



Meeting Minutes

ALCUE NET

Latin America, Caribbean and European Union Network on Research and Innovation

Latin America, Caribbean
and European Union

Network on Research and Innovation

**Latin America and Caribbean-European
Union events on Bioeconomy
11th International Conference on
Renewable Resources and Biorefineries & ALCUE NET
Matchmaking event**

3-5 June 2015

York, UK

Task Leaders: MINCYT/CIRAD

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Meeting Objectives

The ALCUE NET event on Bioeconomy: “Latin America and Caribbean - European Union: Matchmaking Event on Bioeconomy” was organizing during the 11th International Conference on Renewable Resources and Biorefineries (RRB) in York, United Kingdom. The Bioeconomy Senior Official Meeting was held also during ALCUE NET meeting.

Invited ALCUE NET participants assisted to both events during 3, 4 and 5 June 2015. Some of the assistances participants presented a poster during the International Conference at the poster session. An ALCUE NET poster was also exposed. *(see Agendas in Annex I).*

11th International Conference on Renewable Resources and Biorefineries

The conference aimed at providing an overview of the scientific, technical, economic, environmental and social issues of renewable resources and biorefineries in order to give an impetus to the biobased economy and to present new developments in this area. The conference provided a forum for leading political, corporate, academic and financial people to discuss recent developments and set up collaborations.

ALCUE NET: “Latin America and Caribbean - European Union: Matchmaking Event on Bioeconomy”

The event aimed to raise awareness on the LAC Bioeconomy current situation and potential, and facilitate opportunities for collaboration between LAC and EU scientists and industrialists. Participants were informed regarding funding opportunities on H2020 and other joint activities.

The meeting brought together selected partners countries’ stakeholders as well as other experts from non-partners countries in order to also:

- Optimize synergies, complementarities, analyse follow-up needs and opportunities and disseminate experiences and lessons learnt
- Raise awareness and improve the ALCUE NET activities related to the Bioeconomy

Latin America and Caribbean - European Union: Bioeconomy SOM Working Group session

The main goal was to contribute to the Bi- Regional EU-CELAC Policy Dialogue on Research and Innovation and increase the Social Changes through the participation of national experts in the Bioeconomy thematic for developing and strengthening networking capacities.

The SOM Working Group meeting aimed to present the activities carried out and to prepare full documentation for next SOM meeting in order to:

- Inform about the Bioeconomy SOM Working Group progress
- Identify opportunities and monitor progress made by the Bioeconomy SOM WG
- Start preparing the draft report for the next Senior Officials Meeting to be held in Brussels, November, 2015.

These last two Events were organized together with the Ministry of Science, Technology and Productive Innovation (MINCYT) and the Recherche Agronomique pour le Développement (CIRAD) from France, in the framework of ALCUE NET project activities: Work Package 4 “Addressing Societal Challenges through action in Bioeconomy of the EULAC Joint Initiative for research and Innovation (JIRI)”. The meeting was held Kings Manor Exhibition Square and was attended by 19 people (*see full list in Annex III*).

Note:

All presentations available at ALCUE NET website: <http://alcuenet.eu/meeting-events.php?event=TkRRdw>

11th International Conference on Renewable Resources and Biorefineries

The 11th edition of the International Conference on Renewable Resources & Biorefineries took place in York, United Kingdom, from Wednesday June 3 until Friday June 5, 2015.

Delegates from university, industry, governmental and non-governmental organizations and venture capital providers presented their views on industrial biotechnology, sustainable (green) chemistry and agricultural policy related to the use of renewable raw materials for non-food applications and energy supply.

The conference further aimed at providing an overview of the scientific, technical, economic, environmental and social issues of renewable resources and biorefineries in order to give an impetus to the biobased economy and to present new developments in this area. The conference provided a forum for leading political, corporate, academic and financial people to discuss recent developments and set up collaborations.

