



EU Hardwoods

kick-off meeting / 13.03.2014

Peter Lisenmann

Agenda

08:30 – 09:00 hrs	general issues, funding situation
09:00 – 10:30 hrs	WP2 – detailed work plan
10:30 – 12:00 hrs	WP1 – detailed work plan
12:00 – 12:30 hrs	lunch
12:30 – 13:15 hrs	WP3 – update
13:15 – 14:00 hrs	WP4 – update
14:00 – 14:45 hrs	WP5 – update
14:45 – 15:30 hrs	WP6 – update
15:30 – 16:00 hrs	any other business, next meeting

kick-off – general

- 14.11.2013 acceptance of EU Hardwoods for funding

strength	weaknesses
important topic	German partners partly have a service function only
objective & goals clearly defined	more partners from industry would be desirable
reasonable budget	dissemination towards users (architects, designers, etc.) must be enforced
very interesting project	
focus on representative species (in France): oak, beech (and ash)	
innovative, addresses challenge	

Recommendation → The deliverables should be described more precisely.

kick-off – general

- intention for this kick-off
 - coordination within the WPs by the leader
 - each WP leader should prepare a presentation
- definition and discussion of the next steps

funding situation

country	submission national proposal	approval	possible start
AT	07.02.2014	pending details to be clarified (VAT, ...) HFA submitted for all AT partners	01.03.2014
DE	in preparation	no official funding until July eligible costs probably from May	?
FR	31.01.2014	pending	01.03.2014
SI	end of 2013	granted	01.03.2014

funding situation

Task	2014				2015				2016			
0												
1.1												
1.2												
1.3												
2.1												
2.2												
2.3												
3.1												
3.2												
4.1												
4.2												
5.1												
5.2												
5.3												
6												

review of the minutes

■ meeting of 25.07.2013

more SMEs:

AT: Fachverband der Holzindustrie

HFA

DE: Studiengemeinschaft Holzleimbau, 1 producer glulam with hydraulic press,
1 producer of window scantlings

MPA

SI: 2 producers available who could join the project on a small scale

CBD

HFA will included distinct information on the new SMEs in chapter 3.5

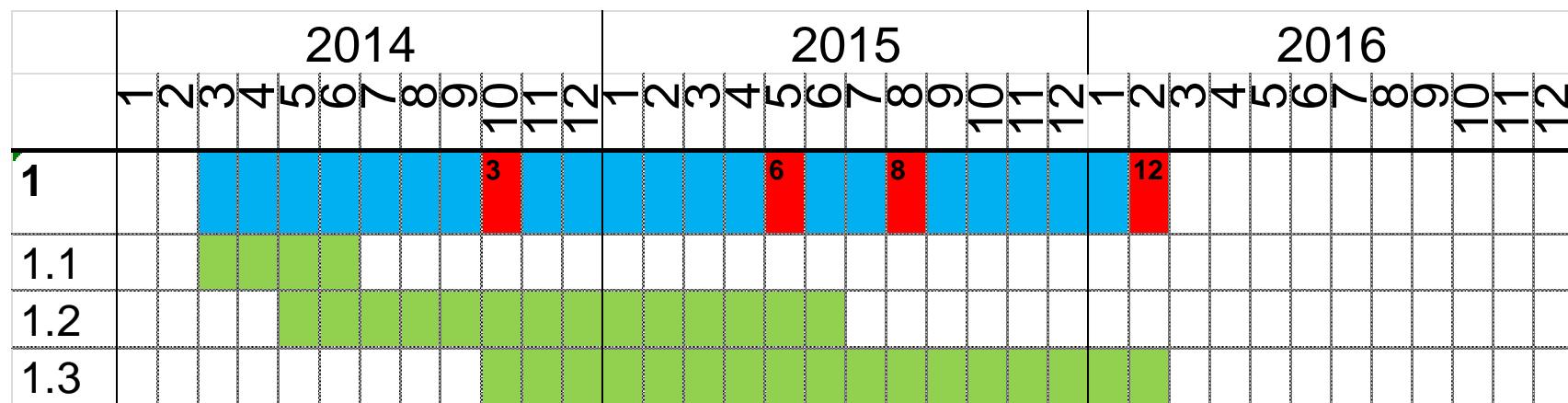
HFA

improving deliverables: please consult each WP.

WP0 – management

- management split between HFA and Uni LJ
- HFA
 - time schedule (e.g. milestone fulfilment)
 - reporting to WWN
 - meeting organisation and leadership
- Uni LJ
 - content (e.g. deviations from proposal)
 - seminar organisation
 - publications
 - web space

1	WP1 - hardwood resources in Europe	FVA (lead), FCBA, Uni LJ, BFW
1.1	quantification of recent resources in Europe	
1.2	forecast to future resource availability	
1.3	log quality and roundwood allocation potential	



WP1 – review minutes

expected outcome: report on European hardwood resource with respect to the building sector (actual potential and forecasts).

FVA

todo: define species, redefine content, communicate with partners concerning input and available data

FVA

WP2 – review minutes

expected outcome: report on existing European testing data, allocations and basis for simulation of hardwood lamellas (“EN1912”, beech, oak, ash, maybe chestnut (FR))

HFA

todo: clarify the synergies between WP2 and WP3 for the full proposal.

