PROPOSTA DE MÀSTERS PRESENTATS A LA 3a CONVOCATÒRIA ERASMUS-MUNDUS MASTER OF SCIENCE IN BIOSTATISTICS

Acord núm. 148/2005 pel qual es ratifica la proposta de Master os Science Biostatistics

- Document aprovat per la Comissió de Docència del Consell de Govern del dia 17/05/2005
- Document aprovat pel Consell de Govern del dia 27/05/2005

DOCUMENT CG 12/05 2005

Vicerectorat d'Ordenació Acadèmica Comissionat de l'Espai Europeu d'Educació Superior Maig 2005

Benvolgut vicerector,

Et faig a mans la proposta (Memòria preliminar) del *Master of Science in Biostatistics* en el qual hem estat convidats a participar i en el que estem actualment treballant per presentar una proposta en la convocatòria *Erasmus Mundus 2005*.

Et remeto la informació que ens demanes en el teu missatge del dia 21 d'abril de 2005, per tal que el Consell de Govern de la UPC consideri la seva aprovació i en cas afirmatiu em faciliti la documentació oficial exigida a l'esmentada convocatòria.

1. Nom de la persona i de la unitat de la UPC responsables del Màster i posició en el consorci d'institucions europees: participant o coordinadora

Guadalupe Gómez Melis

Professora Titular d'Universitat

Departament d'Estadística i Investigació Operativa

Coordinadora del Programa de Doctorat "Aplicacions Tècniques i Informàtiques de l'Estadística, la Investigació Operativa i l'Optimització

Presidenta de la Comissió de Postgrau d'Estadística a proposta de la FME i del Departament d'Estadística i Investigació Operativa

Posició en el consorci: participant

2. Institucions participants del consorci del Màster

Coordinador: Limburgs Universitair Centrum (LUC)

Participant 1: Department of Mathematics and Statistics, University of Lancaster (Lancaster, UK)

Participant 2: Medical Statistics Unit, London School of Hygiene and Tropical Medicine (LSHTM) (UK)

Participant 3: Department of Statistics and Operations Research, Universitat Politècnica de Catalunya (Barcelona, Spain)

Participant 4: Department of Statistics and Operations Research, Universidad de Santiago de Compostela (Spain)

3. Dades generals del programa

- 3.1 Denominació del programa conjunt (a la documentació d'Erasmus Mundus): Master of Science in Biostatistics
- 3.2 Any acadèmic d'implantació: 2006/2007
- 3.3 Durada del pla en crèdits europeus: 1 any i 3 mesos (80 ECTS)

- 4. Extracte de les característiques del programa (descripció breu):
 - 4.1 Orientació, objectius i perfil professional del Màster

L'objectiu és oferir una formació sòlida i internacional en bioestadística amb institucions que tenen una excel·lent trajectòria en educació, investigació i col·laboració científica en l'àrea de la bioestadística.

El perfil professional es troba en el camp biosanitari.

4.2 Programa d'estudis i mobilitat acadèmica.

El programa s'organitza entorn a 4 trimestres.

En el 1r trimestre l'estudiant fa 20 ECTS, entre el 2n i el 3r en fa 40 ECTS i el 4t trimestre o període dedicat a la pràctica professional, consta de 20 ECTS.

4.3 Organització docent: unitats de la UPC que participen en el desenvolupament del programa.

El Departament d'Estadística i Investigació Operativa i la Facultat de Matemàtiques i Estadística.

4.4 Requisits bàsics d'accés i perfil de l'estudiant.

L'estudiant, per a seguir el programa, ha de demostrar competències, a nivell de grau, en matemàtiques i estadística, a més d'un bon nivell d'anglès.

4.5 Condicions per a l'obtenció del títol; acords respecte a la titulació (doble o conjunta) i denominació del títol que emetrà la UPC.

L'estudiant obté el títol de la institució a on inicia el 1r trimestre. Aquesta institució reconeix els cursos fets a les altres institucions els qual es llistaran al suplement del Títol

En aquesta primera versió de la memòria s'indica que els estudis s'iniciaran en una de les dues institucions de Gran Bretanya o Bèlgica. En el futur s'hi podrà incloure la UPC.

- 5. Títol: Master of Science in Biostatistics
- 6. Previsió de recursos necessaris per a la posada en marxa del programa fins a la plena implantació. La implantació efectiva del programa quedarà condicionada a la disponibilitat d'aquests recursos.

Estem treballant en aquest punt. La part docent corresponent a la UPC es faria dins dels cursos previstos en el Programa de Postgrau d'Estadística.

Ben cordialment,

Manuel Martí Recober Director del Departament d'Estadística i Investigació Operativa

Barcelona, 6 de maig de 2005



Number	Date of Postmark

ERASMUS MUNDUS PROGRAMME

Application Form for Action 1: ERASMUS MUNDUS MASTERS COURSES

You are applying for:
☐ An Erasmus Mundus Masters Course including a preparatory year

CLOSING DATE FOR SUBMISSION:

31 MAY 2005 (as per postmark)

Important instructions and information regarding the application and selection procedure

- Before completing the form, please read the relevant sections in the Erasmus Mundus Call for Proposals EAC/04/05
 and the Administrative and Financial Handbook for Erasmus Mundus Projects. Further information can be found on
 the Erasmus Mundus website: http://europa.eu.int/comm/education/programmes/mundus/index_en.html.
- Please note that even if you apply for an Erasmus Mundus Masters Course including a preparatory year, your application if successful would be selected for five years. You are therefore required to answer all questions under Section 2 of the application form.
- Your proposal will be assessed on the basis of the elements included in this application only. You can include web
 site references in your application, but the assessment of your proposal will not be based on additional technical
 information found on a web site and not contained within the application.
- Applicants should use as application language the operational language of communication between the institutions involved in the Masters Course.
- The application must be typewritten or word-processed using a computer, character size 11 pt minimum.
- The original of the application must bear the original signature of the legal representative of the co-ordinating institution and the original stamp of this institution.
- The application must be accompanied by copies of letters from the appropriate authorities of each institution participating in the Masters Course, confirming their agreement with the application as submitted.
- Applications must be sent by post and e-mail by the closing date. The paper copy is authentic. Applications sent by
 e-mail only or sent by fax will not be accepted. Annexes which are not available electronically need not be sent by email.
- The signed original of the application and 2 copies thereof must be sent in the same envelope by 31 May 2005 (as per postmark) to:

European Commission
Directorate-General for Education and Culture
Directorate B – Unit B/6
Bureau: B -- 7 06/32
B-1049 Brussels
E-Mail: EAC-Erasmus-Mundus@cec.eu.int

Fax: (+32) (2) 296.32.33

Because of the tight timing for the assessment of applications, you are requested to send your application by rapid mail so that it reaches the Commission no later than 7 June 2005.

- A paper copy **and** an electronic copy of the original application must be sent by 31 May 2005 to the appropriate National Structure in each of the countries which are participating in the Masters Course. The list of National Structures appears in the *Erasmus Mundus Call for Proposals EAC/04/05* and on the website indicated above.
- All applications will receive an acknowledgement slip.
- Applications will be judged against the eligibility, selection and award criteria set out in the Erasmus Mundus Call for Proposals EAC/04/05.
- Applicants will be notified about the outcome of the selection in writing in September 2005. A copy of the notification letter will be sent to the National Structures concerned.
- In accordance with standard Commission practice, the information provided in your application may be used for the purposes of evaluating the Erasmus Mundus programme. The relevant data protection regulations will be respected.
- Any questions relating to this proposal should be addressed to the address indicated above.

