

LEONARDO DA VINCI NATIONAL AGENCY /
Education, Audiovisual and Culture Executive Agency



LEONARDO DA VINCI PROGRAMME

Second phase: 2000-2006

Pilot projects (including Thematic actions), Language competencies, Transnational networks, Reference material FINAL REPORT

NB: Please fill in the electronic (Web) version of the form at
http://ec.europa.eu/education/programmes/llp/leonardo/final_en.html

Agreement number: CZ/06/B/F/PP/168007		Contracting period: 1.10.2006 – 31.12.2008	
Year: 2006	Country: CZ	Project duration: 27 (months)	
Title: Educational Materials for Designing and Testing of Timber Structures			
Contractor: VŠB-Technical University of Ostrava, 17. listopadu 15, 708 33 Ostrava-Poruba			
Contractor's legal representative: Prof. Ing. Tomáš Čermák, CSc.			
Period covered by the report		From: 01/10/2006 To: 31/12/2008	
Contract amendments		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

DECLARATION OF CONFORMITY

I, the undersigned, hereby declare that the attached information is accurate and in accordance with the facts. In particular the financial data provided in this report corresponds to the expenditure actually incurred by the project partners for carrying out project activities. This information has been approved by the authorities representing the partners involved in the activities set out in this Report.

I hereby request a payment of EUR 11 440,31

.....
(Original signature of the person legally authorised to act on behalf of the contracting organisation and who signed the agreement)

.....
(Original signature of the Scientific co-ordinator, for RF projects only)
Name of Scientific Co-ordinator

Name of contractor's legal representative: Prof. Ing. Tomáš Čermák, CSc.....

Position within the contracting organisation: Rector of the university.....

Place & Date: Ostrava, 27.2.2009.....

Report to be returned to the following address:
Procedure B - *(Name and address of the National Agency)*
Leonardo da Vinci - Multilaterální projekty/Přenos inovací
Národní agentura pro evropské vzdělávací programy (NAEP)
Senovážné náměstí 24
116 47 Praha 1

Procedure C – Education, Audiovisual & Culture Executive Agency
Leonardo da Vinci Programme
Office BOUR

B-1049 Brussels, Belgium



A. CONTRACTING ORGANISATION

Information to be checked and updated, if necessary.

Name of the organisation in national language (full and abbreviated if applicable)	Vysoká škola báňská – Technická univerzita Ostrava
Name of the organisation in EN, FR or DE	VSB-Technical University of Ostrava

Head Office

Street	17. listopadu
Number	15
Post code	708 33
Town/city	Ostrava-Poruba
Country	Czech Republic

Contact Person

Name	Mr <input checked="" type="checkbox"/> Ms <input type="checkbox"/>	Doc. Ing. Alois Materna, CSc., MBA
Position	Dean of the Faculty of Civil Engineering	
Street	L.Poděšťe	
Number	1875	
Post code	708 33	
Town/city	Ostrava-Poruba	
Country	Czech Republic	
Telephone	++420 / 597 321 919	
Fax	++420 / 597 321 356	
E-mail	Alois.materna@vsb.cz	

Authorised signatory

Name	Mr <input checked="" type="checkbox"/> Ms <input type="checkbox"/>	Prof. Ing. Tomáš Čermák, CSc.
Position	Rector of the university	

Organisation type code ¹	Region code	Sector code (max 3)	Size code
U	CZ08	M80	S5

Project descriptors ² (max 3 keywords in English, French or German)		
Lifelong learning	Timber structures	E-learning

¹ Please use codes supplied in the application form

² Please refer to the **key words** provided in the Glossary (available at: http://ec.europa.eu/education/programmes/llp/leonardo/useful_en.html)



B. OVERVIEW OF THE ACTIVITIES AND ACHIEVEMENTS

Reminder

The Final Report shall cover all the activities and results for the whole project duration.

An original and one copy of all results and/or products must be sent to the National Agency or the Commission (Procedure C), together with this report.

B.1 - Outcomes and results

Please describe the concrete outcomes and results, including products, surveys, analysis, etc. of the project, the dissemination activities undertaken and the impact in the specific target group(s). (max 1 page, no more than 2000 characters).

The results of the project are educational materials which can be used at courses at technical universities, also be part of self-study and lifelong learning.

The outcomes of the project are as follows :

1. Handbook 1 – Timber Structures + technical dictionary (English-German-Czech)
2. Handbook 2 – Design of Timber Structures according to EC5
3. Two sets of case studies – 14 examples of successful utilization of timber in civil engineering and architecture
4. Instruction handbook to elaborated case studies
5. A template for preparing an entry into the database of timber constructions (Word version)
6. Database of timber constructions – 48 examples of timber structures in project partners' countries
7. Project website – available in English, Czech, German and Polish
8. 5 seminars on the issue of timber structures and timber-based constructions – 5 seminar reports
9. Handbooks – local language versions – Handbook 1 available in Czech/Slovak, German and Polish, Handbook 2 available in Czech, German and Polish.

The main dissemination activities of the project lied in organization of the seminars, participation at national and international seminars and conferences on the issue of timber structures and constructions, informing wide public on the project through articles in thematic magazines, placing the information on project partners' websites, through information DVDs containing the handbooks circulated to the professionals by Czech Chamber of Chartered Engineers with their magazine.

The impact on target groups can be considered positive. Through seminars, conferences and project website large number of professionals acquired knowledge on the project and its products. After finishing the products the new educational materials were put into practice as educational aids at lectures at some of the participating universities. By placing the products on the project website they are available to be used by professionals, students, lecturers and also for self-study of wide public. All target groups were given the opportunity to increase their awareness on the issue of timber constructions.

B.2 - Project achievements

B.2.1 - Did the project meet its targets in terms of outcomes (as given in the application form, particularly in the work programme). Please comment on any under or over achievements of targets? (max 1 page, no more than 2000 characters).

