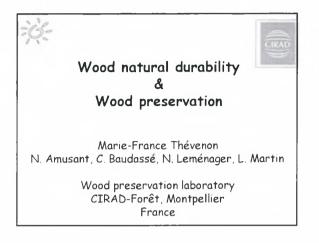
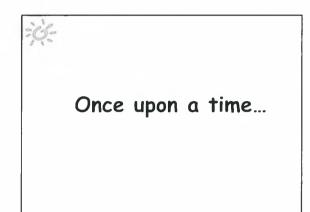
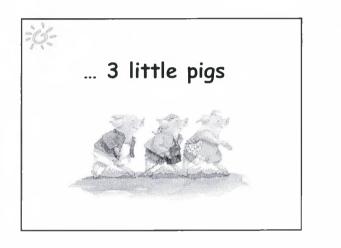
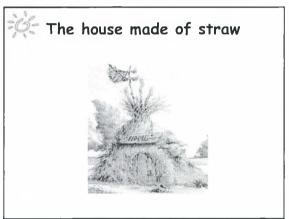
DK540035

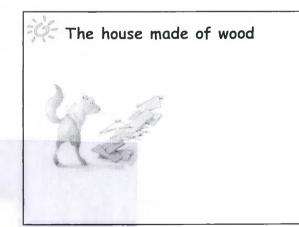
BA_RP 2639



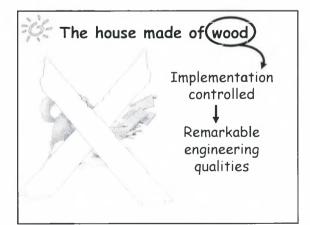






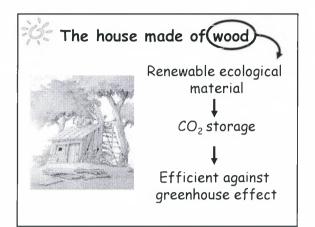


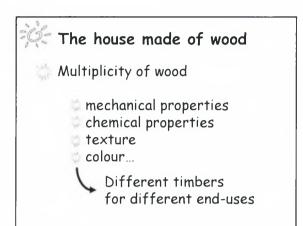
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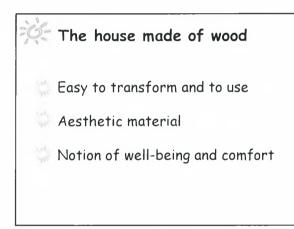


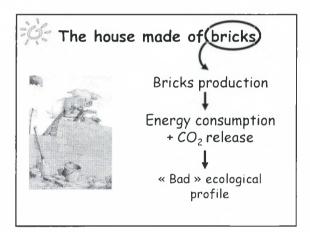
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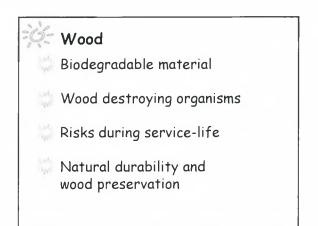


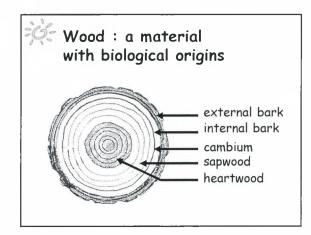
But despite all these facts, the only question that remains is...

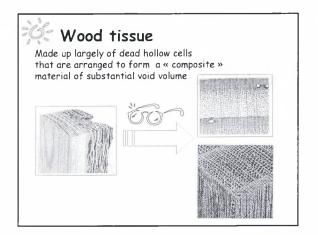
...How long will the wooden house last ???

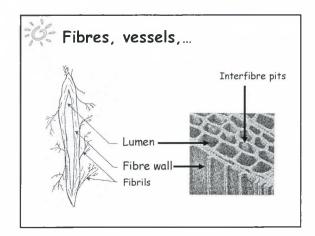
The wooden house

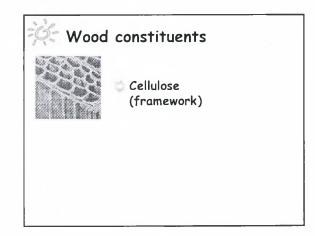
- Degradation risks and hazard?
- Service life of the wooden commodity???

