



# EU Hardwoods

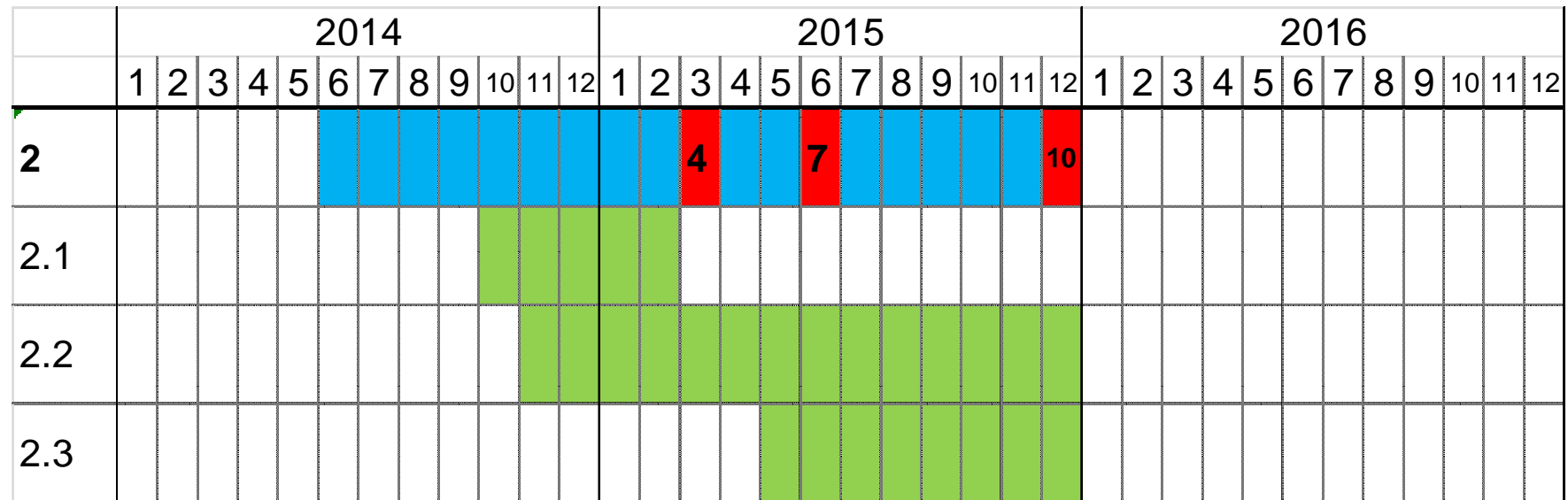
Meeting Stuttgart / 19.12.2014

Peter Linsenmann



# WP2

<b>2</b>	<b>WP2 - Basic hardwood strength data and grading tools</b>	HFA (lead), FCBA, Uni LJ, FVA, FVH
2.1	survey on existing lamella data with respect to species and dimensions	
2.2	allocation of hardwood lamellas to strength classes, lamella testing if necessary	
2.3	consolidate visual grading rules, obstacles machine strength grading	



# WP2.1 – survey existing data

		2014												2015											
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
2.1	survey on existing lamella data with respect to species and dimensions																								
	pt. 1: existing allocations & visual grading rules & machine grading input																								
	data collection (required main content currently in preparation)																								
	data verification and discussion on aspired strength class combinations																								

- EN1912:2013
- first literature screening
  - 19 citations found
  - 4 dealing with strength values
- literature from Ulrich Hübner not yet screened



## WP2.1 – EN1912:2012

species	country	grade	strength class
beech	DE	LS13, LS13K LS10+, LS10K+	D40 D35
ash	DE	LS10+, LS10K+	D40
oak	DE	LS10, LS10K	D30
maple	DE	LS10+, LS10K+	D30
sweet chestnut	IT	S	D24

# WP2.1 – EN1912

allocation of	country	species
beech	AT	beech, ash, oak
ash	DE	
oak	FR	
sweet chestnut	SI	

## WP2.1 – survey existing data

institute	species	testing mode	n	grade	comment
HFA	oak	flatwise edgewise	143 411	LS7, LS10, LS13	
holz.bau	ash	edgewise flatwise	-		visual grading available?
	ash beech	tension	398 406	LS7, LS10, LS13	
MPA	oak	tension	51	LS10+, LS13+	glulam
	beech	tension	51	LS13+	glulam, red heartwood
	sweet chestnut	tension	104	LS10, LS13	
Hübner	ash, oak, beech	-	-		dissertation

## WP2.1 – survey existing data

- data collection
  - CBD → no data available
  - FCBA →
  - no other input
- HFA budget for testing
  - 20.000 €
    - approx. 350 – 400 lamellas
    - sufficient for  $k_s = 1,0$



# WP2.2

		2014												2015											
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
2.2	allocation of hardwood lamellas to strength classes, lamella testing if necessary																								
	decision on allocation based on report only or report to TG1 for EN1912																								
	allocation based on existing data																								
	new data (if necessary)																								
	material supply																								
	visual grading and tensile testing (who is testing what)																								
	allocation based on existing and new data																								

# WP2.3

		2014												2015											
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
2.3	consolidate visual grading rules, obstacles machine strength grading																								
	pt. 2 (attempt to consolidate visual grading rules, obstacles in machine grading)																								
	compendium hardwood usage																								

## WP2 – review minutes

- “One of the first tasks is the data collection. Besides the literature search about the existing data, all partners will contribute the data they have. The partners will enquire if they are allowed to share the raw data (the question of ownership of the data).”  
(HFA / all)

## WP2 – outlook

- finishing literature study
- finishing data collection and data verification
- fixing allocations
- developing test plan

## WP2 – status

- cost (11.12.2014)  
5.900 € (3%)



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