SECTION 1 - IDENTIFICATION

1. Title of the Masters Course Please use a maximum of 12 words; start with an acronym or abbreviation, if applicable.							
	Master of Science in Biostatistics						
If your title is not in English	, French or German, please provide a translation into any of the three languages.						
2. Summary description of	of the Masters Course (maximum 500 words)						
•	ollowing aspects of your Masters Course:						
 Objective student p Summar List of h mobility Precise of the student p 	es of the Masters Course, qualifications obtained, duration, language(s) of instruction, size of copulation, professor / student ratio; y of study programme; nigher education institutions involved in the Masters consortium ¹ , including locations and arrangements; degree awarded (by which institutions and recognised in which countries); on criteria.						
of your grant agreement ar	ssful, this summary will be used as the official description of the Masters Course. It will be part not published on the internet. You are therefore kindly requested to formulate it very carefully by in English, French or German.						
Objectives.							

 $^{^{1}\,}$ The consortium is the group of higher education institutions involved in the Masters Course.

3. Languages

Language in which you would like the grant agreement to be issued and correspondence with the Commission to be conducted.
To facilitate co-operation with your partners, you are advised to enter the language most commonly used for communication within the consortium.
1 st preference 2 nd preference
☐ German ☐ English ☐ French ☐ German ☐ English ☐ French
4. Financial support from the European Community
Please note that according to the new financial regulation applicable to the general budget of the European Communities, one project may not receive more than one grant from the budget of the European Communities. In other words, if you are to be selected to receive an Erasmus Mundus grant for a given Masters Course, you must not receive a grant from another Community programme for the same Masters Course and funding period.
Is this Masters Course, or any aspect thereof or any larger project to which it may belong, currently being supported under another European Community programme?
⊠ No
Yes. Please specify the programme(s), date(s), type(s) of activity and, if possible, agreement number(s):
Is this Masters Course, or any aspect thereof or any larger project to which it may belong, currently the subject of any other application for support from the European Community?
No
Yes. Please specify the programme(s) and provide the amount(s) requested:
5. Previous applications for Erasmus Mundus Masters Courses
Please provide the following information for statistical purposes.
Are you resubmitting an application which has not been selected under previous Erasmus Mundus calls for proposals?
⊠ No
Yes. It was submitted under the first call for proposals (deadline 31 May 2004). Its reference number was: A1&2-2004
Yes. It was submitted under the second call for proposals (deadline 31 October 2004). Its reference number was: A1-2005
If yes, has the composition of the consortium changed? Yes No. Possible comments:

6. Co-ordinating institution of the Masters consortium

The co-ordinating institution is also the applicant institution. To fill in this part, please use country codes and region codes indicated in Annex 1.

6.1 Legal Representative

This is the person legally authorised to sign the application and the grant agreement on behalf of the co-ordinating institution.

institution.							
Full legal name of the institution in the national language	Limbur	Limburgs Universitair Centrum					
Acronym of the institution, if applicable	LUC	LUC					
Full name of the institution in English (formal or informal translation)	Limbur	Limburgs University Center					
Country code	BE		Re	gion code	BE22		
Type of institution	Univers	sity	Erasmus Un	iversity Charter N°			
Website	http://ww	w.luc.ac.be					
Legal representative of the institution: Family name First name		De Schepper Title Luc (e.g.		Title (e.g. Prof., Dr., etc.)	Prof		
Department / Unit		Rectoraat					
Official function within the institution		Rector Sex		Sex	F (female) M (male)		
Legal address of the institution: Street & Street Number Post Code & Town Country		Agoralaan 1, Universitaire Campus B3590 Diepenbeek Belgium					
Phone (including country and area code)		+32 / 11 / 268000					
Fax (including country and area code)		+32 / 11 / 268199					
E-mail		luc.deschepper@luc.ac.be					
Is the institution able to recover VAT?		Yes (CHECK)					

6.2 Co-ordinator

This is the manager of the Masters Course. All correspondence relating to the Masters Course will be addressed to this person.

Family name First name	Molenberghs Geert	Title (e.g. Prof., Dr., etc.)	Prof	
Institution (only if different from point 6.1 above) / Department				
Official function within the institution	Head of Department	Sex	F (female) M (male)	
Correspondence address (only if different from point 6.1 above): Street & Street Number Post Code & Town Country				
Phone (including country and area code)	+32 / 11 / 268205			
Fax (including country and area code)	+32 / 11 / 268299			
E-mail	geert.molenberghs@luc.ac.be			

6.3 Person in charge of finance

Family name First name	Boets Greet	Title (e.g. Prof., Dr., etc.)	Ms		
Department / Unit	Finance Department				
Official function within the institution	Head of Finance Department	Sex	⋉ F (female)		
Correspondence address (only if different from point 6.1 above): Street & Street Number Post Code & Town Country					
Phone (including country and area code)	+32 / 11 / 268000				
Fax (including country and area code)	+32 / 11 / 268199				
E-mail	greet.boets@luc.ac.be				

6.4 Financial identification

Please complete and sign the form in Annex 2 and attach it to your application.

7. Partner institutions of the Masters consortium

- To fill in this part, please use the country codes and region codes indicated in Annex 1.
- The minimum number of partners required is two.
- Add numbers and copies of this page, if necessary.

Partner institution No 1

Full legal name of the institution in the national language	University of Lancaster						
Acronym of the institution, if applicable		Erasmus University Charter N°					
Full name of the institution in English (formal or informal translation)							
Type of institution	University		Country code	UK	Region code	UKD4	
Department / Unit	Department of Mathematics	and Statisti	cs				
Contact person	Family Name: Diggle Function: Professor First Name: Peter J. Male X Female □						
Address: Street & Street Number Post Code & Town Country	Fylde College Lancaster University, Lanca United Kingdom	ster LA1 4Y	F				
Phone (including country and area code)	+ 44 / 1524 / 593960						
Fax (including country and area code)	+ 44 / 1524 / 592681						
E-mail	1	mathematics	s@ lancaster.ac	c.uk			
Website	http://www.maths.lancs.ac.ul	k					
Is the institution able to recover VAT?							

Partner institution No 2

Full legal name of the institution in the national language	London School of Hygiene and Tropical Medicine							
Acronym of the institution, if applicable	LSHTM	LSHTM Erasmus University Charter N°						
Full name of the institution in English (formal or informal translation)								
Type of institution	Academic Research and Tra	aining Inst	Country code	UK	Region code	UKI1		
Department / Unit	Medical Statistics Unit							
Contact	Family Name: Kenward Function: Professor							
Contact person	First Name: Michael G. Male X Female □							
Address: Street & Street Number Post Code & Town Country	Keppel Street London WC1E 7HT UK							
Phone (including country and area code)	+ 44 / 20 / 79272472							
Fax (including country and area code)	+ 44 / 207 / 6372853							
E-mail	Mike.kenward@lshtm.ac.uk							
Website	http://www.lshtm.ac.uk							
Is the institution able to recover VAT?								

Partner institution No 3

Full legal name of the institution in the national language	Universitat Politècnica de Catalunya						
Acronym of the institution, if applicable	UPC Erasmus University Charter N°						
Full name of the institution in English (formal or informal translation)	Catalan Polytechnic University						
Type of institution	University		Country code	ES	Region code	ES51	
Department / Unit	Statistics and Operations Research						
Contact person	Family Name: Gomez i Melis Function: Professor First Name: Guadalupe Male ☐ Female X						
Address: Street & Street Number Post Code & Town Country	Campus Sud – Edif. H Avda. Diagonal, 647 08028 Barcelona, España						
Phone (including country and area code)	+ 34 / 93 / 4016569						
Fax (including country and area code)	+ 34 / 93 / 4016575						
E-mail		Users-e	io@ eio.upc.es				
Website	http://www.upc.edu						
Is the institution able to recover VAT?							

Partner institution No 4

Full legal name of the institution in the national language	Universidad de Santiago de Compostela						
Acronym of the institution, if applicable	USC Erasmus University Charter N°						
Full name of the institution in English (formal or informal translation)	University of Santiago de Compostella						
Type of institution	University	University Country code ES Region code ES1					
Department / Unit	Department of Statistics and Operations Research						
Contact person	Family Name: Gonzalez-Manteiga Function: Professor First Name: Wenceslao Male X Female □						
Address: Street & Street Number Post Code & Town Country	Faculty of Mathematics 15782 Santiago de Compos España	tela					
Phone (including country and area code)	+ 34 / 981 / 563100						
Fax (including country and area code)	+ 34 / 981 / 597054						
E-mail	eisec@usc.es						
Website	http://eio.usc.es						
Is the institution able to recover VAT?							

