

**Decision support in Forest planning  
& conservation:  
GIS & remote sensing**

Tobias Mathow  
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**Tree Height**

- 0-5m
- 5-10m
- 10-15m
- 15-20m
- 20-25m
- 25-30m
- 30-35m



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**storm risk management**

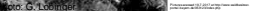


Photo: G. Blehm

Photo: G. Löffler

storm damage predictors:

- windfield
- tree species
- tree height
- soil



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### Strategic forest planning in 2016: Biberach state forest



**We knew already:**

- 1.600 ha spruce on waterlogged soils
- 1.000 ha spruce >= 60 years old
- storm damage risk increases significantly between 20-30m tree height

**Goals:**

- incorporate risk management into strategic forest planning -> act, don't react!

**LOCATE !**  
**VISUALIZE !**  
**QUANTIFY !**  
**PLAN !**

ForstBW  
LWL  
Landesforstverwaltung

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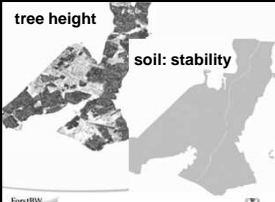
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### tree height



**soil: stability**

ForstBW  
LWL  
Landesforstverwaltung

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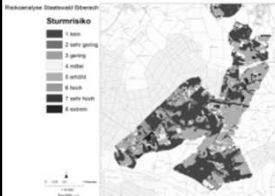
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### Risikoanalyse Sturmrisiko Biberach

**Sturmrisiko**

- 1 kein
- 2 sehr gering
- 3 gering
- 4 mittel
- 5 erhöht
- 6 hoch
- 7 sehr hoch
- 8 extrem



1:1000  
LWL  
Landesforstverwaltung

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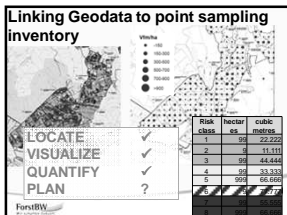
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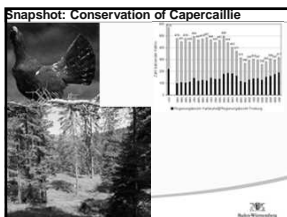
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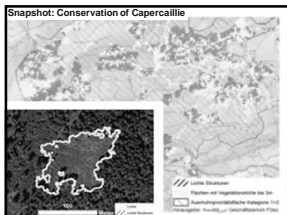
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