The project has met all its main targets. It delivered all planned products and it fulfilled almost all planned activities. The project incurred 3 months extension of time, which enabled the products to be finished at the highest quality. The only small trouble was in keeping the size of Handbook 1. The scope of the issue is large so it was decided to keep the size of Handbook 1 with approx. 250 pages instead of contracted 100 to ensure the quality of content of the material. That effected translation of Handbook 2, which resulted in Czech version instead of Czech/Slovak version due to financial matters. As some of the project products were finished at the end of the project the activity of products certification for continuous education is now in process and the



results are not known.

B.2.2 - What was the value added by the innovative aspects of the project? (max 1 page, no more than 2000 characters).

The value added by the project lies in the fact that an integrated set of educational materials in the field of timber structures and timber-based constructions was prepared. Such a compact set which would cover this area in one place and in such an extent has not been provided before. Innovation also lies in targeting of not only students but also professionals who are in the position of immediate utilization of the acquired knowledge and transfer of know-how offered by this project. As the project outcomes are placed at the website the outcomes are available to everyone interested in timber constructions and it can be downloaded free of charge.

B.2.3 - What was the overall contribution of the transnational work? Please comment on the value of transnational activities to the achievements of your project objectives at national and transnational level. Include any unanticipated benefits. (max 1 page, no more than 2000 characters).

The partnership in the TEMTIS project was multi-sectored and trans-national. By joining institutions from various sectors into partnership various views on the issue of timber structures were achieved and the products could be disseminated to a larger group of users. The trans-nationality enabled the final products to bear the generic aspects as well as country-specific aspects. Knowledge and experience of people from different sectors (practice and education) and countries enabled to prepare interesting and international outcomes. Cooperation of various countries has contributed to the balanced content of all project products. The feedback from the audience at teaching seminars in two countries (Poland and the Czech Republic) has also helped to improve the prepared educational materials.

B.2.4 - How do you consider the project partnership and project activities/results to be sustainable beyond the Leonardo project? (max 1 page, no more than 2000 characters).

The issue of timber structures and timber-based constructions is very specific. Most of the project partners will stay in contact for further development of education and research in this field and possible future cooperation in preparation of new projects. Most partners will meet at international conferences. The project products were promoted to Czech chartered engineers, Slovak Civil Engineers, to some universities in the countries of partnership oriented on timber structures education. The teaching partners are already using the educational materials at their academic grounds (VIA University College, NTNU - course TKT4211). VSB-TUO will use the handbooks for education of foreign students. Potential transfer of the products to other EU or non-EU countries is real. As the products are in English their utilization and availability at the internet website are very broad. The project website which contains information and project results will be supported by the project contractor P1 for next 5 years.



C. PARTNERSHIP

C – Please mention if there are any modifications³ to the initial partnership or in the distribution of tasks and budget amongst partners. Yes [] No []
If you have answered « Yes », please fill in the following tables with the final composition of the partnership.

Table C.1 – Partnership Changes

N°	Partner organisations, including co-ordinator or scientific co-ordinator which have withdrawn	Replacement partners*	Amendment request approved by NA or the Commission? (Yes/No)
1	P6-RD Rýmařov, ing. Jiří Pohloudek	First North Business, ing. Arnošt Kuděla	Yes
2			
3			
...			

N°	Reasons for withdrawal (½ page maximum, per case)
1	Due to changes inside the organization, the new director has decided to leave the partnership of the TEMTIS project. RD Rýmařov has decided to return the whole sum of the grant sent to their bank account and send it back to P1's bank account. All tasks and expected project costs of the withdrawn partner were distributed to a new joining partner F.N.B. The request for a partner withdrawal and a new partner joining the project was accepted by the Leonardo da Vinci agency in Prague and resulted in the Amendment No 1.
2	
3	
...	

Please add extra sheets if necessary.

³ Please note that changes to the partnership or substantial changes in the allocation of tasks would normally require an amendment to the initial contract.

* Please complete table C.2 below with additional information



Table C.2 – Changes to tasks and budget

N°	Partners (initial and replacement partners if appropriate)	Amount of budget per partner and LdV grant (initial amounts or new amounts if appropriate), after redistribution	
		Total budget (Euro)	LdV grant (Euro)
1	P1 (VSB-TUO) - Doc. Materna	57032	42774
2	P7 (Vitus Bering/VIA University College) – Eng. Hansen	34870	26152,5
3	P6 (RD Rýmařov) – ing. Pohloudek	0	0
4	P6 F.N.B. – ing. Kuděla	23 250	15 500

N°	Tasks taken over by the new partners and/or (re)distribution of the tasks between the initial partners (confirm initial tasks or redistribution compared to initial proposal) (½ page maximum, per case)
1	P1 redistributed a certain sum of money necessary for organization of the country seminar in Vitus Bering to P7 due to wrong typing in the project budget in the application.
2	P7 received money for organizing seminar in Vitus Bering in September 2008.
3	P6 – RD Rýmařov has left the partnership. The whole sum of the grant was sent to P1's bank account for further redistribution.
4	New P6 – F.N.B. joined the partnership and overtook the budget of the withdrawn partner RD Rýmařov.

Please add extra sheets if necessary.



D. WORK PROGRAMME

D.1 – Please describe clearly and briefly the activities undertaken from the work programme

Table D.1

Work packages⁴				Organisations involved in the activities undertaken
N°	Title of Work package	Start date (dd/mm/yyyy)	End date (dd/mm/yyyy)	
WP 1	Coordination and management	01/10/2006	31/12/2008	All partners
WP 2	Communication, promotion and marketing	01/10/2006	31/12/2008	All partners
WP 3	Handbook 1	01/01/2007	31/10/2008	All partners
WP 4	Handbook 2	01/01/2007	31/10/2008	All partners
WP 5	Organization and delivering of seminars and test teaching	01/10/2006	31/08/2008	All partners
WP 6	Case studies	01/10/2006	29/02/2008	All partners but P4, P8 and P11
WP 7	Database	01/04/2007	31/12/2008	All partners
WP 8	Products' local transfer	01/04/2008	31/12/2008	P1, P2, P3, P4, P9 and P11

Work packages	Aims and objectives of activities undertaken (½ page maximum, per package)
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⁴ Please indicate the effective dates of the activity undertaken in each work package.



