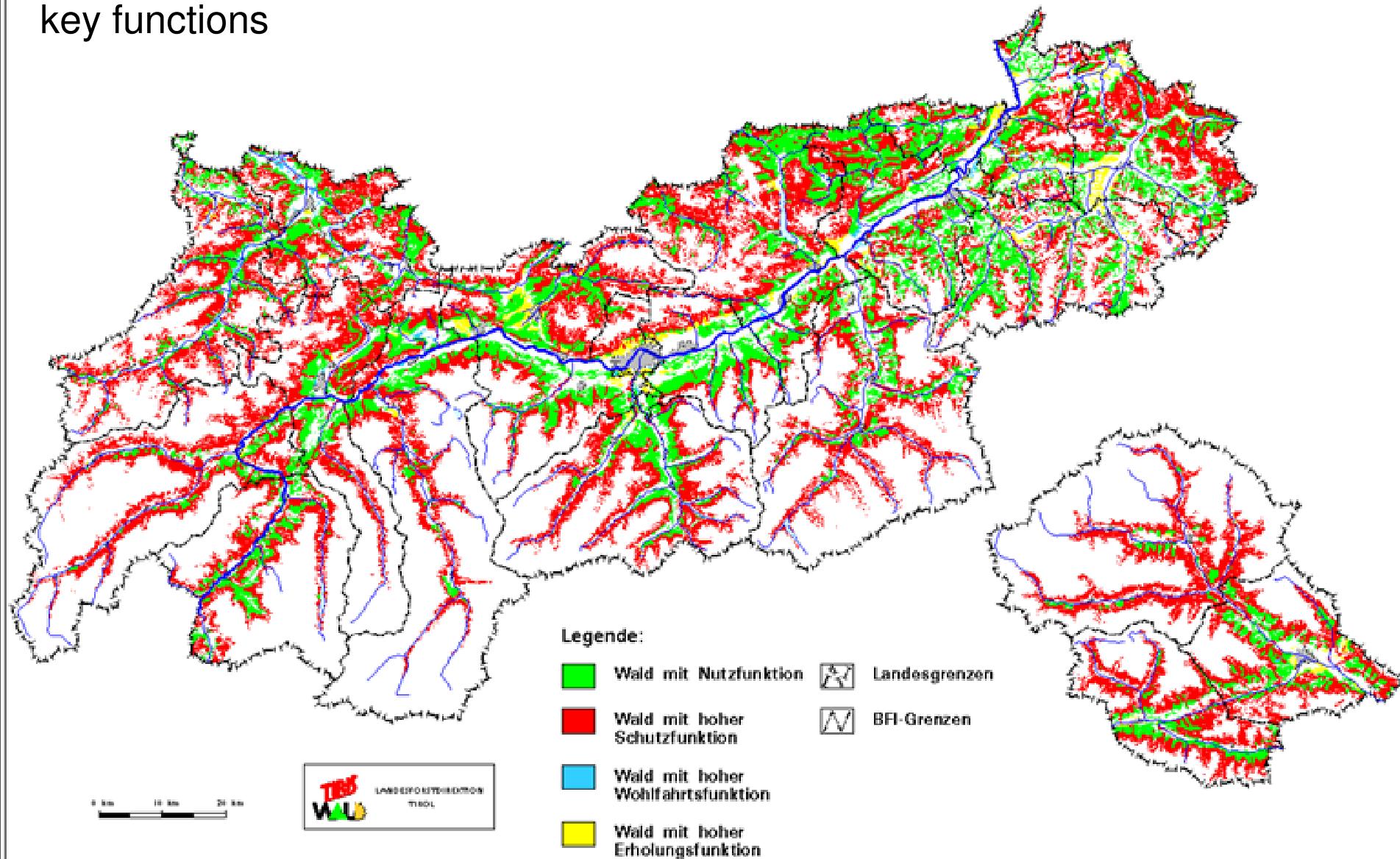
functions

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Forest-development plan of Tyrol