The three day international conference consisted of plenary lectures and oral presentations by international experts, a poster session and an exhibition. ALCUE NET project was offered the opportunity to organize a satellite meeting on Bioeconomy and present a poster during poster session (*see ALCUE NET poster presented in Annex II*).

Approximately 250 international participants from over 30 countries participated during the conference.

Matchmaking during the Conference

The RRB Conference was a perfect opportunity to get a comprehensive overview on the various areas of research in the field of bioeconomy. The presentations were concise and covered an enormous range of fields of interest from technical issues over political and economic topics.

The setting on the upper floor with the various research projects summarized in the form of posters gave a good opportunity to get in contact with other people and provided a solid basis for networking. In fact the conference was of particular advantage for the ALCUE NET Meeting on Friday, since the impressions from the conference and their relevance for the call proposals could be once again discussed in detail with the ALCUE NET Meeting participants.

During the RRB, ALCUE NET participants had the opportunity to meet representatives from companies/SMEs, universities and research organizations in order to exchange ideas during conference. The more important aim was to pave the way for future co-operations and European projects including call topics for 2016 and 2017.

The matchmaking aimed at:

- build quality partnerships for participating in Horizon 2020
- facilitate the setup of project consortia for the 2016/17 H2020 call
- discuss and develop new project ideas on Bioeconomy at international level
- acquire new cross-border contacts and initiate collaborations
- promote your research results, technologies and know-how

ALCUE NET: “Latin America and Caribbean - European Union: Matchmaking Event on Bioeconomy”

Before the meeting, the following documents were sent to all participants in order to improve project meeting inputs and have a more productive meeting:

- Meeting agenda
- List of participants
- A brief guide to participate on H2020 (for the Matchmaking session “Presentation of the H2020 Calls 2016/2017”)
- 3 topics proposals for next Joint Call (for the Bioeconomy SOM WG Meeting)

Opening session: Welcome and Introduction

Mr. Guy Henry, from the Center of Agricultural Research for Development (CIRAD) of France and Ms. Luciana Ayciriex, from the Ministry of Science, Technology and Productive Innovation (MINCYT) of Argentina and welcomed all participants to the meeting on behalf of the ALCUE NET Coordination.

1. General overview of the meeting objectives
2. Round table presentation: The participants introduced themselves.

Luciana Ayciriex introduced the ALCUE NET project and related issues to Bioeconomy Working Group and the next steps forward the upcoming SOM in Brussels. She pointed out that Bioeconomy is one of the five EU-CELAC Joint Initiative for Research and Innovation (JIRI) priority themes.

Bioeconomy concept in the LAC region: Current status, Potential and Opportunities building on successful experiences

Guy Henry, Center of Agricultural Research for Development (CIRAD). France

Mr. Guy Henry pointed out on the following related aspects:

- Bioeconomy concept
- Bioeconomy Evolution in Argentina, Brazil, Colombia and Costa Rica
- Major challenges for developing a LAC bioeconomy
- Best practices towards a LAC bioeconomy
- Bioeconomy models: Bio-based strategies
- Next steps for the región

ALCUE Bioeconomy project results: book presentation “Towards a Latin America and Caribbean Knowledge Based Bio-Economy in partnership with Europe”

Elizabeth Hodson de Jaramillo, Pontificia Universidad Javeriana, Colombia

Ms. Elizabeth Hodson presented the contents of the book elaborated on the framework of ALCUE KBBE Project: “Towards a Latin America and Caribbean Knowledge Based Bio-Economy in partnership with Europe” focusing on:

- Towards Bioeconomy Development in Latin America and the Caribbean
- Natural Resources in LAC: a Bioeconomy Perspective
- Policies and Institutional Framework for the Development of Bioeconomy in LAC
- Social, Economic and Environmental Impacts of Bioeconomy in LAC
- Current Status and Potential of Knowledge Based Bio-Economy Related with Research & Innovation in LAC
- Bioeconomy Successful Experiences in LAC
- LAC Bioeconomies: Different Pathways, Preliminary Results and First Best Practices

Short Individual Presentation of each participant

Moderator: Luciana Ayciriex, MINCYT, Argentina

During the meeting, participants had the opportunity to present their own concepts and to meet representatives from other ALCUE NET partner’s countries in order to exchange ideas.