<p>WP 1</p>	<p>Technical and economical management of the project, accounting and financial control. Coordination of the partnership and activities to go smoothly in accordance with the work programme. Evaluation of the Work Package. Organization of project partners meetings. Coordination of all project activities is ok. Financial management meets no problems. Preparation of Final report – accepted by EU. Satisfied and well served partners. Well managed and well run project. Accepted and approved final report. Positive internal and external evaluation of the WP1.</p>
<p>WP 2</p>	<p>Promotion of the project. Elaboration of Project marketing and communication plan and project logo. Project website creation in English and national languages. Project presentation at conferences and seminars. Internal 6 month evaluation. Evaluation of all Work Packages. Promotion of the project products and marketing of the products to professions, universities, local authorities. Promotion of the project and its products at conferences and seminars. Sending articles into technical journals. Website functioning after the project ends. English website working, contacts active.</p>
<p>WP 3</p>	<p>Preparation of a basic generic teaching material in a format of a handbook suitable for the Central European audience. The Handbook 1 – Timber Structures is to be prepared in English to stand for purposes of individual learning, but also to be used as a support material for lectures at universities, seminars and other courses. Preparations of the teaching and self-study material to be finished till the end of the project life. Positive internal evaluation.</p>
<p>WP 4</p>	<p>Preparation of a teaching and learning material in a format of a handbook. The Handbook 2 – Design of Timber Structures according to EC5 is to be prepared in English. The aim of the outcome is to become a useful learning and teaching material for the purpose of individual and teaching purposes. Creation of the high-quality teaching and studying material to be finished till the end of the project life. Positive internal evaluation.</p>



WP 5	<p>Organization of three country seminars and two teaching seminars. Spreading information on the project and its aims among laic and professional public. Presentations of the new methods and development in the field of timber structures and timber-based constructions. Min. 20 participants at each training seminar. Min. 40 participants at country seminars (altogether). Positive evaluation reports of the seminars.</p>
WP 6	<p>The aim is to elaborate two sets of successfully erected timber structures and constructions in the countries participating in the project. The case studies are accompanied by instructions from the Instruction handbook giving more detailed data on every construction. To enable preparation for lectures with Instruction handbook. Practical examples to be used at lectures or for self-study. Availability for wide public at the project website. Positive internal evaluation.</p>
WP 7	<p>The aim is to create and fill a database of timber structures and timber-based constructions to provide laic and technical public with information on timber structures in the countries of the partnership. Wide public will have a chance to enter examples of their projects into the database. Database to be filled with about 50 case studies. Database to be known in wide public. Positive internal evaluation.</p>
WP 8	<p>The aim is to translate the Handbook 1 and Handbook 2 into local languages. Certification of the courses. Products availability on the project website to wide public.</p>

Work packages	Activities undertaken (½ page maximum, per package)
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<p>WP 1</p>	<p>Technical and economical management of the project including coordination of WP1-WP8 to follow the work programme. Organization and participation at 4 planned project partners meetings and one special meeting. Preparation of the Project management plan. Economical and accounting issues related to the project and elaboration of the Interim report and Final report. Communication between partners and with the National agency NAEP. Project progress monitoring and evaluation. Gathering the comprehensive information about the project implementation of the project aims from the partners. Monitoring the progress. Accounting, administrative and technical management and control. Evaluation of single work packages. Evaluation and commenting on final report and final financial report. Internal and external evaluation.</p>
<p>WP 2</p>	<p>Creation of the project website in English and national languages – Czech, German, Polish at fast10.vsb.cz/temtis. Project website is kept updated. It has a private and a public site. It gives information on: project aims, structure of the partnership, information on the meetings, contact details on the project coordinator and project products. Elaboration of the Project marketing and communication plan. Project logo was created and approved by project partners. Opening media campaign took place during the press conference of Moravian-Silesian Timber Cluster in February 2007 in Ostrava. Media contacts, articles in technical and academic journals. Project and results presentation and promotion at conferences and seminars. Internal evaluation of the WP on a six monthly basis. Writing articles on the project and its products for technical journals and newspapers. Flyer for the announcement of the project deliveries was prepared. Marketing.</p>



<p>WP 3</p>	<p>Content drafting, distribution of chapters among partners. Development and finishing of the Handbook 1. Graphical design and illustrations. English editing and adding small dictionaries to the end of the handbook. Internal and external evaluation. Final copy proofreading. Placing the product on the project website. The final product consists of 15 chapters at 245 pages instead of planned 100 A4 format pages. During preparation of the text it became clear that the agreed number of pages is not sufficient to reach the quality of the material. We believe that the intent to prepare a high-quality material was fulfilled. The final version of Handbook 1 is available at the public part of the project website in section Products.</p>
<p>WP 4</p>	<p>Handbook preparation and content drafting. The development of the core of the handbook by the WP leader. Distribution of sample examples among partners. Development and finishing of the Handbook 2. Graphical design and illustrations. English editing and adding small dictionaries to the end of the handbook. Internal evaluation. Final copy proofreading. The final version of Handbook 2 consists of 136 pages. The planned extent of the material was exceeded to secure the quality of the material. The Handbook 2 consists of 10 chapters, 11 practical examples, amendment A1 to modify the Eurocode 5, Literature and Normative references. The final version of Handbook 2 is available at the public part of the project website in section Products.</p>
<p>WP 5</p>	<p>Information and organizational issues related to seminars planned in the project. Organization and participation at 3 country seminars – 19.4.2007 in Brno, 29.6.2007 in Graz and 11.9.2008 in Horsens. Organization of two teaching seminars - 28.3.2008 in Opole and 20.6.2008 in Prague. A CD with seminar proceedings was prepared for participants of the country seminar in Brno. Evaluation of all seminars and responses – delivery of 5 seminar reports which are available at the project website. Preparation of future events. Internal evaluation by P6.</p>



