LEONARDO DA VINCI NATIONAL AGENCY / EUROPEAN COMMISSION

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://leonardo.cec.eu.int/

Agreement number: N/04/B/PP/165.008		Contracting period: 15.11.2004-14.11.2007
Year: 2004	Country: NORWAY	Project duration: 36 months
Title: SUPERCOMET 2		
Contractor: Simplicatus AS		
Contractor's legal representative: Vegard Engstrøm		
Period covered by the report	From: .15/11/2004 To: 14/11/2007	
Contract amendments	Yes X No ☐	

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.

.....

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

Name of contractor's legal representative: Vegard Engstrøm .....
Position within the contracting organisation:.....CEO.....
Place & Date: Strømmen, 2008-02-13.....

Report to be returned to the following address:

Procedure B - SIU
Postboks 7800
N-5020 Bergen

Procedure C - Socrates, Leonardo & Youth Technical Assistance Office
Rue Colonel Bourg 139 Kolonel Bourgstraat
B-1140 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)*	Simplicatus AS
Name of the organisation in EN, FR or DE	Simplicatus AS

Head Office – Postal Address

Street	P.O. Box
Number	27
Post code	2006
Town/city	Løvenstad
Country	Norway

Contact Person and Head Office Street Address

Name	Mr	Vegard Engstrøm
Position	CEO	
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Authorised signatory

Name	Mr	Vegard Engstrøm
Position	CEO	

Organisation type code[1]	*Region code*	*Sector code (max 3)*			*Size code*
PME	NO01	M80	K73	K74	S1

Project descriptors[2] (max 3 keywords in English, French or German)		
In-service training	Training of trainers	Open and distance training ODL

[1] Please use codes supplied in the application form

[2] Please refer to the **key words** provided in the Glossary (available at: http://europa.eu.int/comm/education/leonardo/leonardo2_en.html)

B. OVERVIEW OF THE ACHIEVEMENTS

Please summarise activities compared to the initial planning.

B.1 - Past activities (maximum 1 page, no more than 2000 characters).

Project Management, Coordination and QA
The project has successfully organized 16 project meetings with all or some partners attending. All 40 partners have carried out their tasks according to the partner contracts and further decisions at the project meetings. A complete list of the decisions is available in the Annexes. The Contractor has discussed project routines, risk management and quality assurance routines with the Evaluator, and improved the project Intranet based on feedback from partners.

Translation and adaptation of educational materials
The partners have carried out translation and adaptation of the materials from the SUPERCOMET project, and based on feedback from the partners and trials with school teachers, the Contractor has organized corrections of the contents of the Computer Application, which is now being translated to the following languages: Bulgarian, Czech, Dutch, English, French, German, Italian, Latvian, Norwegian, Polish, Romanian, Slovene and Spanish.

Testing of project materials
The partners organized testing of the January 2007 version of the translated SUPERCOMET materials, in a total of 12 countries with 13 participating universities, and 67 schools. More than 2500 pupils and more than 500 teachers and trainee teachers took part in the trials, which have been described in a comprehensive Evaluation report (see Annexes).

Development of new educational and support materials
The Teacher Seminar, Computer Application and Teacher Guide from the SUPERCOMET project have been completely reworked and new, more comprehensive versions were completed at the end of the project. The partners also met and discussed contents for new Hands-on kits for experiments to go along with the activities and animations from the other deliverables, and this work will be continued in the MOSEM project. Computer modelling tools have also been discussed, and this might lead to another follow-up project.

Dissemination of project materials
All project materials are made available online at www.supercomet.no and the project also developed an online community where school teachers can exchange and discuss teaching materials and methods. So far this community has not been put into full use, as the content (the educational materials) were missing. It will be connected to the online version of the materials in the follow-up project which will focus on further testing and use of the developed materials. All project partners have prepared papers and/or presentations of the project at various science education and physics conferences throughout Europe on local, national and international levels. The project has also set up reference groups in the partner countries that will be followed up further in the MOSEM project.

Promotion of equal rights
The project has devoted a special report to the field of equal rights, and the project has taken into consideration the aspects of equal rights in the design of the educational materials. Results from the testing show that both genders have equal learning outcomes from and appreciation of the materials.

B.2 - Indicate changes in project activities (max. 1 page, no more than 2000 characters).

- A delay in setting up national Reference Groups

The project was prolonged by 6 months trough a Contract Amendment because the translation and adaptation work took longer than planned. Also, the costs related to implementation of the language versions of the Computer Application were higher than expected. Therefore, the Contract Amendment also included a reallocation of funding from the budgets for Travel costs, Production costs, ICT costs and Other costs to the budget for Subcontracting costs.

The National Reference groups and the Online Community was postponed until the end of the project as it was decided that it would be beneficial to complete the new version of the materials before presenting them to the reference group members and also to a larger audience of teachers than those directly involved with the project. The work with the reference groups is carried on into the MOSEM project, so this is an ongoing effort and the list of contacts from SUPERCOMET 2 will give the new project a head start in this sense, since many of the partners (and thus countries with national reference groups) continue in the new project.

C. PARTNERSHIP

C Please mention if there are any modifications[3] to the initial partnership or in the distribution of tasks and budget amongst partners. Yes [ ] No [X] .
If you have answered « Yes », please fill in the following tables

Table C.1 – Partnership Changes

N°	Name of 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			

N°	Reasons for withdrawal (½ page maximum, per case)
1	

Please add extra sheets if necessary.

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	P04 University of Antwerp (personnel budget only, initial amount for LdV grant 6281 Euro)	11500 (+1000)	7281
2	P28 AMSTEL (personnel budget only, initial amount for LdV grant 8793 Euro)	12500 (-1000)	7793
3	P33 New University of Lisbon (personnel budget only, initial amount for LdV grant 7537 Euro)	3000 (-9000)	1884
4	P1 Simplicatus (personnel budget only, initial amount for LdV grant 89138 Euro)	128000 (+9000)	94791

N°	Tasks taken over by the new partners and/or (re)distribution of the tasks between the initial partners. (½ page maximum, per case)
1 & 2	Translation work to Dutch transferred from AMSTEL to University of Antwerp.
3 & 4	Most project tasks not completed by P33 so 75% of their staff budget is transferred to Simplicatus, after discussion with other partners.

