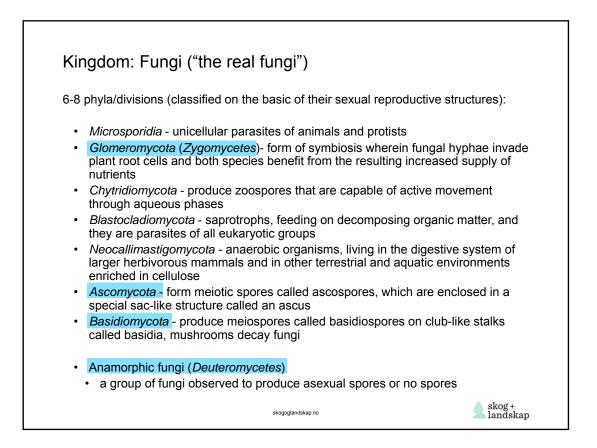
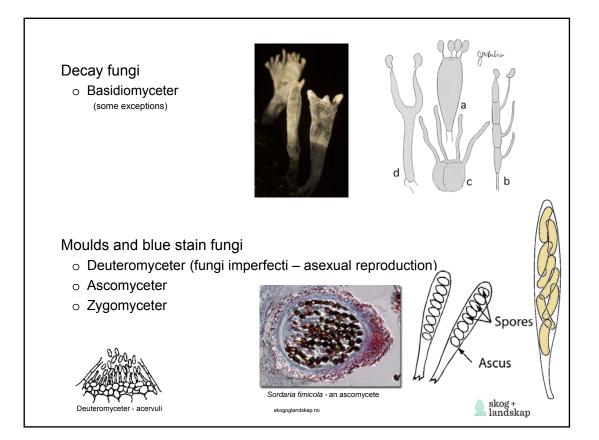
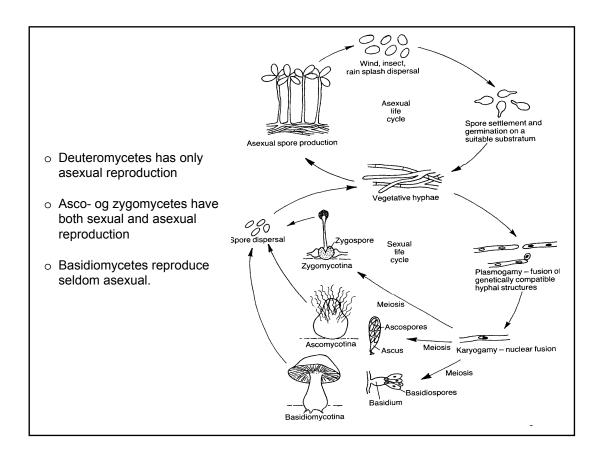
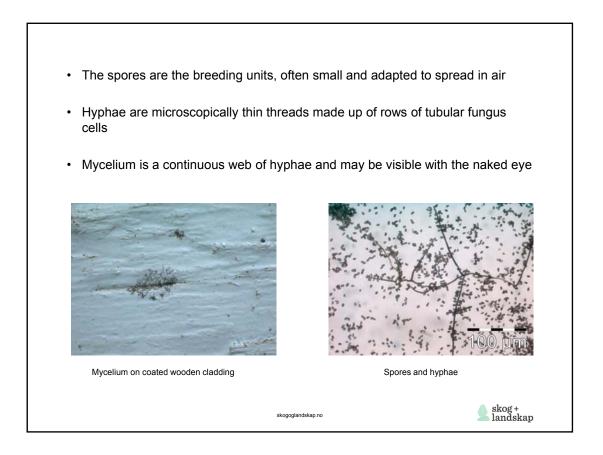


7









Decay fungi

<u>Brown rot</u> – the most common decay fungi in buildings

- Prefer conifers, particularly in standing forests.
- o Utilize cellulose and hemicellulos
- Wood becomes brown and cracks up across the fiber direction (to crack bricks).

