ERANET-LAC ACTIVITIES ROADMAP

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1. Executive summary

The purpose of the document is exploring the best options for the definition of Joint Activities of the EU CELAC cooperation, determining the most suitable activities.

This deliverable gives information about the preferred activities voted by the participant countries enrolled in ERANETLAC. For this task, a questionnaire was sent to the participant countries in order to identify the most suitable type of activities.

The provisional results of the survey were first analyzed by MINECO and sent to the ERANETLAC partners.

In the final participation results, a total participation of 10 participant countries responded the questionnaire. It represents around the 60% answers from countries and international organizations members of the PRIMA GA.

- The best ranked actions are "joint calls for research", "open research infrastructures to researchers", "joint call for young researchers, "specific calls for interconnecting and integrating projects and researchers from different disciplines, "public-private joint calls for research proposals" and "exploratory workshops with researchers, entrepreneurs and companies working on similar questions for the alignment knowledge and propose future technology trends".

2. ERANETLAC initiative: scope, objectives and implementation activities

ERANet-LAC aims at contributing to the internationalization of the European Research Area and the goals of the Innovation Union in the sense that the activities carried under the project will address the need for an overall strategy addressing research and innovation as a whole, while facilitating the joint programming, in this case, under a bi-regional perspective.

The ERA-Net for Latin America and the Caribbean seeks to foster the cooperation between researchers and industry while boosting the bi-regional cooperation, particularly at a funding agencies' level, taking into account the whole innovation cycle when designing common programs.

Thus, EU and CELAC innovation agencies will be involved in the consultation process aimed at defining their participation in joint actions. They will also be involved in actions aimed at building trust and common procedures that will be the basis for long term coordination actions and (ii) supporting the implementation of an EU-CELAC funding agencies platform.

This updated document, based on the opinion of the ERANET LAC partners, will help in the continuation of the cooperation in research, development and innovation between the Latin America, Caribbean and Europe's future prosperity in order to face the common societal challenges.

In the results we can see that innovation activities getting more important and, if there are many voted actions focused on promoting public-public partnerships there are also an advance in public-private partnership. The key actors in the EU-CELAC collaboration are not only scientists and R&D practitioners, but also other innovation actors and process: the regulators, industrial federations, Government Ministries, companies, consumer groups, trainers, and so on.

The document will serve as information and communication scene and offer substantial guidelines to facilitate and enhance the development of future concrete joint initiatives.

The idea of developing this activities guide come from the ERANet-LAC project, and it has thee intention of helping in going ahead with a sustainable and long term framework for collaborations between EU-CELAC S&T area.

ERANet-LAC programme aims, with the tasks 5.3, to create a long term future joint activities road map. To develop it, a consultation process with the ERANet-LAC partners was opened. A questionnaire was sent to the participant countries in order to identify the most suitable type of joint activities.