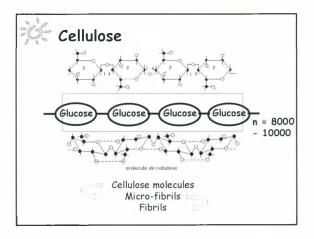


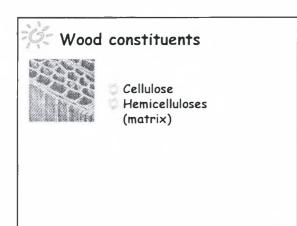


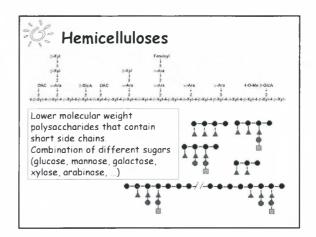


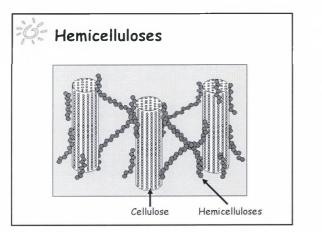


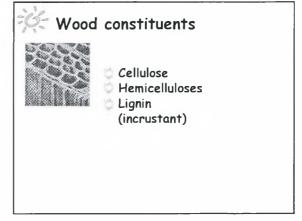


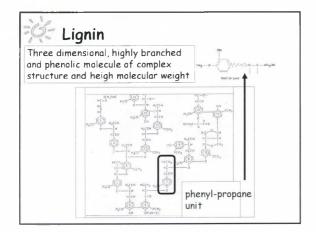


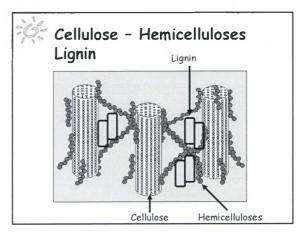


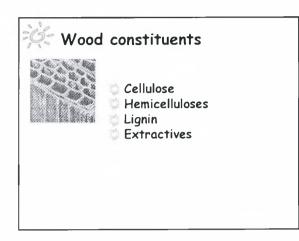


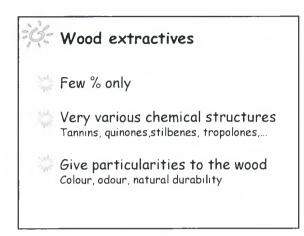


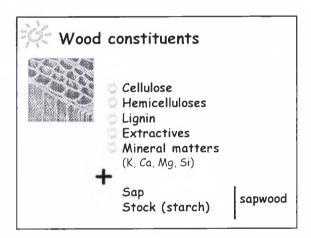


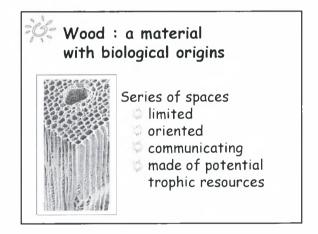


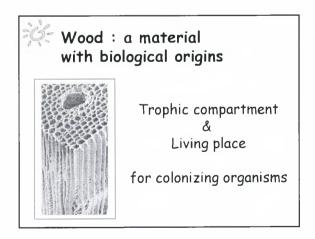


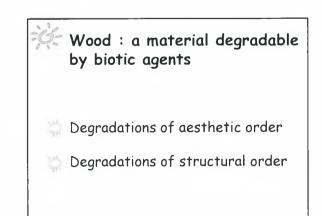


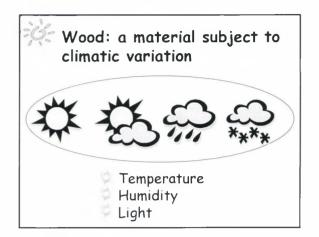


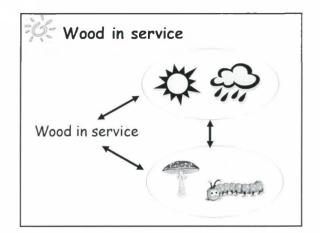


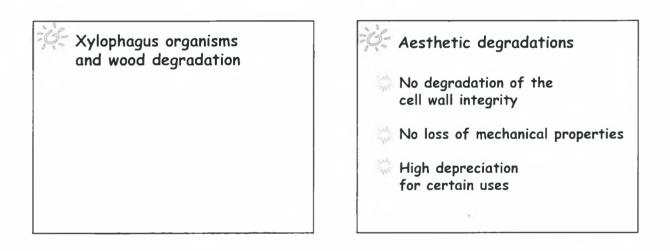


