



Latin american Alliance for Capacity building in Advanced physics





2. Visual identity – requirements

LOGO

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Erasmus+ Programme
of the European Union



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- Experimental HEP was largely absent from the Latin-american landscape until end- XXth century
- A series of initiatives, including EU-LA collaboration were key to change that situation
 - the Pierre Auger Observatory in Argentina
 - the HELEN and EPLANET programs allowed several LA institutes join LHC experiments
 - several bi-national and multinational projects
 - IN2P3 (in particular LPNHE) has been an active player (and beneficiary) in most of these
- HEP in “The big four” (Argentina, Brasil, Chile, México) is now reasonably well established
 - research groups at large universities, led by well-qualified staff
 - new generations of students are mostly trained locally
- A more diverse situation for the “medium-sized” countries :
 - some institutes are participating in large experiments, or are interested in
 - significant/increasing number of young students strongly motivated by fundamental science
 - valuable potential affected by fragmentation, sub-critical resources and other issues
- To address these needs, and build upon our networks and experience : comes LA-CoNGA-physics !

- It is an ERASMUS+ project : “Capacity Building in the field of Higher Education”
- Goal : modernize the educational infrastructure in 8 emerging universities from 4 countries
 - Colombia, Ecuador, Perú, Venezuela
- Proof-of-concept : implement a common, cross-institutional Master in High Energy Physics
 - e-learning platform based on open-access tools and contents
 - interconnected instrumentation laboratories
 - problem-solving-oriented syllabus, structured in mini-modules
 - internships in research centers and industrial partners (both in LA and EU)
 - e-learning platform to be reused for other courses and diplomas
- Why HEP ?
 - addresses key questions about the Universe, its constituents and the interactions at play
 - involves large experimental facilities and state-of-the art instruments
 - source of large-impact technology transfer : medecine, big data, electronics, etc...
 - has decades-long experience in building large international communities
 - that's what we do !



- **Programme partners :**
 - Université de Paris (UdP) (Coordinator)
 - Université Paul Sabatier Toulouse (UPS)
 - Technische Universität Dresden (TUD)
- **Target partners :**
 - Colombia : Universidad Industrial de Santander (UIS), Universidad Antonio Nariño (UAN)
 - Ecuador : Universidad Yachay Tech, Universidad San Francisco de Quito (USFQ)
 - Perú : Universidad Nacional de Ingeniería (UNI), Universidad Nacional San Marcos (UNMSM)
 - Venezuela: Universidad Simón Bolívar (USB), Universidad Central de Venezuela (UCV)
- **Affiliated partner : Centre National de Recherche Scientifique (CNRS)**
- **Associated members :**
 - CERN, DESY, ICTP, IRFU
 - New York Academy of Sciences (NYAS), Colombian Association for the Advancement of Science (ACAC), RedCLARA- Latin American Advanced Networks Cooperation, CEVALE2VE, FrontierX Analytics Medellín, DBAccess Perú, CAEN



LA-CoNGA-Physics : a proposal on 120+57 pages

LA-CoNGA-Physics.pdf (page 1 of 120)

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LA-CoNGA-Physics.pdf

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1 2 3 4 5 6 7 8 18 19 20 21 22 23 24 25 35 36 37 38 39 40 41 42 52 53 54 55 56 57 58 59 69 70 71 72 73 74 75 76 86 87 88 89 90 91 92 93 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119

Our proposal was approved *at first attempt!*

https://eacea.ec.europa.eu/erasmus-plus/selection-results/capacity-building-in-field-higher-education-2019_en