This document gives information about the preferred activities voted by the participant countries and international research organizations enrolled in ERANet-LAC.
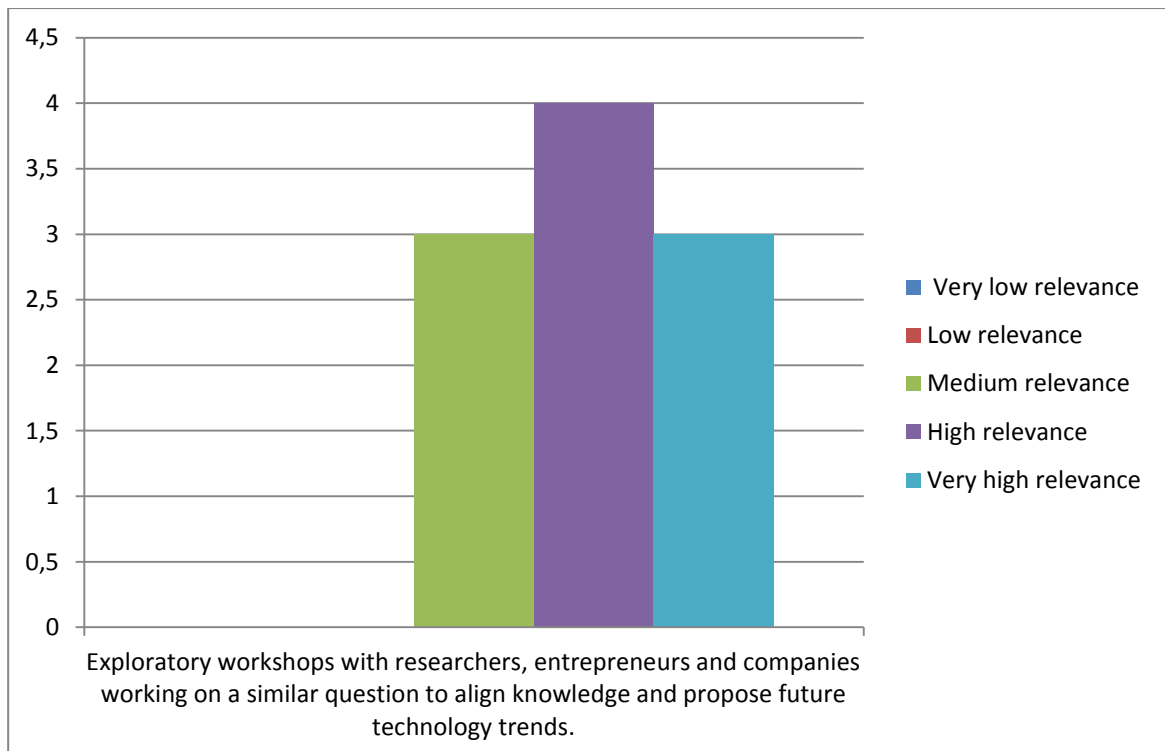
3. ERANET LAC prioritisation of activities: survey results

3.1 Participation