key functions



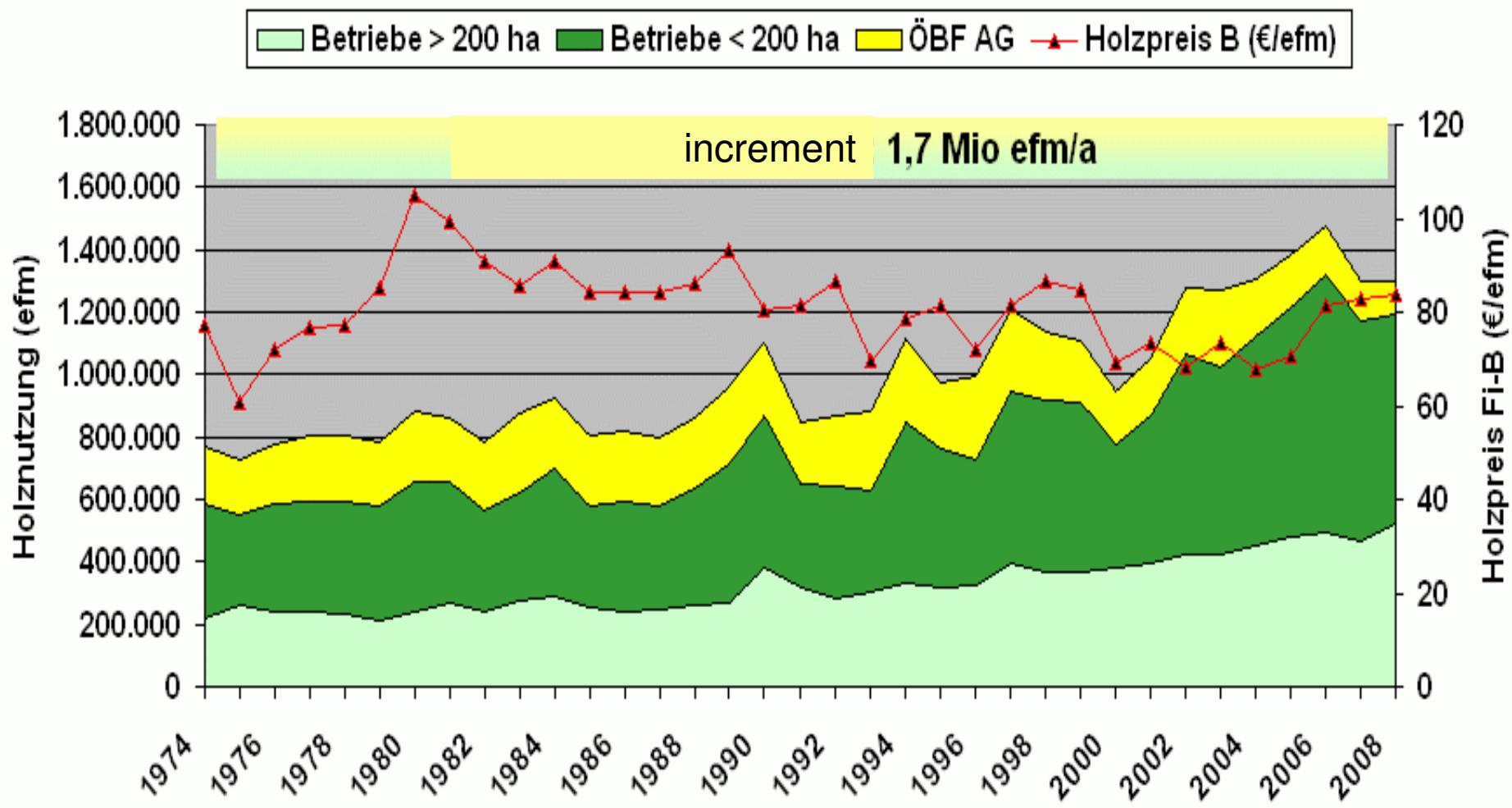


Productive function of forests



Timber and fuelwood production

timber production in tyrolean forests





Protective function of forests

Foto: WLV Tirol



Protective function



„small country“ – less than 12% of the land area is suitable for permanent settlement