SECTION 2 - DESCRIPTION OF THE ERASMUS MUNDUS MASTERS COURSE

- Please describe the following aspects of your Masters Course, using the same order and numbering as given in the list
 of questions.
- You are invited to read the relevant chapters of the *Erasmus Mundus Call for Proposals EAC/04/05* carefully, before filling in this section.
- Please enclose supporting documents <u>only</u> where these have a direct and material bearing on your application.
- Please respect the maximum length of text indicated, excluding supporting documents.

1	CENEDAI	INFORMATION	ON THE	MASTERS	CULIBRE
1.	GENERAL		UN INC	MASIERS	COURSE

1.1	General discipline
	Agricultural sciences
	Architecture, urban and regional planning
	☐ Art and design
	☐ Business studies, management sciences
	Communication and information sciences
	☐ Education, teacher training
	☐ Engineering, technology
	Geography, geology
	☐ Humanities
	☐ Languages and philological sciences
	☐ Law
	Mathematics, informatics
	☐ Natural sciences
	☐ Social sciences
	Other:
	Specific discipline (if further specification is useful): Biostatistics, with emphasis on medical statistics
1.2	Duration and ECTS credits
	The full-degree programme covers:
	one year (60 ECTS credits) ²
	one year and 3 months (80 ECTS credits)
	two years (120 ECTS credits) ²
1.3	Student population and number of staff involved in the Masters Course: 140 students, 40 staff
1.4	Final degree delivered
	double
	multiple multiple

² If your Masters Course carries more than the standard credits, please indicate how many and provide further details under point 2.2.

2. DETAILED DESCRIPTION OF THE MASTERS COURSE (max. 15 pages excluding annexes e.g. CVs, etc.)

Study programme and recognition

2.1 Describe the objectives of the Masters Course. Describe how the Masters Course contributes towards university excellence and European competitiveness.

The objective is to offer a solid, international training in biostatistics, in institutions with a strong record in education, research, and scientific collaboration in this area. The Limburgs Universitair Centrum has run an MSc in Biostatistics for over 17 years and has been the beneficiary of a Flemish Interuniversity Council Grant, allowing enrolment of 16 students from developing countries, in the two-year programme. Lancaster University has run an MSc in Statistics, with a strong branch in Medical Statistics, for XX years, and they have been recognized as a Centre of Excellence for Training and Teaching by the UK HEFCE. The London School of Hygiene and Tropical Medicine has run an MSc in Medical Statistics for XX years. They have extensive experience with the training of students from developing countries. The UPC and USC have strong training programs in statistics, at the predoctoral and postdoctoral level.

The various partner institutes have specific research expertise in a number of areas featuring on the curriculum. Students will be able, for example, to make use of the extensive clinical trial, epidemiology, infectious diseases expertise of the LSHTM partner, the longitudinal, survival, event history, and environmental expertise of Lancaster, the longitudinal, incomplete data, and clinical trial expertise of LUC, etc.

2.2 Describe the structure and the content of the study programme in detail indicating the value of each part of the programme in ECTS credits. Describe the role of each institution within the consortium in course delivery indicating which part of the programme is delivered by which institution.

The course is organized in four trimesters. The first trimester is taken either at LUC, or at Lancaster, or at the LSHTM.

First term LUC (20 ECTS):

- Principles of Statistical Inference (5 ECTS)
- Foundations of Linear Models (5 ECTS)
- Applied Data Modelling (5 ECTS)
- Medical Biology (5 ECTS)

First term Lancaster (20 ECTS):

- Bayesian Inference (5 ECTS)
- Generalised Linear Models (5 ECTS)
- Advanced Likelihood Inference (5 ECTS)
- Statistics in Practice (5 ECTS)

First term LSHTM (20 ECTS):

- Fundaments of Medical Statistics (5 ECTS)
- Statistical Inference (5 ECTS)
- Clinical Trials (5 ECTS)
- Basic Epidemiology (5 ECTS)

Students switch over to another institution during the second and third terms. They complete these two terms within the same institution, unless there is a motivated and honoured request to do otherwise.

Second/third terms at LUC (40 ECTS):

- Multivariate Data Analysis (5 ECTS)
- Longitudinal Data Analysis (5 ECTS)

- Epidemiology (5 ECTS)
- Advanced Modelling Techniques (5 ECTS)
- Survival Data Analysis (5 ECTS)
- Genetic Data Analysis (5 ECTS)
- Two out of: Modelling Infectious Diseases, Bayesian Data Analysis (not for Lancaster students), Bioinformatics, Topics in Epidemiology (5 ECTS for each of the two courses, 10 ECTS in total)

Second/third terms at Lancaster (40 ECTS)

- Longitudinal Data Analysis (5 ECTS)
- Epidemiology (5 ECTS)
- Survival and Event History Analysis (5 ECTS)
- Environmental Epidemiology (5 ECTS)
- Clinical Trials (5 ECTS)
- Special Topics in Biostatistics (5 ECTS)
- Two out of: Geostatistics, Time Series Regression, Environmental Stochastic Processes, Extremes (5 ECTS for each of the two courses, 10 ECTS in total)

Second/third terms at LSHTM (40 ECTS)

- Statistical Methods in Medical Research (5 ECTS)
- Statistical Methods in Epidemiology (5 ECTS)
- Analysis of Hierarchical and Dependent Data (5 ECTS)
- Genetic Epidemiology (5 ECTS)
- Bayesian Data Analysis & Computer Intensive Methods (5 ECTS)
- Modelling and Dynamics of Infectious Diseases (5 ECTS)
- Two out of: Advanced Statistical Methods in Medical Research, Epidemiology and Control of Communicable Diseases, Epidemiology and Control of Non-Communicable Diseases, AIDS (5 ECTS for each of the two courses, 10 ECTS in total)

Second/third terms at UPC (40 ECTS)

- Survival Analysis (5 ECTS)
- Statistical Forecasting Methods (5 ECTS)
- Operations Research Methods and Techniques (5 ECTS)
- Experimental Design and Process Optimisation (5 ECTS)
- Multidimensional Data Analysis Methods (5 ECTS)
- Simulation Environments (5 ECTS)
- Advanced Operations Research (5 ECTS)
- Advanced Techniques in Experimental Design (5 ECTS)

Second/third terms at USC (40 ECTS)

INPUT REQUIRED FROM CARMEN

Fourth term (20 ECTS)

The students conduct a 2-3 month training in a third partner institution. They write a project report (dissertation) about the project and defend it orally.