WP 6	<p>Template for PWP presentations was prepared as well as a Word template for the Instruction handbook articles. Two sets of case studies contain 14 examples of timber structures and constructions. The Instruction Handbook contains the same number of articles to the case studies to be used at lectures at 121 pages. The size of the handbook was exceeded as well, due to insertion of large number of pictures into the text. The products are available at public part of the project website in section Products. Internal evaluation.</p>
WP 7	<p>The database was created and the template for database entries was prepared. The database contains 48 entries. It is accessible from the project public website. All partners were obliged to give a certain number of examples according to the agreed table. The database will be in operation after the project end, it is open for entries provided by interested professionals and public from EU and non-EU countries. P1 provides the maintenance. Internal evaluation.</p>
WP 8	<p>Handbook 1 was translated into Czech/Slovak, German and Polish. Handbook 2 was translated into Czech, German and Polish. Due to more than doubled extent of Handbook 1, Handbook 2 is available in Czech language instead of Czech/Slovak language. Total number of Czech and Slovak pages is similar, books in Czech-Slovak language version are common. Local language versions of both handbooks are available at the public part of the project website in section Products. Results of attempt for obtaining accreditation were not finished in the time of this report preparation.</p>

Work packages	Divergences from the initial activities and reasons why (½ page maximum, per package)
WP 1	3-month extension due to delay in Handbooks production, 5 meetings instead of 4
WP 2	No major changes
WP 3	No major changes, only increase of the number of pages
WP 4	No major changes, only increase of the number of pages
WP 5	No major changes, only change of two seminars organization date.
WP 6	No major changes
WP 7	No major changes
WP 8	No major changes, only Handbook 2 is not prepared in Czech/Slovak version but only in Czech



Work packages	Impact in the project's operational objectives (½ page maximum, per package)
WP 1	This WP helped to manage the activities through coordination and to help the project management to deal with the delay effectively.
WP 2	Distribution of information on the project and its products to potential users.
WP 3	The key product. The page increase has positive impact on the quality.
WP 4	The key product. The page increase has positive impact on the quality.
WP 5	Service work package. Responses and feedbacks from seminars helped to improve the content and quality of the key products.
WP 6	One of the main products.
WP 7	One of the main products.
WP 8	Produced transfer of knowledge from the key products to local languages-Czech/Slovak, German and Polish.

Please add extra sheets if necessary.

D.2 – Partnership meetings

Table D.2

N°	Place		Date (dd/mm/yyyy)	Purpose of the meeting
	Country code ⁵	Town		
1	CZ	Ostrava	20/10/2006	Discussion over the project goals, over the working plan, contacts, distribution of tasks, information on administrative and financial issues, specification of deadlines and a plan of next meetings.
2	AT	Graz	28/06/2007	Check of activities and tasks in single Work Packages, information on Interim report, financial issues, deadlines of activities and products preparation.
3	PL	Opole	27/03/2008	Discussion over the Work Packages and their state of work, information on Interim report sent out in November 2007, information about partners tasks to be done until the end of the project, information on Final report, financial issues, evaluation.
4	CZ	Prague	20/06/2008	The objective of the meeting was to talk about state of work at work packages and preparation of Final report.
5	DK	Horsens	12/09/2008	Check of activities and state of work of products in single work packages, administrative and financial issues concerning Final report of the project, dissemination, evaluation and discussions about future activities.

⁵ Please use the codes which are in the application form



N°	Partners attending
1	P1 - VŠB-TUO (A.Materna, A.Lokaj, M.Zahnašová), P2 - IMK (R. Cvelbar), P3 – TU Graz (M.Augustin), P5 - CVUT (P.Kuklík), P6 – RD Rýmařov (J.Pohloudek), P7 - VBD (A.S.Hansen), P8 – NTNU (K.A.Malo), P9 – PO (A.Marynowicz, K.Pawlik), P10 – U.Maribor (M.Premrov), P11 – SKSI (D.Zlatňanská, V.Slabejová, J.Sandanus)
2	P1 - VŠB-TUO (A.Materna, A.Lokaj, M.Zahnašová), P2 - IMK (R. Cvelbar), P3 – TU Graz (M.Augustin), P4 – CKAIT (J.Plíčka), P5 - CVUT (J.Vídeňský), P7 - VBD (A.S.Hansen), P8 – NTNU (K.A.Malo, K.Bell), P10 – U.Maribor (M.Premrov)
3	P1 - Dr. Lokaj, Mgr. Zahnašová, P5 - Doc. Kuklík, P6 – Ing. Kuděla, P7- Mr. Hansen, MSc., P9- dr.inz.Marynowicz, Prof. Kubik, dr.inz. Perkowski, Prof. Wyrwal, mgr. inz.Pawlik, mgr inz. Kucharczyk, P10 - Assoc.prof. Premrov.
4	P1 - Dr. Lokaj, Mgr. Zahnašová, Doc. Materna, P3 - Ing.Zimová, P4 - Dip.Ing. Augustin, P5 - Doc. Kuklík, ing. Vídeňský, Dr. Kuklíková, P6 – Ing. Kuděla, P7- Mr. Hansen, MSc., P8 - Prof. Bell, P9 - dr.inz.Marynowicz, mgr.inz.Pawlik, P10 – Mr. Tajnik, P11- Mgr. Zlatňanská, Mrs. Slabejová, dr. Sandanus
5	P1 - Dr. Lokaj, Doc. Materna, P3 – Ing. Plíčka, Ing.Zimová, P4 - Dip.Ing.Augustin, P5 - Doc. Kuklík, P6 – Ing. Kuděla, ing. Poledník, P7- Mr. Hansen, MSc., P8 - Prof. Bell, P9 - dr.inz. Marynowicz, P10 – Assoc.Prof. Premrov, P11- Mgr. Zlatňanská, Mrs.Slabejová, dr. Sandanus