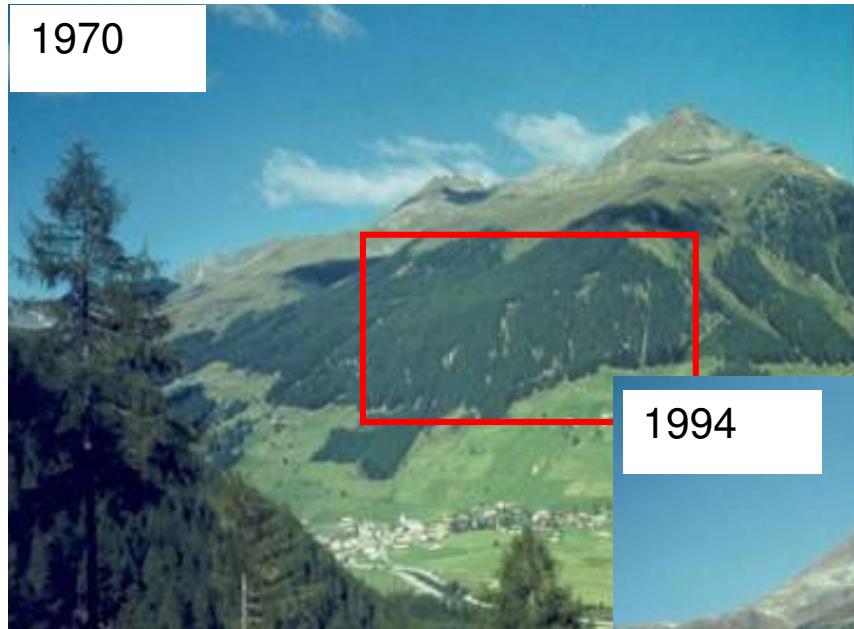
„dangerous country“ - 2.400 torrents and 1.700 avalanches

„high density“ - three times more inhabitants than 130 years ago

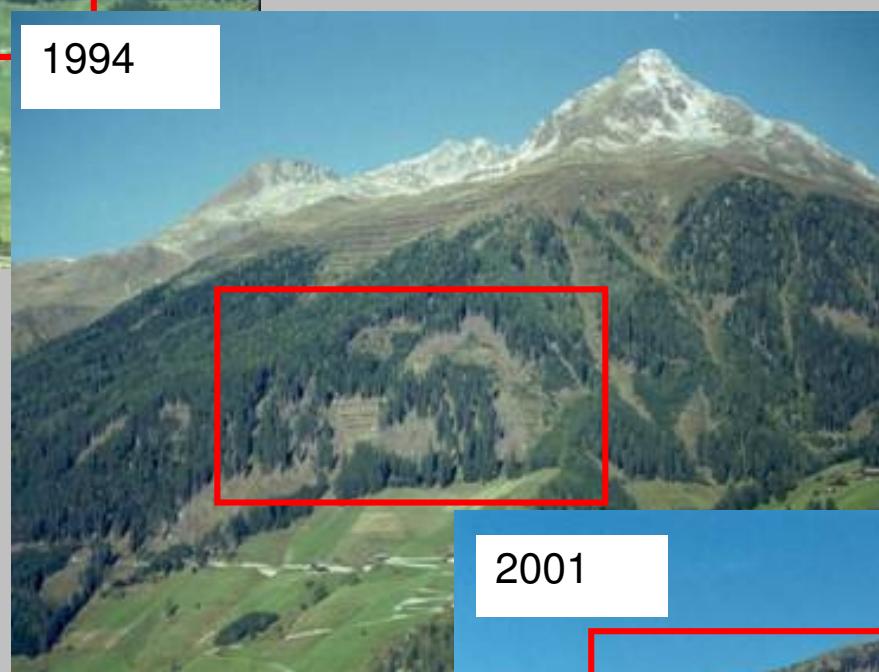
„tourism industry“ – more than 40 billion overnight stays in one year

„sportive land“ - 1.200 cable cars and ap. 160.000 ski runners per day are on the tyrolean ski runs

1970



1994



2001



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Water and climate function of forests





facts

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Recreation and forestry





Recreation and forestry

facts

functions

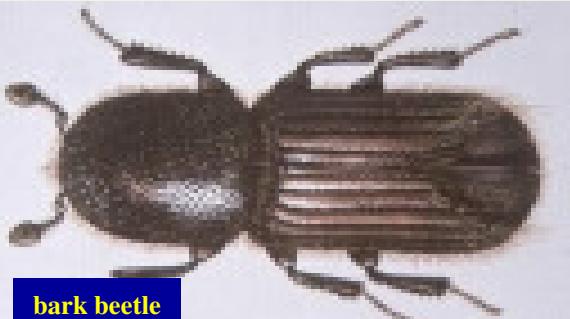
forest condition

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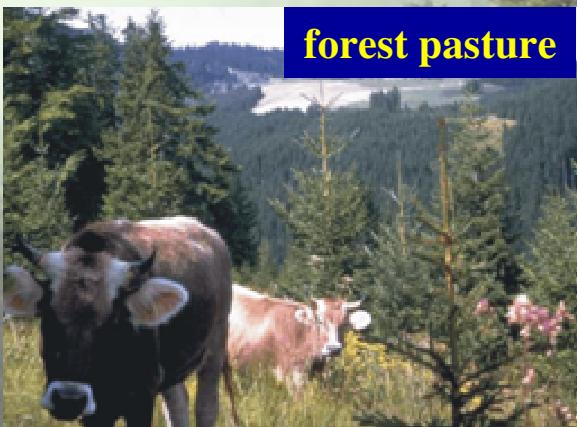