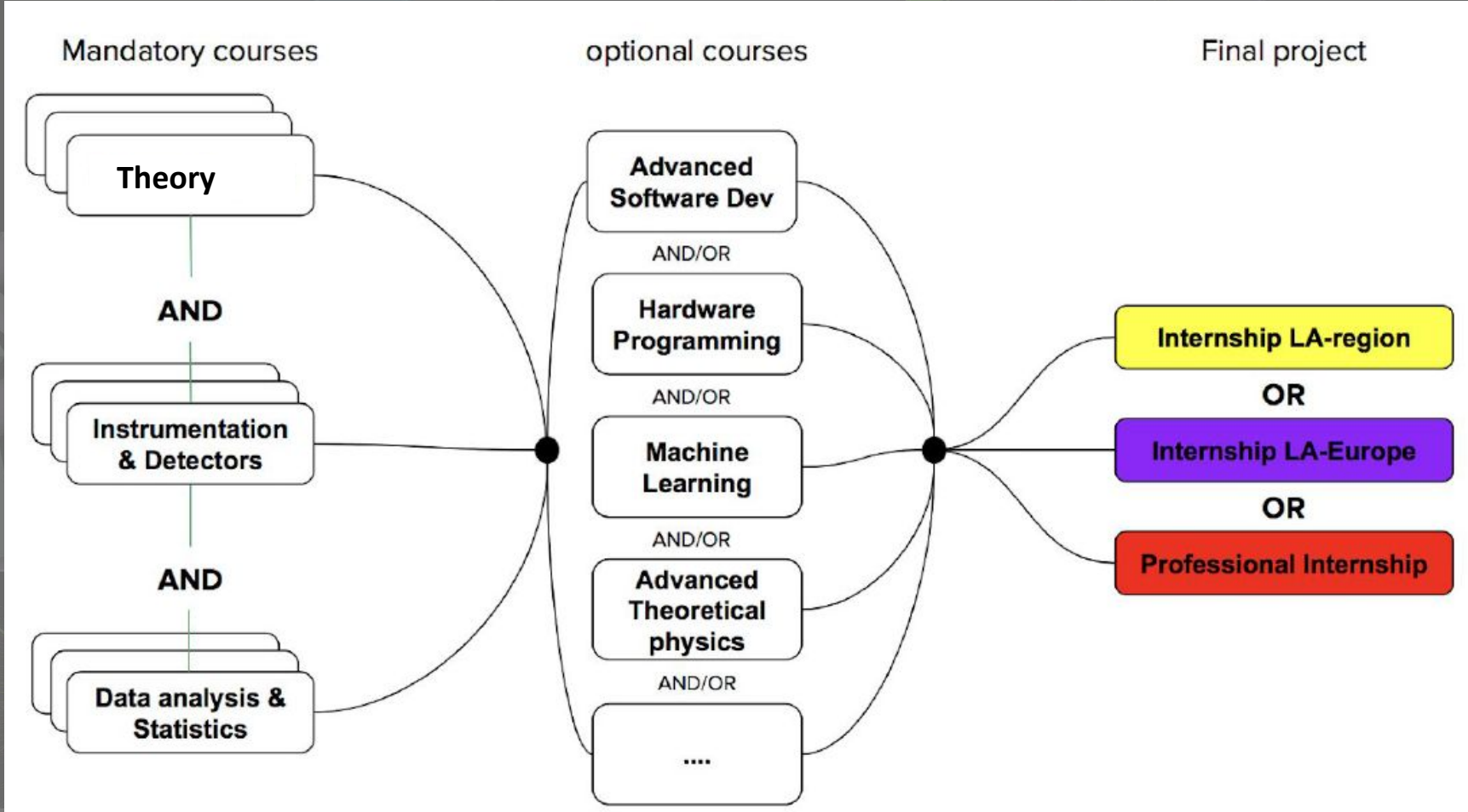
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