Attending the results, a total participation of 10 out of 17 participant countries responded the questionnaire. It represents around the 60% answers of the ERANet-LAC programme partners. The countries answered the questionnaire are Argentina, Chile, Finland, Germany, México, Panamá, Peru, Portugal, Spain and Uruguay.
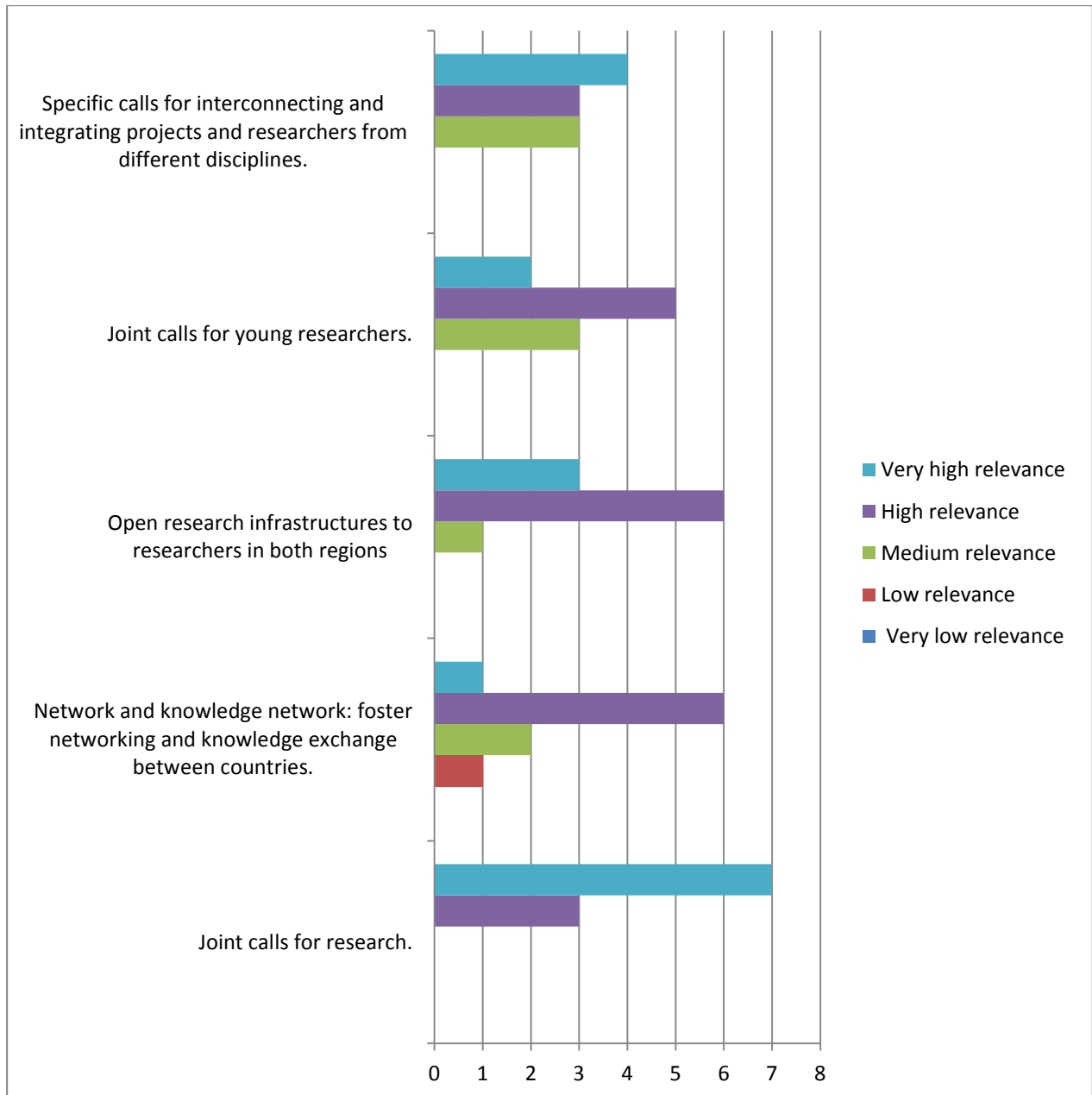
3.2 Survey results

