Erasmus+ Programme
Capacity-Building projects in the field of Higher Education (E+CBHE)

Official request for a one-year extension

610456-EPP-1-2019-1-FR-EPPKA2-CBHE-JP LA-CoNGA physics

Latin American alliance for Capacity buildiNG in Advanced physics (LA-CoNGA physics)

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1. Introduction

The primary objective of the Latin-American Alliance for Capacity buildiNG in Advanced physics (LA-CoNGA physics) is to modernize the educational platform, using advanced physics as a model, in eight Latin-American higher education institutions (HEI) from Colombia, Ecuador, Peru, Venezuela.

During the 2020-2021 period, the main challenge faced by the LA-CoNGA physics project was to adapt its development and functioning to the sanitary context. An updated calendar had to be implemented, as various main procedures were severely delayed or impossible to achieve due to restrictions.

For example, it was only in January 2022 that the main laboratory equipment arrived to our HEI partners (the exception being our Venezuelan partners, for which the customs and procedures for tax exemption are still ongoing). The installation and operation activities, initially planned to occur in 2021, are now finally being finalized.

This said, while LA-CoNGA physics has nonetheless achieved a significant regional visibility and a noticeable academic impact, despite the challenges posed by the pandemics, the effective implementation of several crucial developments exhibe an overall one-year delay with respect to the original planning, and it is only in 2022 that all activities and courses are benefitting from on-site access to the local campus and to the interconnected laboratories. To this extent, **2022 is the actual pilot year** of the project.

For the project to successfully complete the initially planned activities and hence, to effectively attain its primary goals, we propose a new, extended work plan, requesting a one-year extension of the project until January 15th, 2024, that is both aligned with the objectives stated in the initial proposal, and in agreement with the budgetary rules for CBHE projects. ***No additional budget is being requested***, as the funding for the proposed activities for 2023 are completely covered by a restructuration of unused mobility costs in 2020 and 2021.

The foreseen activities during this one-year extension are key to the longer-term sustainability of the LA-CoNGA physics proposal: bilateral and multilateral partnership

agreements, completing the training of local staff for the operation and maintenance of the instrumentation laboratories, searching for additional financial and institutional support.

This document provides a summarized description of the original outputs and outcomes (Section 2), a succinct status report covering activities until June 2022 (Section 3), the proposed plan of activities for 2023 (Section 4) and the detailed budgetary proposal for the one-year extension being requested (Section 5).

2. Original LA-CoNGA physics 2022 workplan: **Outputs (tangible) / Outcomes (intangible)**

WP1: Preparation

- Developed and finalized throughout 2020 as initially planned. Fully presented during the project Technical report submitted in 2021.

WP2: Development and installation of tools

- e-learning platform
- Connected instrumentation laboratories
- Training guide for teaching and technical staff

WP3: Training and education

- Training sessions for teachers and technical staff
- HEP Master/ specialization courses
- Mobility scheme for students (internships)
- Network School

WP4: Quality Plan

- Internal Quality Assurance
- External Quality Assurance

WP5: Dissemination and Exploitation

- Communication and sustainability
- Citizen science projects and outreach activities

WP6: Management

- Institutional bilateral agreements
- Financial and general status

3. LA-CoNGA physics **2022: Updated workplan**

Activities	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M7**	**M8**	**M9**	**M10**	**M11**	**M12**
WP2 Development and installation of tools												
Installation of laboratory equipment	X	X	X	X	X	X	X					
Lab equipment operational	X	X	X	X	X	X						
Interconnected laboratories	X	X	X	X	X	X	X	X	X	X	X	X
Lab equipment maintenance	X	X	X	X	X	X	X	X	X	X	X	X
e-learning platform update	X	X	X	X	X	X	X	X	X	X	X	X
WP3 Training and education												
Second cohort course	X	X	X	X	X	X	X	X	X	X	X	
Student internships								X	X	X		
Participation of industrial partners								X	X	X		
LA-CoNGA physics seminars	X	X	X	X	X	X	X	X	X	X	X	X
LA-CoNGA physics Network School									X	X	X	X
WP4 Quality												
Office hours / student mentorships	X	X	X	X	X	X	X	X	X	X	X	
Course evaluation						X						
Quality Plan								X	X	X	X	X
WP5 Dissemination and Exploitation												
2022 communication strategy	X	X	X	X	X	X	X	X	X	X	X	X
LA-CoNGA physics Hackathon	X	X	X	X	X	X						
Citizen Science Projects			X	X	X	X						
WP6 Coordination												
HEI bilateral partnerships			X	X	X	X	X	X	X	X	X	X
Communication with EAB				X					X			X
Partner installments						X	X		X	X		

3.1 Detailed description of 2022 activities

WP1: Preparation

According to the original planning, activities related to the Working Package 1 were scheduled to be completed by the end 2020. The pandemic situation translated into various delays in their foreseen implementation during 2020, but these delays have been compensated all along 2021. All activities related to WP1 are now finalized.