N°	Key results (summary of the minutes) (½ page maximum, per case)
1	<p>Making the acquaintances. Partners discussed over the work plan. Discussion over roles of partners in the project. Actual tasks were set. Administrative and financial issues were highlighted. 1st Minutes – see Interim report.</p>
2	<p>Project website was demonstrated. Tasks from minutes of the 1st meeting were checked. Important documents were highlighted. Deadlines of activities were pointed out. Information on preparation of the materials for the Interim report was given. Deadlines for all work packaged were set and the progress of all products was discussed. 2nd Minutes – see Interim report.</p>
3	<p>New P6- FNB was introduced by its director. Assessment of the Interim report was presented, information on preparation of Final report was given. Importance of dissemination was emphasized. State of work at Work Packages was checked and discussed, deadlines of activities were reminded.</p>



	3 rd Minutes – see Annex 10
4	Administrative tasks and financial issues were discussed and pointed out with respect to Final report date. New deadlines for activities and tasks fulfilling were set. Possible extension of the project life was discussed and agreed. State of work was checked. Minutes from Special meeting – see Annex 10
5	Information on the change of project duration approval was given. Importance on successful finishing of all products was emphasized. Administrative and financial issues for Final report were on programme. 4 th Minutes – see Annex 10

Please add extra sheets if necessary.

Table D.3

D.3.1 – For «NETWORKS »- Please describe the transnational partnership structure illustrating, in particular, those activities relating to ‘taking stock and analysis of existing knowledge’, ‘identification of needs and trends’ and the ‘dissemination of results’. (1 page maximum)

Describe both method and approach and note any changes from the original work programme.
Not applicable

D.3.2 – For « LANGUAGE COMPETENCES »- Please indicate the learners’ languages, levels and target languages of the project, method and didactic approach (e.g. task based learning, CLIL⁶, exchanges, tandem learning, tutoring, TELL, CALL, ODL⁷ etc.)

⁶ CLIL-Content and Language Integrated Learning

⁷ TELL-Technology Enhanced Language Learning, CALL-Computer Aided Language Learning, ODL-Open and Distance Learning



N°	Learners' languages codes ⁸	Target languages codes	Levels of proficiency ⁹
1	Not applicable		
2			
...			

N°	Describe method and didactic approach - please refer to the initial work programme and further note any changes. (½ page maximum, per case)
1	Not applicable
2	
...	

Please add extra sheets if necessary.

D.3.3 – For « REFERENCE MATERIAL» - Please describe the main results achieved.

N°	Description of Methodology
1	Not applicable
2	
...	

N°	Results
1	Not applicable
2	

⁸ Please use the codes which are in the application form

⁹ Beginner, Intermediate, Advanced



...	
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D.4- Please provide information on the partners that participated in dissemination activities in the whole project duration, in alphabetical order of country code using the table below.

Table D.4

N°	Country code ¹⁰	Name of organisation/institution in national language ¹¹	Name of organisation/institution in EN, FR or DE	Place Where it took place? Region code ⁵	What sectors were targeted by these dissemination activities? Sector code ⁵
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Prague – seminar “Management schválených projektů”, 11/2006, CZ01	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Ostrava - seminar “Dřevostavby od A po Z”, 11/2006, CZ08	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Ostrava – Press conference organized by MSDK – Moravian-Silesian timber cluster in, 02/2007, CZ01	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Brno – Czech Country seminar, 04/2007, CZ06	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Materiály pro stavbu magazine, 02/2007 - article on the project in a technical journal	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Akademik magazine, 05/2007 - article on the project in a magazine of VŠB-TUO	Education, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Zlín - seminar “Dřevostavby od A po Z”, 05/2007, CZ07	Construction, Education, F-45, M-80

¹⁰ Please use the codes which are in the application form

¹¹ Please provide this information also in EN, FR or DE, if available



P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Olomouc - seminar "Dřevostavby od A po Z", 09/2007, CZ07	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Ostrava – seminar "Dřevostavby – využití dřeva v bytové výstavbě", 11/2007, CZ08	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Brno – seminar "Dřevostavby od A po Z", 11/2007, CZ06	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Olomouc – seminar „Dřevostavby – využití dřeva v bytové výstavbě” , 5/2008, CZ08	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Zlín – seminar „Dřevostavby – využití dřeva v bytové výstavbě”, 5/2008, CZ07	Construction, Education, F-45, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Prague – Leonardo da Vinci Contact Seminar, 11 – 12/2007, CZ01	
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Akademik magazine, 06/2008 - article on the project in a magazine of VŠB-TUO	Education, M-80
P1	CZ	VŠB-Technická Universita Ostrava	VSB-Technical University of Ostrava	Ostrava – seminar "Dřevostavby dnes – produkty, technika, architektura", 05/2008, CZ08	Construction, Education, F-45, M-80
P2	SI	Inštitut za metalne konstrukcije	Institute of Metal Constructions	Presentation of the project at the University of Ljubljana, Faculty for Civil Engineering, Chair for Mechanics, SI00	Construction, Education, F-45,



