

### **Durable assets**

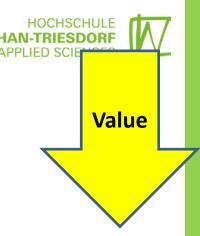
Depreciation



### Depreciation

over time

When assets lose their utility value

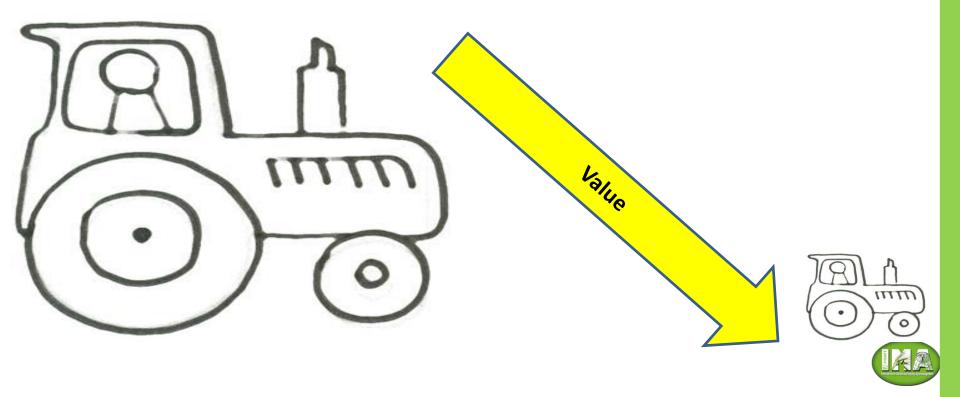


or become unusable over time due to wear and tear or technical obsolescence

Result = Depreciation of capital assets



## 12345678 WEIGHT OF PRICE STIENCES



## Why are we writing off?



Keeping records on depreciation

Depreciation = Expenses

Expenses = Profit reduction

= Deduction of profit-related taxes

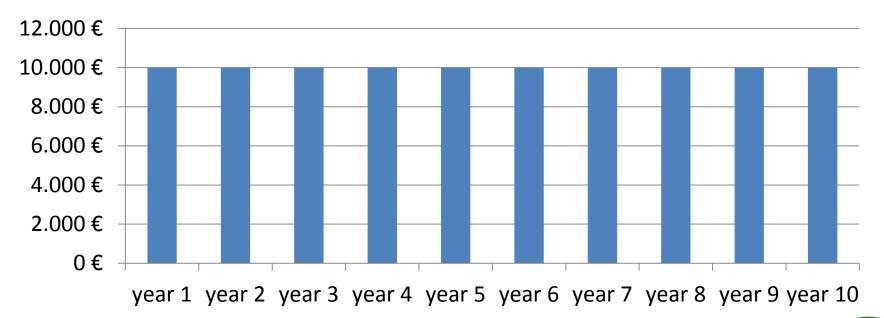


## Distribution of purchasing



costs

100.000 €





## Terminology



#### **Purchasing costs**

- Price of the machine
- Amount paid at purchase

#### **Residual value**

Value after operating life

#### **Book value**

Value in accounting



# Reasons for utilization limits



a) Technical or substantial obsolescence

New technology, PC, cell phone or decay of rubber and plastic

b) Wear of the machine through usage

High mileage, hours of use,...