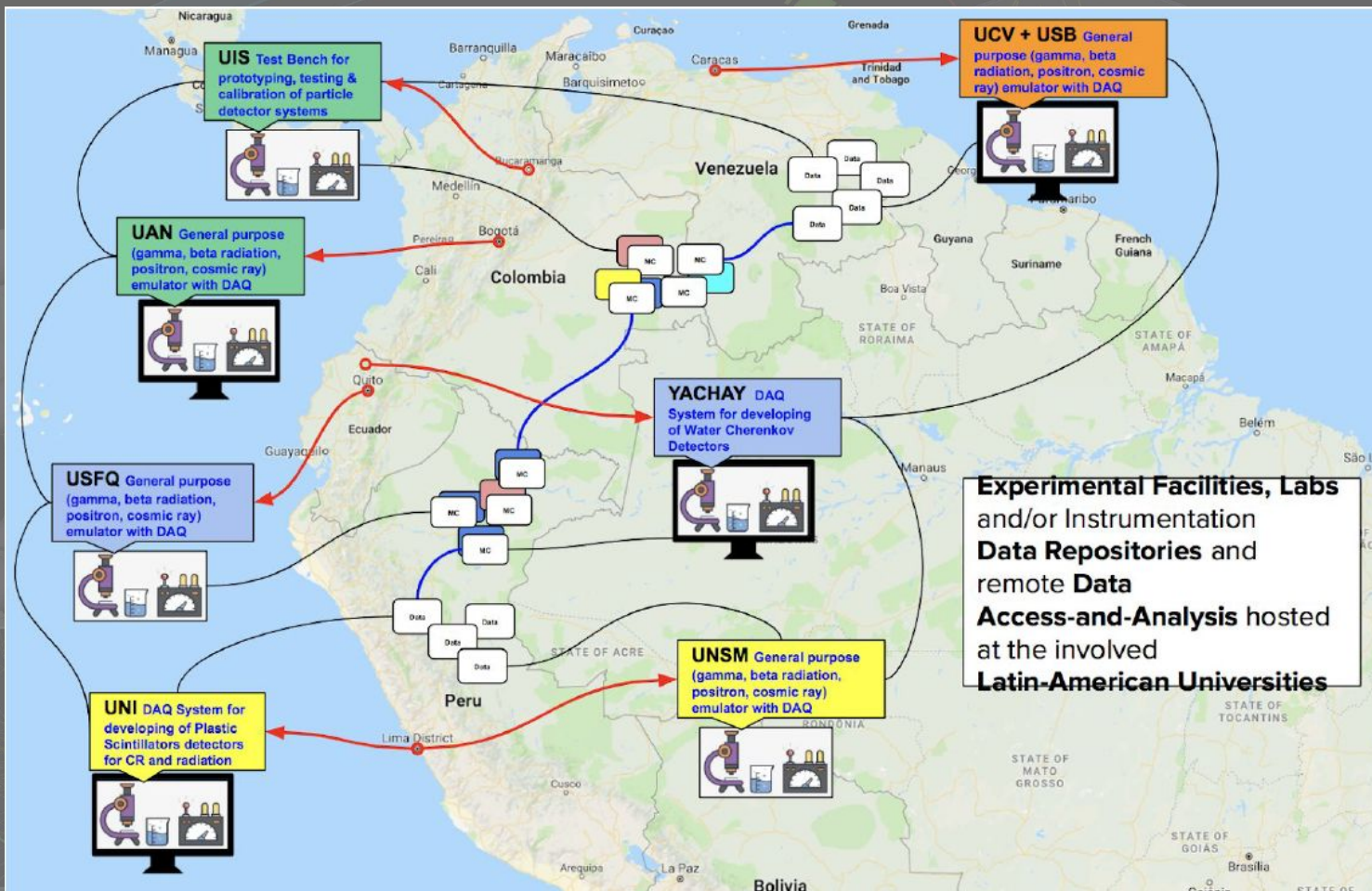
EACEA