2.3 Describe the acquired competencies and the learning outcomes of the Masters Course.

Fundamental scientific goals : the student should

1. be able to deal with scientific problems in an autonomous and efficient way

- 2. have a good understanding for the theoretical basis of biostatistical methodology, and be able to link concepts into applications
- 3. acquire a critical scientific way of thinking, allowing him to obtain new knowledge independently
- 4. be stimulated to continue scientific research, and master the basics of the scientific method in an interdisciplinary framework
- 5. be able to view the biostatistical science and the job of biostatistician in a broad international framework

Concrete practical goals: the student should

- 1. obtain interrelation skills to efficiently cooperate in team work
- 2. master communication skills, with peers as well as with colleagues from other disciplines
- 3. be capable of writing thorough scientific reports according to the guidelines of scientific journals in the concerned discipline areas (biostatistical, medical, biological, agricultural, epidemiological, ...) and of giving clearly structured oral presentations, for both technical and non-technical audiences
- 4. be able to discover structures in the usually complex questions of clients, and plan and follow up on the assignment within the available time and with the most adequate statistical techniques, combining and extending knowledge from different areas
- 5. be confronted with real-life situations of the biostatistician, starting from realistic study designs and data sets, be able to consider pro's and con's of different approaches and come to a justified choice
- 6. be able to oversee and contribute to complex studies (e.g., clinical or epidemiological studies) from planning until analyzing and reporting the results
- 7. be able to assess the impact of biostatistics on policy decisions, health care, agriculture and environment, etc., and be able to participate in the social debate, without avoiding ethical considerations
- 8. master the necessary technical competences to process and analyse data with statistical software, and be able to, if necessary, learn how to master new software or write new macro's

Topic-specific competences in own discipline (biostatistics): the student should

- 1. be able to actively and adequately participate in the design of studies, and be aware of the consequences of the design on further analysis (experimental studies, observational studies, survey methodology, ...)
- 2. know how to determine sample size and collect data
- 3. be able to use graphical tools to explore, summarize and describe numerical data
- 4. recognise patterns and structures in data (independence, correlations, repeated measurements, missing data, ...)
- 5. have a fundamental insight in basic theoretical concepts (probability theory, distributions, estimation theory, hypothesis testing, ...) as well as in the theories supporting the analysis methodology (frequentist, likelihood and Bayesian inference, linear and generalized linear models, repeated measurements and survival analysis, likelihood alternatives, semi- and non-parametric approaches, ...)
- 6. dispose of a range of statistical modelling techniques and know how to correctly use them (simple, multiple and logistic regression, analysis of variance, discrete data analysis, multivariate methods, repeated measurements, survival analysis, semi- and non-parametric techniques, ...)
- 7. be capable of correctly interpreting results of analyses
- 8. know the limitations of statistical analyses, take them into account and let them be known when presenting an optimal solution to a problem
- 9. be capable of autonomously understanding the underlying concepts of new methods to apply and/or extend them to new situations
- 10. view new developments and applications in statistics in a general framework and not as separate techniques, follow these developments closely, and fathom the implications on the own research
- 11. know the professional literature and be able to efficiently collect and evaluate statistical information (journals, internet, ...)
- 12. develop an overall analytical and synthetic reasoning power to solve, individually as well as in team, real statistical problems and to write and defend a thorough scientific report (master thesis). A lot of attention is focused on the context of the underlying problem.

Topic-specific competences in auxiliary disciplines: the student should

- 1. have adequate skills in calculus (derivatives and integrals) and in applied linear algebra to understand the background of applied statistical techniques
- 2. master word processors and presentation software, as well as internet explorers
- 3. master more than one statistical software package, be able to manipulate data across different systems, be able to autonomously master new software and write macro's in open languages and packages
- 4. recognise the specificity of statistical software, and know which packages and procedures are most adequate for typical data analyses
- 5. be able to correctly interpret output
- 6. have insight in the combined play between statistics and fast computational techniques, and be able to use this knowledge for analyses based on computer intensive methods
- 7. have developed the attitude to maintain the above competences by self study and literature follow up
- 8. know methods and master software to manage data bases, and detect relations within data bases

Topic-specific competences in application areas: the student should

- 1. develop the attitude to follow up on biostatistics methodological literature, as well as on literature in relevant areas of application (e.g., oncology or AIDS, literature on certain agricultural topics like post harvest technology) to maintain a high-principled interaction with biostatistics
- 2. be capable of mastering an area of application (biology, genetics, toxicology, ...) to perform collective research in a multidisciplinary research team

Discipline exceeding competences: the student should

- 1. be able to report clearly and professionally, also in an international context, and know the criteria and guidelines for scientific reports
- be able to give clear and motivated oral presentations, on a level adjusted to the audience, and be capable of evaluating when and how modern audiovisual aims can support a presentation
- 3. learn how to work in a team, stimulating the group atmosphere and motivation
- 4. be able to plan and finish individual tasks as well as group assignments on time

- 5. develop a feeling on how to achieve effective consulting. This includes adjusting to the terminology of the client, clarifying and reformulating scientific questions into understandable statistical procedures, making arrangements on the procedure to follow and formulating clear conclusions
- 6. be trained in working in an international context, with peer students from countries all over the world, handling international English literature, and assuming a position in an international context (where English is almost always one of the working languages)
- 7. be trained with the correct scientific attitude and adequate assertiveness to be able to pass on to the non-biostatisticians the importance and the limitations of the contribution of a biostatistician, as a participant in a multidisciplinary research project
- 2.4 List the partner institutions awarding the final degree and describe the title and the type of the final degree awarded by filling in the table below. Add further rows to the table, if necessary. Describe the role of each partner institution in the degree-awarding arrangements. Indicate if all successful students (European and third-country) receive the same final degree.

Name of institution	Title of degree awarded for this Masters Course by this institution	Type of degree awarded	Date and reference of formal approval of degree (Provide details of approval procedures under point 2.5)
Limburgs Universitair	Master of Science in Biostatistics	double double	Formally approved by the
Centrum		multiple multiple	Flemish Government - DATE
		☐ joint	
		double	
		multiple multiple	
		☐ joint	
		double	
		multiple multiple	
		ioint joint	

2.5 Describe the policy and the legal procedures within the Masters consortium for the recognition of programme components and the programme as a whole. Provide details of legal approval procedures for those partner institutions which deliver the joint, double or multiple degree. Provide proof that the degree is officially recognised by the countries concerned.³

The contributing programmes of the partner institutions are recognized by the respective institutions (their academic authorities and national authorities). Students formally enrol in the institution where the first term is followed. The main institution recognizes the courses of each of the partner institutes for the second, third, and fourth terms. They will be listed on the Diploma Supplement, with indication of course title, course description, ECTS, and partner institution involved.

2.6 Indicate if the Diploma Supplement is used by the Masters consortium.

Yes, as indicated in 2.5. The Diploma Supplement will explicitly mention the Erasmus Mundus Label.

2.7 Indicate if the Masters Course has been newly created or if it has already existed.

Advanced and highly respected Master Programs have been in existence at LUC, Lancaster, and LSHTM. The current proposal combines these courses, with existing Doctoral Program Courses in UPC and USC. Students will be able to choose courses and institutions to (1) match their interests and professional requirements and (2) make use of the research expertise that various partners have in a variety of topics.

Teaching staff

2.8 Describe the professional and academic experience of the teaching staff who will deliver the core parts of the study programme. Enclose summary CVs of a maximum of 2 pages for each of the persons concerned in an annex.⁴

³ You are advised to check with your Erasmus Mundus National Structure whether they can provide a model for the proof you have to submit in your national context.

⁴ If you apply for an Erasmus Mundus Masters Course including a preparatory year, you may not be in a position to provide this information fully.

BEFORE STARTING DESCRIPTIONS, WE SHOULD LIST NAMES

LUC:

Noël Veraverbeke Paul Janssen Marc Aerts Geert Molenberghs Geert Verbeke Ziv Shkedy Tomasz Burzykowski Joost Weyler Marc Buyse

Lancaster:

Peter J. Diggle Robin Henderson

LSHTM:

Michael G. Kenward Stuart Pocock

UPC:

Guadalupe Gomez i Melis

USC:

Wenceslao Gonzalez-Manteiga Carmen Cadarso Suarez

2.8 Describe the availability and presence of teaching staff for enrolled students

Since the teaching staff is involved in regularly running MSc and doctoral courses, with a strong and long tradition, there is no problem of availability for the program in the current application. Administrative staff is available to ensure a smooth running of the location-specific and coordination aspects of the Master Course.

Admission, application, selection, examination criteria

2.10 Describe the common admission criteria, application procedure, selection process and examination criteria for students within the Masters consortium. Indicate all admission conditions for students, including any additional ECTS requirements or qualifications needed following the first degree.

Students will have to pass through the admission boards of one of the three institutions (LUC, Lancaster, and LSHTM), where the first term will be taken.