WP2: Development and installation of tools

- Installation of laboratory equipment

As initially planned and agreed, each HEI partner provided a suitable physical space inside their campus to install the LA-CoNGA physics equipment. The purchase and installation has proceeded in various steps during 2021 and 2022.

The first significant purchase of specialized material was made during the fall and winter of 2021. Three National Instruments Educational Laboratory Virtual Instrumentation Suite kits (NI ELVIS)[1] were installed at UIS, UAN and UNI respectively. The choice of NI ELVIS kits was done in view of their adequation with a large palette of LA-CoNGA physics laboratory activities: these kits are composed of protoboards for electronic circuits, oscilloscopes, function generators, power supplies, and are remotely controllable via a wireless connection. Due to legal restrictions in Ecuador concerning wifi emitters, the NI ELVIS had to be replaced with a set of instruments from KEYSIGHT, that offer similar performances while complying with the Ecuador regulations. Two KEYSIGHT kits were purchased from a local provider in Ecuador, and are now installed at USFQ and Yachay Tech. For Venezuela, our local interlocutors are in the process of securing the shipping and custom procedures with the national ministry of science, and we expect the shipping and installation to be performed in the following months.

[1] The National Instruments ELVIS suite: https://www.ni.com/pdf/product-flyers/ni-elvis.pdf

The second large purchase of specialized material concerns the CAEN educational kits in Nuclear Physics[2]. The CAEN kits were chosen in view of their adequation with the needs for the experiments and practices in the high-energy physics courses, and CAEN has been an industrial partner of the project since the beginning. The shipping to our LA-CoNGA physics South American partners occurred from January to March 2022, after tender public procedures and international logistics coordinated by Université Paris Cité. It is important to mention that each recipient university has coordinated their own payment of customs and internal logistics. By april 2022, six out of our eight South American Partners had received the equipment, namely UIS and UAN in Colombia, USFQ and Yachay Tech in Ecuador, and UNI and UNMSM in Peru. Concerning the two Venezuelan partners, the procedures for tax exemption of educational and research products are still in process.

The third large purchase of dedicated instrumentation material concerns a set of air-quality monitor sensors, developed by the Colombian MakeSens startup[3]. The purchase and shipping of this material, intended to be used in the Citizen Science projects, took place from March to May 2022, and is now available in all eight partners: UIS and UAN in Colombia, USFQ and Yachay Tech in Ecuador, UNI and UNMSM in Peru, UCV and USB in Venezuela.

Finally, a new contact has been established with the Spanish technological start-up e-pisteme, that is producing for LA-CoNGA physics a custom-tailored, dedicated educational laboratory equipment to complete the implementation of the interconnected labs[4]. The purchase and shipping procedures are currently taking place, and are expected to be finalized by July 2022.

It is important to mention that these two last purchases (MakeSens and e-pisteme) have led to new cooperations with one Colombian and one Spanish technological Start-ups, in compliance with the goal of creating an international academic network through digital innovation. Both MakeSens and e-pisteme have joined the list of industrial partners and allies of the project. It is also relevant to mention the strong interest stated by CAEN in the interconnection of the Nuclear Physics kits, currently in development within the project;

[2] The CAEN educational kits specialized in nuclear physics: https://www.caen.it/subfamilies/educational-kits/
[3] The Monitorea kits produced by the Colombian start-up MakeSens: https://makesens.co/monitorea
[4] The e-pisteme startup web page: https://e-pisteme.tech/

discussions with CAEN are ongoing, to assess the feasibility of a collaboration with CAEN on this topic.

- Commissioning and operation of laboratory equipment

For this activity, additional technical and academic staff from each partner in Colombia, Ecuador and Peru have joined the project, as the installation and commissioning of the equipment required an important person power involvement to achieve a complete operational status.