[3] Please note that changes to the partnership or substantial changes in the allocation of tasks require an amendment to the initial contract.
* Please complete table C.2 below with additional information

D. WORK PROGRAMME

D.1 – Please describe clearly and briefly the activities undertaken in the work programme including all applicable work packages
Table D.1

Work packages[4]				Organisations involved in the activities undertaken
N°	Title of Work package	Start date (dd/mm/yyyy)	End date (dd/mm/yyyy)	
WP 1	Work package 1	15/11/2004	30/04/2005	All partners
WP 2	Work package 2	01/05/2005	30/10/2005	All partners
WP 3	Work package 3	01/11/2005	30/04/2006	All partners
WP 4	Work package 4	01/05/2006	30/10/2006	All partners
WP 5	Work package 5	01/11/2006	14/11/2007	All partners

Work packages	Aims and objectives of past activities undertaken (½ page maximum, per package)
WP 1	1. Establish project routines and quality assessment procedures. 2. Set up partner contracts and get them signed by all partners. 3. Conduct kick-off conference for the project. This will coincide with the final conference of the SUPERCOMET project - presenting the results and materials developed in that project. 4. At kick-of conference: Each production partner will present their previous work for the partnership. Discuss and clarify how these resources may be useful with regard to the project deliverables, and how the partners may benefit from networking with each other. 5. At kick-off conference: Discuss and resolve any challenges or problems regarding the project plan, and adjust the project plan accordingly. 6. Translate existing SUPERCOMET material and implement this electronically. 7. Carry out teacher seminars (university partners) and classroom trials (school partners).

[4] Please indicate the effective dates of the activity undertaken in each work package.

WP 2	8. Continue classroom trials beginning in Work Package 1. 9. Report and discuss findings from classroom trials. 10. Set up and discuss possible improvements to existing material. 11. Propose development of new material to complement and enhance the existing material. 12. Present findings from classroom trials at GIREP and/or MPTL conferences. 13. Carry out project meeting in connection with GIREP and/or MPTL conferences. 14. Set up specification for development of new material in the SUPERCOMET 2 project.
WP 3	15. Begin development of new material, based on specifications developed in Work Package 2. 16. Carry out peer review as part of the development process in order to ensure quality. 17. Begin improvement and further development of teacher seminars. 18. Begin development of online training course for teachers as online facilitators. 19. Prepare and submit interim project report. 20. Evaluate development progress at half point, and adjust progress plan if necessary.
WP 4	21. Continue development of new material from Work Package 2. 22. Carry out preliminary classroom trials as part of development process. 23. Continue peer review as part of the development process in order to ensure quality. 24. Complete improvement and further development of teacher seminars. 25. Complete development of online training course for teachers as online facilitators. 26. Present developed material at GIREP and/or MPTL conferences. 27. Present developed online course at GIREP and/or MPTL conferences. 28. Present developed teacher seminars at GIREP and/or MPTL conferences. 29. Carry out project meeting in connection with GIREP and/or MPTL conferences.
WP 5	30. Continued trial and evaluation of the developed electronic learning material. 31. Continued trial and evaluation of the developed teacher guide. 32. Continued trial and evaluation of the developed teacher seminars. 33. Conduct the project's final conference for dissemination purposes. 34. Evaluate overall project success and submit final project report.

Work packages	Past activities already undertaken (½ page maximum, per package)
WP 1	All aims were carried out as planned, except aims 6 and 7 (see below).
WP 2	All aims were carried out as planned, including aims 6 and 7 from WP 1, except aim 9 (see below).
WP 3	All aims were carried out as planned, including aim 9, except aim 17 (see below).
WP 4	All aims were carried out as planned, including aim 17. Development activities carried into WP5.
WP 5	All aims were carried out as planned, including aim 17.

Work packages	Changes or alterations from project activities and reasons why (½ page maximum, per package)
WP 1	Aim 6: Translation, adaptation and implementation task started, continued into WP 2. Aim 7: Postponed until WP 2 and 3 due to delays in aim 6. Decision 3.B, 3.C and 4.B (see table D.3) to develop kits of hands-on materials and posters accompanying the teacher seminar, teacher guide and computer application. Decision 4.A (see table D.3) to use simulations developed with modelling tools as a means for empowering teachers.
WP 2	Aim 6: Translation, adaptation and implementation task carried out and continued into WP 3. More delays due to capacity problems. Aim 7 and 8: Carried out and continued into WP 3. More delays due to capacity problems. Aim 9: Postponed until WP 3 and 4 due to delays in aim 7.
WP 3	Aim 6: Translation, adaptation and implementation task completed. Aim 8 and 9: Carried out and continued into WP 4. More delays due to capacity problems. Aim 17: Postponed until WP 4 due to delays in aim 7.
WP 4	Aim 9 and 17 carried out and continued into WP 5 along with other development activities.
WP 5	Development and testing activities completed, the planned aims were successfully reached.

Work packages	Please outline any adjustments or corrective actions[5] taken (½ page maximum, per package)
WP 1-3	There were substantial delays in certain project activities, especially translation and adaptation with resulting delays for trials and evaluation, due to the fact that this work was a lot more time-consuming than planned. Implementation of translations was also much more time-consuming than planned, and, since this work was carried out by a subcontractor, also much more costly than budgeted. As a result of this, an amendment proposal will be submitted to the National Agency regarding a prolongation of the project by 6 months and making some changes in the project budget.
WP 4-5	Completed aims 9 and 17, postponed due to delays. Submitted amendment proposal for budget changes and 6 months prolongation to National Agency.

[5] Please note that adjustments and corrective actions imply amendments to the initial contract.