© Roland Noichl

Forest condition



bark beetle



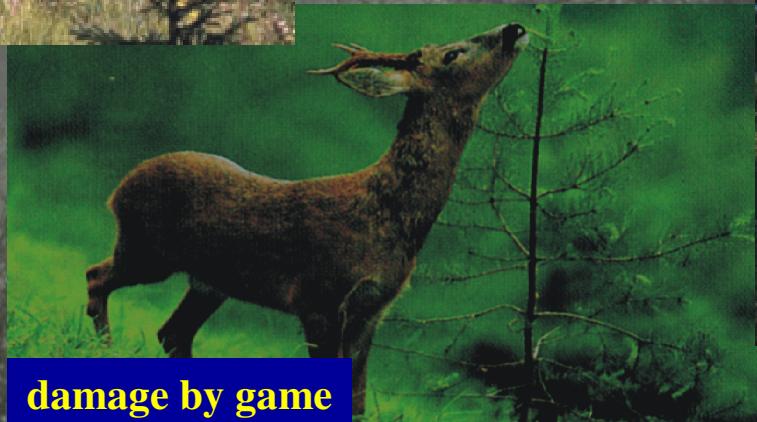
forest pasture



air pollution



sport



damage by game

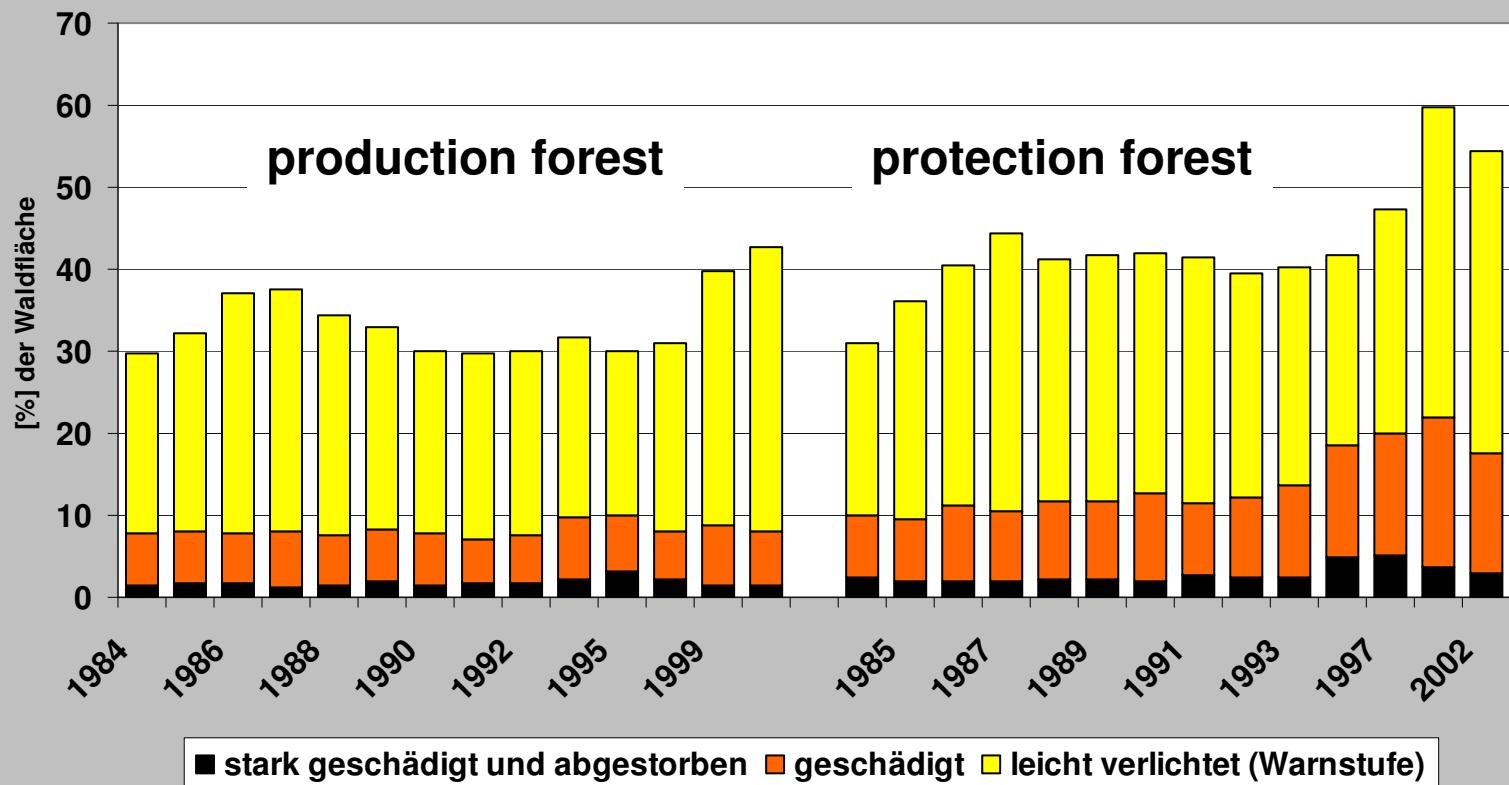


decreasing vitality and health



Vitality of tyrolean forests

Development of crown conditions in Tyrol

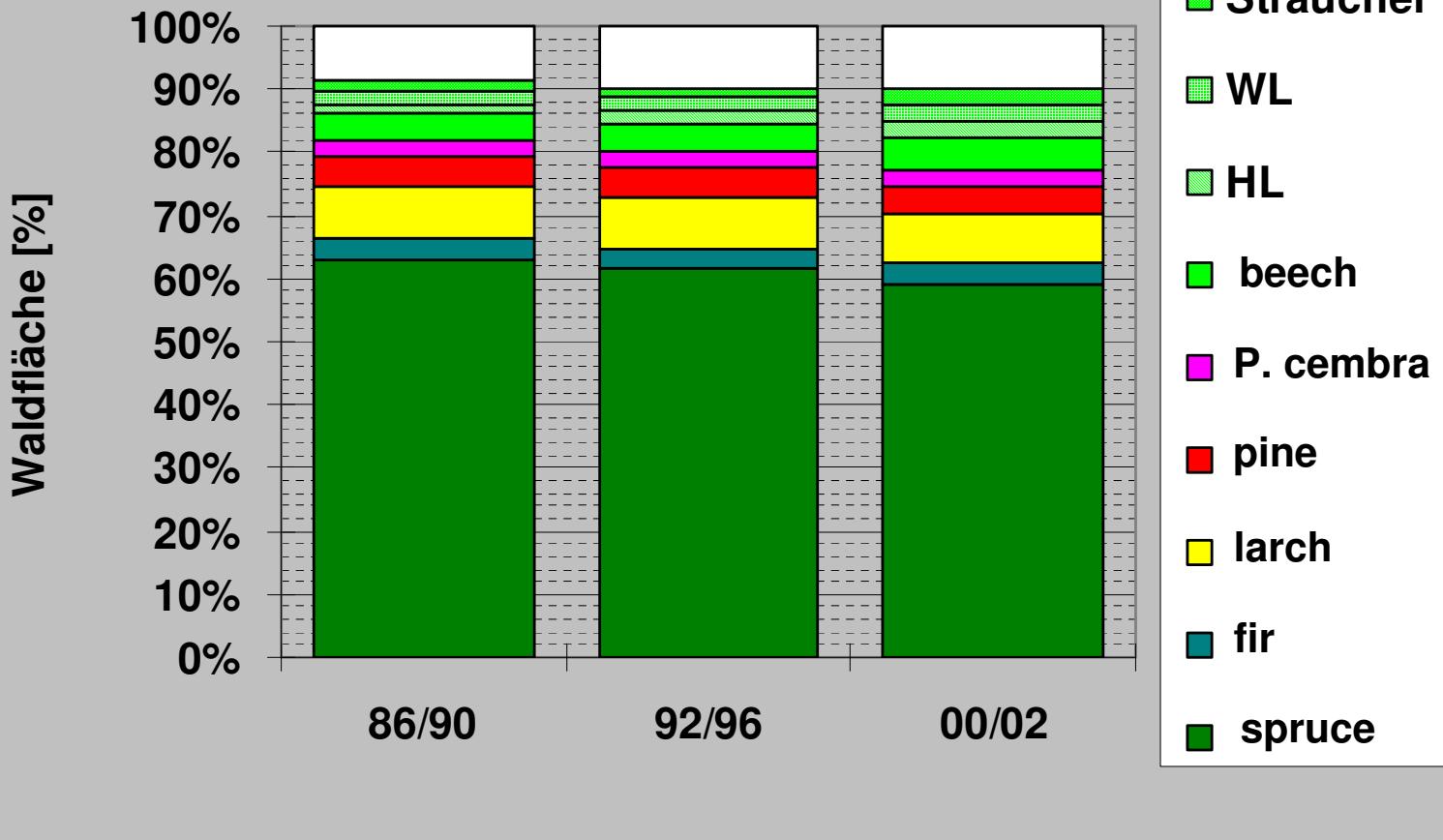


- facts
- functions
- forest condition
- challenges