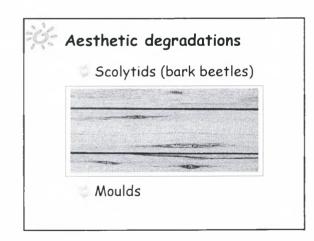


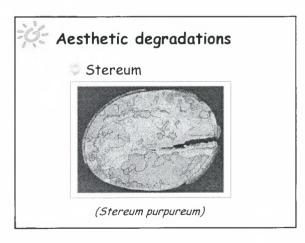


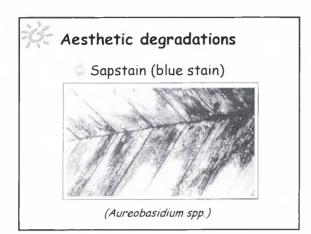


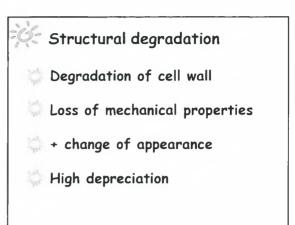


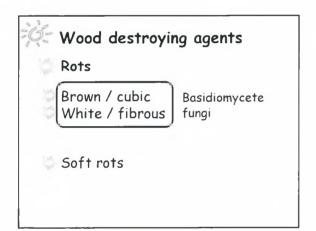


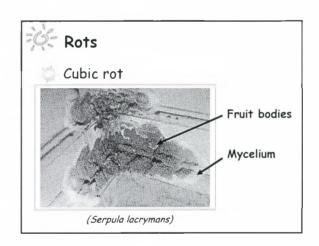


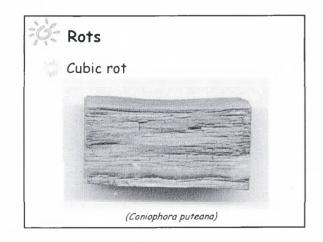


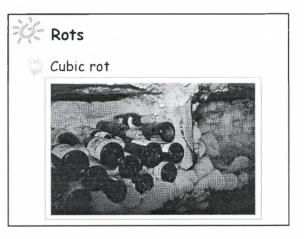


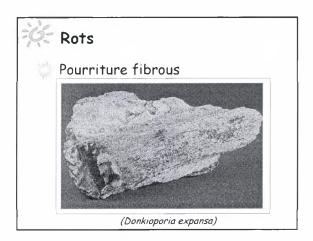


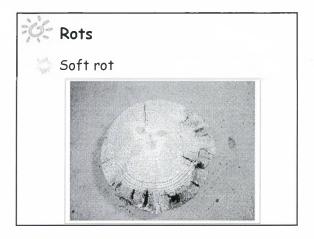


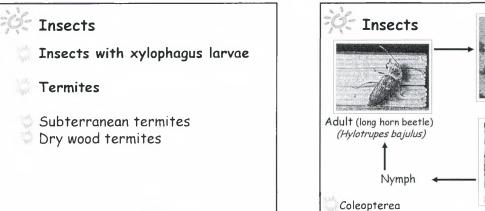


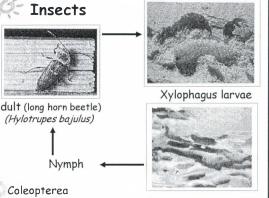


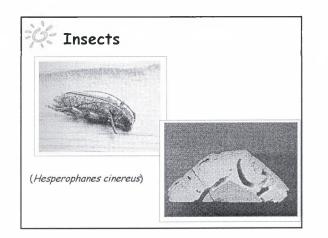


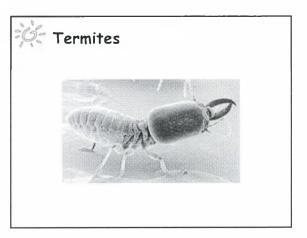


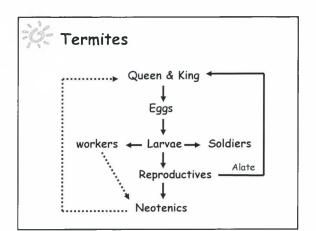




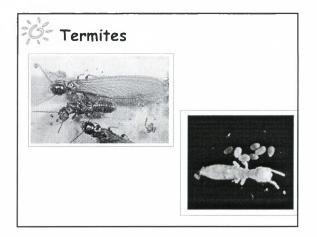