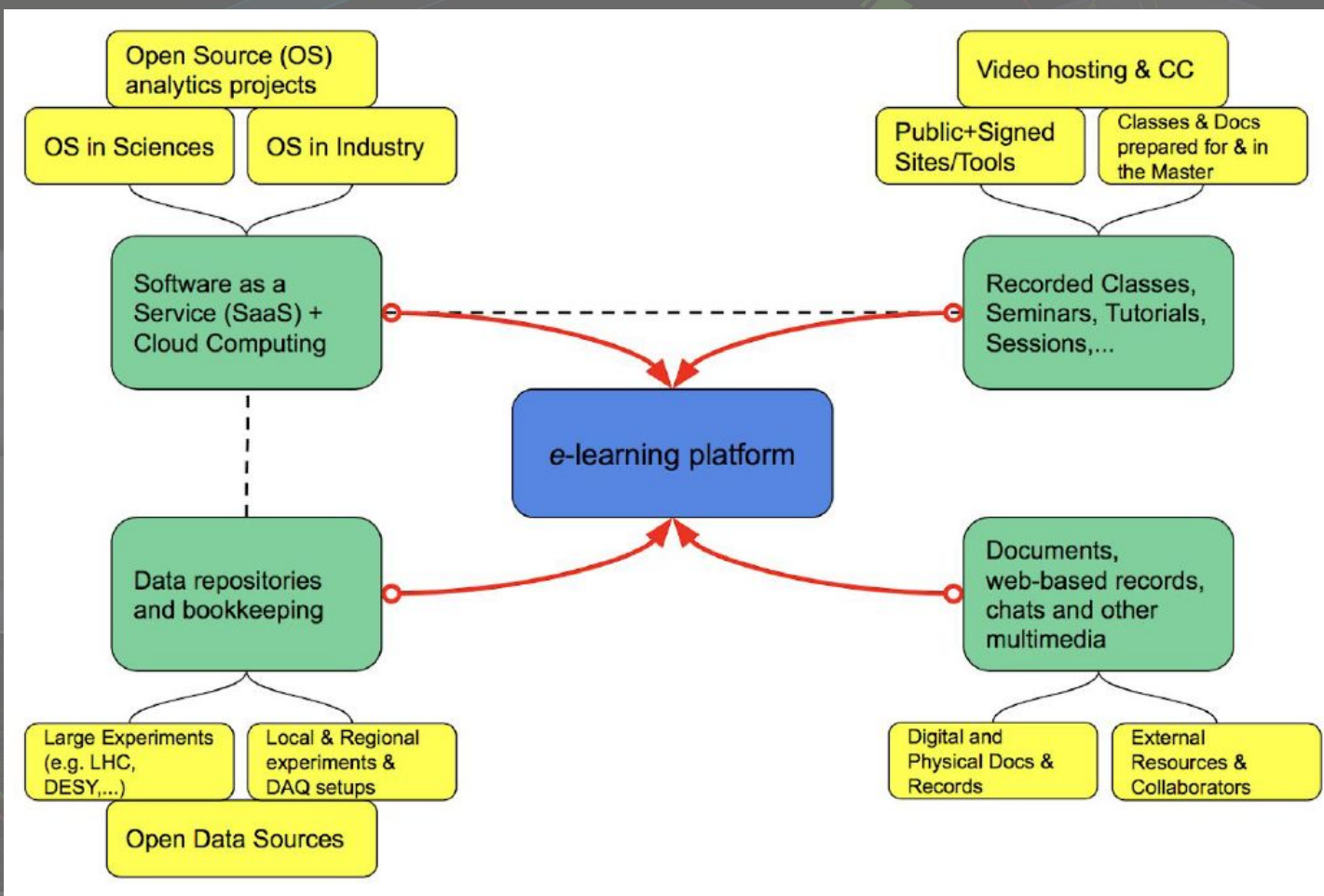
Education, Audiovisual and Culture Executive Agency