### Depreciation threshold WEIHENSTEPHAN-TRIESDORF UNIVERSITY OF APPLIED SCIENCES



Performance reserve

10 000 h

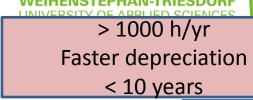
10 years

Depreciation threshold

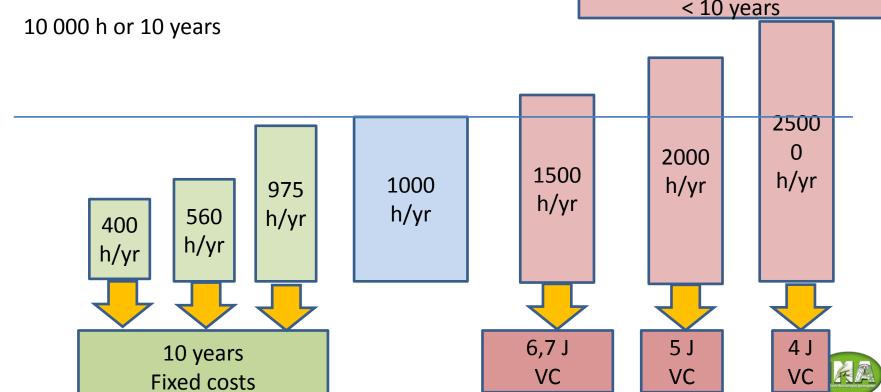
- = Performance reserve h/ performance reserve yrs.
- = 10 000 h/10 yrs.
- = 1000 h/yr.



## Depreciation threshold



HOCHSCHULE





#### **Linear depreciation**

Purchasing costs- Residual value

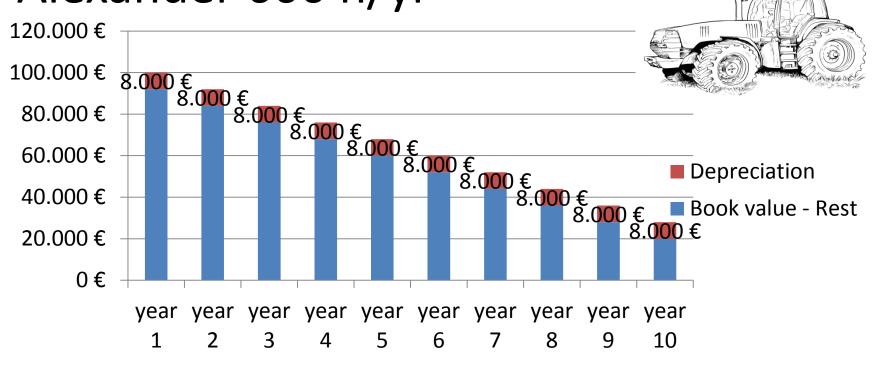
Years of usage

- Easy to calculate
- Appropriately distributed over usage period
- Works for annually equal usage
- Nominal maintenance of assets
- Real maintenance of assets only in case of constant prices (no inflation)



# Example tractor (200 hp) Alexander 600 h/yr

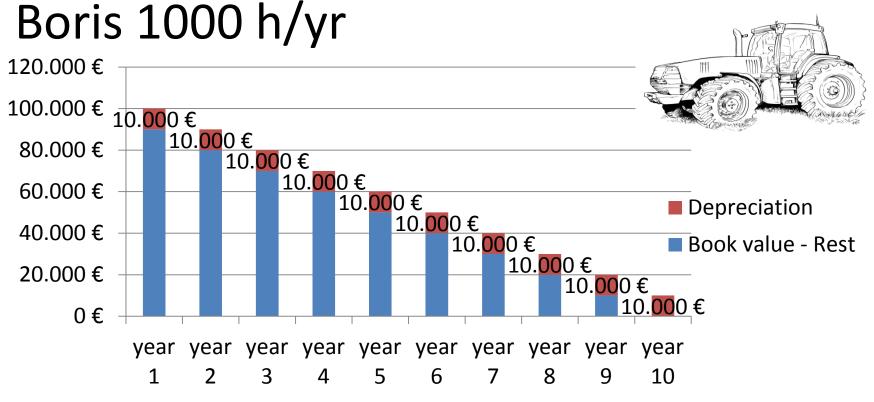






## Example tractor (200 hp)







## Perspective



- High increase in prices -> Depreciation of replacement value
- Unequal usage each year -> Unit-of-production depreciation
- Value-over-time = Resale value -> Declining-balancemethod
- Value-over-time = Repayment process of an annuity loan
  - -> Progressive depreciation