 $\frac{White \ rot}{occur} - \ not \ so \ common \ in \ building, \ but \ can \ occur$

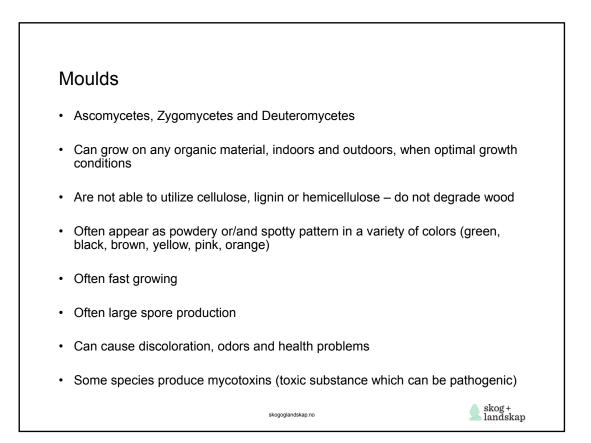
- Commen on stored soft wood, generally on hardwood and on living/standing forest
- $\circ~$ Utilize cellulose, hemicellulose and lignin
- Wood turns soft, spongy, stringy and relatively bright

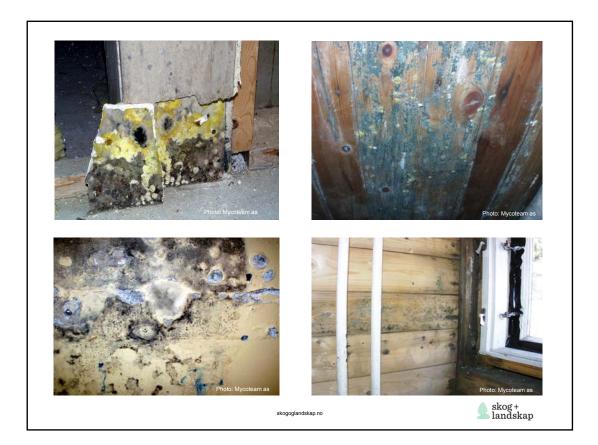


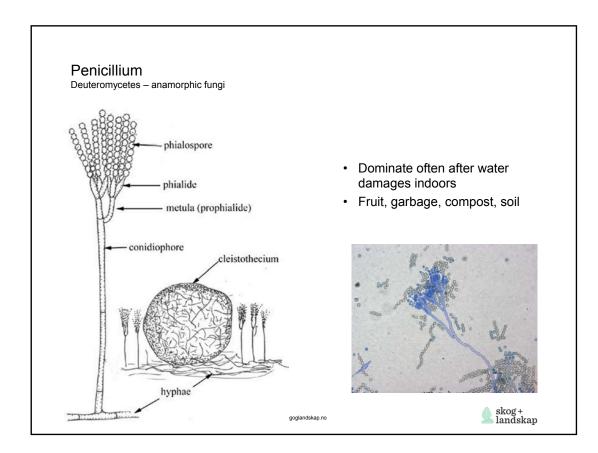


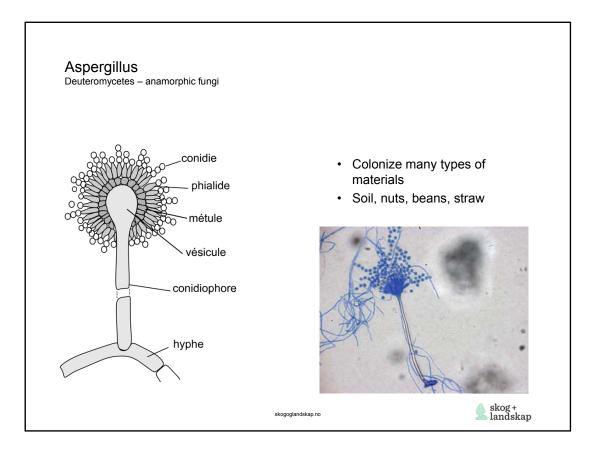


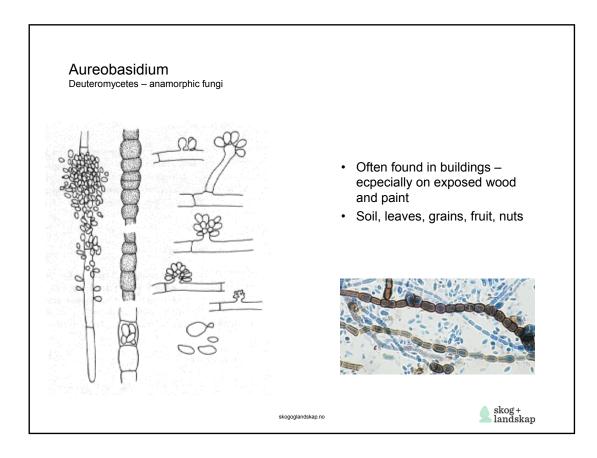
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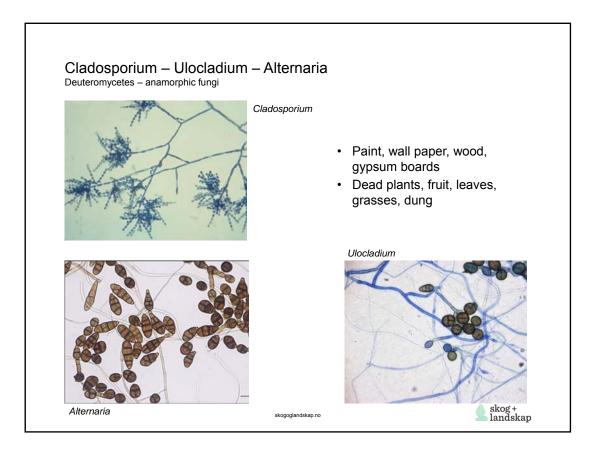