For LUC, a solid and demonstrable training at the undergraduate or graduate level in mathematics, statistics, or related scientific field is required, as well as working knowledge of English, since the courses are taught in the English language.

2.11 Indicate if students have to pay tuition fees. If so, give the amount of the fee for third-country and European students. Indicate when and where the students have to pay these fees and how the fees are distributed between the members of the consortium.

LUC: tuition fee is 488 euro for all students.

Mobility arrangements

2.12 Describe the mechanisms of student and scholar mobility between the institutions of the Masters consortium. Indicate all mobility combinations, the duration of mobility periods and the number of ECTS credits acquired during mobility.

The programs requires that students take the first term in one institution, the second and third terms in another institutions, and the fourth term (project) in yet another institution.

Third-country students and scholars⁵

2.13 Describe the mechanisms within the Masters consortium to reach out to potentially interested third-country students and scholars.

LUC has a VLIR (Flemish Interuniversity Council) grant, enrolling 16 students a year from developing countries. This has established a strong network of current and former students from third countries. OTHER INSTITUTIONS.

Efforts will be taken to couple the existing outreach programs to the Erasmus Mundus program, so that these students can have additional benefits from their study stay in Europe. If necessary, tailor-made versions of the programs will be considered, so that commitments with the granting bodies can be honoured.

2.14 With reference to question 2.10, describe if special conditions apply to third-country students. Also, describe the application and selection process for third-country scholars.

LUC. The same conditions apply. Students with a weak background in statistics may be directed first to LUC's Master of Science in Applied Statistics Programme. Thereafter, they can enrol in the Master of Science in Biostatistics and, by extension, also for the Erasmus Mundus Programme.

2.15 Describe how third-country students and scholars will be distributed within the Masters consortium.

Since the students will visit three partners of the consortium, a mix over the various partners will happen automatically.

2.16 Describe the services provided by the Masters consortium to welcome and host third-country students and scholars (international office, housing facilities, coaching and counselling, welfare services, language courses, activities aiming at social integration, services for students with a family or special needs, other support measures, etc.).

Since LUC hosts at any point in time more than 30 students from developing countries, there is a well established internal office service, offering the services mentioned in the question (housing, administrative support). A group of staff members is charged with mentoring regarding academic affairs, while others look into non-academic affairs. A lively student organization groups current and former students and organizes a variety of social and cultural activities.

2.17 Describe the financial management and payment mechanisms of scholarships for third-country students and scholars within the Masters consortium.

LUC. The tuition fee, as a consequence of the Belgian constitution and corresponding legislation, is very low. Nevertheless, if necessary, arrangements are made to facilitate payment.

ERASMUS MUNDUS PROGRAMME
Application form for Action 1

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⁵ If you apply for an Erasmus Mundus Masters Course including a preparatory year, you may not be in a position to provide this information fully.

Language policy

2.18 Describe the language policy applied within the Masters consortium, including language(s) of instruction, language(s) of examinations, and language learning support offered.

Courses are offered in English in all partner institutions, while national and regional languages differ at LUC (Dutch), Barcelona (Catalan), and Santiago de Compostella (Galician). The three Regions have an active policy of national and regional linguistic protection, and ample opportunities exist to learn Dutch, Spanish, Catalan, and Galician. We believe the linguistic variety, with at the same time the facility to take classes in English, is a unique opportunity for international students to get acquainted with the fundamental values of the European Union. In particular, scientific and academic collaboration is combined with respect, knowledge, and study of local culture, history, tradition, and language.

Quality assurance and evaluation

- 2.19 Describe how the quality of the Masters Course as well as ECTS mechanisms (including the "grading scale") or other mechanisms based on ECTS are assured. Explain if quality assurance is carried out internally by the Masters consortium or by an external body. Any processes and procedures developed in response to specific needs of the study programme should be detailed.
 - LUC. The examination board ensures level and quality of intake. The educational experts survey the quality of the courses and so does the Board of Advisors of the MSc programs. External visitations, staffed by international experts, take place on a regular basis. They are organized by the Flemish Interuniversity Council, for the program in general and its developing country program in particular.
- 2.20 Describe the evaluation and quality assessment mechanisms within the Masters consortium. Indicate if third-country students and scholars will be invited to assess the Masters Course at the end of their stay.

The partner-specific quality assessment mechanisms will be used in full. In addition, consortium-specific mechanisms will be implemented to ensure the integrity of the program as a whole, across the various institutions, is maintained. Students will be brought together in evaluation meetings at the end of every term and detailed reports will be made.

Co-operation aspects

2.21 Describe the co-operation mechanisms within the Masters consortium.

I SUGGEST A CONSORTIUM SPECIFIC BOARD, WITH ONE REPRESENTATIVE PER INSTITUTION.

2.22 Describe briefly the administrative staffing and the funding of the Masters consortium.

INPUT AND IDEAS FROM PARTNERS PLEASE

Preparatory year

2.23 In case your Masters consortium applies for a Course including a preparatory year, describe the reasons why. Describe the activities you will carry out during the preparatory year, in particular indicate if the Masters Course will run during the preparatory year.

Other aspects

2.24 Explain to which extent the Masters Course is linked to research activities.

The Master Course is organised such that the research strengths of each partner institute, for which they enjoy international recognition, can be brought to value through appropriate study trajectories. See, for example, the research strengths detailed under 2.1. In this sense, the Master Course is stronger than each of the pillars on which it is built, in spite of the fact that these are strong already and have received a variety of national and international recognition and support.

2.25 Explain in how far the Masters Course has a distinctive European added value.

The Master Course will help strengthen the field of biostatistics at the highest possible level. The field is largely spearheaded by the United States and every effort should be undertaken to both strengthen the educational institutions and the pool of students who have received top level training from academic institutions. It will help strengthen the field which plays a crucial role in medicine, public health, epidemiology, agriculture, the environment, biology, genetics, etc.

In addition, the students will be exposed at the same time to a strong European sense of collaboration in the field of biostatistics as well as to local regional culture and language, one of the defining aspects of the European Union.

2.26 Describe any aspect of the Masters Course which offers potential examples of good practice and which could be disseminated more widely.

The fact that master level training is rooted in high level scientific activity. Researchers from the participating institutions enjoy a strong international reputation in sub-fields of statistics and biostatistics, not only in Europe, but in the world at large. Such topics include longitudinal data, survival data, clinical trials, incomplete data, infectious disease, environmental models, time series, geostatistical data, etc.

2.27 Describe any other aspect of the Masters Course which is not covered by the previous questions and which can be of relevance for the assessment of your application.

SECTION 3 - GRANT REQUESTED

- Please read the relevant section of the Erasmus Mundus Call for Proposals EAC/04/05 and the Administrative and Financial Handbook for Erasmus Mundus Projects.
- The requested grant of 15,000 € refers to the <u>first</u> year of the five-year period for which an Erasmus Mundus Masters Course will be selected. This amount applies to Erasmus Mundus Masters Courses with or without a preparatory year.