P2	SI	Inštitut za metalne konstrukcije	Institute of Metal Constructions	Information on the project delivered to some companies and individuals dealing with the timber structures, SI00	Construction, F-45
P2	SI	Inštitut za metalne konstrukcije	Institute of Metal Constructions	Distribution of a flyer on the materials made in the course of the project, SI00	Construction, Education, F-45
P3	AT	Technische Universität Graz	Graz University of Technology	Graz – Austrian country seminar, 06/2007	Construction, Education, F-45, M-80
P3	AT	Technische Universität Graz	Graz University of Technology	'Grazer Herbstmesse' (Grazer Autumn Trade Fair) – 27.9.-5.10.2008 - poster	
P3	AT	Technische Universität Graz	Graz University of Technology	„Grazer Sonder Holzfachtagung“, 11/2008	
P4	CZ	Česká komora autorizovaných inženýrů a techniků činných ve výstavbě	Czech Chamber of Chartered Engineers and Technicians	Information on the project given on seminars organized by P4, foundation Dřevo pro život, seminars of a company Prezentace Staveních materiálů and organization proLignum – www.ckait.cz	Construction, F-45
P4	CZ	Česká komora autorizovaných inženýrů a techniků činných ve výstavbě	Czech Chamber of Chartered Engineers and Technicians	DVD Profesis	Construction, Education, F-45, M-80
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Historical and contemporary timber structures, Kostelec nad Černými lesy, CZ02	Construction, F-45
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Prague – pro Lignum seminar „Dřevostavby dnes – produkty, technika, architektura“, 11/2007, CZ01	



P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Prague – seminar „Dřevostavby a jejich perspektivy v České republice“, 11/2007, CZ01	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Lísek u Bystřice nad Pernštejnem – conference „Dřevostavby v praxi“, 11/2007	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Prague – seminar „Výpočet požární odolnosti konstrukcí“, 2/2008, CZ01	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Prague – Teaching seminar, 06/2008, CZ01	Education, M- 80
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Ostrava, proLignum seminar 5/2008, CZ	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Dubňany, Timber framed houses seminar, 5/2008	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Prague, Seminar for civil engineers, 9/2008, CZ	
P5	CZ	České vysoké učení technické v Praze	Czech Technical University in Prague	Karlovy Vary, Seminar for civil engineers, 11/2008, CZ	
P6	CZ	F.N.B.	First North Business	Exhibition Wooden Buildings/ Prague CZ, 28.2.2008	
P6	CZ	F.N.B.	First North Business	International seminar "Dřevostavby" Volyně, 19.-20.3.2008	
P6	CZ	F.N.B.	First North Business	Seminar (Workshop) of wooden industry companies and University/Banska Bystrica SK, 23.4.2008	
P6	CZ	F.N.B.	First North Business	Seminar Wooden Buildings/Zlín CZ, 28.5.2008	



P6	CZ	F.N.B.	First North Business	Seminar Development of clusters in Central European Countries/Hoehner-Grenzhausen D, 2.-6.6.2008	
P6	CZ	F.N.B.	First North Business	Meeting of Wooden Industry companies with regional administration/Olomouc CZ, 22.5.2008	
P6	CZ	F.N.B.	First North Business	Festival of Wood/Ostrava CZ, 24.9.2008	
P7	DK	VIA University College	VIA University College	List of magazines in Denmark informed about the project	
P7	DK	VIA University College	VIA University College	Horsens – Country seminar in Denmark, 09/2008	Construction, Education, F-45, M-80
P7	DK	VIA University College	VIA University College	Invitation for Country seminar in Denmark was send out to all the members of the Danish Timber Information – website	
P8	NO	Norges teknisk-naturvitenskapelige universitet	Norwegian University of Science and Technology	Oslo (NO) Feb 2008, Seminar	Professionals from the wood based industry
P8	NO	Norges teknisk-naturvitenskapelige universitet	Norwegian University of Science and Technology	Trondheim (NO) Feb 2008, Workshop	Professionals from structural engineering companies
P8	NO	Norges teknisk-naturvitenskapelige universitet	Norwegian University of Science and Technology	Tromsø (NO) Jun 2008, Presentation	Key persons in the wood based industry
P8	NO	Norges teknisk-naturvitenskapelige universitet	Norwegian University of Science and Technology	Trondheim (NO) Dec 2008, Workshop	Professionals from construction companies



P8	NO	Norges teknisk-naturvitenskapelige universitet	Norwegian University of Science and Technology	Trondheim (NO) Feb 2009, Seminar	Professionals from : <ul style="list-style-type: none"> • wood based industry • construction companies • consulting companies • research organizations • Norwegian road authorities • Norwegian Research Council
P9	PL	Politechnika Opolska	Opole University of Technology	Opole – Teaching seminar, 03/2008	Education, M- 80
P10	SI	Univerza v Mariboru	University of Maribor	Hong Kong – “4th International specialty conference on Fibre reinforced materials”, 10/2006	Construction, F-45
P10	SI	Univerza v Mariboru	University of Maribor	seminar- 29. Zborovanje gradbenih konstrukterjev Slovenije – Bled, 10/2007	Construction, F-45
P10	SI	Univerza v Mariboru	University of Maribor	seminar- 30. Zborovanje gradbenih konstrukterjev Slovenije”, Bled, 10/2008	Construction, F-45
P11	SK	Slovenská komora stavebných inžinierov	Slovak Chamber of Civil Engineers	Information in “Inžinierske informácie” (Engineering information) – Bulletin of SKSI	Construction, F-45



E. RESULTS / PRODUCTS

E.1 – Please describe the project final results (e.g. products, materials, surveys, analysis, etc.) and indicate the languages in which they are available.

NB: An original and one copy of all results and/or products must be sent to the National Agency or the Commission (Procedure C), together with this report.