- **Actions that allow explore emerging research areas:**

Regarding to the activity "**exploratory workshops** with researchers, entrepreneurs and companies working on a similar questions to align knowledge and propose future technology trends", three out of ten countries voted that it is a very high relevance action, four as a high relevance action (3VH+4H) and three as medium relevance. There is a total of **7 votes** joining very high and high.

- **Activities that allow invest jointly in new transnational research:**

The action "**joint call for research**" is the one with more votes as a very high relevance with **seven out of ten votes, and three votes as a** high relevance. (7VH+3H).
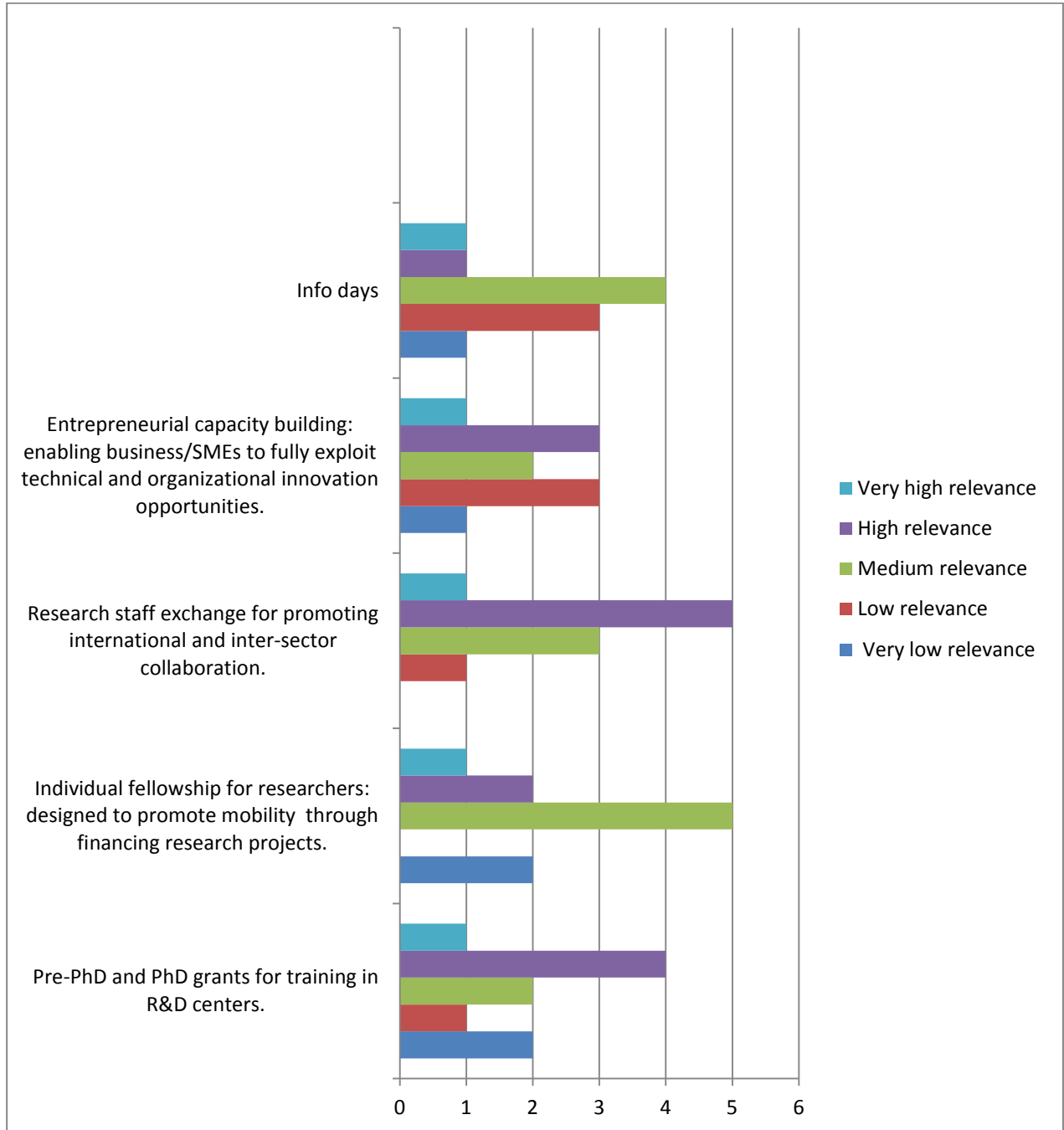
Moving to "**open research infrastructures** to researchers from both areas", it have six out of ten votes as a high relevance and three as a very high relevance (3VH+6H). Adding both, **high and very high, it obtains nine votes**.