The main phase of installation and operation of the laboratory equipment started in January 2022, and has achieved steady progress by now. The interactions among the technical staff from different partners are strong and frequent, and the sharing of experiences is ensuring a proper dissemination of the required know-how for operation of the interconnected laboratories installation, thus reproducing within the LA-CoNGA physics community the efficient working practices of an international collaborative experience.

- Interconnected laboratories

As already mentioned in the previous items, the same technical staff from UIS, UAN, USFQ, UNI, UNMSM involved in the installation and commissioning is actively working on the activities related to the interconnection of equipment and data.

- Laboratory equipment maintenance

On top of the standard routine maintenance activities, specific technical training sessions are being implemented with CAEN, MakeSens and e-pisteme, as these three industrial partners have stated a very strong interest in the deployment of the interconnection among the LA-CoNGA physics laboratories.

- e- learning platform[5]

One of the most important deliverables of the LA-CoNGA physics project is the creation of its e-learning platform, MiLAB.

[5] Schematic graphical description of the LACoNGA e-learning platform http://milab.redclara.net

This tool has been in active development since 2020, and has been regularly updated through the sanitary crisis. By 2021, with the beginning of the first courses, the platform was able to offer an operational and functioning tool to its first cohort. For 2022, the e-learning platform will remain in continuous development, as important technical, academic and student feedback has been crucial to improve its functionality.

The MiLAB platform ensures a high-efficient access to the academic material developed for the LA-CoNGA physics courses: lecture notes, video recordings, analysis notebooks, datasets, and so on. This content is permanently updated, and its access via the platform is ensured either in real time or with a very short time delay.

WP3 Training and education

- Second cohort: University year 2022

The second LA-CoNGA physics cohort started its courses on January 24th 2022, for a year-long program with a participation of 70 registered students. This new cohort now includes students from LA-CoNGA physics institutions that were not present in the 2021 first cohort, in particular, students from the two Ecuadorian partners. As an indication of the interest of the regional scientific community in our activities, it is relevant to mention that various students from institutions not belonging to the consortium (i.e. from Venezuela, Ecuador, Honduras) are also following some of the open-access courses offered by the program.

Concerning the curriculum, the 2022 version of the LA-CoNGA physics courses reflects on the one side the lessons learned from the fully-remote 2021 courses, and on the other side is the first year in which the LA-CoNGA physics students have access to their local campuses and to the instrumental laboratories. To this extent, **2022 is the actual pilot year of the project,** the one-year delay with respect to the original planning is a reflection of the pandemic situation in 2020-2021 and the impact it posed on the development of the project.

- Student internships

The program offers a three-month internship to LA-CoNGA physics students completing the full program, be it in one of our academic or industrial partners, either in Latin America or in Europe. In contrast to the students from the first 2021 cohort, which had to perform their internship activities remotely, the improvement in sanitary regulations will hopefully allow the 2022 students to benefit from the financial support for internship mobilities offered by the project.

The LA-CoNGA physics management accompanies the students, together with their individual mentors and their home country interlocutors, in their process of selection of topics and host institutions.

For the evaluation, each student doing an internship is committed to produce a written report, and an oral presentation to be presented during the 2022 Network School.

- Participation of Industrial Partners

The participation of Industrial Partners is vital to the durability of LA-CoNGA physics. Therefore, the project aims to increase this cooperation network by allowing students to follow various courses with these partners as well as internships. For the latter, discussions are in progress, both with the students interested in Data Science and with our FrontierX and DBaccess partners.

- LA-CoNGA physics seminars[6]

The LA-CoNGA physics seminars is a transversal open activity that was established in 2021 to disseminate and build a stronger community around the project. Current topics about physics and general science are presented by a gender-balanced panel of experts from the academical and industrial field.

Seminars are presented every two mondays. During 2021 the organization duties were shared between our UAN and UIS local coordinators, and since early 2022 the activity is now

[6] The LA-CoNGA physics seminars youtube channel : https://www.youtube.com/playlist?list=PLGC_ZB9twAHvmGjnKfrZXHfEQntXZZ2x2

organized by our local coordinator from USFQ. For each seminar, the LA-CoNGA physics communication team provides supporting dissemination material (posters, flyers, posts on social networks) needed to announce the speakers and topics.