Each participant had 10 minutes for a short presentation considering the following remarks:

- Institutional presentation
- Pertinent products/process/results for Bioeconomy
- Opportunities and challenges related to valorization/ commercialization

European and Latin American Technology based Business Network (ELAN2), EuropeAid project

Soledad Peresin, VTT, Finland

Ms. Soledad Peresin exposed the recently ELAN Network 2 “European and Latin American Technology based Business Network whose main purpose is to generate technology-based business opportunities between European and Latin American SMEs”. The ELAN Programme is a European Union initiative that seeks to increase and diversify the EU economic presence in Latin America, by meeting the Latin American demand for knowledge and innovative technology.

The technology based business opportunities were presented by focusing on possible collaboration to be generated:

- Development of product / technology for a client’s particular business challenge
- Sale of a product / technology for a market segment
- Sale of technological services
- Creation of a new technological start-up
- Address new geographical markets with a technology adaptation
- Set up a new laboratory to offer advanced technological services
- Integrate/combine existing technologies to address new market needs

The ways to also generate these technology based business opportunities were also exposed in order to: i) bringing different players together and exploiting synergies; ii) Consolidate value proposition by dissipating risk; iii) Grow business by addressing new markets.

H2020 and other calls opportunities for a Bioeconomy EU-LAC collaboration, ERA-NET Joint call

Guy Henry, Center of Agricultural Research for Development (CIRAD). France

The objective of this session was to provide information about the guidelines and basic concepts to be applied to the new calls in the framework of Horizon 2020. During this presentation the possible calls identified for LAC interest were presented taking into account the Draft Programme 2016/2017 as well as the Topics identified to be considering for funding during the upcoming ERANet-LAC Joint Call to be launched in December 2015.

The fact that international cooperation in H2020 regarding Bioeconomy will be continued with countries that have shown interest or have a strong Bioeconomy strategy themselves was pointed out. Challenges of global nature require global solutions in cooperation with important international cooperation partners.

Panel Discussion: critical reflection and dialogue about Bioeconomy LAC-EU collaboration, constraints and opportunities

Moderators: Ivan Ingelbrecht, Ghent University, Belgium/ Rodrigo Navia, Universidad de la Frontera, Chile

During this specific panel discussion, participants were asked to reflex on the following points regarding the Bioeconomy:

- In your field/subject/country, what are the most promising bio-economy related opportunities?
- How do you see in your country how national policies influence positively or negatively on the emerging bio-economy?
- How do you see the opportunities of EU-LAC Science and Technology cooperation for future bio-economy related projects?

Main important reflexing among participants:

1) In your field/subject/country, what are the most promising bio-economy related opportunities?

- Residues valorization is one of the main subjects of interest related to Bioeconomy in our countries. Not only regarding the economic point of view, but also considering environmental and social issues (such as jobs creation for instance). The example of sugarcane agroindustry in eg Argentina was given. A high-volume byproduct of this industry is the so called 'black liquor', an important source of contamination of surface waters.
- These kinds of problems should be regarded as opportunities. As an example, residual biomass in the field can provoke fire. Not only economical savings should be considered, but also environmental and social issues must be considered when dealing with these topics.
- Forest industry should be also considered as an opportunity sector as cellulose plants for example are already operating as biorefineries. This sector can trigger a bioeconomy ecosystem by promoting the creation of smaller companies that can add value to the side streams created by the big industries, thereby acting as for instance technology/solutions suppliers for this industry.