Total grant requested by the Consortium for the academic year 2006/2007	15,000 €
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SECTION 4 - DECLARATION

To be completed by the legal representative of the co-ordinating institution indicated under Section 1, point 6.1 above.

b.1 above.				
I, the undersigned, certify that the information contained in this application is correct to the best of my know	vledge.			
f my institution is private in nature, I declare on my honour that it has the financial and operational capacity to carry o the proposed Masters Course.				
I declare on my honour that neither I nor my institution is in any of the situations listed under point 12 of Mundus Call for Proposals EAC/04/05.	the Erasmus			
I am aware that the Erasmus Mundus Masters consortium which submits this application commits itself to Action 1 <u>and Action 2 (scholarships)</u> of the Erasmus Mundus programme for a period of five years, if my successful.				
I am aware that penalties may be applied in the case of a false declaration.				
In the event that my application is successful, I authorise the Commission to publish on its internet site or appropriate medium:	r in any other			
The name and address of the beneficiary of the Erasmus Mundus grant;				
,				
• The subject of the grant;				
The amount awarded to the approved Masters Course.				
Place: Date: / / (day/month/yea	ar)			
Signature: Stamp of the co-ordinating institution	n:			
Name and position in capitals:				
Checklist	_			
The application is completed in full. All questions have been answered.				
Each page has been numbered.				
The application has been typewritten or word–processed.				
The original application has been signed by the legal representative of the co-ordinating institution and stamped.				
Copies of letters from the appropriate authorities of each institution participating in the Masters Course, confirming their				
agreement with the application as submitted are attached.				
Proof of the official recognition of the degree(s) is attached.	- -			
The financial identification form has been filled in and duly signed in original (see Annex 2). The original application and 2 copies thereof are being sent to the address indicated on page 2 of the application	L			
form by rapid post and e-mail, in the same envelope and before the closing date.				
Paper and electronic copies of this application are being sent to the National Structures in the countries of each of				
the narticinating institutions before the closing date				

ANNEXES

List of codes to be used in the application

You will find here the codes you will have to use when filling in the application, i.e.:

- Country codes Region codes (NUTS)

Country codes					
BE	Belgium	HU	Hungary		
CZ	Czech Republic	MT	Malta		
DK	Denmark	NL	The Netherlands		
DE	Germany	ΑT	Austria		
EE	Estonia	PL	Poland		
ES	Spain	PT	Portugal		
FR	France	SI	Slovenia		
GR	Greece	SK	Slovak Republic		
ΙE	Ireland	FI	Finland		
IT	Italy	SE	Sweden		
CY	Cyprus	UK	United Kingdom		
LV	Latvia	IS	Iceland		
LT	Lithuania	LI	Liechtenstein		
LU	Luxembourg	NO	Norway		

REGION CODES (NUTS) BE **BELGIUM** BE1 BRUXELLES CAP. BRUSSEL HOF ANTWERPEN **BRABANT WALLON** BE21 **BE31** BE22 LIMBURG BE32 HAINAUT BE23 **OOST-VLAANDEREN BE33** LIEGE BE24 VLAAMS BRABANT BE34 LUXEMBOURG BE25 WEST VLAANDEREN BE35 NAMUR DK DANMARK DK001 Københavns og Frederiksberg Kommuner DK002 KØBENHAVNS AMT **DK009** SØNDERJYLLANDS AMT DK003 FREDERIKSBORG AMT DK00A RIBE AMT **DK004 ROSKILDE AMT** DK00B **VEJLE AMT** DK005 VESTSJÆLLANDS AMT DK00C RINGKØBING AMT DK006 STORSTRØMS AMT DK00D ÅRHUS AMT DK007 **BORNHOLMS AMT** DK00E VIBORG AMT DK008 FYNS AMT DK00F NORDJYLLANDS AMT DE DEUTSCHLAND BADEN WÜRTTEMBERG **NIEDERSACHSEN** DE11 **STUTTGART** DE91 **BRAUNSCHWEIG** DE12 KARLSRUHE DE92 **HANNOVER** DE13 **FREIBURG** DE93 LÜNEBURG TÜBINGEN DE94 WESER-EMS DE14 BAYERN NORDRHEIN-WESTFALEN DE21 **OBERBAYERN** DEA1 DÜSSELDORF DE22 **NIEDERBAYERN** DEA2 KÖLN DE23 OBERPFALZ DEA3 MÜNSTER DE24 OBERFRANKEN DEA4 DETMOLD DE25 MITTELFRANKEN DEA5 **ARNSBERG** UNTERFRANKEN DE26 DE27 **SCHWABEN** RHEINLAND-PFALZ DEB1 **KOBLENZ** DEB2 DE3 **BERLIN TRIER** DEB3 RHEINHESSEN - PFALZ DE4 **BRANDENBURG** DEC SAARLAND DE5 **BREMEN** SACHSEN DE6 **HAMBURG** DED1 **CHEMNITZ** DED2 DRESDEN DED3 **LEIPZIG**

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	HESSEN	DEE1	DESSAU
DE71	DARMSTADT	DEE2	HALLE
DE72	GIESSEN	DEE3	MAGDEBURG
DE73	KASSEL		
		DEF	SCHLESWIG-HOLSTEIN
DE8	MECKLENBURG-VORPOMMERN	DEG	THÜRINGEN
GR	ELLADA	_	
	VOREIA ELLADA	GR3	ATTIKI
GR11	ANATOLIKI MAKEDONIA, THRAKI		
GR12	KENTRIKI MAKEDONIA		NISIA AIGAIOU, KRITI
GR13	DYTIKI MAKEDONIA	GR41	VOREIO AIGAIO
GR14	THESSALIA	GR42	NOTIO AIGAIO
		GR43	KRITI
	KENTRIKI ELLADA		L
GR21	IPEIROS		
GR22	IONIA NISIA	GR24	STEREA ELLADA
GR23	DYTIKI ELLADA	GR25	PELOPONNISSOS
ES	ESPAÑA		
	NOROESTE		ESTE
ES11	NOROESTE GALICIA	ES51	CATALUÑA
ES12	ASTURIAS	E\$52	COMUNIDAD VALENCIANA
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ES22	NAVARRA	ES62	MURCIA
ES23	LA RIOJA	ES63	CEUTA Y MELILLA
ES24	ARAGÓN		
ES3	COMUNIDAD DE MADRID		CENTRO
		ES41	CASTILLA-LEÓN
ES7	CANARIAS	ES42	CASTILLA- LA MANCHA
		ES43	EXTREMADURA
FR	FRANCE		
FR1	ILE DE FRANCE		SUD-OUEST
		FR61	AQUITAINE
	BASSIN PARISIEN	FR62	MIDI-PYRENEES
FR21	CHAMPAGNE – ARDENNE	FR63	LIMOUSIN
FR22	PICARDIE		
R23	HAUTE NORMANDIE		CENTRE-EST
R24	CENTRE	FR71	RHÔNE-ALPES
R25	BASSE NORMANDIE	FR72	AUVERGNE
FR26	BOURGOGNE		
FR3	NORD - PAS DE CALAIS		MEDITERRANNEE
		FR81	LANGUEDOC-ROUSSILLON
	EST	FR82	PROVENCE-ALPES-CÔTES D'AZUR
FR41	LORRAINE	FR83	CORSE
FR42	ALSACE		
D/12	EDANCHE COMTE		