During the half-hour prior to the seminar, an open discussion space allows the LA-CoNGA physics students, teachers and coordinators to discuss topics related to the project activities, and to announce course-related notifications.

- Network School[7]

From December 6th to 8th 2021, the project organized its first major in-presence event, the LA-CoNGA physics Network School in Bucaramanga, Colombia. This event gathered consortium members and students around an specific agenda divided in :

- Student presentations of their Final Master project - 10 students
- Conferences and open exchanges around current topics in the field of Physics and science
- Participation of industrial and academic partners through conferences and virtual meetings (CERN, FrontierX analytics, Women in science)
- Annual consortium meeting (project sustainability, financial report, action items)

The next LA-CoNGA physics 2022 Network School is scheduled for December 2022 in Lima, Peru and will mainly follow the 2021 agenda.

WP4 Quality Plan

- Office hours / students mentorships

The LA-CoNGA physics academic offer includes a mentorship program and office hours aimed to its students, in order to create open discussion spaces:

1. Office hours: discuss any questions/doubts students may have during classes.
2. Mentorship program: a personal free exchange space between the student and a designated mentor (belonging to the pool of LA-CoNGA physics teachers), to

[7] 2021 Network School special newsletter :
https://laconga.redclara.net/bucaramanga-sede-de-encuentro-presencial-de-la-conga-physics/

discuss their vision of the program, academic requests/concerns, general course dynamics, and any other topic of concern/interest by the student or by the mentor.

For each course, office hours are proposed on a regular basis, be it in fixed hours or by appointments between students and teachers.

As for the mentorship program, 11 designated mentors support 85 students. Professional career matters remain the principal discussion.

- Project and course evaluation

For 2022, the internal quality plan will proceed in a similar basis as in 2021:

1. One general survey for the consortium members about the project evolution, perception, dynamics, areas of improvement. This survey is intended to be performed during the second semester.
2. One general survey for the students to be distributed at the end of the course period and before the beginning of the internships.

- LA-CoNGA physics general quality plan

In a similar basis as in 2021, a yearly report describing the activities related to the general quality plan will be produced during the second semester of 2022 and will be presented at the 2022 Network School and added to the Project Final Report.

WP5 Dissemination and Exploitation

- 2022 Communication strategic plan (outreach/website/social media/institutional contacts)

As a lesson learned from the activities undertaken during the 2020-2021 period, it became evident that the project required a professional communication team to lead and implement a solid and sustainable communication strategy through diverse platforms. Hence, a renewable one year contract was established from January 2021 to December 2022 with a Colombian communication consulting team. This communication team proposed a detailed communication strategy and plan that was reviewed and accepted by the consortium.

- Hackathon 2022[8]

The LA-CoNGA physics community together with its academic, industrial and communication partners organized a first Hackathon session in May 2022, covering a palette of topics related to open data and their link to education and their social impact and sustainability. This activity was co-financed by the Code for Science and Society[9] program.

- Citizen Science projects

The constraints posed be the pandemic situation did not allow the implementation of the citizen science projects that were foreseen for 2021:

1. Schools were closed
2. Equipment purchase was delayed

This effort has been rescheduled since September 2021, with the intention of deploying the main Citizen Science activities during 2022. Each of the eight local coordinators have contacted local High Schools interested in pursuing the LA-CoNGA physics Citizen Science projects[10].

As already mentioned previously, all eight South American universities have now received their equipment for the development of the project, and this equipment is currently being installed directly in the University facilities, so that students from several High Schools can visit the lab and perform the projects.

WP6 Management

- HEI Bilateral agreements, searches for additional funding and support

[8] LA-CoNGA physics official Hackathon 2022 website https://laconga.redclara.net/hackathon/
[9] The Code for Science and Society https://eventfund.codeforscience.org/
[10] The LA-CoNGA physics Citizen Science project development : https://view.genial.ly/6197a251bf82160da67cd56b/interactive-content-colegios-congueros

As part of the sustainability strategy from LA-CoNGA physics, the project also aims to implement bilateral agreements with Université Paris Cité and our two other European partner HEIs, to set up procedures for :

1. Student , Teacher and Staff mobility
2. Joint Doctoral theses

In April 2022 a first official presentation of three LA-CoNGA physics South American partners (UIS/UAN/USFQ) was made to Université Paris Cité to align and identify common assets to ensure a suitable partnership strategy. These official procedures are expected to be effective by 2023.