D.3 – Partnership meetings

Table D.3

N°	Place		Date (yyyy-mm-dd)	Purpose of the meeting (topics discussed)
	Country code[6]	Town		
1	NO	Trondheim	2004-12-03/04	Kick-off Conference with representatives from all 17 main partners and subcontractors
2	UK	London	2005-03-21/22	PM 2; plans for translation, testing and evaluation materials and routines and more
3	CZ	Ostrava	2005-04-04/05	PM 3; presentation, draft spec for translation, plans for superconductivity and more
4	UK	London	2005-04-29/30	PM 4; timeline/routines for translation,testing, evaluation of SC material and more
5	UK	London	2005-05-02/03	PM 5; same items as PM 4 and spec and technical solution for online community
6	DE	Ludwigsburg	2005-05-09/10	PM 6; same items as PM 4 and animations/simulations and modules
7	SI	Ljubljana	2005-09-07/08	PM 7; dissemination at GIREP meeting, plan development and testing activities
8	DE	Munich	2006-06-29/07-01	PM 8; production of superconductors, learning modules, testing activities
9	DE	Amsterdam	2006-08-25/28	PM 9; status summary for different deliverables, development tasks, teacher seminar
10	IT	Udine	2006-12-12/13	PM 10; high-tech hands-on activities, teacher guide, teacher seminar
11	FR	Lille	2006-12-13/15	PM 11; hands-on experiments, video/photo, final conference, testing/evaluation
12	PL	Torun	2007-01-24/26	PM 12; follow-up projects, dissemination, hands-on activities, teacher seminar
13	AT	Graz	2007-03-14/16	PM 13; teacher guide, photo/video for teacher guide, teacher seminar, modules
14	ES	Murcia	2007-05-17/19	PM 14; gender equality issues, follow-up projects, status summary
15	UK	London	2006-07-06/07	PM 15; status summary, testing/evaluation, review module storyboards
16	PL	Wroclaw	2007-09-12	Final Conference with representatives from all main partners (some electronically)

N°	Partners attending
1	P01, P03, P05, P07, P09, P11, P15, P17, P18, P23, P26, P28, P31, P33, P39, P40
2	P01, P07, P17, P33, P40
3	P01, P07, P09, P31
4	P01, P05, P17, P18, P31, P33, P39, P40
5	P01, P40
6	P01, P03, P11, P15

[6] Please use the codes which are in the application form

7	P01, P03, P05, P07, P09, P18, P23, P28, P31
8	P01, P03, P11, P15
9	P01, P03, P05, P07, P11, P15, P18, P23, P28, P29, P40
10	P01, P05, P09, P15, P23
11	P01, P05, P15, P18, P23, P31, P39, P40
12	P01, P05, P31
13	P01, P03, P18
14	P01, P05, P17, P28
15	P01, P39, P40
16	P01, P03, P05, P07, P09, P11, P15, P17, P18, P23, P28, P31, P39, P40

N°	**Key results (summary of the minutes) (½ page maximum, per case)**
1	DECISION 1.A: The main aim of the SUPERCOMET 2 project is to improve the quality of physics teaching by providing vocational training materials for physics teachers DECISION 1.B: The project will adopt a Quality Plan with established quality assurance routines. DECISION 1.C: The Contractor is responsible for implementing decisions and action points, unless otherwise stated in meeting minutes and other documents. DECISION 1.D: The Evaluator is responsible for organizing the review of key project documents as set out in the Quality Plan. The Evaluator may appoint partners for participation in such reviews. DECISION 1.E: Each partner must sign two copies of the partner contract and one copy of the banking form and return this to the Contractor for approval before any reimbursements can be made. DECISION 1.F: The project work will be organized in thematic work packages. DECISION 1.G: The partnership of the SUPERCOMET 2 project will be organized in work groups dedicated to each work package. Some partners might participate in more than one work group. DECISION 1.H: Initial project meetings will be held in the spring of 2005 to organize the project work and the thematic work packages. Suggested venues are London, Ostrava and Ludwigsburg.
2	DECISION 2.A: The following terms were agreed upon in order to facilitate project communication: DECISION 2.B: The partners at the London meeting recommend that the SUPERCOMET electronic materials are extended through the SUPERCOMET 2 project by offering simulations with a modeling tool whereby teachers can adapt and develop their own simulations and animations. DECISION 2.C: The participants agreed on the following strategy for achieving project aims: • Develop and improve materials and use these to make teachers improve their teaching. • Use the teacher seminar to introduce the materials to the teachers of the testing schools.

3	DECISION 3.A: As many project partners as possible should attend the GIREP and MTPL workshops in 2005. The project will organize a session within each workshop to function as project meeting. Those partners not already planning to attend with own funds can get the attendance funded by the project. DECISION 3.B: The project will develop a physical kit containing materials for hands-on activities related to magnetism and electricity, based on input from PAP and other partners. The specification of and development process for this kit will be discussed further at the next project meeting in London. DECISION 3.C: The project will develop a series of posters for exhibits or classroom use connected to superconductivity, magnetism and electricity. PAP and Simplicatus are responsible. DECISION 3.D: The Universities of Ostrava and Rousse join Work Package on Evaluation and Testing. DECISION 3.E: PAP and the Universities of Ostrava and Rousse join Work Package for the Teacher Guide, Teacher Seminar, Hands-on activities, Posters and Exhibits. DECISION 3.F: A deadline 2005-05-23 is set for partners (and reference group members) submitting the feedback form to Simplicatus with evaluation of the computer application (scientific, pedagogical, practical aspects of text/animations).
4	DECISION 4.A: The project will use simulations to extend the SUPERCOMET animations. These will be developed by the partners in work package 4, as tools for empowering teachers. DECISION 4.B: The project will develop separate material kits for the teacher seminar and for schools. DECISION 4.C: The new modules are prioritized in the following order: superconducting applications, superconducting materials, temperature and internal energy and electricity sources (focus on DC). DECISION 4.D: The Universities of Antwerp and Loughborough join Work Package 2. Loughborough will be the work package leader, and the University of Antwerp will be responsible for organizing work package meetings. DECISION 4.E: PAP and the University of Lille join Work Package 3 to develop a new module on electricity sources. DECISION 4.F: AMSTEL and the University of Murcia join Work Package 4 to develop simulations and activities for empowering teachers (inputs to teacher seminar and guide, and online community). The AMSTEL Institute will be the work package leader. DECISION 4.G: The planned teacher and pupil survey in May is postponed until after the Teacher Seminar. It is a more efficient use of resources to survey the teachers after they have been introduced to the first version of the Online Community in connection with the Teacher Seminar.
5	DECISION 5.A: The project Online Community shall be specified and implemented in a fashion that minimizes the liability for the Contractor, the project Partners and the project Subcontractors. DECISION 5.B: Collaboranda implements the application feedback form as an online survey by 6 May. DECISION 5.C: Launch the Online Community at MPTL10 in October 2005 under the name “Physible”. DECISION 5.D: Participation at Teacher Seminar qualifies teachers for Physible membership. DECISION 5.E: Collaboranda joins Work Package 4. DECISION 5.F: Timsoft joins Work Packages 4 and 5. DECISION 5.G: The specifications for the Intranet, Extranet and Online Community shall contain objective evaluation criteria to be followed up by the Evaluator. DECISION 5.H: In order to attract members, postings and uploads of new materials/learning objects, the Online Community needs to have a low barrier for contributions. The user interface should be friendly and informal with necessary help functionality at each stage of the contribution process.