Moving to the action "**joint call for young researchers**", it is classified with five out of ten votes as a high relevance and two as a very high. **Those votes together are seven**. The rest goes to medium relevance.

And the activity "**specific calls for interconnecting and integrating projects and researchers** from different disciplines" obtained four votes as very high, three as high relevance action **(total 7)** and three votes went for medium relevance.

Regarding the "**Network and knowledge network: foster networking and knowledge exchange between countries.**" it has six votes as a high relevance activity, one vote very high **(total 7)** and the other four votes went to medium (3 votes) or low relevance (one vote).

- **Actions for mobility and capacity building**:

The third most valued action in this mobility and capacity building section is "**research staff exchange** for promoting international and inter-sector collaboration" has **six out of ten votes as very high and high** relevance jointly, three as medium and one as a low relevance.
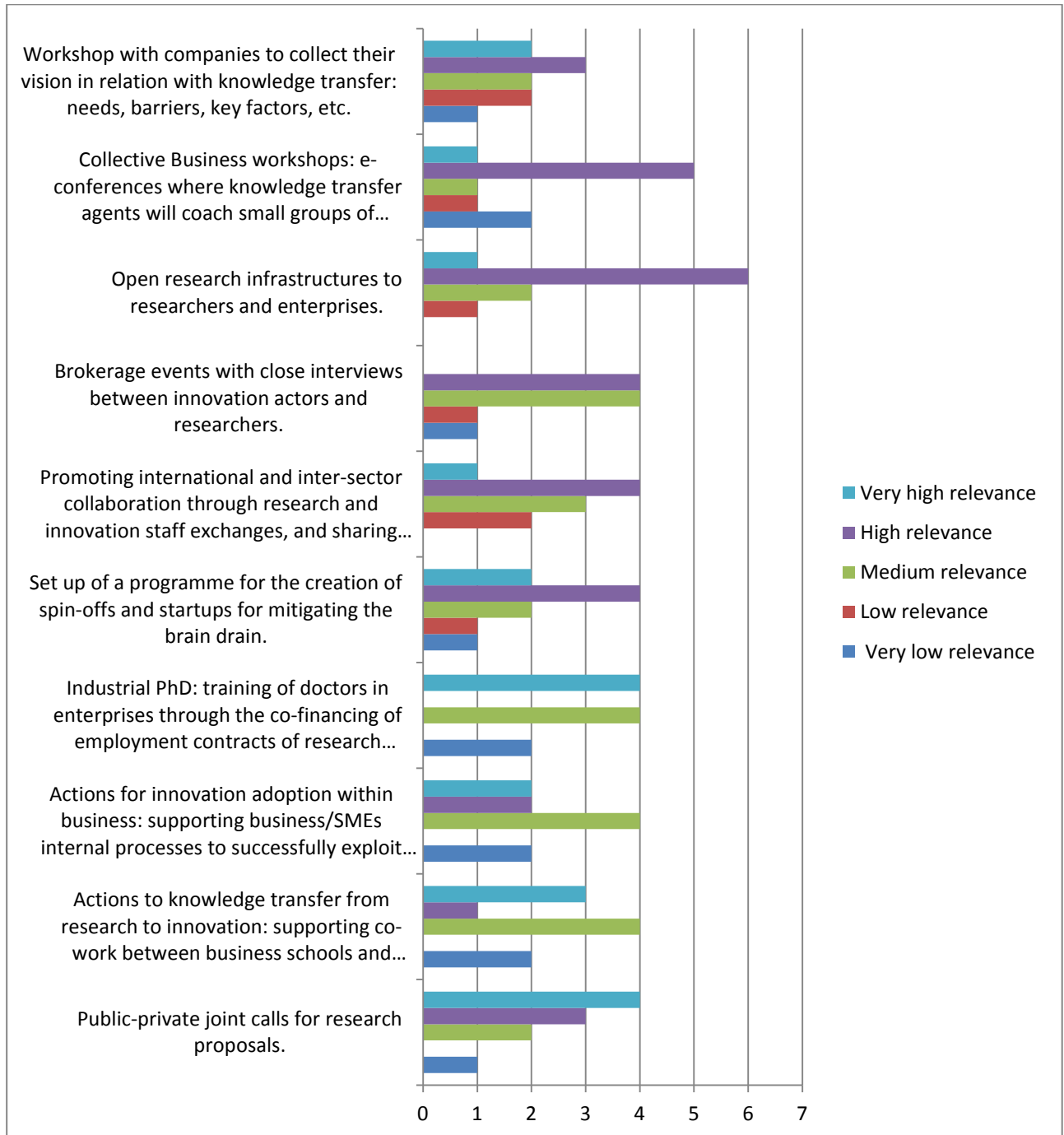
The activity "**Pre-PhD and PhD grants** for training in R&D centres" is ranked with **five out of ten votes, as a very high and high** relevance. The other five votes were distributed in the next way: three went to very low and low relevance and the last is for medium relevance.

The results show that the action **"entrepreneurial capacity building: enabling business/SMEs** to fully exploit technical and organizational innovation opportunities" has four votes as a high and very high jointly, and joining low and very low, four votes. The rest goes for medium relevance activity.

The activity "**individual fellowship for researchers**: designed to promote mobility between EU CELAC countries through financing of projects of research" obtained one vote as a very high relevance action, two as a high relevance (1VH+2H), keeping five votes as a medium and two as very low relevance action..

Finally, "**Info days"** received four votes joining low and very relevance, four as medium, one as high relevance and another one as a very high.

ERANet LAC

- **Actions that allow joint transnational research and innovation:**

The two highest ranking actions are "**Public-private joint calls** for research proposals" with **seven out of ten votes joining** a very high and high relevance votes (4VH+3H), and "**Open research infrastructures** to researchers and

enterprises" also obtained a good punctuation with **seven** out of ten joining high and high relevance votes (1VH+6H).

Actions to knowledge transfer from research to innovation: supporting co-work between business schools and innovators in order to create start-ups and new ventures with possible participation of risk capital companies" obtained **three** out of ten very high, one as a high **(3VH+1H)** and four as a medium relevance and two votes with the lowest punctuation.

The activity "**set up of a programme for the creation of spin-offs and start-ups** for mitigating the brain drain" obtained two very high votes, four as high value action **(6 in total)** and the rest of the votes are two medium, one low and one very low relevance action.

The action "**Workshop with companies** to collect their vision in relation with knowledge transfer: needs, barriers, key factors, etc." obtained two votes as a very high relevance, three as high relevance **(5 in total)** and the rest of the votes are medium and low and very low relevance.