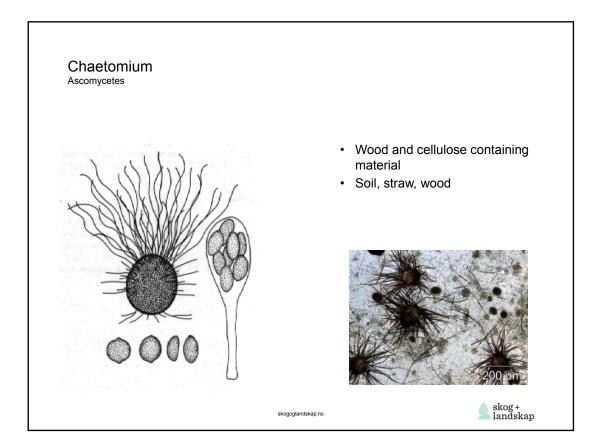




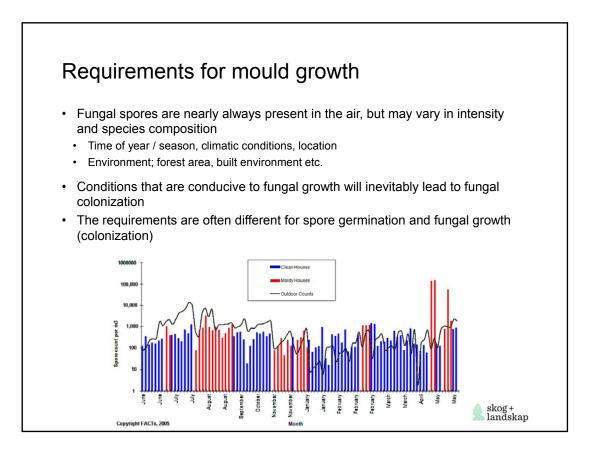


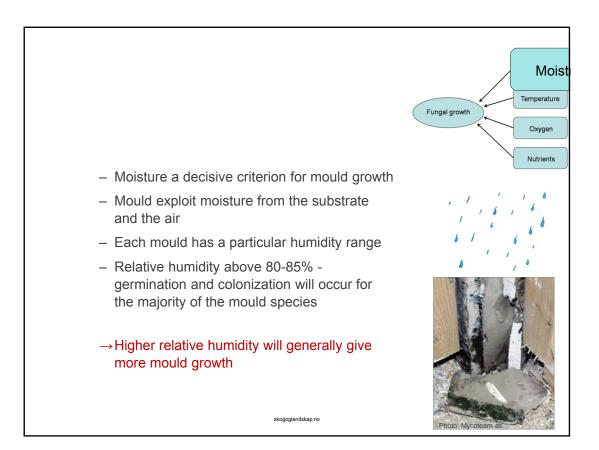


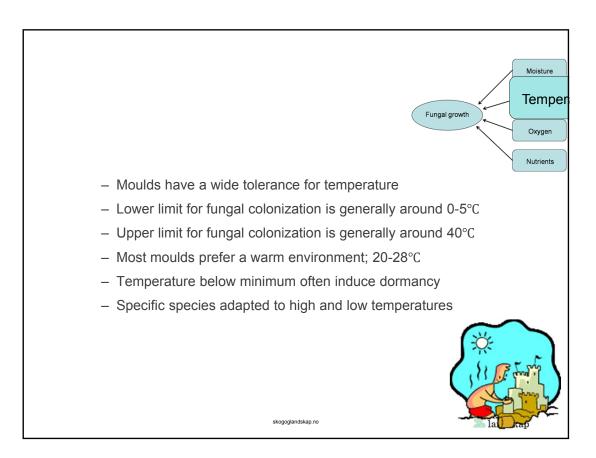


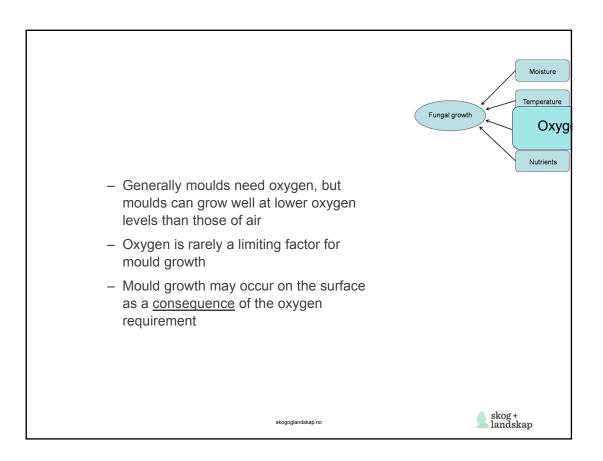


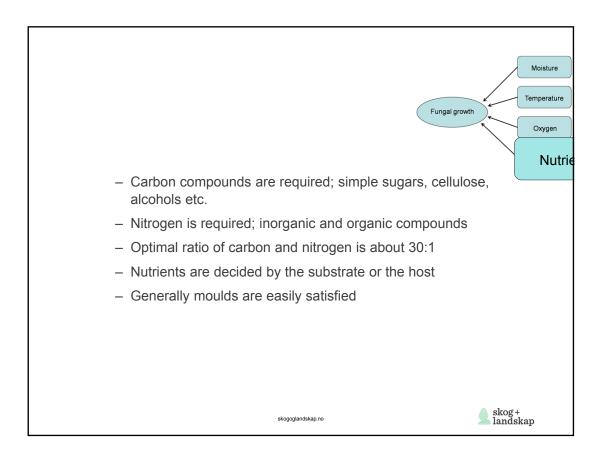
		g associated fungi (Fo	J,	
Chaetomium	globosum	Soil, straw, wood	Mostly on wood and cellulos containing materials	
Stachybotrys	chartarum	Hay and straw ⁶⁶ , paper, soil	Gypsum boards, pipe insulation	
Ulocladium	chartarum and atrum	Soil, dung, grasses	Wood, wallpaper, gypsum board	
Trichoderma	harzianum, citrinoviride, atro- viride and longibrachiatum	Wet wood, soil	Mostly on wood	
Alternaria	tenuissima	Saprophyte on plants, foods Cereals, Wallpaper, gypsum leaves		
Aureobasidium	pullulans	Soil, leaves, cereals	Paint especially in bathrooms window frames, paint	
Rhodulotorula	rubra		Paints, wood	
Phoma	sp.	Plant material, soil,	Paints, wood, wall papers, caulk ings, especially in bathrooms	
Aspergillus	versicolor	Cheese, cereals, spices, dried meat products	Most materials, primary colonise grows in dust	
Penicillium	chrysogenum	Various foods, spices, dry cereals	All materials	
Penicillium	brevicompactum	Soil, nuts, fruits and juices	Especially wooden materials	
Penicillium	corylophilum	Various foods Most materials, primary colonise		
Aspergillus	Sydowii	Soil, cotton, beans, nuts and straw Most materials, primary coloniser		
Aspergillus	ustus	Soil, cereals, groundnuts		
Cladosporium	sphaerospermum	Dead plants	Paints, wood, wall papers, caulk- ings, especially in bathrooms	
Cladosporium	herbarum	Dead plans, stored fruits	Paints, wood, wall papers, caul- ings, especially in bathrooms	
Penicillium	palitans	Cheese, wood	Most materials, but especial wooden	
Eurotium	repens	Cakes, dried food, cereals		
Wallemia	sebi	Dried foods, jam, cakes, dates, salted fish, sugar, chocolate		
Paecilomyces	variotii	Compost		
Penicillium	polonicum	Cereals, meat products		
Aspergillus	niger	Dried food, spices		
Penicillium	expansum	Nuts, fruits (apples)	Wood	