European Commission > EACEA > Erasmus+ > Selection results > Capacity Building in the field of Higher Education 2019

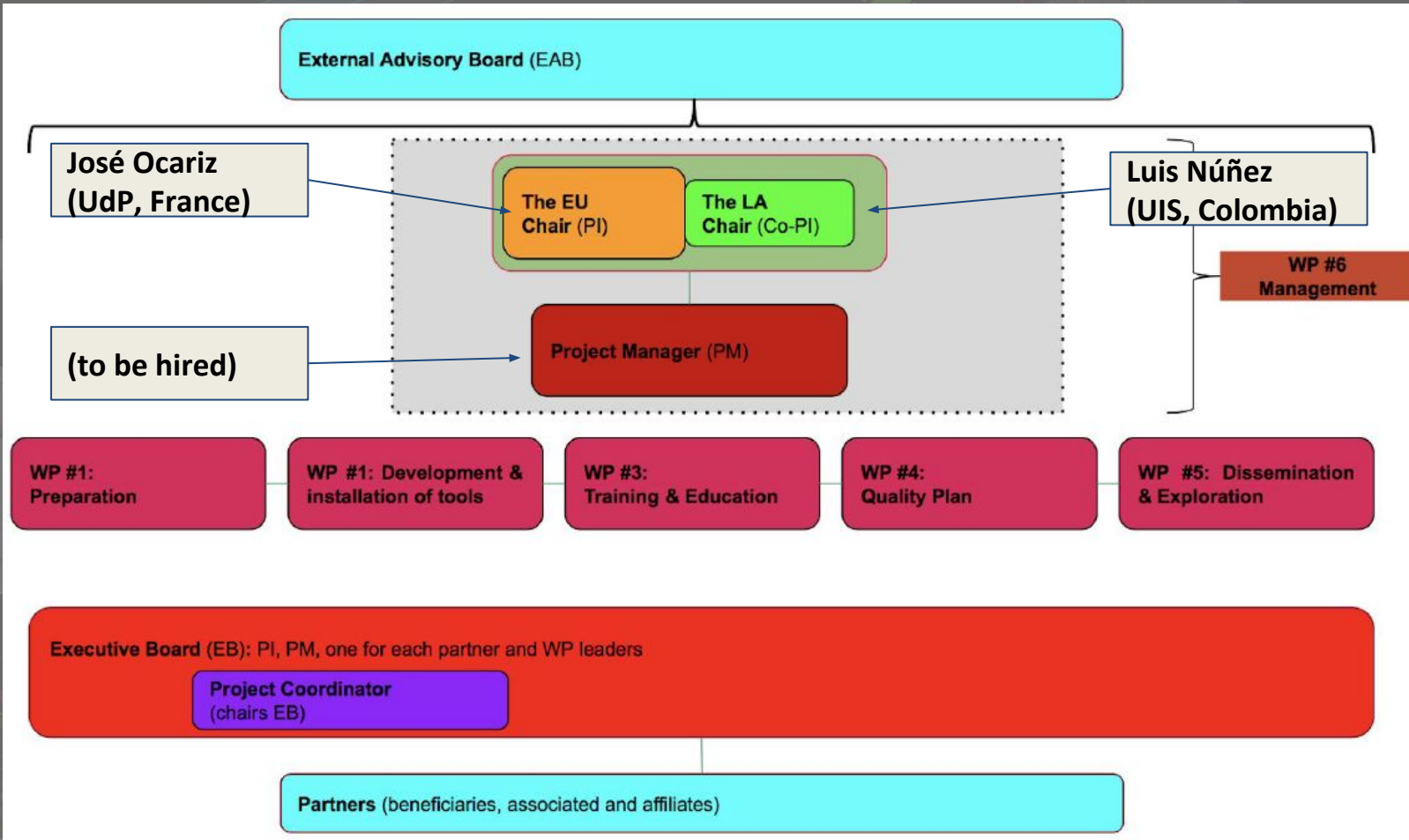
Erasmus+ Capacity Building in Higher Education Call EAC/A03/2018 - Selection Year 2019							
137	609785-EPP-1-2019-1-ES-EPPKA2-CBHE-JP	Spain	UNIVERSIDAD DE ALCALA	Asistencia tecnológica a la accesibilidad en la Educación Superior Virtual	R8	MX (2), EC (2)	947,996.00
138	609940-EPP-1-2019-1-CO-EPPKA2-CBHE-JP	Colombia	UNIVERSIDAD DE LA SABANA	STRENGTHENING RESEARCH AND INNOVATION IN YOUNG UNIVERSITIES FOR REGIONAL DEVELOPMENT IN LATIN AMERICA	R8	PE (2), MX (2), CO (3), AR (2)	944,190.00
139	609979-EPP-1-2019-1-ES-EPPKA2-CBHE-JP	Spain	UNIVERSIDAD DE MURCIA	PRO HUMAN BIOLAW - BIOLAW AS GLOBAL TOOL FRO HUMAN RIGHTS PROTECTION	R8	MX (2), CR (2)	999,489.00
140	609676-EPP-1-2019-1-PE-EPPKA2-CBHE-JP	Peru	PONTIFICIA UNIVERSIDAD CATOLICA DEL PERU	Strengthening Criminology teaching through Cooperation among European and South-american universities	R8	PE (3), CO (2), BR (2)	999,760.00
141	610032-EPP-1-2019-1-CO-EPPKA2-CBHE-JP	Colombia	UNIVERSIDAD DE CALDAS	Strengthening applied research and innovation capacities in Latin-America through co-creation labs for mitigation and adaptation to Climate Change	R8	MX (3), CO (5), BR (3)	956,366.67
142	610165-EPP-1-2019-1-NL-EPPKA2-CBHE-JP	Netherlands	RIJKSUNIVERSITEIT GRONINGEN	Aprendizaje Centrado en el Estudiante en América del Sur	R8	PY (3), PE (2), CO (3), BR (3), BO (2), AR (3)	996,450.00
143	610302-EPP-1-2019-1-UK-EPPKA2-CBHE-JP	United Kingdom	COVENTRY UNIVERSITY	Enabling sTudEnts with NeuroDiversity	R8	MX (2), AR (3)	683,213.00
144	610456-EPP-1-2019-1-FR-EPPKA2-CBHE-JP	France	UNIVERSITE PARIS DIDEROT - PARIS 7	Latin-american Alliance for Capacity building in Advanced physics	R8	VE (2), PE (2), EC (2), CO (2)	899,595.00