- In addition, training, education and dissemination in this sector are also valuable opportunity topics.
- Marine resources, for example chitosan, was also considered as a possible source of resources for the bioeconomy, particularly for some islands. This topic should be further studied.
- Another example was municipal waste. Can this be converted into valuable products? Several projects supported by the European Commission focus on municipal waste in the European context. What can be learned from these studies for the situation in LAC?
- Another important topic in our countries is the (potential) impact measurement of the application of different technologies, for example in the case of biomass use. An important methodology in this regard is Life-Cycle Analysis, also known as 'cradle-to-grave' analysis. Here, to develop such kind of assessments, inventory data will be required in the near future. It was mentioned that some LCA studies are actually already available

2) How do you see in your country how national policies influence positively or negatively on the emerging bio-economy?

- Brazil: In biofuels sector positively affecting (bioethanol example). By contrast, the policies related to genetic resources intended to prevent gene/genetic resources piracy, have negatively affected the emerging bio-economy by restricting access to genetic resources. In many LAC countries, access to genetic resources is limited to R&D purposes not for commercial development.
- Costa Rica: Lack of policy in bioeconomy. Education of policy makers is necessary.
- Chile: Forest industry is very well developed.
- Argentina: 90% of income comes from biomass and enabling policies are in place. However, private sector development is limited.
- Even if policies are in place, they are not always followed through. In general, biotechnology is being considered as a key factor to add value to bioeconomy.
- We need a voice in the governments.

3) Where do you see the opportunities and constraints of EU-LAC S&T cooperation for future bio-economy related projects?

Constraints:

- Research capacities in LAC countries seem to be OK. However, with the exception of Brazil, technology transfer and the creation of spin-off or start up companies seems to be only in the low level.
- In general, LAC countries compete by costs not by technology differentiation as opposed to the situation in eg the EU. So, more innovation capabilities is needed in LAC countries, also involving the private sector. LAC countries have high quantities of raw materials normally at low cost. So LAC countries need to move to higher added value intermediate/final products.
- Communication and negotiation capacity in LAC countries is limited
- Demonstration plants are missing in LAC countries, there is the research in the lab and also industries but pilot-scale plants to test and develop/upscale new technologies are missing

Opportunities:

- LAC countries have raw materials at low cost

- In the EU high value is derived from chemicals, LAC must advance in the aspect of adding value and identify win-win situations with the EU
- LAC have high capacities in research, there is opportunity for technology transfer/exchange between different LAC countries
- Tap into skills available outside LAC. For example, Brazil sends about 1000 PhD students to the EU

4) Have you already been involved in EU-LAC S&T cooperation projects? What are your experiences?

Some of the group have had experience in FP7 program, other more specific in Marie Curie program (IRSES). From a scientific point of view there have been successful cooperation through student exchange with as main output, the joint publication of journal articles for example CONICYT in Chile. Regarding cooperation itself, it works based on trust and synergy. A right topic must be found, and there it makes sense to work together, complementary.

Presentation of a Cost Action: Food Waste Valorisation for Sustainable Chemicals, Materials and Fuels (EUBis)

James Clark, University of York, United Kingdom.

Prof. James Clark, as host of the International Conference RRB-11, joined the ALCUE NET meeting and presented the Cost Action EUBis (Food Waste Valorisation for Sustainable Chemicals, Materials and Fuels).

Prof. Clark, Chair of this Action, explained that the original idea for the Action came from researchers on food waste valorisation at the Green Chemistry Centre of Excellence (GCCE) at the University of York. York has long been a leader in the use of renewable resources, especially waste resources, for the production of higher-value chemicals and materials. Work on bio-derived waste as a renewable resource began at York while researching surface waxes of wheat straw, silica bio-derived adhesives and Starbons materials.

The overall aim of EUBis is to bring about a critical mass of researchers and stakeholders to harness the potential of Food supply chain waste as an alternative carbon source to produce commercially viable chemical commodities. The EUBis Action will bring together skills and expertise that cross scientific borders, covering biology, chemistry, biotechnology and food science and technology as well as experts in environmental and economic assessment. EUBis will interconnect different technology hubs across Europe, overcome technological barriers, go beyond current waste exploitation/management approaches, and bridge gaps between academic disciplines as well as between academia and industry.