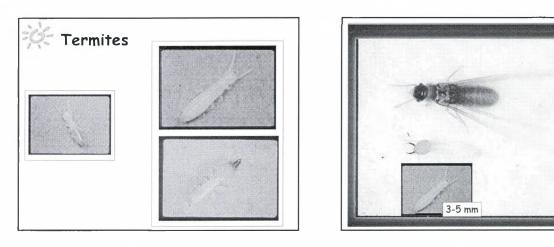


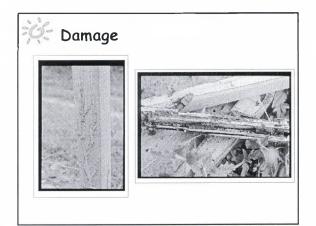


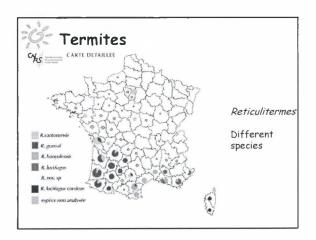


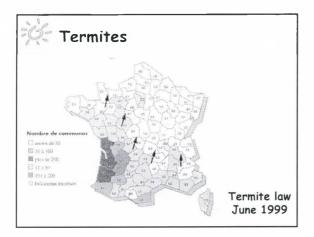
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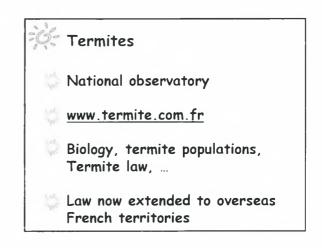


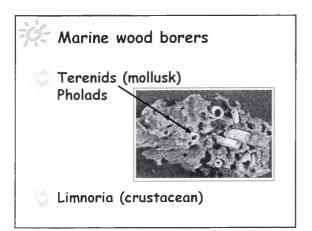


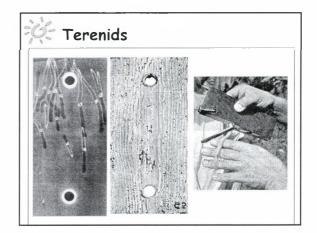


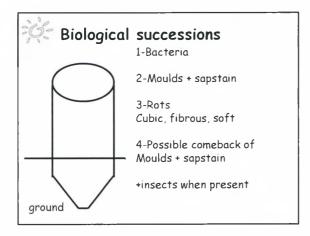






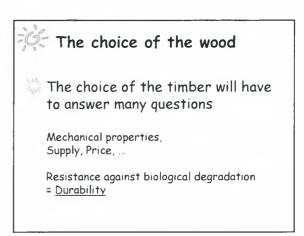


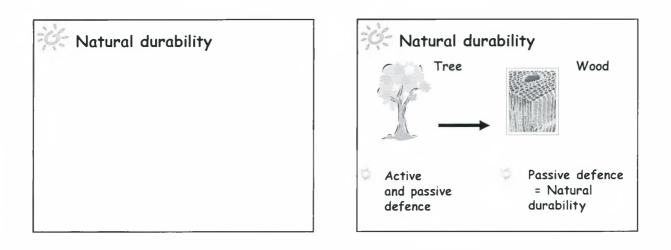


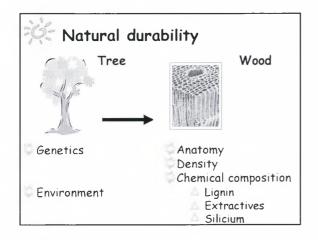


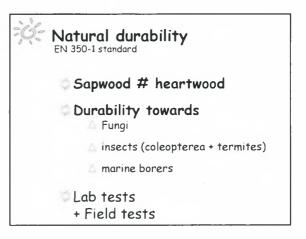
-C- Hazard c	lass
Class 1	👙 Furniture
Class 2	🐡 Carpentry
Class 3	🔅 Window, cladding
Class 4	🐡 Pole
Class 5 EN 335 standard	😂 Jetty, pier