	DECISION 5.I: The Online Community will be implemented with a database for learning objects. The Community can be launched without using this database, letting users provide links to objects they have created on separate sites as part of their postings. This option will always be available to users. DECISION 5.J: The Online Community will be implemented with an English language interface. Help texts, keywords and learning object metadata can be in each partner language (subject to translation).
6	DECISION 6.A: The German and Austrian partners confirm decision 4.C regarding the modules. DECISION 6.B: The application should specify the limitations for each animation, in order to clarify for the users where simplifications of the complete and accurate physical picture have been made. DECISION 6.C: The project should evaluate the Teacher Guide and consider for the next version which parts should be printed and which parts should be electronic (in the Online Community). DECISION 6.D: The Universities of Munich, Graz and Ludwigsburg join Work Package 2. DECISION 6.E: The modules on superconductivity (Introduction, Applications and Materials) need background texts that provide teachers with more information than the pupils find in the modules. DECISION 6.F: The University of Munich suggests sample SC2 materials for use in “milq” as approved by the Contractor. The U. of Munich will contribute to testing/assessment of SC2 materials. DECISION 6.G: The U. of Munich suggests sample SC2 materials for use in “SUPRA” as approved by the Contractor. This cooperation will form the basis for a new LdV project for primary school teachers.
7	DECISION 7.A: The WP 3 partners (including those mentioned in 7.10-7.13) will meet at a workshop in the winter/spring of 2006 to discuss the suggested storyboards for each module. The outcome of this workshop should be finalized storyboards for implementation. DECISION 7.B: The project will develop a “hi-tech” kit with SC experiments that the partner universities can lend to schools having completed the teacher seminar. DECISION 7.C: The project will develop a “low-tech” kit with electromagnetic experiments and demos for each partner university, and for partner schools according to budget. DECISION 7.D: The project will also specify a further list of very simple materials for electrostatic and electromagnetic experiments and demos that each school or teacher may assemble themselves. DECISION 7.E: The WP 2 partners (including those mentioned in 7.15-7.17) will meet at a workshop in Munich in the winter/spring of 2006 to discuss the specifications for the hands-on kits. The outcome of this workshop should be finalized specifications for production. DECISION 7.F: In order to reduce travel costs covered across the project budget, a project meeting will be held at AMSTEL on 2006-08-26/27 in connection with the GIREP 2006 conference in Amsterdam. The objective of this project meeting is to coordinate and discuss the testing and other project activities that will be carried out in the fall of 2006. Dissemination will happen at GIREP 2006. DECISION 7.G: The partners present agreed that travel budgets might be redistributed among partners to allow partners with higher travel costs due to geographical location to participate at project meetings. Any such redistribution requires consent from partners whose budgets are reduced.
8	DECISION 8.A: The University of Graz accepts leadership of Workgroup 2B, Teacher Guide. DECISION 8.B: The University of Ludwigsburg accepts leadership of Workgroup 3A, SC Applications.

	DECISION 8.C: The module "Introduction to superconductivity" will be updated and split into two modules, "Introduction…" and "Explanation of superconductivity" based on previous materials. DECISION 8.D: Simplicatus accepts leadership of Workgroup 3B "Superconducting materials" and Workgroup 3C "Introduction to superconductivity", "Explanation of superconductivity" and "History of superconductivity". DECISION 8.E: There will be a separate booklet with explanations of the hands-on experiments. DECISION 8.F: If it is not possible to find a good solution for "track pellets" or for 4-point probes, these will not be included in the version of the kit that will be produced for project partners.
9	DECISION 9.A: The University of Antwerp accepts leadership of Workgroup 2A, Teacher Seminar. DECISION 9.B: The University of Rousse joins workgroup 3A, New module "Applications". DECISION 9.C: The University of Lille accepts leadership of Workgroup 2E, Videos and Photos, and joins workgroup 2C, Hands-on Kit High-Tech. DECISION 9.D: The University of Udine joins workgroup 2B, Teacher Guide. DECISION 9.E: The Final Conference will be held in Udine just before GIREP 2007 in Croatia. DECISION 9.F: All project members will be members of all discussion groups. Contractor implements. DECISION 9.G: All contributing project members are mentioned as contributors to Teacher Guide, Teacher Seminar and Computer Application. DECISION 9.H: Teacher Seminar is divided into 4-6 progressive but "stand-alone" half-day sessions. DECISION 9.I: Teacher Seminar materials are divided between "instructor" and "teacher". DECISION 9.J: Teacher Seminar workshop will be held in Loughborough, first half of February 2007. DECISION 9.K: Teacher Guide workshop will be held in Graz, first half of March 2007. DECISION 9.L: Local curricula are added to the text as part of translation, as each partner decides. DECISION 9.M: The chapter about ICT is kept as a background text online, but not in printed version. DECISION 9.M: New texts about mental models and mathematical modelling will mention ICT use. DECISION 9.N: Additional info about each "page" in the computer application will be put on Physible. DECISION 9.O: The TG will not contain a background text about superconductivity – too much work. DECISION 9.P: The printed version of the TG will contain activity descriptions for the Hands-On Kits. DECISION 9.Q: The printed version of the TG will contain a suggested assessment form. DECISION 9.R: Hands-on Kit Hi-Tech workshop will be held in Antwerp, last half of October 2006. DECISION 9.S: A description of the inquiry-based activity for Meissner effect developed by U of Udine should be included in the Teacher Guide. DECISION 9.T: Hands-on Kit Low-Tech workshop will be held in Udine, middle of October 2006. DECISION 9.U: The format for project videos shall be MPEG-2 or MPEG-4 (for video measurement). DECISION 9.V: Project video clips for use in TG, TS and CA shall not be longer than 30 seconds. DECISION 9.W: Modelling/simulations workshop will be held in Murcia, time to be determined. DECISION 9.X: Reference groups in Italy and France should include superconductivity industry representatives. All reference groups should include representatives from education authorities, colleagues from other universities and other useful contacts for promoting the project results.