HFA

2	WP2 - Basic hardwood strength data and grading tools	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, additional lamella testing if necessary	
2.3	attempt to consolidate visual grading rules and address obstacles in machine strength grading	

	2014			2015			2016					
	1	2	3	4	5	6	7	8	9	10	11	12
2							4		7		10	
2.1												
2.2												
2.3												

WP2 – working plan

WP content	2014					2015					
	1	2	3	4	5	6	7	8	9	10	11
2 2.1 WP2 - Basic hardwood strength data and grading tools									4	7	10
2.1 survey on existing lamella data with respect to species and dimensions											
aims literature study on existing hardwood (mechanical) data; hardwoods in visual and machine strength grading ...											
literature survey pt. 1 (existing allocations, existing visual grading rules, existing machine grading input)											
data collection (required main content currently in preparation)											
data verification and discussion on aspired strength class combinations incl. grading rule											

survey – data, grading

- WG2 meeting
 - 26.03. – 28.03.2014 Paris
 - initiative of Tobias Wiegand for hardwood standard
→ Ulrich Hübner will get recent information
- literature on hardwood strength data / grading will be provided by Ulrich Hübner

survey - standards

- standards for visual hardwood grading listed in EN 1912
 - DIN 4074-5
 - INSTA 142
 - UNE 56-546
 - BS 5756+A1
 - (NF B 52-001 T2)

data collection

- focus on tension data
- set of parameters currently in preparation
- first step
 - species
 - institute
 - cross-section
 - country & region
 - strength, MOE, density acc. to EN 384
- second step
 - visual grading data
 - machine grading data

working plan

WP content	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	2014												2015											
2.2 allocation of hardwood lamellas to strength classes, additional lamella testing if necessary																								
aims allocation of as many hardwoods as possible in EN1912 for as many countries as possible; if necessary, additional testing																								
decision on allocation based on report only or report to TG1 for EN1912																								
allocation based on existing data: number of specimens graded acc. to which grading rule can be allocated to which D-class																								
new data (if necessary): discussion on what to test (species, source, grading rule, dimension, number of specimens)																								
material supply																								
visual grading and tensile testing (who is testing what)																								
allocation based on existing and new data																								

working plan

WP content	2014											2015											
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	12
2.3 attempt to consolidate visual grading rules and address obstacles in machine strength grading																							
aims harmonised visual grading rules; under which circumstances is strength grading possible (e.g. handling / manipulation, ...)																							
- literature survey pt. 2 (attempt to consolidate visual grading rules, obstacles in machine grading)																							
- compendium hardwood usage (in question)																							

3 WP3 - Adhesives for structural hardwood bonding

3.1 general: species dependent adhesives types, product dependent integrity tests designed for hardwoods, quality procedures adapted for hardwoods

3.2 finger-joints: consolidate finger-joint data in solid wood and laminations, investigate influence of size and finger-joint type for the different species with accomplishing test if

MPA (lead),
FCBA, HFA

	2014				2015				2016												
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
3																			16/17		
3.1																					
3.2																					

WP3 – review minutes

expected outcome: report on overview of adhesives for face bonding and finger-joints, modification of adhesive tests and requirements for future adhesives for hardwood approvals (new glues, new test methods, ...)

MPA

todo: rewrite the proposal for this WP in this manner more precisely

MPA

4	WP4 - Glulam made of hardwoods or hardwoods and softwoods	FCBA (lead), HFA, MPA, Uni LJ, Simonin
4.1	simulation of glued laminated hardwood timber: - homogeneous - inhomogeneous - hybrid	
4.2	validation testing for assortment of build-ups (produced under factory conditions)	

	2014			2015			2016		
	1	2	3	1	2	3	1	2	3
4									
4.1									
4.2									

WP4 – review minutes

expected outcome: equation for finger-joint strength with respect to lamella strength, scientific basis of EN14080-2 hardwood glulam including adapted strength model | FCBA

todo: adapt the WP to modeling first, testing only in missing part or exclusively to test the outcome of the model. | FCBA

5	WP5 - Cross-laminated hybrid timber	MPA (lead), CBD
5.1	out-of plane loading (e.g. floors)	
5.2	in-plane loading (e.g. walls)	
5.3	derivation of basic strength profiles and design rules	

	2014			2015			2016					
	1	2	3	4	5	6	7	8	9	10	11	12
5					5			9		11		
5.1												
5.2												
5.3												

WP5 – review minutes

expected outcome: report on new product hybrid hardwood / softwood x-lam;
improved shear, compression perp., bending capacity; potential for the building
sector (medium and high rise buildings); use of low quality “energy” material, focus on
beech

MPA/CBD

todo: very high variation within this WP (dimension, glue, pressing, planing, ...)

MPA

needs to be limited in the proposal!

together

clear definition to keep the parameters at bay (“reducing the matrix”)

with CBD

material modeling for mass production for beech-softwood combinations

exact design scenario available and possible usage presented in comparison to
present products e.g. increasing shear capacity with very low beech qualities,
deriving basic strength properties for hybrid CLT

WP6 – dissemination (Goran Turk)

- web space
- conference presentations
- joint articles in European Journal for Wood and Wood Products (> 3)
- two seminars for architects / civil engineers

→ keep track on dissemination and start in time

next steps

- define project start
- minutes (together with presentations) until 21.03.2014
- updated time table until 21.03.2014

how we would like to proceed

- coordination within WPs important to keep up with work
- content preparation and definition focused on WP as well as on the whole project
- suggestion:
each WP leader prepares every two months a short report on the state of the art to send out to the consortium

any other business

- date for the next meeting
- consortium agreement!



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