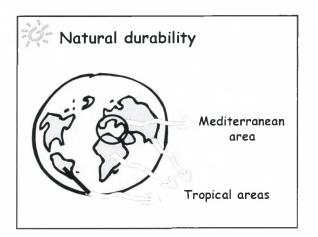
Different wood destroying organisms for the different hazard classes				
	Coleopterea	Termites	Fungi	
Class 1 Class 2 Class 3 Class 4		Local Presence	0.00	
ass 5	Marine bore	rs		



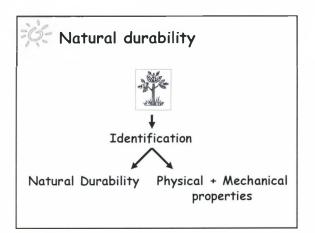


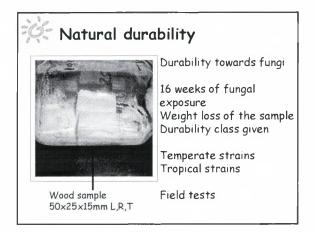


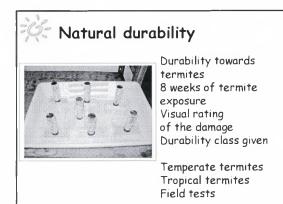


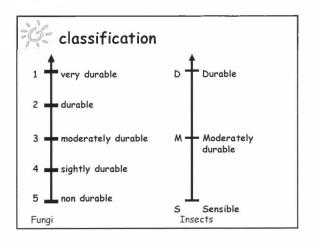


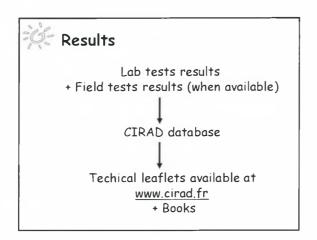


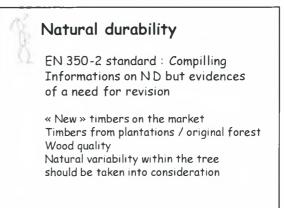












Natural durability

EN 350-2 standard : Compilling Informations on ND but evidences of a need for revision

« New » timbers on the market Timbers from plantations / original forest Wood quality Natural variability within the tree should be taken into consideration

Best use of timber



Natural durability

Natural durability evaluation

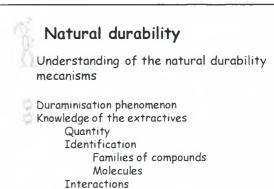
Limited number of trees Limited number of wood samples tested Time consuming method + not easy Destructive method

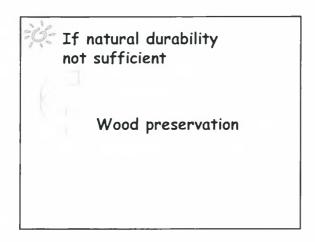
Natural durability

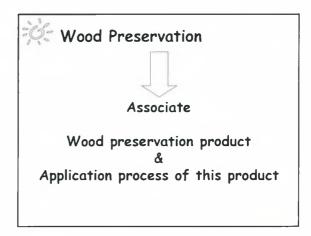
Natural durability evaluation

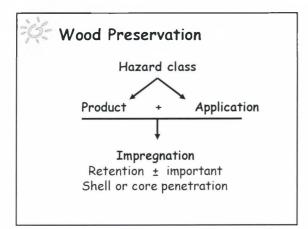
Limited number of trees Limited number of wood samples tested Time consuming method + not easy Destructive method

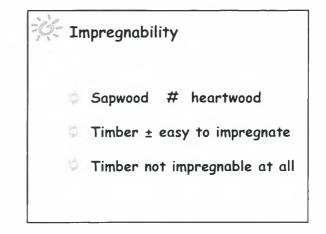
Natural durability prediction Easy and non destructive method Timber classification