10	DECISION 10.A: U of Munich prepares cost estimate for Leybold equipment. DECISION 10.B: U of Wroclaw prepares cost estimate for self-made 4-point probe. DECISION 10.C: U of Antwerp suggests a revised animation for Pohl's experiment. DECISION 10.D: U of Torun is responsible for writing and editing support texts for all low-tech kit experiments (assisted by U of Antwerp), based on the input from U of Udine. DECISION 10.E: U of Loughborough is responsible for writing and editing support texts for all high-tech kit experiments based on the input from U of Munich. DECISION 10.F: U of Udine contributes summaries of implementations of teaching approaches and monitoring of results as described by teachers connected to Udine, for use in the Teacher Guide and reference in the Teacher Seminar.
11	DECISION 11.A: The Final Conference is held in Wroclaw 12 September 2007. DECISION 11.B: If possible, we will organize a Teacher Seminar in Wroclaw on 11 September 2007. DECISION 11.C: Workshop PM12 is held in Torun 24-26 January 2007. DECISION 11.D: Workshop PM13 is held in Graz 14-16 March 2007.
12	DECISION 12.A: UMK organizes an SC2 Teacher Seminar during the conference 7-9 September 2007. DECISION 12.B: Wim Peeters is invited to give the SC2 Teacher Seminar at the conference. DECISION 12.C: Wim Peeters is responsible for following up the SOS2 organisers and UMK. DECISION 12.D: The full name of the MOESEM project is "Minds-On Experiments in Superconductivity and ElectroMagnetism" DECISION 12.E: The full name of the Physible project is "Physics made Visible, Feasible and Accessible through Online Collaboration"
13	DECISION 13.A: Reversing decision 9.O – the Teacher Guide should contain an introductory text about superconductivity, it can be based on the book by Hermann Deger and Julien Bobroff's video. DECISION 13.B: The following deadlines are set for development of the Teacher Guide: 2007-06-01: Deliver materials to U of Graz 2007-07-01: U of Graz prepares draft version in Word for review 2007-08-01: Reviewers deliver review comments back to U of Graz 2007-09-01: U of Graz completes final version for presentation at Final Conference 2007-09-12 2007-11-01: Partners deliver translated versions, including improved English language version DECISION 13.C: The computer application will contain more videos than before, preferably by links. DECISION 13.D: The levitation illustration from the CA main menu will be used as the project logo. DECISION 13.E: The logo should be used in menus and start-up splash movies for modules. DECISION 13.F: If possible, the main menu shall be organized thematically according to discussion. DECISION 13.G: Use pedagogical questions in the main menu and splash intros for modules. DECISION 13.H: If possible, make a pull-down menu for changing language, use English as default. DECISION 13.I: Splash movies for main menu and modules will be added last, if budget allows. DECISION 13.J: Applications module is restructured according to discussion, based on 2003 spec.

14	DECISION 14.A: The following deadlines are set for translations of different texts in the project from English to partner languages: 2007-07-01: External project webpages (+ partner description in English and in own language) 2007-10-01: Computer Application (given at 2007-09-01) 2007-10-15: Teacher Guide (given at 2007-09-01) 2007-11-01: Teacher Seminar support files (given at 2007-10-01) DECISION 14.A: EJS is used for setting up the online teacher guide with screenshots for each slide in the Computer Application (CA), and connecting these with simulations where they are developed. DECISION 14.B: The deadline for the following 5 development activities is 2007-06-01. DECISION 14.C: The modelling (and simulations) project will be promoted within LdV, with the preproposal in the fall of 2007 and the full proposal in the spring of 2008. DECISION 14.D: The modelling project will focus on developing models (some based on SC2 animations) and using Coach for video analysis and data logging connected to MOSEM. DECISION 14.E: The "Physible" project concept is merged with the MPTL project concept. It will be presented at MPTL-12 and promoted using the "e-content+" call for proposals within FP7.
15	DECISION 15.A: When updating the computer application and writing new storyboards, authors should attempt to make the sequences in each module as self-contained as possible. This will allow teachers/users to rearrange the sequences of the modules according to their own teaching/learning paths without losing the coherence of the contents. DECISION 15.B: The following deadlines are set for partner reports regarding the testing and project management: 2007-10-15: Partner reports on national testing activities to Evaluator 2007-11-01: Partner reports on personnel, dissemination etc. for Final Report to Contractor
16	DECISION 16.A: The following deadlines are set for: 2007-10-15: Partner reports on national testing activities to Evaluator DECISION 16.B: The Teacher Guide uses a simple Word layout that is easier to update/translate. DECISION 16.C: The following contents will be added to / modified in the Teacher Guide: Descriptions of new modules by University of Antwerp, Simplicatus New activity examples by University of Udine More about evaluation/trials by IoE More about modelling by AMSTEL, New University of Lisbon More about Teacher Seminar experiments by University of Antwerp, U of Torun Update on Cooper pairs by University of Udine Update on Physics of Superconductivity by Loughborough University DECISION 16.D: The following deadlines are set for: 2007-10-15: Submit content (text, pictures) for Teacher Guide to University of Graz