Latin America and Caribbean - European Union: Bioeconomy SOM Working Group session

During this meeting the main activities carried out by ALCUE NET project as well as the SOM JIRI Working Group on Bioeconomy were presented.

The SOM Working Group meeting aimed to present the activities carried out and to prepare full documentation for next SOM meeting in order to:

- Inform about the Bioeconomy SOM Working Group progress
- Identify opportunities and monitor progress made by the Bioeconomy SOM WG
- Start preparing the draft report for the next Senior Officials Meeting to be held in Brussels, November, 2015.

Progress on the proposal for the LAC Observatory

Luciana Ayciriex, MINCYT, Argentina

The objective of this meeting was to present main objectives and scope to set up the Latin America and the Caribbean Bioeconomy Observatory that will be presented for Senior Officials consideration during the upcoming SOM in November 2015.

Ms. Luciana Ayciriex, give a brief presentation of the proposal for the Latin America and the Caribbean Bioeconomy Observatory (BIO-CELAC) and the ways to interact with similar EU and LAC platforms.

Objectives

- Support the understanding of the model to general public and stakeholders
- Provide specific information to those who drive Bioeconomy in the region
- Establish a one-point entry to the CELAC Bioeconomy and Bi-regional cooperation
- Provide Information support for decision making in policy development
- Provide a promotion tool to increase levels of social acceptance of Bioeconomy
- Offer a platform for CELAC-UE ALCUE Bioeconomy stakeholders to exchange information

Main actions

- Generate and collect systematically specific information related to Bioeconomy
- Support policy making
- Plan, develop & monitor bi-regional cooperation in Bioeconomy

Structure into 3 pillars

- Research & Innovation: Investments in research, innovation and skills
- Policy: reinforced policy interaction and stakeholder engagement
- Markets: enhancement of markets and competitiveness in bioeconomy

Main points discussed:

- Proposal implementation strategy (regional approach, with country chapters under the responsibility of each individual country)
- Data analysis: which other key indicators should be produced or taken into account?
- Data identification: which additional data/information should be collected?
- Partner team/alliances by pillar: other institutors to be included?/ main collaborations... regional + national

- Recommendation for SOM

Main conclusions:

- To include the Ministries of Production as team leaders the policy pillar
- To create a protocol for upload and update information on the observatory site once this is running (info indexed)
- To include information in both idioms (Spanish/English)
- To identify what is needed for LAC region taking advantage of the good knowledge on this region

Progress on the proposal for Capacity Building & Bioeconomy Awareness Raising

Guy Henry, Center of Agricultural Research for Development (CIRAD). France

Mr. Guy Henry, from CIRAD introduced the general objective of capacity Development and presented the proposal to promote awareness raising of the Bioeconomy in the region.

Mr. Guy pointed out that raising awareness about the bio-economy potential for the region and capacity development is central for the development of the bioeconomy in the region. Four target groups were identified: politicians and policy makers, the scientific and academic community, the private sector, and consumers (including NGOs).

The main hurdles to overcome by this Awareness Raising Initiative were exposed including, (a) politicians and policymakers: overcome the lack of a bioeconomy policy perspective and the lack of institutional recognition of the bioeconomy as a model for sustainable and inclusive sustainable development; (b) scientific and academic community: overcoming the lack of of scientific capacities and technical resources; (c) private sector: providing evidence of the market opportunities for profitable business development; and (d) consumers: playing a key role in the acceptance of bio-economy products.

Objectives of ARI LAC-Bioeconomy were defined as follow:

- To promote a better understanding of the bioeconomy concept with special focus on the biobased economy
- To promote policy dialogue, exchange and understanding among public and private bioeconomy stakeholders.
- To strengthen understanding of the potential of the bioeconomy and bioeconomic growth for inclusive, competitive and sustainable development.
- To systematize successful bioeconomy experiences in the region, especially on market and business development, public-private collaboration, university-business collaboration.
- To promote exchange of successful bioeconomy experiences from the region at local, national and regional levels.
- To promote the integration of value chains and the cascading approach (food/feed – Materials/chemicals – Energy) in the biorefinery approach.
- To explore other bioeconomy pathways that could be of interest at national levels, in addition to the six pathways identified in ALCU-KBBE.