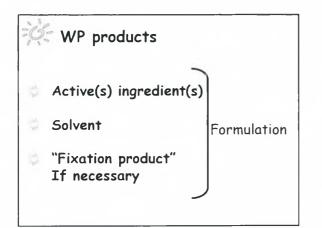


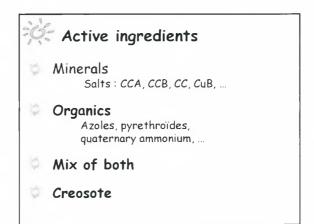












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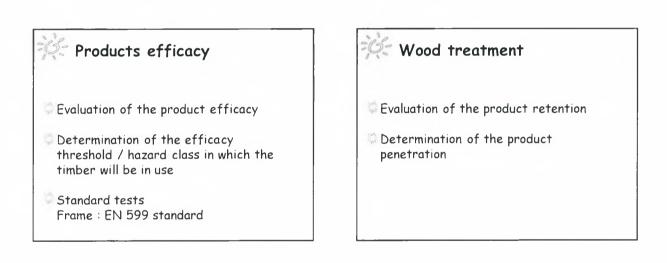
Solvents

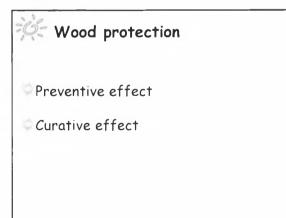
🔍 Water

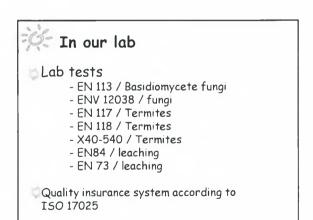
- Solvents (oil solvent) Light Heavy
- Development of emulsions, Gelified systems...

6 Process

- Shell impregnation (g of product/m2)
- Core impregnation (kg of product/m3)

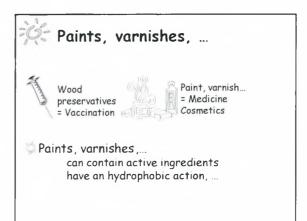


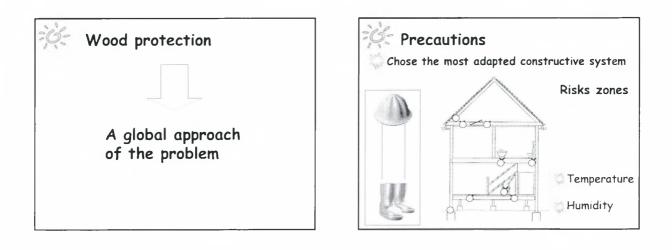


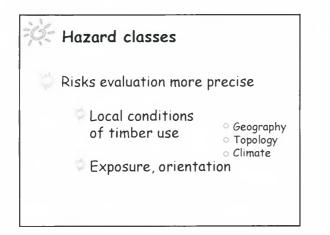


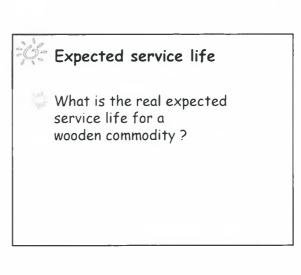
Certification

- Results from our lab can be used for product certification
- Certification body : CTBA Technical centre for wood and furniture Certification CTB-P+ / product Certification CTB-B+ / treated wood Certification CTB-A+ / treatment unit
- List of products available at <u>www.ctba.fr</u> Certification / construction / wood preservation









Timber choice

The right timber for the end-use envisaged

An adapted protection Product / Process

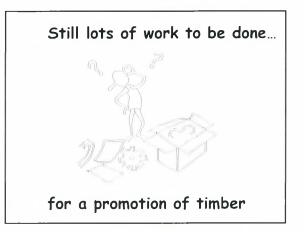
No « over -treatment »

Health & Environmental aspects

Regulations & restrictions

Environmental impacts

Wastes



行政院農業委員會林業試驗所主管科技計畫 九十四年度細部計畫説明書

加強與法國之木材科學交換合作研究(5/5) The project for strengthening the cooperation in wood science technology between R.O.C. and France(5/5)



1110188006369 2005/03/07 05:33:26

農委會林業試驗所 中華民國九十四年一月

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