	DECISION 16.E: The following deadlines are set for: 2007-11-01: Submit pictures/videos for Teacher Seminar to University of Antwerp 2007-11-01: Submit pictures/videos for Computer Application to U of Lille and Simplicatus DECISION 16.F: For partners who do not complete their contractual obligations, budgeted staff cost reimbursements can be reduced and transferred to other partners as determined by the Contractor. DECISION 16.G: The participants at Final Conference complete and return their Travel reimbursement forms for the trip to Wroclaw to Simplicatus before 2007-10-01. Any Travel Reimbursement forms received by Simplicatus after 2007-10-01 may not be refunded. DECISION 16.H: The following deadlines are set for: 2007-10-01: List of Reference group candidates to Contractor 2007-11-01: Partner reports on personnel, dissemination etc. for Final Report to Contractor DECISION 16.I: The wiki for FAQ and Glossary should also include screenshots with accompanying comment pages for users and developers, plus an overview of national/local EM curricula. DECISION 16.J: New project ideas are discussed further at the NatSim Wiki: www.natsim.net/sc2

D.5- Please provide information on the partners that have organised <u>dissemination activities</u>, using the table below.
Table D.5

N°	Country code[7]	Name of partner organisation/institution in national language	Place where it took place? Region code	What sectors were targeted by these dissemination activities ? Sector code
1	NO	Simplicatus AS	AT22	M80
2	NO	Simplicatus AS	BG1	M80
3	NO	Simplicatus AS	DE3	M80
4	NO	Simplicatus AS	FR81	M80
5	NO	Simplicatus AS	HU06	M80
6	NO	Simplicatus AS	IT33	M80
7	NO	Simplicatus AS	NL32	M80
8	NO	Simplicatus AS	NO01	M80

[7] Please use codes provided in the application form

9	NO	Simplicatus AS	NO06	M80
10	NO	Simplicatus AS	PL01	M80
11	NO	Simplicatus AS	PL0B	M80
12	NO	Simplicatus AS	SI	M80
13	AT	Karl-Franzens-Universitaet Graz	AT22	M80
14	AT	Karl-Franzens-Universitaet Graz	DE11	M80
15	AT	Karl-Franzens-Universitaet Graz	DE23	M80
16	AT	Karl-Franzens-Universitaet Graz	DE3	M80
17	AT	Karl-Franzens-Universitaet Graz	HU06	M80
18	AT	Karl-Franzens-Universitaet Graz	NL23	M80
19	AT	Karl-Franzens-Universitaet Graz	NL32	M80
20	AT	Karl-Franzens-Universitaet Graz	SI	M80
21	BE	University of Antwerp	BE21	M80
22	BE	University of Antwerp	BE24	M80
23	BE	University of Antwerp	FR81	M80
24	BE	University of Antwerp	NL33	M80
25	BE	University of Antwerp	PL01	M80
26	BE	University of Antwerp	PL0B	M80
27	BE	University of Antwerp	SI	M80
28	BG	University of Rousse	BG2	M80
29	BG	University of Rousse	BG3	M80
30	BG	University of Rousse	HU01	M80
31	BG	University of Rousse	NL31	M80
32	CZ	University of Ostrava	CZ01	M80
33	CZ	University of Ostrava	CZ07	M80
34	CZ	University of Ostrava	CZ08	M80

35	CZ	University of Ostrava	PL01	M80
36	CZ	University of Ostrava	SI	M80
37	DE	University of Ludwigsburg	DE11	M80
38	DE	University of Ludwigsburg	DE23	M80
39	DE	University of Ludwigsburg	DE73	M80
40	DE	University of Ludwigsburg	NL32	M80
41	DE	University of Munich	AT22	M80
42	DE	University of Munich	DE3	M80
43	DE	University of Munich	DE11	M80
44	DE	University of Munich	DE21	M80
45	DE	University of Munich	DE23	M80
46	DE	University of Munich	DE73	M80
47	DE	University of Munich	NL23	M80
48	DE	University of Munich	NL32	M80
49	ES	Universidad de Murcia	ES24	M80
50	ES	Universidad de Murcia	ES51	M80
51	ES	Universidad de Murcia	ES62	M80
52	ES	Universidad de Murcia	PL01	M80
53	ES	Universidad de Murcia	PT11	M80
54	FR	Université des Sciences et Technologies de Lille	FR1	M80
55	FR	Université des Sciences et Technologies de Lille	FR3	M80
56	FR	Université des Sciences et Technologies de Lille	FR51	M80
57	IT	University of Udine	DE3	M80
58	IT	University of Udine	ITA	M80
59	IT	University of Udine	IT6	M80
60	IT	University of Udine	IT11	M80

61	IT	University of Udine	IT33	M80
62	IT	University of Udine	IT53	M80
63	IT	University of Udine	IT92	M80
64	IT	University of Udine	NL31	M80
65	IT	University of Udine	PL01	M80
66	IT	University of Udine	SI	M80
67	LV	University of Daugavpils	LV	M80
68	LV	University of Daugavpils	LV	M80
69	LV	University of Daugavpils	LV	M80
70	LV	University of Daugavpils	LV	M80
61	NL	AMSTEL Institute	NL31	M80
62	NL	AMSTEL Institute	NL32	M80
63	NL	AMSTEL Institute	NL33	M80
64	PL	Pomorska Akademia Pedagogiczna	DE3	M80
65	PL	Pomorska Akademia Pedagogiczna	PL01	M80
66	PL	Pomorska Akademia Pedagogiczna	PL02	M80
67	PL	Pomorska Akademia Pedagogiczna	PL0B	M80
68	PL	Pomorska Akademia Pedagogiczna	PL0F	M80
69	PL	Pomorska Akademia Pedagogiczna	SI	M80
70	PT	Universidade Nova de Lisboa	DE3	M80
71	PT	Universidade Nova de Lisboa	PT13	M80
72	UK	Loughborough University	UKF2	M80
73	UK	Institute of Education, University of London	UKI1	M80
74	UK	Institute of Education, University of London	UK55	M80

E. RESULTS / PRODUCTS / PROCESSES

E.1 – Please describe project progress in terms of results and outcomes to date (e.g. products, materials, surveys, analysis, etc.) indicating the languages in which they are available.
NB: Please note that an original and one copy of each product / outcome, showing its current stage of development, should be sent with this Interim Report.