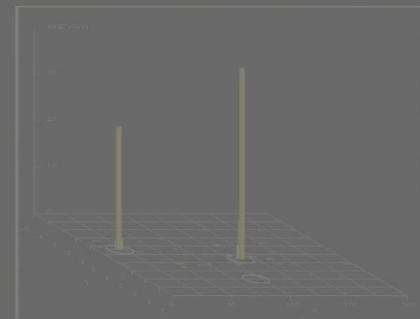




LA-CoNGA-Physics : management structure



- **35% Stay Costs** : stipendia for student internships
 - LA-region : in another Target Institution from another country
 - LA-Europe : in EU University labs or EU Associated partner (CERN, DESY, ICTP, IRFU)
 - Professional : in one of the regional Associated partner (FrontierX, DBaccess, RedCLARA...)
- **30% Staff Costs** :
 - Project Manager, to be based in Paris, with frequent travels within Europe and LA
 - Programmers for the e-learning platform, technicians for the laboratories
 - to be based in the Target Institutions
 - work time of teachers, contributors, internship advisors
- **20% Equipment Costs** :
 - include acquisition and shipment,
 - commissioning and operation costs to be shared with Target partners
- **15% Travel Costs** :
 - consortium meetings, travels of teachers, etc...
- **Note** : ERASMUS+ budgeting does not include overheads!
 - Target partners are requested to reallocate Staff Costs into the program



Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D6.1	KoM and signed CA	1	X											
D6.2	PM nomination	1	X											
D6.3	Institution of risk registry	4	X											
D5.4	setup LA-CoNGA Physics website and social media	4	X											
T1.1	explorative open and closed surveys at each HEI	14	X	X	X	X								
T1.2	investigation of existing tools in the Colaboratorio	15	X	X	X	X								
D1.1	Report of curricula, methodologies and equipment	2				X								
D5.1	Communication and Dissemination Plan	8			X	X								
T2.1	Setup of the e-learning platform	18					X	X	X	X	X			
T2.2	Installation of each HEI instrumentation platforms	20					X	X	X	X	X			
T2.3	Interconnexion of HEI platforms	8								X	X			
T2.4	Installation of IT kits	10					X	X	X					
D2.1	e-learning platform active	2									X			
D2.2	Instrumentation platforms active	2									X			
D2.3	Training guides	4										X		
D3.1	Technical training course for staff+technical groups	8											X	X
T3.2	Curricula for the HEP master and evaluation by EAC	20					X	X	X	X	X	X		
D4.2	EQA: evaluation of the curricula	2											X	
	EB meetings. To will be held every 2 months	1			X				X		X			X
D4.1	IGA: surveys, reports every 6 months during EB	4					X	X					X	X
D4.2	EQA: evaluation of the management and first AGM	1												X
D5.3	Data Management and Protection Plan	4										X		
T5.3	Internal and external dissemination through outreach	48					X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

- Specially for the first year
 - preparation of all courses and mini-courses
 - acquisition/shipping of instrumental material
 - installation of experimental laboratories
- Officially, the program starts on January 2020
 - in practise, activities are ramping up
 - regular (bi-weekly) Consortium Meetings
 - first task forces already at work :
 - curriculum & instrumentation
 - Official kick-off meeting : end March 2020.