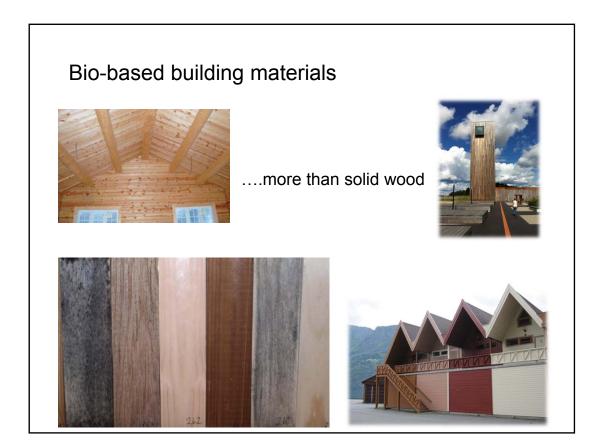




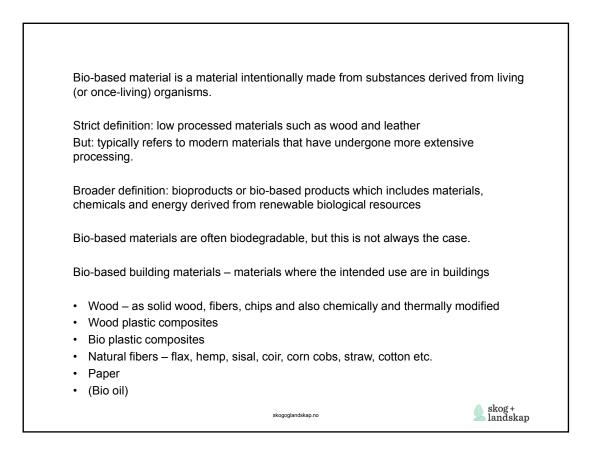


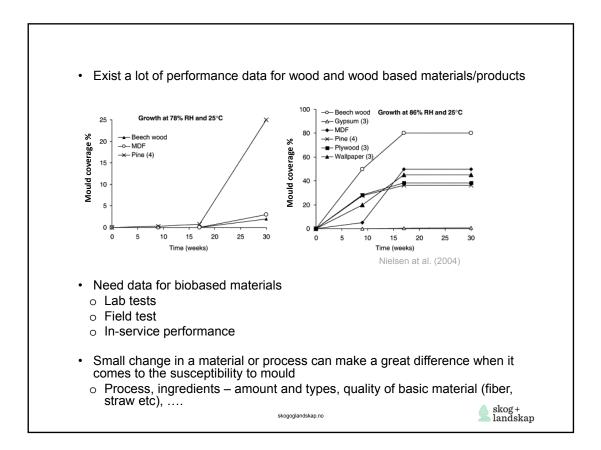






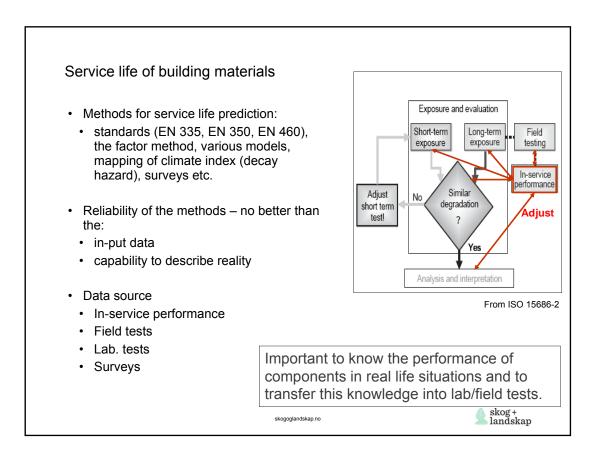


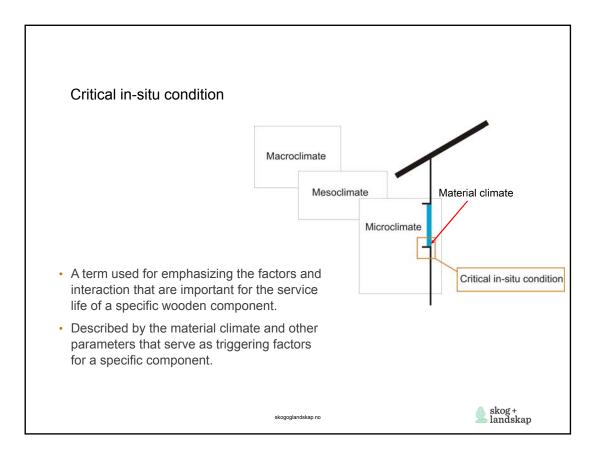






19





Influencing factors

Many factors have an influence on the weathering and the fungal discoloration of a wooden façade.

Knowledge about the impact of the influencing factors can be actively used to:

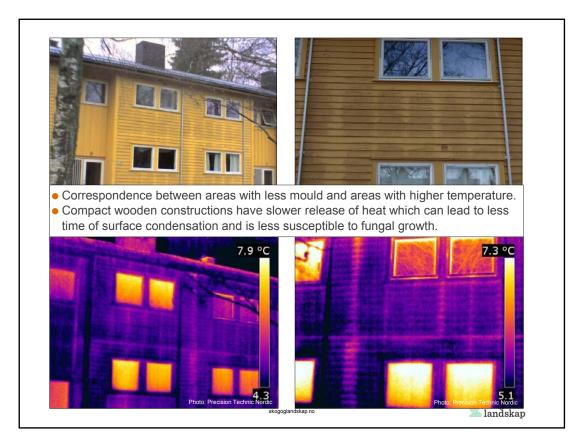
- · develop performance models
- · identify the main contributing factors in specific applications
- offer predictability when using discolouring fungi and weathering as a design option