Results and / or products[8] and / or processes							
N°	Full title	% of realisation	Languages[9]	Types of support			
				Web site[10]	CD ROM	Printed	Other (specify)
1	SUPERCOMET 2 Website www.supercomet.no	100%	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, RO	X			
2	Physible Online Community www.physible.no	100%	EN	X			
3	Project Intranet intranet.simplicatus.no	100%	EN	X			
4	SUPERCOMET Computer Application used for testing and improvement to SUPERCOMET 2 version. www.supercomet.no	100%	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, PT, RO, SI	X			
5	SUPERCOMET Teacher guide used for testing and improvement to SUPERCOMET 2 version. www.supercomet.no	100%	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, PT, RO, SI	X		X	
6	SUPERCOMET Teacher seminar – electronic support materials used for testing and improvement to SUPERCOMET 2 version.	100%	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, RO	X (Summary)			Oral seminar with support materials
7	SUPERCOMET 2 Computer application – Modules with Search, FAQ, Glossary online.supercomet.no	100%	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, RO, SI	X			
8	SUPERCOMET 2 Computer application – new modules: Superconducting Materials, Applications of Superconductivity, Activities with Superconductors. online.supercomet.no	100% (being translated from EN)	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, RO	X			

[8] Results as contractually agreed (taking into account all agreed contractual amendments).
[9] Please indicate for each type of support the code of languages available.
[10] Please provide the address (URL) of the Internet site

9	SUPERCOMET 2 Teacher guide – English version can be downloaded from project webpage. www.supercomet.no	100% (being translated from EN)	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, PT, RO, SI	X			
10	SUPERCOMET 2 Teacher seminar – electronic support materials including Powerpoint Presentations, video clips and text for the lecturers giving the seminar to in-service teachers or teacher students. Can be downloaded from project intranet. intranet.simplicatus.no	100% (being translated from EN)	BG, CZ, DE, EN, ES, FR, IT, LV, NL, NO, PL, RO	X (Summary)			Oral seminar with printed and electronic support materials
11	SUPERCOMET 2 Hands-on experimental kit – with materials for demonstrating electromagnetism and superconductivity. Can be downloaded from project intranet. intranet.simplicatus.no	10%	EN	X			Specification as input for MOSEM project
12	Project fact sheet – PDF can be downloaded from project webpage. www.supercomet.no	100%	EN, NO	X		X	
13	Project posters – PDFs can be downloaded from project webpage. www.supercomet.no	100%	EN, BG, DE, PL	X		X	
14	Project presentations and conference papers – PDFs can be downloaded from project webpage. www.supercomet.no	100%	EN, BG, DE, ES, IT, NL, NO, PL	X		X	

N°	Dissemination of these results / products - by whom and where[11] (½ page maximum, per case)
1	Information to all project partners and their contacts, advertised at all conferences.
2	Poster by subcontractor Timsoft, Ltd. at GIREP Seminar 2005-09-05/09 in Ljubljana, Slovenia Launched in January 2006 as a prototype, used a little by partners and testing schools.
3	Internal collaboration tool for project partners.
4	Oral presentation by P01 at GIREP Seminar 2005-09-05/09 in Ljubljana, Slovenia (see D.5) Oral presentation by P09 at GIREP Seminar 2005-09-05/09 in Ljubljana, Slovenia (see D.5, E.2) Posters by P01 and P15 at MPTL-10 Workshop 2005-10-05/07 in Berlin, Germany (see D.5) Launched in January 2006 after updates and translations, being used by partners and testing schools in connection with testing. Languages CZ, LV and PT not implemented yet. Language SI was developed in SUPERCOMET, but will not be updated in SUPERCOMET 2. See also http://supercomet.no/gb/supercomet_2/conferences
5	Translated and tested by each partner in collaboration with local testing schools. Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences
6	Translated and tested by each partner in collaboration with local testing schools. Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences
7	Translated and tested by each partner in collaboration with local testing schools. Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences
8	Developed and presented at Final Conference, under translation from English. Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences Available online. See http://online.supercomet.no
9	Poster by P31 at GIREP Seminar 2005-09-05/09 in Ljubljana, Slovenia (see D.5) Poster by P15 at MPTL-10 Workshop 2005-10-05/07 in Berlin, Germany (see D.5) Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences Available on project webpage. See http://supercomet.no/gb/supercomet_2/valorisation
10	Seminar by P01 and P05 at Science on Stage 2 2007-04-02 in Grenoble, France (see D.5) Seminar by P01 and P05 at PSNPP Annual Conference 2007-09-09 in Torun, Poland (see D.5) Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences Available on project webpage. See http://supercomet.no/gb/supercomet_2/valorisation
11	Seminar by P01 and P05 at Science on Stage 2 2007-04-02 in Grenoble, France (see D.5) Seminar by P01 and P05 at PSNPP Annual Conference 2007-09-09 in Torun, Poland (see D.5) Presented at a number of conferences. See http://supercomet.no/gb/supercomet_2/conferences
12	Distributed to all partners and available on project webpage. See http://supercomet.no/gb/supercomet_2/valorisation
13	Several A2/A1 posters prepared by partners for presentation at various conferences. Currently exhibited at respective institutions. See http://supercomet.no/gb/supercomet_2/conferences
14	Presentations at a large number of conferences. See http://supercomet.no/gb/supercomet_2/conferences

[11] Enterprise, training organisation, university, etc.