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D3.2	1st edition of the HEP master/specialization courses for LA-CoNGA Physics	20	X	X	X	X	X	X	X					
T3.3	Data challenges	2				X			X					
D5.5	Citizen science projects	2			X									
D3.3	Mobility scheme/internships for students	16							X	X	X	X	x	
D3.4	Network school	1										X		
D3.5	Master degree award	1											X	
T3.5	Update regularly the e-learning platform with the teaching/training material	40	X	X	X	X	X	X	X	X	X	X	X	
D4.2	External Quality assurance: evaluation by the EAC first course and mobility scheme	2											X	
D3.1	Technical training course for staff and technical groups	8											X	X
	Consortium meetings. The plenary AGM in this year will be held a few days before the NS	2	X		X		X		X		X			
D4.1	Internal Quality Assurance: surveys, reports every 6 months	4					X	X					X	X
D4.2	External Quality assurance: evaluation of the management presented at the plenary AGM	1											X	
D5.5	Internal and external dissemination of results through different outreach activities	48	X	X	X	X	X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D3.2	1st edition of the HEP master/specialization courses for LA-CoNGA Physics	20	X	X	X	X	X	X	X					
T3.3	Data challenges	2				X			X					
D5.5	Citizen science projects	2			X									
D3.3	Mobility scheme/internships for students	16							X	X	X	X	X	
D3.4	Network school	1										X		
D3.5	Master degree award	1											X	
T3.5	Update regularly the e-learning platform with the teaching/training material	40	X	X	X	X	X	X	X	X	X	X	X	
D4.2	External Quality assurance: evaluation by the EAC first course and mobility scheme	2										X		
	EB meetings. The plenary AGM in this year will be held in M36, this will be the final consortium meeting	2	X		X		X		X		X			X
D4.1	Internal Quality assurance: surveys, reports every 6 months during EB meetings	4					X	X					X	X
D4.2	External Quality assurance: evaluation of the management presented at each AGM	1												X
D5.2	Sustainability Plan	6											X	X
D5.5	Internal and external dissemination of results through different outreach activities	48	X	X	X	X	X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

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D6.2	PM nomination	1	X											
D6.3	Institution of risk registry	4	X											
D5.4	setup LA-CoNGA Physics website and social media	4	X											
T1.1	explorative open and closed surveys at each HEI	14	X	X	X	X								
T1.2	investigation of existing tools in the Colaboratorio	15	X	X	X	X								
D1.1	Report of curricula, methodologies and equipment	2				X								
D5.1	Communication and Dissemination Plan	8			X	X								
T2.1	Setup of the e-learning platform	18					X	X	X	X	X			
T2.2	Installation of each HEI instrumentation platforms	20					X	X	X	X	X			
T2.3	Interconnexion of HEI platforms	8								X	X			
T2.4	Installation of IT kits	10					X	X	X					
D2.1	e-learning platform active	2									X			
D2.2	Instrumentation platforms active	2									X			
D2.3	Training guides	4										X		
D3.1	Technical training course for staff+technical groups	8											X	X
T3.2	Curricula for the HEP master and evaluation by EAC	20					X	X	X	X	X	X		
D4.2	EQA: evaluation of the curricula	2											X	
	EB meetings. To will be held every 2 months	1			X				X		X			X
D4.1	IGA: surveys, reports every 6 months during EB	4					X	X					X	X
D4.2	EQA: evaluation of the management and first AGM	1												X
D5.3	Data Management and Protection Plan	4										X		
T5.3	Internal and external dissemination through outreach	48					X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

- Year 2 : first Master season
 - first internships start in July 2021
- Year 3 : second edition
 - implementing lessons learned from 1st season
- We expect ~5 students per Institute per year
- Following years :
 - continuation of the HEP Master
 - new Master diplomas start using the LA-CoNGA e-learning platform and model