Main conclusions:

- Open access to the on line courses and material (library on bioeconomy)

- Raise awareness as part of the Observatory tasks
- Build scenarios that shows Senior Officials the “idea” of the Bioeconomy (include economics data info)

Progress on the proposal for Topics

Selva Pereda, PLAPIQUI, Argentina

During the topic proposal session, the idea was to go forward the final topics that the SOM Working Group (WG), will present to the funding agencies for the 2nd Joint Call in the framework of the ERANet LAC project. The SOM WG together with ALCUE NET has been working on the following topics: Biorefineries, Eco intensification and Biotechnology. The topic draft profiles were distributed among participants before the meeting.

During this specific session the topics were presented by Ms. Selva Pereda and were put for consideration to the participants (focus on the biorefineries tacking advantage of the Biorefineries international conference) in order to be reformulated.

The biorefineries topics were reformulated regarding i) challenge, ii) scope, iii) expected impact iv) bi-regional interest, v) research and innovation focus (SME participation)

The following inputs for the RRB-11 Conference were taking into account as brainstorming for the formulation of topics:

- Availability of land water and sun (sustainability)
- Culture technology for biomass production
- Whole system design & evolving process
- New chemicals (green chemistry)
- Competitiveness against oil based industry
- Green nanotechnology

Meeting closure: Guy Henry & Luciana Ayciriex.

ANNEX I: Events Agendas

11th International Conference on Renewable Resources and Biorefineries

Park Inn Hotel, York, UK

THURSDAY, JUNE 4

09.00-10.40	<u>Parallel Sessions</u>
	3A - Biocatalysis for bioresource transformation - I
	3B - Bioproducts from woody biomass
	3C - Plant cell wall modification - I
10.40-11.15	Coffee and Exhibition
11.15-12.55	<u>Parallel Sessions</u>
	4A - Bioenergy
	4B - Pretreatment and transformation of lignocellulosics - I
	4C - Nutrient & Energy Cycling - I
12.55-13.45	Lunch
13.45-14.45	Poster Tour 1
14.45-16.25	<u>Parallel Sessions</u>
	5A - Biocatalysis for bioresource transformation - II
	5B - Thermochemical transformations of biomass
	5C - Nutrient & Energy Cycling - II
16.25-16.45	Coffee Break and Exhibition
16.45-18.25	<u>Parallel Sessions</u>
	6A - Biorefineries - I
	6B - Chemical platform molecules
	6C - Policy and Standards
20.00	Conference Dinner

FRIDAY, JUNE 5

09.00-10.40	<u>Parallel Sessions</u>
	7A - Biorefineries - II

	7B - Downstream Processing
	7C - Valorisation of biomass waste streams – II
10.40-11.30	Coffee Break, Exhibition and Poster Tour 2
11.30-12.15	Keynote Lecture 3 AlCl ₃ -catalyzed conversion of renewable carbohydrates into platform chemicals <i>Changwei Hu - Key Laboratory of Green Chemistry and Technology, Ministry of Education, Sichuan University, P.R. China</i>
12.15-13.55	Parallel Sessions
	8A - Metabolic engineering of fermentation processes
	8B - Micro and macro algae technology
	8C - Pretreatment and transformation of lignocellulosics – II
13.55-14.00	Presentation of the 4th Golden Crop Award
14.00-14.15	Closing Remarks and presentation of RRB-12
14.15	Farewell Lunch

Latin America and Caribbean - European Union
Matchmaking Event on Bioeconomy
June 5th 2015 – Kings Manor, York, UK
Exhibition Square