The project coordination is also leading discussions with various regional and international interlocutors, in order to establish possible sources of future financial and institutional support. These actions are key to the longer-term sustainability of the project.

- Communication with EAB

The LA-CoNGA physics consortium maintains a fluid communication with its Executive Advisory Board. The agreed schedule aims at two meetings per year, with a first one done in May 2022. A follow-up of the main activities of the project was presented, and led to interesting discussions and encouraging advice.

In particular, the case for a 1-year extension of the project, and a restructuring of the project budget, based on the reassignment of the unused 2020 and 2021 mobility funds, was discussed in detail, and received strong statements of support from the EAB members.

- Financial and general status/ partner Staff Cost / Stay costs installments

According to the planned calendar, we have:

- June 2022: Staff Costs installment starting from.
- Ending July: Stay Cost installment to cover student mobilities
- Stay Cost for the Network School 2022

4. **Proposed** LA-CoNGA physics **2023 workplan**

Activities	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M7**	**M8**	**M9**	**M10**	**M11**	**M12**
WP2 Development and installation of tools												
Interconnected laboratories	X	X	X	X	X	X	X	X	X	X	X	X
e-learning platform update	X	X	X	X	X	X	X	X	X	X	X	X
WP3 Training and education												
Staff training	X	X	X	X	X	X	X	X	X	X	X	X
Third cohort	X											
Students internships								X	X	X		
Industrial partner participation								X	X	X		
LA-CoNGA physics seminars	X	X	X	X	X	X	X	X	X	X	X	X
LA-CoNGA physics Network School									X	X	X	X
WP4 Quality												
Office hours / student mentorships	X	X	X	X	X	X	X	X	X	X	X	
Final project and course evaluation						X						
Quality Plan									X	X	X	X
WP5 Dissemination and Exploitation												
2023 communication strategy (no subcontracting)	X	X	X	X	X	X	X	X	X	X	X	X
Hackathon	X	X	X	X	X	X						
Citizen Science Projects			X	X	X	X						
WP6 Management												
HEI bilateral partnerships	X	X	X	X								
Communication with EAB		X								X	X	
Financial monitoring / partner installments					X	X			X	X		

4.1 **Detailed description of proposed 2023 activities**

WP2 Development and installation of tools

- Consolidation - Interconnected laboratories and e-learning platform

By the end 2022, the project laboratory equipment as well as the LA-CoNGA physics e-learning platform will be fully installed and operational, and only minor updates and improvements are expected for the beginning of 2023, based on the feedback and lessons learned from the 2022 operations. The 2023 cohort will then benefit from a consolidated, final version of the interconnected laboratories and e-learning platform.

WP3 Training and education

- Staff training

The project will continue ensuring its continuous instrumentation and e-learning platform staff training, as well as regular experience sharing between our HEI partners staff members. Hence, technical and teaching staff will guarantee a permanent use of such tools.

- Third cohort

The LA-CoNGA physics third cohort will start courses in January 2023. The overall schedule will follow the 2022 structure, with minor updates following the lessons learned from 2022. In this way, the 2023 cohort will then benefit from a consolidated, final version of the LA-CoNGA physics courses.

- Student internships

The proposed budget restructuring will also allow the 2023 cohort to benefit from the LA-CoNGA physics program internships. The organization and schedule of these 2023 internships will follow the previously established schemes from 2022.

- LA-CoNGA physics seminars

The LA-CoNGA physics seminars will continue throughout 2023. The organization and coordination of this activity will maintain the same structure as in 2021 and 2022.

- Network School

LA-CoNGA physics 2023 Network School is scheduled for December 2023 with a particular agenda to make it a closing event for the project.

WP4 Quality Plan

- Office hours/ student mentorships

In 2023 office hours and student mentorships will follow the same structure and calendar as for previous years.

- Final project and course evaluation

The project will continue to implement evaluations for staff and students. Updates might follow based on the 2022 general feedback.

The time schedule of these surveys will be similar to the once previously established in 2021 and 2022.

- Quality Plan

An updated quality plan will be presented for the 2023 edition. The coordination of this activity will be organized at the beginning of 2023, and will be described in the Project Final Report.