mixed stands increasing

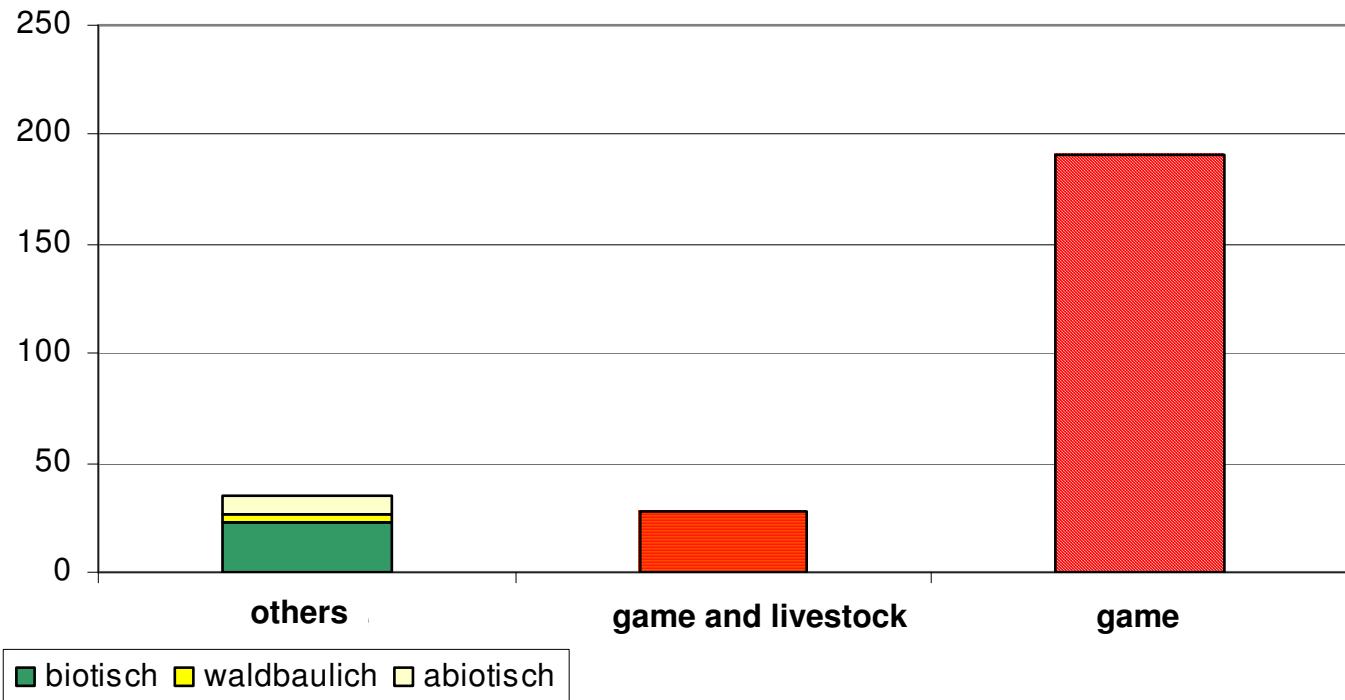
Distribution of tree species





Damages on the young growth

Influence factors on the young growth in the northern alps 2007



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new predators

- If new predators (like wolf and bear), with large living areas will be reestablished in a multi-functional used living space, it is very important to **think about the consequences** for other landusers
- Maybe problems with other land users will arise (for instance tourism)! A **cooperative communication** is absolutly necessary
- Small predators (as lynx) can be an enrichment for the Alps (as regulators), but only when the hunting community will adapt their rules
- **It is very important to discuss and cooperate with all land users!**