Time	Topic	Speaker
Morning session – LAC Bioeconomy Introduction & Matchmaking		
08:30 – 09:00	Opening session: Welcome and Introduction ALCUE NET Project + Bioeconomy SOM WG	Luciana Ayciriex, ALCUE NET Coordinaton MINCYT, Argentina
09:00 – 10:00	Bioeconomy concept in the LAC region: Current status, Potential and Opportunities building on successful experiences	Guy Henry, CIRAD/CIAT, FR/COL
10:00 – 10:30	ALCUE Bioeconomy project results: book presentation “Towards a Latin America and Caribbean Knowledge Based Bio-Economy in partnership with Europe”	Elizabeth Hodson de Jaramillo, Pontificia Universidad Javeriana, Colombia
10:30 – 10:45	<i>Coffee break</i>	

10:45 – 12:10	Short Individual Presentation of each participants (10') : country, activities and expectations	Moderator: Luciana Aycirix, MINCYT, Argentina
12:10 – 12:20	H2020 and other calls opportunities for a Bioeconomy EU-LAC collaboration, ERA-NET Joint call	Guy Henry, CIRAD/CIAT, FR/COL Cindy Van Hyfte, CIRAD, FR
12:20 – 12:45	European and Latin American Technology based Business Network (ELAN2), EuropeAid project	Soledad Peresin, VTT, Finland
12:45 - 14:30	MATCHMAKING session including Working Lunch: thematic discussion tables to pre-arranged one-on-one meeting according to EU-LAC cooperation interests	
Afternoon session I – LAC-EU Bioeconomy Panel Discussion		
14:30 – 15:45	Panel Discussion : critical reflection and dialogue about Bioeconomy LAC-EU collaboration, constraints and opportunities	Moderators: Ivan Ingelbrecht, Ghent University, Belgium Rodrigo Navia, Universidad de la Forntera, Chile
15 :45 – 16:00	Next steps and Closing remarks	Guy Henry, CIRAD/CIAT, FR/COL
16:00 – 16:10	Evaluation questionnaire for the event (to fill)	
16:00 –16:30	Coffee break	

Latin America and Caribbean - European Union Bioeconomy SOM Working Group session

Time	Topic	Speaker / moderator
Evening session II – Bioeconomy SOM Working Group		
16h30 – 19h	ALCUE NET WP4 on SOM JIRI Bioeconomy WG: Activities carried out and expectations from the ALCUE NET	Guy Henry, Luciana Ayciriex
	Progress on the proposal for the LAC Observatory Discussion	Luciana Ayciriex, MINCYT, Argentina
	Progress on the proposal for Capacity Building Progress on the proposal for Bioeconomy Awareness Raising Discussion	Guy Henry, CIRAD/CIAT, FR/COL
	Progress on the proposal for Topics Presentation of the 3 topics for the 2nd Joint	Selva Pereda, PLAPIQUI, Argentina

	Call • Re/elaboration of a topic proposal for Biorefineries. • Discussion Meeting closure	Ulrich Schurr, Research Centre Juelich, Germany Guy Henry, CIRAD/CIAT, FR/COL
19:00	<i>Partners Dinner (place to be defined)</i>	

ANNEX II: ALCUE NET POSTER

LATIN AMERICA AND CARIBBEAN BIOECONOMY: GLOBAL AND REGIONAL ROLES TO PLAY

The Latin American and Caribbean region is particularly well placed to contribute and benefit from the emerging bioeconomy. Its extensive and diverse natural resources paired with a dynamic economy and growing human resources offer a good foundation for a robust future bioeconomy. The region has over 50% of its lands classified as having agricultural potential, with projections for 2050 highlighting that more than 300 million HAS could be brought into production, offering a basis for a strong bioeconomy contributing both to food security and energy objectives, and with important social opportunities. Biodiversity resources in the region are also significant, with some of the world's most important biodiversity hotspots.