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

N°	Title of result / product	Type of evaluation and testing	Results
1	SUPERCOMET Teacher seminar	Trials with teachers	See Evaluation Report.
2	SUPERCOMET Computer application	Trials in schools and at teacher seminars	See Evaluation Report.
3	SUPERCOMET Teacher guide	Trials at and after teacher seminars	See Evaluation Report.
4	SUPERCOMET Hands-on experimental kit	Trials of prototype materials at teacher seminars	See Evaluation Report.
5	Physible Online Community	Prototype testing at PM7 in Ljubljana Trials at teacher seminars	See Evaluation Report.
Evaluation report: Annexed to this report, and available on project webpage: http://supercomet.no/gb/supercomet_2/results			

N°	Partners involved	When	
		Start date (dd/mm/yyyy)	End (dd/mm/yyyy)
1-5	All partners (Universities giving seminars and coordinating testing, Schools participating)		
	AT – Austria – P03 Univ. of Graz	03.04.2006	Fall 2007
	BE – Belgium – P05 Univ. of Antwerp	01.11.2005	Fall 2007
	BG – Bulgaria – P07 Univ. of Rousse	22.10.2005	Fall 2007
	CZ – Czech Republic – P09 Univ. of Ostrava	01.06.2006	Fall 2007
	DE – Germany – P11 U of Ludw.burg, P15 U of Munich	30.01.2006	Fall 2007
	ES – Spain – P17 Univ. of Murcia	23.02.2006	Fall 2007
	FR – France – P18 Univ. of Lille	Not done	-
	IT – Italy – P23 Univ. of Udine	20.06.2005	Fall 2007
	LV – Latvia – P26 Univ. of Daugavpils	01.06.2005	Fall 2007
	NL – Netherlands – P28 AMSTEL Institute, U of Amst.	15.09.2005 (TG/CA)	Fall 2007
	NO – Norway – subcontractor Naturfagsenteret	03.12.2004	Fall 2007
	PL – Poland – P31 Pomeranian Pedagogical Academy	10.11.2005	Fall 2007
	PT – Portugal – P33 New Univ. of Lisbon	Only expert review	-
	RO – Romania – subcontractor Timsoft, Ltd.	10.03.2006	Fall 2007
	UK – United Kingdom – P39 Univ. of Loughborough	06.02.2006	Fall 2007

N°	How was the evaluation and testing carried out
1-5	Groups of teachers working at Partner Schools and additional Testing schools are invited to seminars and/or workshops hosted by the university partner (e.g. in Norway, at Naturfagkonferansen 2006). Workshops with prototype materials carried out at Teacher seminars. Some schools might borrow materials from university partners (superconductors and liquid nitrogen is needed) for later trials. Summative testing carried out by all partners as indicated above, while some illustrative testing was carried out by a few partners. Testing schools carry out testing with their pupils and then report back to the partners, who prepare national evaluation reports which are summarized in the overall Evaluation report. Further details in the Evaluation report, available on the project webpage: http://supercomet.no/gb/supercomet_2/results

F. GENERAL COMMENTS and ANNEXES

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

There were substantial delays in certain project activities, especially translation and adaptation (ranging from 3-15 months, varying from partner to partner, with an average of about 6-7 months) with resulting delays for trials and evaluation, due to the fact that this work was a lot more time-consuming than planned.

Implementation of the translated versions of the Computer Application, and especially the Bulgarian language version which had some technical problems due to limitations in the authoring tool connected to the Cyrillic script, lead to increased subcontracting costs. This will be solved by changing the budgets for Operating Costs slightly, reducing funds for Travel and ICT and increasing funds for Subcontracting and Production. The decision to develop hands-on kits with experimental materials is the reason for increasing the Production budget.

As a result of this, an amendment proposal was submitted to the National Agency regarding a prolongation of the project by 6 months and changes in the project budget (transferring funds to the development of the computer application).

F.2 – Please describe any innovative organisational processes developed during the project to date (maximum 1 page).

The project is using a combination of different communication channels, ranging from telephone, email, project intranet and online community to a mixture of one-on-one meetings, smaller workshops and plenary meetings, as well as attending presentations by other partners at conferences. While none of these activities and processes can be said to be innovative in themselves, the combination used for this particular project might be said to be innovative in the sense that it is adapted to the particular needs of this project and its partners.

F.3 – List of annexes to the original of the report (mail delivery)

- Please send copies of bank transfers between the contractor and the partners

- If they have not yet been sent, please send copies of:

- Contracts with project partners, including co-ordinator (and/or scientific co-ordinator as appropriate)

- Subcontracting agreements (including all documentation relating to Calls for Tender)

ANNEX 1
Financial report. Tables G.1 - G.9.

Contracts with annexes (budgets, banking forms and possibly lists of participants) for all project partners have been submitted previously.

All subcontracts are annexed to the relevant invoices in the financial documentation (not annexed).
All bank transfers are archived in the financial documentation (not annexed).

Correspondence with the Norwegian National Agency before the Interim Report is annexed there.

ANNEX 2
Letter with Contract Amendment request from Contractor to National Agency dated 2006-11-16.
Letter with Contract Amendment approval from National Agency to Contractor dated 2006-12-15.

ANNEX 3
Evaluation report from the Project Evaluator, P40 Institute of Education, University of London.

ANNEX 4
Printed Teacher Guide.

All other resources and deliverables are available online at: www.supercomet.eu

Receipt Acknowledgement

Final Report

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

Title of project:

Name of contracting organisation	Simplicatus AS
Name of legal representative	Mr Vegard Engstrøm, CEO
Street Number	PO Box 27
Country code - Post code - Town/City	NO-2006 Løvenstad
Fax number	+47/63 00 29 33

Date you sent in your report	2008-02-13

Reserved for National Agencies / Commission:

Documents received:

Interim 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 any supplementary instalment are suspended until the related information/documentation is received.

We acknowledge receipt of your Final Report:

Country	Year	Project type	Project number
Norway	2004	PP	N/04/B/PP/165.008

Please use this number in all communication with your National Agency / Commission.
Yours sincerely,

Date: _____ Signature: _____
Name: _____
Position: _____