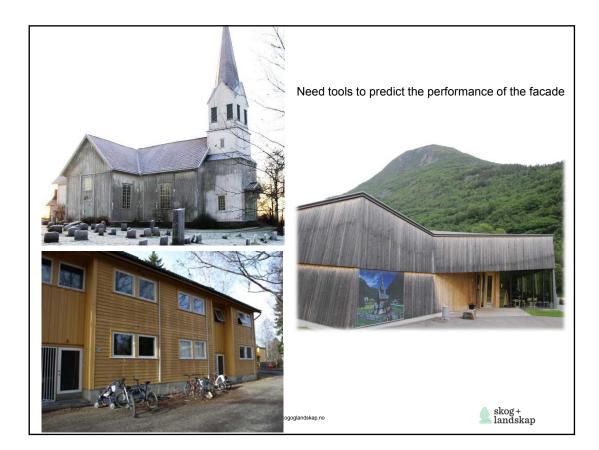
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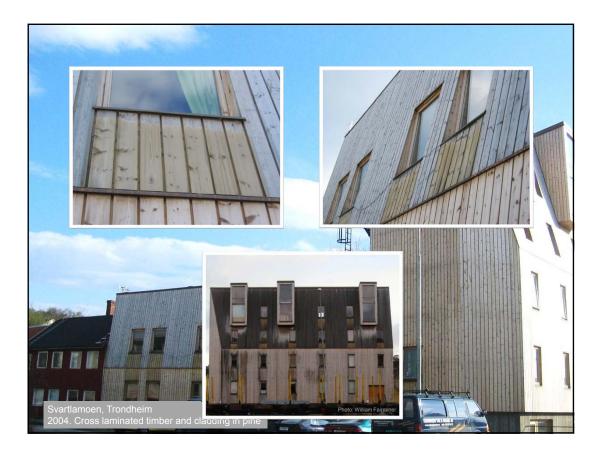
• create façades and elements with an aesthetical appearance that are in demand from architects, building owners and end-users

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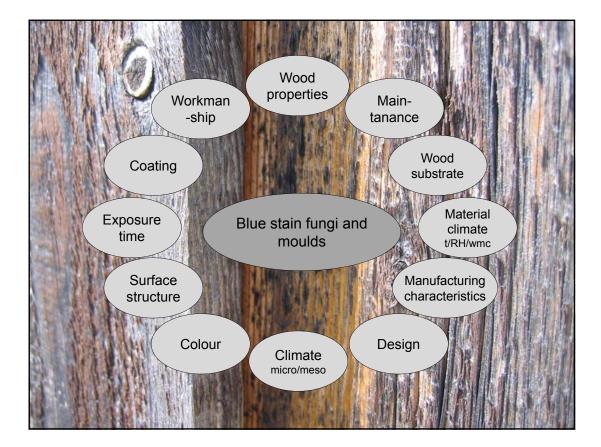
· extend the aesthetical service life of wood

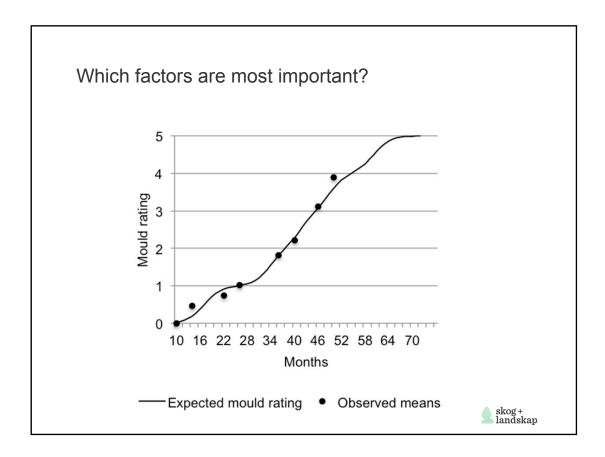














Influencing factors	Uncoated	Coated	
Exposure time	+++	+++	
Wood substrate	+++	++*	原本学校 14 演算法教教 書
Wood properties	+++	+*	TOTAL TILL TO THE TILL OF IT
Coating	N/A	+++	
Colour	(++)	++	The state of the s
Manufacturing	(+)	-*	· 國語、福利· 國王、 · · · · · · · · · · · · · · · · · · ·
characteristics			
Surface structure	(++)	++	· 建始长,到这些比如"此"上下。在199
Workmanship	(++)	(++)	· 编集中书明 宗宗殿、常 书门书 【】 * * *
Design	(+++)	(+)	
Material climate	+++	++	授物的《新》· 年,約約約5時時 · · · · · · · · · · · · · · · · · ·
Cardinal direction	++	++	
Climate (meso / macro)	++	++	