WP5 Dissemination and Exploitation

- 2023 Communication strategic plan

The LA-CoNGA physics communication team hiring through subcontracting will no longer be present for the 2023 edition. The project will maintain regular communication activities using the implemented dissemination tools (website, social media, graphics…) , as well as the already established links with communication offices in partners HEI who can ensure and support communication activities during 2023.

- LA-CoNGA physics 2023 Hackathon

The project will seek to renew an edition of its Hackathon. The organization of the 2023 edition would closely follow the one successfully implemented in 2022.

- Citizen Science projects

As the purchased equipment will be fully operational for the 2023 edition, the project expects to increase the number of High Schools participating in the citizen science projects.

WP6 Management

- HEI Bilateral agreements, searches for additional funding and support

According to the Université Paris Cité bilateral agreements calendar, we expect the 2022 requested bilateral agreements to be signed and accepted by January 2023. This will allow our LA-CoNGA physics partners to fully implement and develop the main points of these agreements :

1. Student/ staff mobility
2. Doctoral joint thesis

The Université Paris Cité International Relations Office will make the regular follow-ups and supervise the full implementation of these partnerships. This activity also requires various meetings with high-level Representatives from our partner institutes.

As already mentioned, the project coordination is also seeking for possible sources of future financial and institutional support. These actions, key to the longer-term sustainability of the project, will continue during 2023.

- Communication with the Executive Advisory Board, EAB

The LA-CoNGA physics consortium will maintain a fluid communication with its Executive Advisory Board. Two main meetings are scheduled for 2023 in order to present a follow-up of the main activities of the project and receive necessary feedback regarding the main academic and project points.

- Financial and general status/ partner Staff Costs / Stay Costs installments

According to the planned calendar, the project will have in 2023 one main Staff Costs installment by May 2023 as well as Stay Costs installment for the expected 2023 internships and Network School 2023.

5. **Budget management and planning (2020 - 2023)**

The total LA-CoNGA physics approved budget for the initial 2020-2023 period is **899.595,00€**, and is subdivided in the following categories :

- Staff costs : 269.815 €
- Travel costs : 118.570€
- Costs of Stay : 307.035€
- Equipment costs : 183.675€
- Subcontracting costs : 20.500€

The proposed budget restructuring is strongly based on the reassignment of unused mobility costs from 2020 and 2021, and satisfies all mandatory constraints on maximal amounts per category. Some additional details for the various categories are described in the following.

Staff costs

We have reformulated the staff costs to include the year 2023. The proposed budget reformulation does not exceed the maximum 40% of the total budget constraint.

Mobility costs (travel and stay costs)

For 2023, mobility costs will be kept at the same level as in 2022, since the requirements are very similar, both for student internships and for mobilities for the 2023 Network School.

Equipment Costs

As of mid-2022, the budget allocated to Equipment Costs has been almost completely spent. Therefore only a very small provision is kept for 2023, to be used only for very minor purchases and general maintenance equipment parts.

Subcontracting Costs

In 2023, Subcontracting Costs will be used to fund the following items:

1. Mandatory auditor for the EACEA final report
2. One technical staff for the maintenance of the e-learning platform (managed by

Universidad Industrial de Santander).

In total, the Subcontracting Costs category in the proposed budget reformulation is 89 800€, in agreement with the maximal 10% constraint.

5.1. Proposed budget, execution and needs (2020 - 2023)

Table 1 describes the new proposed budget for the January 15th 2020 to January 15th 2024 period, including both the already-executed and ongoing items, together with the proposed items for the requested one-year extension.

Table 1 : Proposed LA-CoNGA physics general budget 2020-2023

	2020		2021		2022		2023	
	Planned budget	Executed	Planned budget	Executed	Planned budget	Necessary budget	Necessary budget	Total executed 2020-2021/ necessary budget 2022-2023
Staff costs	89 938€	89 938€	89 938€	89 938€	89 938€	89 938€	89 853€	359 667€
Travel costs	39 523€	0€	39 523€	13 295,47€	39 523€	41 800€	41 800€	96 895,47€
Stay costs	102 345€	0€	102 345€	24 978€	102 345€	60 660€	60 660€	146 298€
Subcontracting	6 833€	0€	6 833€	48 300€	6 833€	27 500€	14 000€	89 800€
Equipment	91 838€	0€	91 838€	176 910€	0€	25 000€	5 000€	206 910€
TOTAL								**899 570€**

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