Products/Outputs/Results ¹²						
N°	Full title	Languages ¹³	Types of support			
			Web site ¹⁴	CD ROM	Printed	Other (specify)
1	Handbook 1 – Timber Structures	EN	Fast10 .vsb.c z/temti s	Yes	No	
2	Handbook 2 – Design of Timber Structures according to Eurocode 5	EN	Fast10 .vsb.c z/temti s	Yes	No	
3	A set of case studies	EN	Fast10 .vsb.c z/temti s	Yes	No	
4	Instruction handbook to elaborated case studies	EN	Fast10 .vsb.c z/temti s	Yes	No	
5	Template for preparing an entry into the database of timber constructions	EN	Fast10 .vsb.c z/temti s/db	No	No	
6	Database of timber constructions	EN	Fast10 .vsb.c z/temti s/db	No	No	
7	Project website	EN, CZ, PL, DE	Fast10 .vsb.c z/temti s	No	No	
8	Seminars on the issue of timber structures and timber-based constructions	EN, local languages		No	No	Reports available at project website

¹² Results as contractually agreed (taking into account all agreed contractual amendments).

¹³ Please indicate for each type of support the code of languages available.

¹⁴ Please provide the address (URL) of the Internet site



9	Handbooks – local language versions	CZ, CZ/SK, PL, DE	Fast10 .vsb.cz/temtis Partners' websites es-write in!!!!!!	No	No	Available at partners' websites
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N°	Dissemination of these results / products - by whom and where ¹⁵ (½ page maximum, per case)
1	P7 - The course "Global Structural Analysis" 4 ECTS point Autumn 2008 with 40 students from Portugal, Spain, Poland, Latvia, Lithuania, France, Hungary 1. Handbook 1 Chap 14. 2. Handbook 2 Chap 9.2 Wall diaphragms 3. Case Study "Production building" + Instruction handbook.
2	P7 – 3-semester project a part of 10 ECTS point Danish students used Handbook 1 chap 14 and the case study "Production Building".
3	P7 - The following international projects in 2008 has used handbook 1, 2 and case studies as important literature for the project 1. "Wooden footbridge" Martin Cepelka, Czech Republic 17 ECTS 2. "Bridge of wood" Gustav Mathiassen, Denmark 18 ECTS 3. "Two storey residential building in wooden structure" Arturas Janutis and Laimonas Cekanauskas, Lithuania 9 ECTS 4. "Timber, low energy and autonomous construction" Etienne Breton and Thomas Brissonneau, France 7 ECTS and Teemu Koskieniemi, Finland 15 ECTS
4	P8 – Handbooks and examples of constructions will be used in the basic course of timber engineering starting in spring 2009-course TKT4211 (part of Master of Science degree in Structural Engineering).
5	P3 – materials were used at lectures (Holzbrückenbau (Timber Bridge Engineering) and Baustofflehre (Material Technology)) at Graz University of Technology.
6	P2 – Announcement on the products availability was sent to potential users – they can be downloaded from the website
7	P5 – project and its products were mentioned at Technical University of Minho in Guimarães/Portugal and Technical University of Catalonia in Barcelona/Spain

Please add extra sheets if necessary.

E.2 – Please indicate the type, when, where and how « evaluation and testing » of results have been carried out.

N°	Title of result / product	Type of evaluation and testing	Results

¹⁵ Enterprise, training organisation, university, etc.



1	Handbook 1	Teaching seminars	Evaluation and Seminar report, good results
2	Case studies and Instruction handbook	Teaching seminars	Evaluation and Seminar report, good results
3	Handbook 1	Internal and external evaluation	Positive internal and external evaluation
4	Handbook 2	Internal and external evaluation	Positive internal evaluation
5	Case studies	Internal evaluation	Positive internal evaluation
6	Database	Internal evaluation	Positive internal evaluation

N°	Partners involved	When	
		Start date (dd/mm/yyyy)	End (dd/mm/yyyy)
1	P1, P3, P4, P5, P6, P7, P8,P9, P10, P11	28/03/2008 + 20/06/2008	28/03/2008 + 20/06/2008
2	P1, P3, P4, P5, P6, P7, P8,P9, P10, P11	28/03/2008 + 20/06/2008	28/03/2008 + 20/06/2008
3	All partners	12/2008	12/2008
4	All partners	12/2008	12/2008
5	All partners	12/2008	12/2008
6	All partners	12/2008	12/2008

N°	How was the evaluation and testing carried out
1	Testing occurred at teaching seminars in Opole and Prague.
2	Testing occurred at teaching seminars in Opole and Prague.
3	Partners evaluated the final version of the product, external evaluator has reviewed the result.
4	Partners evaluated the final version of the product
5	Partners evaluated the final version of the product
6	Partners evaluated the final version of the product

Please add extra sheets if necessary.

E.2.1 - Has the project led to exploitable results / products? Yes [X] / No []

E.2.2 - If Yes, does the partnership intend to commercialise these results / products? Yes [] / No [X]

E.3 – Please describe the impact of the project (maximum 2 pages):

- What is the project impact on existing employment & vocational education & training (VET) systems/strategies?
- Which activities were carried out in order to transfer the project results/products in terms of partner countries and target groups/target sectors? Please also specify the results of this activity.
- What activities are planned by the partnership to further develop the project results?

The project provides materials for education of students in Master study programmes and supports utilization of wood and timber-based materials by spreading new knowledge and sample applications in systems of lifelong learning of civil engineers and architects.

The outcomes were presented at many seminars. The products are available at project websites, the materials were introduced into operated information systems for free use.

The partner organizations participated on preparation of the educational materials for implementation of Eurocodes for designing of building structures – especially EC5. The prepared database is open and ready to accept new entries based on the template.



The issue of EC5 will be further developed at institutions of P1 and P5 by their specialists.

If you have answered "Yes" to the question E.2.2, please fill in E.4 and E.5

E.4 – Please describe the marketing strategy

N°	Title of result and / or product	Languages in which they are available	Target group
1			
2			
...			