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D3.2	1st edition of the HEP master/specialization courses for LA-CoNGA Physics	20	X	X	X	X	X	X	X					
T3.3	Data challenges	2				X			X					
D5.5	Citizen science projects	2			X									
D3.3	Mobility scheme/internships for students	16							X	X	X	X	x	
D3.4	Network school	1										X		
D3.5	Master degree award	1											X	
T3.5	Update regularly the e-learning platform with the teaching/training material	40	X	X	X	X	X	X	X	X	X	X	X	
D4.2	External Quality assurance: evaluation by the EAC first course and mobility scheme	2											X	
D3.1	Technical training course for staff and technical groups	8											X	X
	Consortium meetings. The plenary AGM in this year will be held a few days before the NS	2	X		X		X		X		X			
D4.1	Internal Quality Assurance: surveys, reports every 6 months	4					X	X					X	X
D4.2	External Quality assurance: evaluation of the management presented at the plenary AGM	1											X	
D5.5	Internal and external dissemination of results through different outreach activities	48	X	X	X	X	X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

Activities		Total duration (number of weeks)	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref.nr/ Sub-ref nr	Title													
D3.2	1st edition of the HEP master/specialization courses for LA-CoNGA Physics	20	X	X	X	X	X	X	X					
T3.3	Data challenges	2				X			X					
D5.5	Citizen science projects	2			X									
D3.3	Mobility scheme/internships for students	16							X	X	X	X	X	X
D3.4	Network school	1										X		
D3.5	Master degree award	1											X	
T3.5	Update regularly the e-learning platform with the teaching/training material	40	X	X	X	X	X	X	X	X	X	X	X	X
D4.2	External Quality assurance: evaluation by the EAC first course and mobility scheme	2										X		
	EB meetings. The plenary AGM in this year will be held in M36, this will be the final consortium meeting	2	X		X		X		X		X			X
D4.1	Internal Quality assurance: surveys, reports every 6 months during EB meetings	4					X	X					X	X
D4.2	External Quality assurance: evaluation of the management presented at each AGM	1												X
D5.2	Sustainability Plan	6											X	X
D5.5	Internal and external dissemination of results through different outreach activities	48	X	X	X	X	X	X	X	X	X	X	X	X
T5.10	Active gender equality promotion and monitoring	48	X	X	X	X	X	X	X	X	X	X	X	X

- Overall, the evaluation was very positive, with a limited number of remarks
- Strengths :
 - we are building upon a long-established network of colleagues and activities
 - for example CEVALE2 and PWF, led by Reina
- we have strong support from large research institutes : CERN, DESY, ICTP, IRFU, CNRS
 - technical staff in Target Institutes will be largely involved
- Weaknesses :
 - the core work relies on a relatively small team
 - but this is also a strength, as we know each other and have long worked together
 - long-term sustainability is a difficult challenge
 - Stress-test : implementation of the LA-CoNGA model by other Masters
- Opportunities :
 - potentially new affiliated partners are expressing interest in joining the programme
 - IT and biotech companies in LA, possibly others
- Threats : one of our Target countries is ongoing significant large-scale instability at this time
 - we aim at mitigating this by merging the activities of its two partners



- The Project Manager hiring is ongoing
 - we received ~30 applications, short-listed 8
 - Interviews on February 10 and 11, hope to decide shortly afterwards
- The EU funding will be installed at Université de Paris
 - in the current view, our program should be managed at UFR de Physique
 - but UFR has been without RA for months!
 - moreover, there is only one working gestionnaire
- There are many issues to be solved... some examples
 - ours seems to be the 1st CBHE project managed here
 - the equipment property must be to the Target partners
 - ideally we would have preferred to make large purchases+shipping
 - office space for the Project Manager
 - will need to share his/her time between BRI, UFR and LPNHE

- Our website is hosted by RedCLARA, our associated partner

<http://laconga.redclara.net/>

- Currently being filled with relevant information!
- Following EU directives, we are setting up social media accounts

- Twitter

<https://twitter.com/lacongaphysics>

- Facebook

<https://facebook.com/lacongaphysics>

- Instagram

<https://instagram.com/lacongaphysics>

- Follow us, comment, RT, like, and most importantly : give us feedback !