These resources are already supporting an emerging biobased economy. There already are substantial in-roads in the biofuels sector as well as in key technologies such as biotechnological applications and eco-intensification practices. Brazil practically dominates the international ethanol trade market and countries like Argentina are key players in the biodiesel markets. LAC is the only region in the world that would be able to meet its energy requirements based on "bio" alternatives.

The region is also a prominent player in biotechnology exploitation. Ten of the 28 countries in the world that are using GM technologies in 2014, are in Latin-America, with four of them - Brazil, Argentina, Paraguay and Uruguay – accounting for more than a third of the world's GMO cropping area. Latin American countries are strong in some of the ecological intensification practices, especially "zero-tillage", with more than 45 million has, under this form of cultivation (Trigo et al., 2009).

These resources and experiences highlight the importance of bioeconomy pathways for the LAC region and the contributions that they can make both to global equilibriums and to regional challenges. It is clear that whatever future scenario one anticipates for the global bioeconomy, LAC has a distinctive role to play. At the same time, the region has a challenge of its own. At the global level, the region has a critical role in contributing to global food, fiber and energy balances, while improving environmental sustainability. Within the region's boundaries, the emerging bioeconomy is a new source of opportunities for equitable growth through improved agricultural and biomass production.

ANNEX III: Full participants list

ALCUE NET Latin America and Caribbean - European Union Matchmaking Event on Bioeconomy			
Country	Institution	Last Name	Name
Argentina	Universidad Nacional del Sur/ Planta Piloto de Ingeniería Química	Pereda	Selva
	Ministerio de Ciencia Tecnología e Innovación Productiva	Ayciriex	Luciana
	Univerity of Buenos Aires	Gerschenson	Lia
Austria	Ecosocial Forum	Matzer	Clemens
Barbados	Caribbean Science Foundation	Wint	Sandra
Brazil	Centre for Strategic Studies and Management	Paula Oliveira	Antonio Geraldo
Belgium	Ghent University	Ingelbrecht	Ivan
Chile	Universidad de la Frontera	Jeison	David
	Universidad de la Frontera	Navia	Rodrigo
	Universidad de Concepción	Berg	Alex
Colombia	Pontificia Universidad Javeriana	Hodson	Elizabeth
Costa Rica	School of Industrial Engineering	Quirós	Roberto
Finland	Technical Research Centre of Finland	Peresin	Soledad
	Aalto University, School of Chemical Technology, Department of Forest Products Technology	Rojas	Orlando
France	Centre de coopération internationale en recherche agronomique pour le développement	Henry	Guy
Spain	Ministerio de Economía y Competitividad	Climent	Juan
Uruguay	Alcoholes del Uruguay S.A.	Sadres	Marcelo
United Kingdom	University of York	Clark	James
United Kingdom	University of York	Herrero Davila	Lorenzo

ANNEX IV: Acronyms and abbreviations

ALCUE	América Latina y Caribe – Unión Europea
ALCUE NET	Latin America, Caribbean and European Union Network on Research and Innovation
ALCUE-KBBE	Towards a Latin America and Caribbean Knowledge Based Bio-Economy in partnership with Europe
CELAC	Community of Latin American and Caribbean States
CIAT	International Center for Tropical Agriculture
CIRAD	Centre de Coopération Internationale en Recherche Agronomique pour le Développement (France)
ERANet- LAC	Network of the European Union, Latin America and the Caribbean Countries on Joint Innovation and Research Activities
ERA-Nets	European Research Area Networks
EU	European Union
EULAC	European Union, Latin America and the Caribbean
JIRI	Joint Initiative for Research and Innovation
LAC	Latin America and the Caribbean
MINCYT	Ministerio de Ciencia, Tecnología e Innovación Productiva (Argentina)
NCPs	National Contact Points for the Seventh Framework Programme
R&D	Research and development
R&I	Research and innovation
RTD	Research & Technological Development
S&T	Science & Technology
SOM	Senior Officials Meetings
STI	Science Technology and Innovation
WG	Working Groups