"I**ndustrial PhD:** training of doctors in enterprises through the co-financing of employment contracts of research personnel in training to participate in a project of industrial research or experimental development that is carried out in the company" obtained **four votes as very high**, four as a medium and two as a very low relevance activity.

"Brokerage events" with close interviews between innovation actors and researchers" obtained **four votes as a high** relevance action, four as a medium relevance and two in low and very low.

The action "**Collective Business Workshops**: interactive e-conferences where Knowledge Transfer agents will coach small groups of projects owners to identify exploitation opportunities: potential commercialisation strategies, identification of ideal market segment to commercialise service / product, Work in groups aiming to tackle general issues of business modelling: definition of users/industry needs: product development; potential clients; Financing opportunities" obtained one vote as a very high relevance, five votes as high **(6 in total)** and four in the group of medium, low and very low relevance.

Research and innovation staff exchange for promoting international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa). The scheme fosters a shared culture of research and innovation that welcomes and rewards creativity and entrepreneurship and helps to turn creative ideas into innovative

products, services or processes is ranked with one vote as a very high relevance activity and four high relevance **(total 5)**, three as a medium and two as a low relevance.

Actions for innovation adoption within business: supporting business/SMEs internal processes to successfully exploit the potential of technical and organizational innovation" received **two votes as a** very high relevance activity and two more as a high relevance (4 votes), four votes as medium and two very low relevance action.

3.1 Survey conclusions

The classification table of activities in function of the relevance votes is the next:

7 OUT OF TEN VOTES AS A VERY HIGH RELEVANCE

- **Joint calls for research.**

9 OUT OF TEN VOTES AS A VERY HIGH AND HIGH RELEVANCE

- **Open research infrastructures to researchers.**

7 OUT OF TEN VOTES AS A VERY HIGH (VH) AND HIGH (H) RELEVANCE

- **Joint call for young researchers**

- S**pecific calls** for interconnecting and integrating projects and researchers from different disciplines.

- **Public-private joint calls** for research proposals.

- **Exploratory workshops** with researchers, entrepreneurs and companies working on similar questions for the alignment knowledge and propose future technology trends.

- **Network and knowledge network**: foster networking and knowledge exchange between countries.

- **Open research infrastructures** to researchers and enterprises.

6 OUT OF TEN VOTES AS A VERY HIGH (VH) AND HIGH (H) RELEVANCE

- **Set up of a programme for the creation of spin-offs** and start-ups for mitigating the brain drain.

- **Collective Business workshops**: interactive e-conferences where Knowledge Transfer agents will coach small groups of projects owners to identify exploitation opportunities: potential commercialisation strategies, identification of ideal market segment to commercialise service / product, Work in groups aiming to tackle general issues of business modelling: definition of users/industry needs: product development; potential clients; Financing opportunities.

- **Research staff exchange** for promoting international and inter-sector collaboration.

5 OUT OF TEN VOTES AS A VERY HIGH AND HIGH RELEVANCE

- **Research and innovation staff exchange** for promoting international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa).

- **Workshop with companies** to collect their vision in relation with knowledge transfer: needs, barriers, key factors, etc.

- **Pre-PhD and PhD grants, for training in R&D centres.**

4 OUT OF TEN VOTES AS A VERY HIGH AND HIGH RELEVANCE

- **Industrial PhD:** training of doctors in enterprises through the co-financing of employment contracts of research personnel in training to participate in a project of industrial research or experimental development that is carried out in the company.

- **Actions for innovation adoption within business**: supporting business/SMEs internal processes to successfully exploit the potential of technical and organizational innovation.

- **Entrepreneurial capacity building: enabling business/SMEs** to fully exploit technical and organizational innovation opportunities.

- **Actions to knowledge transfer from** research to innovation: supporting co-work between business schools and innovators in order to create start-ups and new ventures with possible participation of risk capital companies.

- **Brokerage events** with close interviews between innovation actors and researchers.

3 OUT OF TEN VOTES AS A VERY HIGH AND HIGH RELEVANCE

- **Individual fellowship for researchers**: designed to promote mobility between EU CELAC countries through financing of projects of research.