FR43

FRANCHE-COMTE

SACHSEN-ANHALT

FR91 GUADELOUPE	FR51	FR51	OUEST	ED04	
FR52 BRETAGNE FR93 GUYANE FR94 REUNION	FR52 BRETAGNE FR93 GUYANE FR94 REUNION	FR51	00201	FR91	GUADELOUPE
FR52 BRETAGNE FR93 GUYANE FR94 REUNION	FR52 BRETAGNE FR93 GUYANE FR94 REUNION		PAYS DE LOIRE	FR92	MARTINIQUE
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IT53 MARCHE	IT33	IT51 IT52	CENTRO TOSCANA UMBRIA		
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	IT33 FRIULI-VENEZIA GIULIA IT92 BASILICATA IT93 CALABRIA IT4 EMILIA-ROMAGNA ITA SICILIA CENTRO IT51 TOSCANA IT52 UMBRIA IT53 MARCHE	IT51 IT52 IT53	CENTRO TOSCANA UMBRIA MARCHE		
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LU LUXEMBOURG (Grand Duché)	IT33 FRIULI-VENEZIA GIULIA IT92 BASILICATA IT93 CALABRIA IT4 EMILIA-ROMAGNA ITA SICILIA CENTRO IT51 TOSCANA IT52 UMBRIA IT53 MARCHE LU LUXEMBOURG (Grand Duché)	IT51 IT52 IT53	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché)		
	IT33 FRIULI-VENEZIA GIULIA IT92 BASILICATA IT93 CALABRIA IT4 EMILIA-ROMAGNA ITA SICILIA CENTRO IT51 TOSCANA IT52 UMBRIA IT53 MARCHE LU LUXEMBOURG (Grand Duché)	IT51 IT52 IT53	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché)		
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LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT	IT33	IT51 IT52 IT53 LU NL	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN	ITB NL31	SARDEGNA WEST-NEDERLAND UTRECHT
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL31 UTRECHT NL32 NOORD-HOLLAND	IT33	IT51 IT52 IT53 LU NL NL11 NL12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND	NL31 NL32	WEST-NEDERLAND UTRECHT NOORD-HOLLAND
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT	IT33	IT51 IT52 IT53 LU NL NL11 NL12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND	NL31 NL32	WEST-NEDERLAND UTRECHT NOORD-HOLLAND
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL31 UTRECHT NL32 NOORD-HOLLAND	IT33	IT51 IT52 IT53 LU NL NL11 NL12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND	NL31 NL32 NL33	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND
NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 DRENTHE NL31 UTRECHT NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND	IT33	IT51 IT52 IT53 LU NL NL11 NL12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE	NL31 NL32 NL33	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT NL12 FRIESLAND NL32 NOORD-HOLLAND NL13 DRENTHE NL33 ZUID-HOLLAND NL34 ZEELAND	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND	NL31 NL32 NL33	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 DRENTHE NL31 UTRECHT NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND NL34 ZEELAND NL21 OVERIJSSEL	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 DRENTHE NL31 UTRECHT NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND NL34 ZEELAND NL21 OVERIJSSEL NL22 GELDERLAND NL41 NOORD-BRABANT	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 DRENTHE NL31 UTRECHT NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND NL34 ZEELAND NL21 OVERIJSSEL	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NOORD-NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT NL12 FRIESLAND NL32 NOORD-HOLLAND NL13 DRENTHE NL33 ZUID-HOLLAND NL34 ZEELAND NL34 ZEELAND OOST-NEDERLAND ZUID-NEDERLAND NL21 OVERIJSSEL ZUID-NEDERLAND NL22 GELDERLAND NL41 NOORD-BRABANT NL23 FLEVOLAND NL42 LIMBURG (NL)	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 DRENTHE NL31 UTRECHT NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND NL34 ZEELAND NL21 OVERIJSSEL NL22 GELDERLAND NL41 NOORD-BRABANT	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT
LU LUXEMBOURG (Grand Duché) NL NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT NL12 FRIESLAND NL32 NOORD-HOLLAND NL13 DRENTHE NL33 ZUID-HOLLAND NL34 ZEELAND OOST-NEDERLAND NL21 OVERIJSSEL ZUID-NEDERLAND NL22 GELDERLAND NL41 NOORD-BRABANT NL23 FLEVOLAND NL42 LIMBURG (NL)	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL)
NL	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH	NL31 NL32 NL33 NL34	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL) WESTÖSTERREICH
LU LUXEMBOURG (Grand Duché) NL NEDERLAND WEST-NEDERLAND NL11 GRONINGEN NL31 UTRECHT NL12 FRIESLAND NL32 NOORD-HOLLAND NL13 DRENTHE NL33 ZUID-HOLLAND NL34 ZEELAND OOST-NEDERLAND NL21 OVERIJSSEL ZUID-NEDERLAND NL22 GELDERLAND NL41 NOORD-BRABANT NL23 FLEVOLAND NL42 LIMBURG (NL)	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13 NL21 NL22 NL23	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH	NL31 NL32 NL33 NL33 NL34 NL41 NL42	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL) WESTÖSTERREICH
NL	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13 NL21 NL22 NL23 AT	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH OSTÖSTERREICH BURGENLAND	NL31 NL32 NL33 NL34 NL41 NL42	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL) WESTÖSTERREICH OBERÖSTERREICH
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL12 FRIESLAND NL13 UTRECHT NL13 NOORD-HOLLAND NL13 ZUID-HOLLAND NL33 ZUID-HOLLAND NL24 ZEELAND NL21 OVERIJSSEL ZUID-NEDERLAND NL22 GELDERLAND NL41 NOORD-BRABANT NL23 FLEVOLAND NL42 LIMBURG (NL) AT ÖSTERREICH WESTÖSTERREICH AT11 BURGENLAND AT31 OBERÖSTERREICH AT12 NIEDERÖSTERREICH AT32 SALZBURG	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13 NL21 NL22 NL23 AT AT11 AT12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH OSTÖSTERREICH BURGENLAND NIEDERÖSTERREICH	NL31 NL32 NL33 NL34 NL41 NL42 AT31 AT32	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL) WESTÖSTERREICH OBERÖSTERREICH SALZBURG
LU LUXEMBOURG (Grand Duché) NL NEDERLAND NL11 GRONINGEN NL31 UTRECHT NL12 FRIESLAND NL32 NOORD-HOLLAND NL13 DRENTHE NL32 NOORD-HOLLAND NL33 ZUID-HOLLAND NL34 ZEELAND OOST-NEDERLAND NL21 OVERIJSSEL ZUID-NEDERLAND NL22 GELDERLAND NL41 NOORD-BRABANT NL23 FLEVOLAND NL42 LIMBURG (NL) AT ÖSTERREICH WESTÖSTERREICH AT11 BURGENLAND AT31 OBERÖSTERREICH	IT33	IT51 IT52 IT53 LU NL NL11 NL12 NL13 NL21 NL22 NL23 AT AT11 AT12	CENTRO TOSCANA UMBRIA MARCHE LUXEMBOURG (Grand Duché) NEDERLAND NOORD-NEDERLAND GRONINGEN FRIESLAND DRENTHE OOST-NEDERLAND OVERIJSSEL GELDERLAND FLEVOLAND ÖSTERREICH OSTÖSTERREICH BURGENLAND NIEDERÖSTERREICH	NL31 NL32 NL33 NL34 NL41 NL42 AT31 AT32 AT33	WEST-NEDERLAND UTRECHT NOORD-HOLLAND ZUID-HOLLAND ZEELAND ZUID-NEDERLAND NOORD-BRABANT LIMBURG (NL) WESTÖSTERREICH OBERÖSTERREICH SALZBURG TIROL
	NORD EST		NODD ECT		3,
	NORD FOT		NODD FOT	118	CAIVIFAINIA
				IT8	CAMPANIA
NORD EST	118 CAMPANIA		1	ITO	CAMPANIA
NORD EST	IT8 CAMPANIA	IT2	LOMBARDIA		
NORD EST	IT8 CAMPANIA	IT2	LOMBARDIA		
NORD EST IT8 CAMPANIA		IT2	LOMBARDIA		
NORD EST CAMPANIA		IT2	LOMBARDIA		
NORD EST CAMPANIA				1172	WOLISE
NORD EST CAMPANIA				IT72	MOLISE
IT2 LOMBARDIA IT8 CAMPANIA NORD EST	IT2 LOMBARDIA	1110	Elogitint		
IT2 LOMBARDIA IT8 CAMPANIA NORD EST	IT2 LOMBARDIA	IT13	LIGURIA	IT71	ABRUZZO
IT72 MOLISE IT2	IT72 MOLISE IT2 LOMBARDIA			—	-
IT13	IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA	IT12	VALLE D'AOSTA		ABRUZZO-MOLISE
IT13	IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA				ADDUZZO MOLIOE
IT13	IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA	IT11	PIEMONTE		
IT12 VALLE D'AOSTA IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA IT8 CAMPANIA	IT12				L/1210
IT11	IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA		NORD OVEST	IT6	LAZIO
IT11	IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA				
IT11	IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT71 ABRUZZO IT72 MOLISE IT2 LOMBARDIA	П	IIALIA		
NORD OVEST IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT1 ABRUZZO-MOLISE IT11 ABRUZZO IT12 MOLISE IT12 LOMBARDIA IT8 CAMPANIA	NORD OVEST IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT1 ABRUZZO-MOLISE IT11 MOLISE IT12 LOMBARDIA				
IT	IT	IE012	MIDLAND	IE013	WEST
IT	IT	IE022	MID-EAST	IE025	SOUTH-WEST (IRL)
IE012 MIDLAND IE013 WEST	IE012 MIDLAND IE013 WEST IT ITALIA NORD OVEST IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT14 ABRUZZO-MOLISE IT17 ABRUZZO IT17 MOLISE IT17 MOLISE	15000	LAUD FAOT		OOUTUNEST (IDL)
IE012 MIDLAND IE013 WEST IT ITALIA NORD OVEST IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT71 ABRUZZO-MOLISE IT72 MOLISE IT72 LOMBARDIA IT8 CAMPANIA	IE012 MIDLAND IE013 WEST IT ITALIA NORD OVEST IT11 PIEMONTE IT12 VALLE D'AOSTA IT13 LIGURIA IT1 ABRUZZO-MOLISE IT17 MOLISE IT17 MOLISE	IE021	DUBLIN	IE024	SOUTH-EAST (IRL)
IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT	IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT				
IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT	IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT	IE011	BORDER	IE023	MID-WEST
IE021 DUBLIN IE024 SOUTH-EAST (IRL) IE022	IE021 DUBLIN IE024 SOUTH-EAST (IRL) IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT				
IE021 DUBLIN IE024 SOUTH-EAST (IRL) IE022	IE021 DUBLIN IE024 SOUTH-EAST (IRL) IE022 MID-EAST IE025 SOUTH-WEST (IRL) IE012 MIDLAND IE013 WEST IT	IE	IRELAND		
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IE	IE				
FR94 REUNION	FR53 POITOU-CHARENTE FR94 REUNION IE				
FR52 BRETAGNE FR93 GUYANE FR94 REUNION	FR52 BRETAGNE FR93 GUYANE FR94 REUNION		PAYS DE LOIRE	FR92	MARTINIOLIE
FR52	FR52 BRETAGNE FR93 GUYANE FR94 REUNION	FR51		FR91	GUADELOUPE
FR51	FR51	FR51	OUEST	ED04	