N°	Distribution channels
1	
2	
...	

Please add extra sheets if necessary.



E.5 – Please indicate the type of existing agreements between partners regarding results/products

N°	Results and / or products	Agreements ¹⁶	Partners involved
1			
2			
...			

Please add extra sheets if necessary.

E.6 - Please provide a clear description of the products developed by the project (max. 2 pages)

The project aimed at production of 9 outcomes, which was finally achieved. The products are as follows:

1. Handbook 1 – Timber Structures. This educational material consists of 18 chapters and provides the reader with the basic principles and knowledge in the field of timber structures.(PDF)
2. Handbook 2 – Design of Timber Structures according to EC5. This material provides sufficient but clear information on the subject. The handbook describes principles of EC5 in 10 chapters and shows practical examples.(PDF)
3. A set of case studies – two sets of 14 case studies show successfully realized timber constructions in countries of the partnership. They show information on the construction from its preparation till realization.(PPT) Together with Instruction handbook this interactive teaching aid can help the lecturers in making the lectures more interesting and oriented also on practical examples.
4. Instruction handbook to elaborated case studies – The text was designed for teachers and lecturers to get a better understanding of presented case studies and present them to students and professionals the right way. (PDF).
5. A template for preparing an entry into the database. The template provides structure of a database entry. (DOC)
6. Database of timber structures – the product’s purpose was to gather timber constructions and timber-based construction on one place for inspiration and information for everyone interested. At the time of preparation of the Final report, there were 48 entries.
7. Project website – the website promotes the project and makes all the products available for free download. It is available at “fast10.vsb.cz/temtis” in English, German, Czech and Polish.
8. Seminars on the issue of timber structures and timber-based constructions. 5 seminars were organized – 3 country seminars aimed at new trends in timber engineering and two teaching seminars focused on testing of the prepared educational materials.
9. Handbooks – local language versions. German, Czech/Slovak and Polish versions of the key project products – Handbook 1 and Handbook 2. The language versions have the same structure as the English version.

F. GENERAL COMMENTS and ANNEXES

F.1 – Please describe briefly the difficulties encountered in undertaking the project and which solutions were found to overcome the difficulties (maximum 1 page).

One of the difficulties was to coordinate the partnership consisting of 11 partners from different countries and sectors to fulfil their tasks.

¹⁶ intellectual property rights, right to reproduce parts, licences, royalties, patents, etc.



F.2 – List of annexes to the original of the report (mail delivery):

1. Evidence of bank transfers between the contractor and all partners but P6 (2nd pre-financing payment)
2. Copy of the contract between the Contractor and new P6, evidence of bank transfer concerning the 1st pre-financing payment
3. VAT declaration form from new P6 – original
4. Copy of Amendment to the contract concerning replacement of a partner P6 – RD Rýmařov
5. Copies of Amendment no.2 to the contracts between the contractor and all partners
6. Copies of subcontracting agreements, invoices and receipts for the period 1.10.2007 – 31.12.2008
7. Finished products:
 - A) Handbook 1 – printed + on CD-ROM
 - B) Handbook 2 – printed + on CD-ROM
 - C) 2 sets of case studies and Instructions handbook – printed + on CD-ROM
 - D) Handbook 1 in Czech/Slovak, German and Polish – printed + on CD-ROM
 - E) Handbook 2 in Czech, German and Polish – printed + on CD-ROM
 - F) Dictionary of technical terms for Handbook 1
 - G) CD with TEMTIS project products
8. Invitations and Minutes from the 3rd, 4th and a special project meeting
9. Documents related to dissemination
10. Flyer for the announcement of the project deliveries
11. DVD Profesis
12. Seminars in Opole, Prague and Horsens – Invitations and reports
13. Internal evaluations of the main products
14. External evaluation of the key products and WP1
15. Internal evaluation of all WorkPackages
16. CD with Final report and financial tables
17. Request for the final payment
18. CD with photo documentation

NB: The following documents MUST be submitted with the Final Report:

- evidence of bank transfers between the contractor and ALL project partners (where not previously submitted)
- copies of contracts between the Contractor and ALL project partners (where not previously submitted)
- copies of Subcontracting agreements and invoices - including all Call for Tender documentation (where not previously submitted)

G. FINANCIAL REPORT

Self-calculating (Excel) financial tables must be completed for all projects at the Interim Report and Final Report stages. The financial tables are available for download at:
http://ec.europa.eu/education/programmes/llp/leonardo/final_fr.html along with supporting Guidelines.

All pre-financing payments are regarded as advances pending explicit approval of the Final Report for the project, the corresponding financial report and the quality of the project results.



Receipt Acknowledgement

Final Report

This page will be returned to you when your Final Report has been received. Therefore, please complete the information below clearly.

Title of project:

Name of contracting organisation	VŠB-Technical University of Ostrava, Faculty of Civil Engineering
Name of legal representative	Assoc.Prof. Alois Materna, Ph.D., MBA on behalf of Prof. Ing. Tomáš Čermák, CSc.
Street Number	L.Poděště 1875
Country code - Post code - Town/City	708 33 Ostrava-Poruba, Czech Republic
Fax number	+420 597 321 356

Date you sent in your report	27 / 02 / 2009
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Reserved for National Agencies / Executive Agency:

Documents received:

Final Report	Original + copy + electronic copy
Annexes	

Products received:

CD-ROM	
http://	

Missing data, to be submitted ASAP (not later than two weeks):

Where information/documentation is requested within this Receipt Acknowledgement, please note that all proceedings relating to the payment of the final instalment are suspended until the related information/documentation is received.

We acknowledge receipt of your Final Report:

Country	Year	Project type	Project number
		PP / TH / LA / NT / RF	

Please use this number in all communication with your National Agency / Executive Agency.

Date: _____ Signature: _____

Name: _____

Position: _____