2 OUT OF TEN VOTES AS A VERY HIGH AND HIGH RELEVANCE

- **Info days.**

4. Ongoing and New Cooperation Activities

1. Six Coordination Actions, focused on networking research programmes, funded by ERANET LAC with feasibility in continuing their aim :

   a. COOPBIOPLAT in the topic of biodiversity with institutional agreements to stablise a long-term collaboration between Argentina, Brazil, Costa Rica, France, Portugal and Spain for sharing common biodiversity.

   b. ELANAOST in the topic of electronic semiconductors, where some institutions started to collaborate and are in the way of sign long term agreements. The participant countries are Brazil, Greece, Mexico and Spain.

   c. EHME is another ongoing cooperation action in the topic of Health and Environment, with a 1st call launches with 36 mobility action grantees and plans for launching a 2nd call. The participant countries are Argentina, France, Mexico Spain and Uruguay.

   d. NETWOODRESIST is a network in the field of Forestry and Climate Change, that have signed an MoU between institutions from Argentina, Brazil Portugal and France, and have potential projects to launch.

   e. PRObiTECH is a network programme based in Technology Transfer. Within the cooperation between Argentina, Germany, Mexico and Spain, they presented two proposals to the EC and now there are two new H2020 projects in this field with 36 and 24 months duration.

   f. VINESEA gathered 7 institutions from Chile, Ecuador, France, Germany Peru and UK. The group implemented mobility and capacity building research programs in the topic of Volcanism and environmental and Social Impact and have plans for new ones.

2. Two ERANETLAC Calls with live projects.

3. New projects:

a. The launch of the Pilot Call in Ocean Energy lead by Mexico and Spain

b. First steps for opening the LIFEWATCH SFRI in Latin America lead by Argentina and Spain.

5. Conclusions

- Nowadays there are some sort term/ medium term activities planned, but to carry on with them is needed a big funding effort by the different countries institutions. This creates a barrier about the continuity of many of the projects.
- There are many implemented actions and future actions in ERANET LAC that are in the line of the survey, like calls for research, opening research infrastructure, mobility and capacity building actions or networking. But also there are other actions with good punctuation to:
  - o NEXUS projects for interconnecting different networks or projects from different areas of knowledge could be important to develop new research or technology lines.
  - o Public-private joint calls.
  - o Set up a programme on spin-off and startups
  - o Open research infrastructures where first steps in the ERANETLAC project are starting.

- It is needed to think about the opportunities for young researches and in giving them more opportunities in the R&D environment.

- There is still a gap between research and innovation actions that should be reduce in order to achieve Societal Challenges.

- There are different actions that could be implemented together to increase the add value of them. Example. Presenting research projects to innovation actors plus brokerage event plus a clustering action.

- It is also need to discuss a long term plan in the context of the Interest Group and counting on the new funding agencies interested in participating th the EU-CELAC collaboration in R&D and innovation.

- Also, the actions with more votes are in line with the EU-CELAC SOM demands action addressed to face societal challenges, open research infrastructures and researchers mobility.

6. Annex: Questionnaire

WP5	TASK 3

ERANet-LAC is a Network of the European Union (EU) and the Community of Latin American and Caribbean States (CELAC) which strengthens the bi-regional partnership in Science, Technology and Innovation by planning and implementing concrete joint activities and by creating a sustainable framework for future bi-regional joint activities.

WP 5 is focused in developing an inclusive and sustainable new strategy for future bi-regional funding. Upon the output from this project a new scenario will be created, which will provide strong support to the JIRI. A trust building process between EU-CELAC funding / innovation agencies will be ensured, aimed at overcoming barriers for coordination of funding mechanisms, evaluation processes and other means of integrating activities to promote and enhance EU-CELAC S&T cooperation. The joint activities carried out in the project will be assessed and evaluated with the aim of providing sustainable recommendations for future funding activities between EU and CELAC. A traceable road map will be formulated, describing concrete steps for implementing joint funding among research and innovation funding agencies in both regions, beyond the time frame and partner countries of the project. A platform will be created to guarantee the outreach of the project activities both to other countries of the EU-CELAC region and beyond the timeframe of the project.

Task 5.3 aims to defining a road map for future joint activities. Lead/co-lead: MINECO/CONICYT Major contributions: all partners.