DEPARTEMENTS D'OUTRE-MER

	SÜDÖSTERREICH		
AT21	KÄRNTEN		
AT22	STEIERMARK		

PT	PORTUGAL

	CONTINENTE		
PT11	NORTE		
PT12	CENTRO		
PT13 LISBOA E VALE DO TEJO			
PT14	ALENTEJO		
PT15	ALGARVE		

PT2	AÇORES	
PT3	MADEIRA	

FI SUOMI / FINLAND

MANNER-SUOMI	
FI12	ETELÄ-SUOMI
FI13	ITÄ-SUOMI
FI14	VÄLI-SUOMI

	<u> </u>
FI15	POHJOIS-SUOMI
FI16	UUSIMAA (SUURALUE)
FI2	ÅL AND

SE SVERIGE

SE01	STOCKHOLM
SE02	ÖSTRA MELLANSVERIGE
SE04	SYDSVERIGE

SE06	NORRA MELLANSVERIGE
SE07	MELLERSTA NORRLAND
SE08	ÖVRE NORRLAND
SE08	ÖVRE NORRLAND

UK UNITED KINGDOM

VÄSTSVERIGE

SE0A

	NORTH EAST
UKC1	TEES VALLEY AND DURHAM
UKC2	NORTHUMBERLAND, TYNE AND WEAR

	SOUTH WEST(UK)
UKK1	GLOUCESTERSHIRE, WILTSHIRE AND NORTH SOMERSET
UKK2	DORSET, SOMERSET
UKK3	CORNWALL AND ISLES OF SCILLY
UKK4	DEVON

	YORKSHIRE AND THE HUMBER
UKE1	EAST RIDING AND NORTH LINCOLNSHIRE
UKE2	NORTH YORKSHIRE
UKE3	SOUTH YORKSHIRE
UKE4	WEST YORKSHIRE

	WEST MIDLANDS
UKG1	HEREFORD & WORCESTERSHIRE, WARWICKSHIRE
UKG2	SHROPSHIRE, STAFFORDSHIRE
UKG3	WEST MIDLANDS

EAST MIDLANDS	
UKF1	DERBYSHIRE, NOTTINGHAMSHIRE
UKF2	LEICESTERSHIRE, RUTLAND, NORTHAMPTONSHIRE
UKF3	LINCOLNSHIRE

	NORTH WEST (UK)
UKD1	CUMBRIA
UKD2	CHESHIRE
UKD3	GREATER MANCHESTER
UKD4	LANCASHIRE
UKD5	MERSEYSIDE

EASTERN	
UKH1	EAST ANGLIA
UKH2	BEDFORDSHIRE AND HERTFORDSHIRE
UKH3	ESSEX

	LONDON	
UKI1	INNER LONDON	
UKI2	OUTER LONDON	

WALES	
UKL1	WEST WALES AND THE VALLEYS
UKL2	EAST WALES

SOUTH EAST (UK)	
UKJ1	BERKSHIRE,BUCKINGHAMSHIRE,OXFORDSHIRE
UKJ2	SURREY, EAST AND WEST SUSSEX
UKJ3	HAMPSHIRE, ISLE OF WIGHT
UK55	GREATER LONDON
UKJ4	KENT
	·

	SCOTLAND
UKM1	NORTH EASTERN SCOTLAND
UKM2	EASTERN SCOTLAND
UKM3	SOUTH WESTERN SCOTLAND
UKM4	HIGHLANDS AND ISLANDS
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IS	ISLAN

NO

NORGE

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NO01	OSLO OG AKERSHUS
NO02	HEDMARK OG OPPLAND
NO03	SØR-ØSTLANDET
NO04	AGDER OG ROGALAND

NO05	VESTLANDET
NO06	TRØNDELAG
NO07	NORD-NORGE

CZ ČESKÁ REPUBLIKA

CZ01	PRAHA
CZ02	STŘEDNÍ ČECHY
CZ05	SEVEROVÝCHOD
CZ06	JIHOVÝCHOD

CZ03	JIHOZÁPAD
CZ04	SEVEROZÁPAD
CZ07	STŘEDNÍ MORAVA
CZ08	OSTRAVSKO

EE EESTI

CY KYPROS

LV LATVIJA

LT LIETUVA

HU MAGYARORSZÁG

HU01	KÖZÉP-MAGYARORSZÁ
HU02	KÖZÉP-DUNÁNTÚL
HU03	NYUGAT- DUNÁNTÚL
HU04	DÉL- DUNÁNTÚL

HU05	ÉSZAK-MAGYARORSZÁG
HU06	ÉSZAK-ALFÖLD
HU07	DÉL-ALFÖLD

MT MALTA

PL POLSKA

PL01	DOLNOŚLASKIE
PL02	KUJAWASKO-POMORSKIE
PL03	LUBELSKIE
PL04	LUBUSKIE
PL05	ŁÓDZKIE
PL06	MAŁOPOLSKIE
PL07	MAZOWIECKIE
PL08	OPOLSKIE

PL09	PODKARPACKIE
PL0A	PODLASKIE
PL0B	POMORSKIE
PL0C	ŚLASKIE
PL0D	ŚWIETOKRZYSKIE
PL0E	WARMIŃSKO-MAZURSKIE
PL0F	WIELKOPOLSKIE
PL0G	ZACHODNIOPOMORSKIE

SI SLOVENIJA

5N	SLOVENSKA REPUBLIKA
SK01	BRATISLAVSKÝ KRAJ
SK21	TRNAVSKÝ KRAJ
SK22	TRENČIANSKY KRAJ
SK23	NITRIANSKY KRAJ

SK31	ŽILINSKÝ KRAJ
SK32	BANSKOBYSTRICKÝ KRAJ
SK41	PREŠOVSKÝ KRAJ
SK42	KOŠICKÝ KRAJ

Annex 2 : Financial Identification

See separate annex.