The aim is creating a long term road map, including perspectives for future joint activities beyond the project and best practices and lessons learnt of joint activities conducted within the ERA-Net. The inputs will be provided by task 5.2, but also bi-regional projects such as ALCUE NET and platform projects in other thematic areas. It will also include the results from the consultation process in T2.2 and take into account other initiatives, such as the Global Research Council and Development Banks. The road map will be developed in close consideration of the JIRI and will be presented to the annual EU-CELAC SOM as well as to the Strategic Forum for International Cooperation (SFIC). The road map will suggest a sustainable mechanism to drive thematic joint initiatives, design a common framework for assessment and decision-making processes for joint research proposals as well recommendations for future joint activities or joint programming as: • concrete recommendations for joint funding activities e.g. joint calls for action proposals, and/or the top-down funding of single actions or programmes or the development and implementation

of schemes for the "open door" policy of laboratories and other scientific facilities • clear guidelines describing how programmes can be initiated, trans-national mobility realized and the working conditions of the final beneficiaries enhanced; taking notes of the best practices and lessons learnt of joint activities conducted within this ERA-Net • budgetary aspects of the contributions of each participating action partner

Expected results: This task will thus evaluate which are the suitable activities to be implemented, on the basis of a consultation of relevant stakeholders and national funding bodies, in relation to the topic and priorities as defined in ERANEN LAC. Questionnaires will be sent to the participant countries participating in ERANET LAC in order to identify the most suited type of activity for each topic, and taking into account the recommendations of the last EU_CELAC SOM 2016.

In next pages you will find relation of possible actions to implement perspectives for future joint activities

Please indicate your opinion related to the **level or relevance of any action type, with a single tick for action.** The gathered information will be used in to determinate which are the more or less suitable actions to implement in the future.

Type of joint actions:

Actions that allow to explore emerging research areas:					
	Very low relevance	Low relevance	Medium relevance	High relevance	Very high relevance
Exploratory workshops to allow researchers, entrepreneurs and representatives of companies working on a similar question to meet their knowledge on the issue and propose future technology trends.					

Actions that allow to invest jointly in new transnational research:					
	Very low relevance	Low relevance	Medium relevance	High relevance	Very high relevance
Joint calls for research proposals.					
Network and knowledge network: foster networking and knowledge exchange between participant country/region nets.					
Open research infrastructures to researchers of both regions.					
Joint calls for young researchers.					
Specific calls for interconnecting and integrating projects and researchers from different disciplines.					

Actions for mobility and capacity building:					
	Very low relevance	Low relevance	Medium relevance	High relevance	Very high relevance
Pre-PhD and PhD grants for training in R&D centers.					

Individual fellowship for researchers: designed to promote mobility through financing of projects of research.					
Research staff exchange for promoting international and inter-sector collaboration.					
Entrepreneurial capacity building: enabling business/SMEs to fully exploit technical and organizational innovation opportunities.					
Info days.					

Actions that allow to join transnational research with innovation:

	Very low relevance	Low relevance	Medium relevance	High relevance	Very high relevance
Public-private joint calls for research proposals.					
Actions to knowledge transfer from research to innovation: supporting co-work between business schools and innovators in order to create startups and new ventures with possible participation of risk capital companies.					
Actions for innovation adoption within business: supporting business/SMEs internal processes to exploit the potential of technical and organizational innovation.					
Industrial PhD: training of doctors in enterprises through the co-financing of employment contracts of research personnel in training to participate in a project of industrial research or experimental development that is carried out in the company.					
Set up of a programme for the creation of spin-offs and startups for mitigating the brain drain.					
Research and innovation staff exchange for promoting international and inter-sector collaboration through research and innovation staff exchanges, and sharing of knowledge and ideas from research to market (and vice-versa). The scheme fosters a shared culture of research and innovation that welcomes and rewards creativity and entrepreneurship and helps to turn creative ideas into innovative products, services or processes.					

Brokerage events with close interviews between innovation actors and researchers.					
Open research infrastructures to researchers and enterprises.					
Collective Business workshops: interactive e-conferences where Knowledge Transfer agents will coach small groups of projects owners to identify exploitation opportunities: potential commercialisation strategies, identification of ideal market segment to commercialise service / product, Work in groups aiming to tackle general issues of business modeling: definition of users/industry needs: product development; potential clients; Financing opportunities					
Workshop with companies to collect their vision in relation with knowledge transfer: needs, barriers, key factors, etc.					

Please add those actions that you consider interesting to include and are not in the list or/and comments: