

BBChina

*Master Program
on Bio-Based Circular Economy*

Final QA Report

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Document information

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Acronyms and abbreviations

ECTS	European Credit Transfer System
ETNA	Education Needs Assessment
HEI	Higher Education Institution
IAB	International Advisory Board
KOM	Kick-Off Meeting
PAU	Project Activity Unit
PMU	Project Management Unit
QAP	Quality Assurance Plan

1 About the Project

The BBChina project aims to the development of skills in the bio-based economy sector in the involved Chinese University into a frame of European HE standards, addressing needs and planned government policies and plans (such as the 13th Five-Year Plan on the Development of Biomass Energy) of the Partner Country. To reach this target, the wider objective is to provide next generation of Master's graduates with a significant intellectual heritage and background in the bio-based economy field, locally and globally exploitable in labour market, self-entrepreneurship and research as well as in policy making and planning.

The specific objective is to integrate Chinese's HEIs system with a still missing Biomass to Energy and Bioproducts curriculum, starting from teachers training and updating of teaching tools, encouraging, at the same time, suitability of evaluation schemes with those of EU.

The Master Course aims to strengthen student's interpretation skills, problem solving, self-entrepreneurship and internationalization. Moreover, it fostered internationalisation processes, both scientific and commercial, through direct contact with active professional figures in the field.

Project activities:

- Education and training needs assessment in Partner Country.
- Chinese academic staff mobility to EU HEIs aiming to upgrade specific professional knowledge and skills for newly developed course through the participation in lectures, carrying out test in laboratories, visiting test fields and power plants.
- Development of syllabus based on EU partners' best practises and SWOT Chinese of HEIs.
- Development of e – learning platform and courses for online studies in Chinese HEIs.
- Implementation of an international online Master Course on Bio based Economy in Chinese HEIs.
- Students' mobility to EU HEIs aiming to gain international learning experiences in multidisciplinary contents.
- Train the trainer workshop for Chinese academic staff to develop trainer's skills in the field of entrepreneurship and students' teaching for the mentioned topic.



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2 Executive Summary

This document provides information about the main BBChina quality control processes regarding the implementation of project activities during the lifespan of the project. As such, it describes requirements and procedural regulations as far as these are needed for a common uniform approach to completion of the project. It indicates which activities will be carried out by the partnership, what methodology and standards were applied for quality control and indicates responsible parties involved in quality assurance process. Moreover, KPIs are presented.

The quality plan was designed to provide the framework for the practical assessment of quality. It **includes:**

- the main elements of the project, objectives, the partnership and the roles of the partners, the work package, the results achieved;
- the quality standards envisaged, the documents and reference elements from which the results of the project can be evaluated;
- quality management process and evaluation, with methods, work plan and indicators of progress and performance.

3 Partners and Roles

The BBChina project is represented by the Consortium of 7 organisations (3 EU HEIs, 3 HEIs from China and 1 EU NGO), moreover the project activities are supported by associated partners operating in bioenergy/bioproducts sector. Main activities of all partners are presented below:

- European HEIs guarantee the development of a complete curriculum on Biomass to Energy and Bioproducts.
- Chinese HEIs will be actively involved in setting up of a master course, defining its final structure, testing it with local students.
- CESIE's (NGO) will prepare the e-learning platform considering users level and to train Chinese professors for platform's usage as teaching tool, moreover will also coordinate the action to train students in the principles of entrepreneurship and co-coordinate WP Quality Control.
- EU Associated partners will support mobility, hosting visits to their plants/labs/premises, in order to show teachers and students a wide range of applied solutions according to available local resources.
- Chinese Associated Partners will help connecting graduating students with labour market establishing durable quality standards of proposed internships.

Table 1. Role of partners in the BBChina project

Nr.	Partner Name	Country	Role
P1	University of Florence (UNIFI)	Italy	Coordinator WP1 Lead WP9 Lead
P2	University of Rostock (UROS)	Germany	WP3 Lead
P3	Mälardalen University (MDH)	Sweden	WP2 Lead
P4	Tongji University (TJU)	The People's Republic of China	WP4 Lead WP10 Lead
P5	East China University of Science and Technology (ECUST)	The People's Republic of China	WP6 Lead
P6	Sichuan University (SCU)	The People's Republic of China	WP5 Lead
P7	CESIE	Italy	WP7 Lead WP8 Lead

4 BBChina Project Organisation

4.1 Management structure

The BBChina project management and administration was performed by Grant Applicant through the establishment of:

- **Coordinator:** performed task overview and control since it was responsible for both activity and administrative management and interactions between IAB and 1st party auditor (CESIE).
- **Project Management Unit (PMU):** two representatives of UNIFI and one representative from each beneficiary – 5 PMU meetings are scheduled.
- **EU Task Unit:** one person each belonging to UNIFI and CESIE.
- **Project Activity Unit (PAU):** for Chinese HEIs beneficiaries internal organisation and supervision of activities; coordinated locally by TJU; it includes representatives from Partner Country HEIs and the EU task unit. 5 PAU meetings are scheduled.
- **IAB – International Advisory Board:** 2nd party auditor, external peer reviewer, since its members do not belong to any partner organisation.
- **1st Party Auditor:** CESIE.

Five PMU and five PAU meetings were foreseen in addition to kick off and final meetings. These meetings were strategically positioned at key activity steps, in order to verify the correct carrying out of activities and to ensure an efficient distribution of budget to ongoing activities.

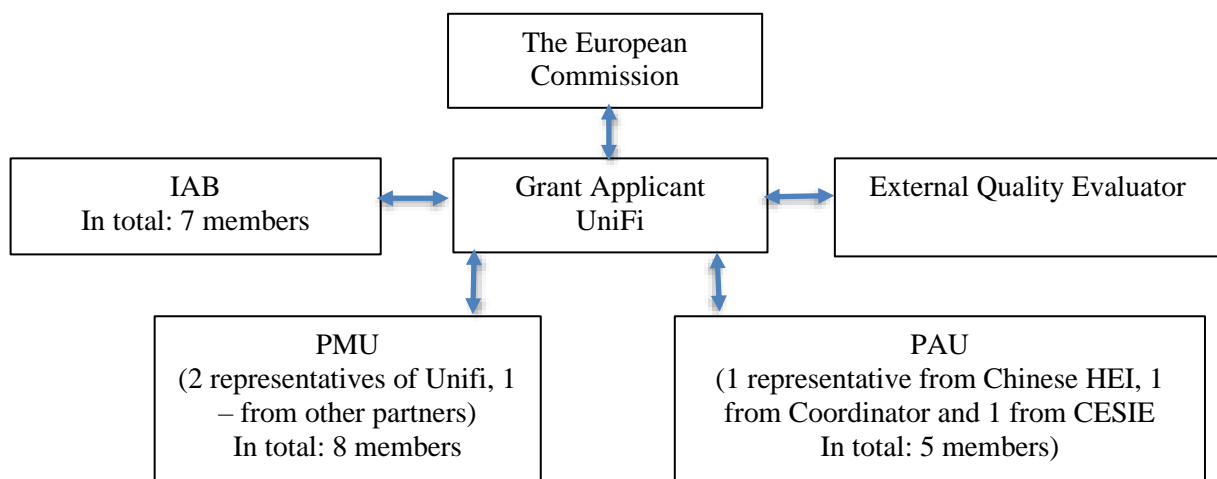


Figure 1. BBChina management structure

The project was divided into 10 Work Packages managed by the WP Leaders (see Table 2). **WP Leaders are responsible for:**

- coordination of the work of the WP;
- reporting to the coordinator and partnership when required for project management;
- ensuring a proper and timely execution and submission of the WP outputs and outcomes;
- implementation of project management decisions in their WP;
- organisation of periodic or technical meetings with partners regarding the WP implementation.

Table 2. Project WPs

WP Nr.	Type	Title
WP1	Management	Management
WP2	Preparation	Master Course Definition
WP3	Development	Master Course Implementation
WP4	Development	Mobility of Teaching Staff
WP5	Development	Mobility of Students
WP6	Development	Recruitment
WP7	Development	E-learning Platform Development
WP8	Development	Implementation of Actions Supporting Education and Training
WP9	Quality Control	Quality Control
WP10	Dissemination and Exploitation	Dissemination and Exploitation

Due to the COVID-19 impact, the two last years of the project were implemented without physical meetings.

4.2 Collaborative cloud platform

To ensure information/documents/knowledge sharing within the project, Partnership agreed to use cloud collaboration platform - ownCloud. The ownCloud is a suite of client-server software for creating file hosting services and using them. The collaborative cloud platform tool is maintained and administrated by University of Florence and access to it is available via this link: <http://newton.dief.unifi.it/owncloud>. The documents on the Collaborative cloud platform are organised into main topics: Administration, Dissemination, Meetings, Work Packages (see Figure 2).

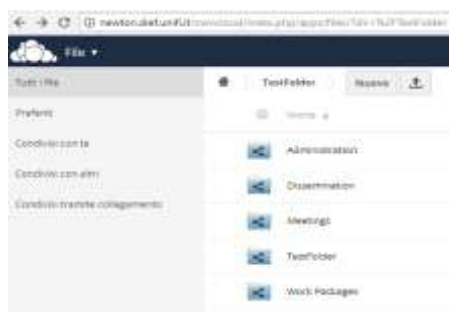


Figure 2. BBChina cloud collaboration platform - ownCloud

Each partner has a unique login and password, which was communicated to a partner on 11 of January 2018 by the Coordinator – Eng. L. Nibbi via email. Any requests for new accounts or right access were addressed to the coordinator via email: leonardo.nibbi@unifi.it.

All the final reports are available for a wider public as well via website: [Reports – BBChina](#).

4.3 Consortium meetings

The project internal meetings decided upon from the beginning of the project and are updated during the kick-off meeting (KOM) on 01-02 of February 2018. An overview of initially planned PMU and PAU meeting is presented in the Table 3. Final Meeting (FM) was planned in Florence for 29-30 of September 2020.

However, due to the worldwide pandemic, the plan and duration of project were modified accordingly. The new duration of the project: 4 years. Starting from the February, 2020 all the project meetings were organised virtually, normally using the Zoom platform or WeChat app for an effective communication.

For visibility, accountability, and exploitation reasons, during the meetings either photos or video recordings were taken.

In October 2021 the final meeting was organised online. During the meeting partners shared the knowledge gained and exchange opinions about the four-year project implementation.

Table 3. Project Meetings – initial plan

PMU (Project Management Unit)	PAU (Project Activity Unit)
Aim: meetings will be dedicated to financial and administration issues, evaluation of input and outcomes and project’s needs.	Aim: meetings will be dedicated to verifying the efficient implementation of precious actions and to forward next activities as planned.
Dates and Places: <ol style="list-style-type: none"> 1. 26-27/08/2018 – SCU, Chengdu 2. 17-18/01/2019 – MDH, Västerås 3. 18-19/06/2019 – UROS, Rostock 4. 19-20/09/2019 – TJU, Shanghai 5. 23-24/04/2020 – ECUST, Shanghai 	Dates and Places: <ol style="list-style-type: none"> 1. 08-09/06/2018 – TJU, Shanghai 2. 21-22/10/2018 – ECUST, Shanghai 3. 04-05/05/2019 – SCU, Chengdu 4. 08-09/12/2019 – ECUST, Shanghai 5. 04-05/06/2020 – TJU, Shanghai

Additional Explanation of mobility flows:	
PMU: 1 staff person per partner will take part to the PMU, except for Coordinator (UNIFI) who will participate with 2 persons from staff.	PAU: Regional (China) Project Activity unit; 1 participant from each Partner Country institution (TJU, ECUST and SCU), 1 participant from UNIFI as the coordinator and a CESIE's operative will be present. PAU coordinator will be TJU.

Important notes:

- After the meeting the hosting partner prepared minutes and upload them on the collaborative cloud platform together with the List of Participants, signed by each participant.

4.4 Cooperation arrangements and tasks distribution

According to the project application, cooperation arrangements and tasks distribution was organised to obtain an equal workload among partners, well related to funds allocation:

- Each involved Programme Country HEI was responsible of its share in curriculum preparation and development, international mobility (staff and students) activities and financial reporting, even if details of each of these tasks will be previously agreed between partners.

CESIE managed didactic approach, e-learning development and delivery and support the applicant in the quality assessment as a 1st party audit.

Chinese HEIs will find their local coordinator in TJU since this beneficiary is entrusted for leading the dissemination action and due to the already existing strong links with the coordinator (active cultural and scientific agreement, Confucius Institute of Florence hosted at UNIFI, etc.)

Each Chinese university, under supervision of UE HEIs, cooperated with the local Associate Partner especially in active seeking for valuable internship experiences to be implemented in Master Course and student's profile building and implementation on the website, in order to provide them high visibility in labour market. This was challenging due to pandemic however 49 agreements with the companies for placements were established.

- Each partner was involved in self and overall evaluation, activity and curriculum development during PMU, project's web dissemination and updating.

5 Quality Assurance and Control

5.1 Guidelines on Quality Assurance Documentation for Higher Education Institution

Implementing the project and following good EU practices and to ensure quality, Higher Education Institution considered these main documents/processes:

1. The BBChina Erasmus + application form - the main document of the project, which describes all the project action. It also contains a detailed description of all work packages, as well as quality control and monitoring mechanisms.
2. The Bologna Process, started in 1999 with the signing of the Bologna Declaration, is a set of reforms aimed at bringing higher education systems closer together in Europe to create a European Higher Education Area. The Process makes possible the mobility of students between different countries of Europe, the mobility of non-European people to study and work in Europe, the recognition of qualifications and periods of study between different countries in Europe through a points system / credits.

In the context of the Bologna Process, the quality of a curriculum is demonstrated if:

- the program is relevant to society;
 - it leads to employment;
 - it prepares for citizenship;
 - it is recognized by academia and is sufficiently transparent and comparable to facilitate mobility and the recognition of qualifications;
 - it is attractive to appeal to a significant number of students;
 - its approach is adequate to achieve its objectives.
3. Proposed by the European Association for Quality Assurance in Higher Education (ENQA) and other associations, and adapted by the Ministers of Higher Education in 2005, the "References and guidelines for quality assurance in the European Higher Education Area (ESG)" are intentionally generic guidelines that aim to contribute to a common understanding of quality assurance in learning and learning across borders and by all stakeholders. They serve for internal and external quality assurance in higher education.
 4. Proposed in 2006 by the European Commission, the European Qualifications Framework (EQF) applies to all types of education, training and certification and aims to establish links between the certification systems of the different countries ordered in levels describing the knowledge, skills and competences of a learner, in relation to a common European reference framework. It is now being edited.
 5. The project "Tuning educational structures in Europe", started in 2000, was the response of a group of universities in Europe to the Bologna process. The project aims to identify reference points for the general and specific competences of two cycles of higher education, and also to provide a common language in the description of curricula. The Tuning methodology comprises five elements: 1. General skills; 2. Specific skills; 3. The role of ECTS; 4. Approaches to teaching and learning; 5. Quality improvement in the teaching process.

In short, the quality of a curriculum according to the Tuning methodology is demonstrated if:

- there is an identified and agreed need;
- the professional profile is well described;

- the corresponding learning outcomes are expressed in terms of skills;
 - the allocation of credits to the units is correct;
 - approaches to / from teaching, to / from learning and / from evaluation are appropriate.
6. The accreditation standards of the Ministry of Education of the People's Republic of China, which represent the legal framework for the accreditation of the new curriculum created by the project. These standards are also reference documents for the project and support its sustainability after the end of the project, and they must be provided to the internal evaluator by the leading universities of the action country. Regarding the present action, the BBChina program adds a new research orientation under the existent second-level discipline (such as Environmental Engineering, Mechanical and Power Engineering, etc.), so it does not need accreditation by the national level. The Master Program has been approved by the boards of each involved College/School in 2019. This is extensively explained in report 2.3.
7. Additionally, The European Quality Assurance Framework for Education and Vocational Training (CERAQ), which defines the common criteria for improving vocational education and training systems in EU countries in accordance with their national approaches.

5.2 Introduction and objectives of quality control

In project management, measures of quality assurance and control are envisaged with a view to ensure the quality of results as well as of methods and procedures used to manage the project life-cycle and to allow for the development of its results.

Each project year is divided in **sub periods** in which activities are planned, developed and checked. Each package is the logical consequence of the previous and acts as a boost for the following one. Since any PMU and PAU meetings were scheduled in order to validate and uptake input elements and to produce output elements for following activities, they acted as “re-examination of high direction moments”.

According to the Logical Framework quality control and monitoring has been divided with the following distribution:

<p>Wider and overall objectives, such as:</p> <ul style="list-style-type: none"> - evaluability of Master Course, improvement of student’s skills, suitability of workload for evaluation in ECTS, will be submitted to IAB feedback and validation. - Long experience and international relevance of IAB members will ensure reliability of their appraisal in this activity. - Compliance with Bologna Process will be assessed during year 1 by a first feedback on “syllabus” draft, and with a validation when “syllabus” will be definitive. - In order to verify a good implementation of Biobased Economy 	<p>Specific indicators and benchmarks provided in the Quality Plan and approved by all partners. Monitoring of specific indicators will be performed continuously in PMU and PAU meetings and following coordinator reports that will be submitted to the CESIE’s expert feedback. Following guidelines of logical framework and intervention strategy, student’s involvement will be considered satisfactory once reached the number of 45 (15 per each Chinese University) students with adequate level to join the course after performing the admission exam. Since interactions between academic environment and labour market is a priority in BBChina, agreements for internships to be held across the first and the second year of Master Course will be evaluated both in qualitative and quantitative</p>
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curriculum, IAB will be asked to feedback on the comparison report between ex ante and ex post evaluation of students, carried respectively at the admission exam and at the end of the first year of MC lessons (month 11 of 3rd project year) with the project work after EU students' mobility.	impact. The expected result is to obtain, agreements for almost 75% of 45 students in valuable companies both for employees' number (over 50), and annual revenue (over 2 million €).
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5.3 Quality control and monitoring in BBChina

Quality control and monitoring was implemented during the whole project duration, and it referred to relevant European tools, namely:

- [European Credit Transfer and Accumulation System \(ECTS\)](#) which shall be used as a reference for the adoption of a conversion system from Chinese Credits to ECTS.
- [Bologna Process](#), which started in 1999 with the signature of the Bologna Declaration as a series of reforms aimed at linking the Higher Education systems in Europe to create a European space of higher education.
- [ISO system](#) quality management principles were followed and adapted with a view to manage workflow through a “continuous improvement cycle”.

5.4 Actors involved in Quality Assurance, Control and Monitoring

During the project development phase, the partnership decided to choose this structure to ensure quality assurance, control and monitoring of BBChina (see Table 4).

Table 4. Actors involved in Quality Control and Monitoring

Partner	Description of roles
UNIFI	Internal Quality assessment was performed by the coordinator. As well, the coordinator involved the IAB members in the project QA process actively.
CESIE	1 st party auditor
IAB	2 nd party auditor
External evaluator (Subcontracted actor)	At the end of the project an external evaluator was subcontracted by CESIE to evaluate the project implementation and the extent of the success and provide recommendations for the HEIs to follow-up. The report was developed in September 2021 and shared with the partners. It is presented on the website as well.

5.5 Role of International Advisory Board and communication process with other Consortium members

IAB validated project's compliance with overall goals, acting as an external peer reviewer, since its members do not belong to any partner organisation or they are not, at least, involved into the Project's activities. Members of the IAB were confirmed by the Partnership during the KOM (see Table 5).

Table 5. Members of the IAB

Person	Position	Email / Website of Organisation
Mr. Dongxiao Shi (Male)	Senior Engineer, Director of Changzhou Solid Waste Management Centre	Email: shidongxiao.2008@163.com
Prof. Achim Loewen (Male)	Professor at the University of Applied Sciences and Arts Hildesheim/ Holzminden/ Goettingen	Email: achim.loewen@hawk-hhg.de Website: https://www.hawk-hhg.de/en/
Dr. Zhen-Hong Yuan (Male)	Chief scientist at Bioenergy Center, Guangzhou Institute of Energy Conversion (GIEC), Chinese Academy of sciences(CAS).	Email: yuanzh@ms.giec.ac.cn Website: http://english.cas.cn/
Prof. Marco Baratieri (Male)	Associate Professor of Industrial Technical Physics at the Faculty of Science and Technology, Free University of Bozen-Bolzano, Italy.	Email: marco.baratieri@unibz.it Website: https://www.unibz.it/it/
Prof. Xing Ji (Male)	Director of the Biodiesel Lab, China University of Petroleum-Beijing	Email: happyjixing@yahoo.com Website: http://www.cup.edu.cn/english/
Dr. Filippo Garini (Male)	formerly Expert in green business at EFESO Consulting in Shanghai, China, presently Associate Professor/Lecturer in Marketing at Xi'an Jiaotong – Liverpool University.	Email: filippo.garini@xjtlu.edu.cn Website: http://www.xjtlu.edu.cn/
Dr. Ms. Lixin Zhao (Female)	Director of Institute of Energy and Environment Protection, Chinese Academy of Agricultural Engineering	Email: zhaolixin5092@163.com Website: http://www.caas.cn/en/

The tasks of the IAB were:

- to give feedback to ETNA report;
- to provide a feedback on “Syllabus” development;
- one feedback on the comparison between ex ante and ex post evaluation of students;
- one final comment to the results of the external evaluation;

Communication with the IAB was organized through the Coordinator. IAB feedback on ETNA report was developed in September 2018, IAB Feedback on “Syllabus” – March 2019, IAB feedback – October, 2021.

5.6 Ensuring short- and long-term impact

During the project evaluation, diverse tools were used to evaluate project outcomes and results:

- Quality evaluation sessions after the partnership meetings,
- Individual quality assurance systems (Coordinator – Partner Organisation)
- Online surveys for students and partners (via moodle)
- IAB external feedback
- External Evaluation.

The Quality Assurance process supported an appearance of a short- and long-term impact on target groups and potential beneficiaries (see Table 6).

Table 6. Overview of short- and long-term impact indicators

Short term impact	Target groups/potential beneficiaries	Quantitative indicators	Qualitative indicators
Modernization of curricula in Physical sciences, Engineering, Agriculture, Forestry and Environmental protection	Teachers and students	46 Academic Staff Members (From PhD to Full Professors) have been trained by means of the Courses Development (including the entrepreneurship course), in collaboration with the European HEIs, and of a Staff Mobility action in Europe. As of September 2021, the Program started its third edition. In total 101 students already joined the Master Program, with 55% Male Students, and 45% of Female Students.	<i>Quality indicator:</i> <ul style="list-style-type: none"> • <i>content development and establishment of the programme</i> • <i>Students' preparation for the course in English</i>
Multidisciplinary curriculum	Students Biobased economy sector operators	Quantity and modularity of subjects available in the curriculum	<i>Quality indicator: 49 companies addressed their interests in student's placement</i>

Long term impact	Target groups/potential beneficiaries	Quantitative indicators	Qualitative indicators
Master Course establishment and growth	Chinese HEIs and educational institutions	Number of HEIs which will exploit the developed curriculum – 3	Third year enrolment at Chinese HEIs
Employability of graduates	Students	Number of Master Course graduated employed: The students of the first edition are still under completion of their final thesis. This data is not available.	Better knowledge on entrepreneurship and (self) employability
Interactions in R&D	HEIs, Students, RES operators	3 laboratories at Chinese HEIs	BBChina equipment ready for lab training use within Chinese HEIs
Further cooperation between UE and PC HEIs	Teachers, Students, Researchers, RES operators	Number of projects, traineeships joined or developed starting from the original consortium: Regarding EU-China collaboration for students: the first EU-China internship is under implementation at the end of the project eligibility period: following the agreement signed in October 2021, NOVAMONT is selecting a BBChina student for an internship in its Research Labs in Novara, Italy. Further actions will be carried on as soon as travel restrictions will be canceled.	Co-Organisation of the Panel “Higher Education and Training on Renewable Energy Topics: Open issues, Present Status and Future Development” at ICAE 2018 with Presentation of the BBChina project Presentation of BBChina Project at IFIB 2018, Torino within the satellite event “Education as a main pillar of the EU Bioeconomy Strategy” Paper presenting BBChina published on “Energy Procedia” Nibbi, Chiamonti, Palchetti "Project BBChina: a new Master Program in three Chinese Universities on Bio-Based Circular Economy; from Fields to Bioenergy, Biofuel and Bioproducts", Energy

5.7 Project outputs and outcomes

The below presented table (see Table 7) describes all outcomes and outputs of the WPs, which were developed by the Consortium and checked and controlled by the WP9 Leader and Co-Leader.

Table 7. Project outcomes and outputs

WP	Deliverable	Output/Outcome and Indicator	Due to (planned by application) - Updated Deadline	Lead Partner	Language
WP1	1.1 BBChina kick-off meeting	Minutes (1)	02/2018	UNIFI	ENG
	1.2 PMU meetings	Minutes (5)	04/2020 Updated: 1PMU: 08/2018 2PMU: 01/2019 Online 23/03/2020 Online 03/07/2020 Online 03/11/2020 Online 05/01/2021 Online 12/03/2021	UNIFI	ENG
	1.3 PAU Meetings	Minutes (5)	After the meetings	UNIFI	ENG
	1.4 Final Meeting Final Conference	Minutes (1) Viderecording	27-28/09 2021	UNIFI	ENG
	1.5 Meeting Minutes	Report (1)	14/10/2020	UNIFI	ENG
	1.6 Project Management and Coordination	Interim and Final Report (2)	10/2021	UNIFI	ENG
	1.7 Financial Audit	Report (1)	12/2021	UNIFI	ENG
WP2	2.1 ETNA	Report (1)	10/2018	MDH	ENG
	2.2 IAB feedback on ETNA	Report (1)	09/2018	IAB	ENG
	2.3 Syllabus development	Syllabus (6)	03/2019	MDH	ENG
	2.4 IAB Feedback on "Syllabus"	Report (1)	03/2019	IAB	ENG
WP3	3.1 1st semester 1st Year teaching and learning material organization and development	Learning material (1 for each course) – 3 corsi sviluppati	06/2019	UROS	ENG
	3.2 2nd semester 1st Year teaching and learning material organization and development	Learning material (1 for each course)-no , 05/10/2019	10/2019	UROS	ENG
	3.3 Report on improvement suggested from Students	Report (1)	04/2020 Updated: 05/2020	UROS	ENG
	3.4 Improvement of teaching and learning material	Updated learning material	09/2020	UROS	ENG
	3.5 Master Course implementation	Master Course description (1)	10/2020 Updated: 10/2020	UROS	ENG

	3.6 Approval of the Master by the three University Boards	Internal documents of approval (3) – Leonardo has, should be uploaded	02/2019 Updated: 06/2019	UROS/ SCU/ TJU/ ECUST	EN, CN
	3.7 Equipment for common lab practice	Internal documentation on equipment (3 Chinese HEIs)	08/2019	UROS/ SCU/ TJU/ ECUST	ENG
WP4	4.1 Preparation of Mobility of Teachers in EU	Mobility guidelines and 2 mobility action implemented	10/2019	TJU	ENG
	4.2 Mobility of Teachers in EU	Mobility Report (1)	20/12/2019	TJU	ENG
	4.3 Report on Mobility of Teachers in EU	Mobility report (1)	09/2019	TJU	ENG
WP5	5.1 Preparation of Mobility of Students in EU	Mobility guidelines (1) – N/A due to COVID 19	05/2020	SCU	ENG
	5.2 Mobility of students in EU	Due to COVID 19 – implemented online	07/2020	SCU	ENG
	5.3 Report on Mobility of Students in EU	– N/A due to COVID 19	09/2020	SCU	ENG
WP6	6.1 Networking for internships	49 companies involved	12/2019	ECUST	EN, CN
	6.2 Dissemination and recruitment for next class	Report of dissemination and recruitment activities (3) Report "6.1 – Networking for Internships	10/2021	ECUST	EN, CN
WP7	7.1 E-learning platform meeting	Minutes (1) The platform was discussed at PMU 3 in Vasteras.	25/01/2019 Updated: 18/01/2019	CESIE	ENG
	7.2 E-learning user manual delivery	Manual (1)	10/2019	CESIE	ENG
	7.3 E-learning platform development	Platform (1)	05/2019	CESIE	ENG
	7.4 1st and 2nd semesters teaching material implementation on e-learning platform	Uploaded material (1 for each course)	12/2019	CESIE/ SCU/ TJU/ ECUST	ENG
WP8	8.1 Learning needs assessment survey	Report (1)	10/2019	CESIE	ENG
	8.2 Development of learning material	Learning material	01/2020	CESIE	ENG
	8.3 Train the trainers in entrepreneurship and soft-skills	Training course	07/2020	CESIE	ENG

	8.4 Training in entrepreneurship and soft-skills	Training (1)	07/2020	CESIE	ENG
WP9	9.1 IAB confirmation and presentation	Minutes (1)	12/2017 Updated: 02/2018	UNIFI	ENG
	9.2 Quality Plan	Document (1)	12/2017 Updated: 06/2018	UNIFI /CESIE	ENG
	9.3 IAB feedback on ETNA report	Report (1)	02/2018 Updated: 09/2019	IAB	ENG
	9.4 IAB feedbacks on "Syllabus"	Report (1)	04/2018 Updated: 03/2019	IAB	ENG
	9.5 Internal Quality Assessment	Report (1)	07/2020	UNIFI	ENG
	9.6 1st party audit	Report (1)	07/2020	CESIE	ENG
	9.7 Evaluation of Students at the beginning of the course	See 9.10 con 8.1	09/2019	UNIFI/ SCU/ TJU/ ECUST	ENG
	9.8 Education Quality assessment and report	Report (1)	05/2020 Updated: 06/2020	UNIFI/ CESIE	ENG
	9.9 Evaluation of students at end of first year course	See 9.10	07/2020	UNIFI/ SCU/ TJU/ ECUST	ENG
	9.10 Report on students' skills	Report (1)	09/2020	UNIFI/ SCU/ TJU/ ECUST	ENG
	9.11 Report on ex ante and ex post evaluation	Report (1)	09/2020	UNIFI/ SCU/ TJU/ ECUST	ENG
	9.12 Student's admission examination and admission list	List of accepted students (1)	07/2019	SCU/ TJU/ ECUST	ENG
	9.13 BBChina Master Sustainability Report	Report (1)	10/2020	UNIFI	ENG
	9.14 IAB feedback	Report (1)	10/2021	UNIFI/ IAB	ENG
	9.15 External Evaluation	Report (1)	10/2021	UNIFI/ External expert	ENG
WP10	10.1 Website online	Website	04/2018	TJU/UNIFI	ENG
	10.2 Updates of website	Continuous monitoring	14/10/2021	TJU/UNIFI	ENG
	10.3 Publications	Publications (2)	10/2021	TJU	ENG
	10.4 Preparation of Dissemination Strategy	Dissemination Strategy	04/02/2018 Updated: 28/06/2019	TJU	ENG
	10.5 Final Conference and dissemination	Final Report	10/2021	UNIFI	ENG

5.8 Project indicators

The monitoring of the project actions and QA applied helped to finalise the project with these KPIs.

Table 9. Key Performance Indicators at the end of the project

	Key Performance Indicators	Target, planned	Target, reached
1	Number of professor that participated to mobility (WP 4.2)	t.b.d.	38 - participants represented all the 12 BBChina Master Program courses Report: https://www.bbchina.eu/wp-content/uploads/2020/07/Report.pdf
2	Number of recruited students (WP 6.2)	15 for each Chinese HEIs /year	Final number of selected students 1 year - 15 Students at TJU 16 Students at ECUST 15 Students at SCU 2 year - 11 Students at TJU 11 Students at ECUST 12 Students at SCU 3 year - 8 Students at TJU 5 Students at ECUST 8 Students at SCU Total 101 Students Male Students: 56; 55% Female Students: 45; 45%
3	Number of students that participated to mobility (WP 5.2)	15 for each Chinese HEIs	Due to COVID-19 restrictions this action was implemented online with 80 students.
4	Number of participants to Final Conference (WP 10.2)	80	80 students, 3 companies
5	Number of accesses to website (WP 10.1) and Moodle learning platform	t.b.d.	Visits of the website - 98 018 visits, 34 065 visitors 136 unique Moodle users
7	Number of agreements for students' placements established in business organizations	About 10 for each Chinese HEIs	5 Companies directly involved via Expression of Interest 44 Companies involved by mean of a Memorandum of Understanding A total of 49 Companies are involved

Conclusions

After the period of 4 years, the BBChina project has reached a final step with all the finalised activities and positive evaluation of diverse internal and external stakeholders. The final evaluation of the project was guaranteed by:

- External evaluator
- IAB
- Project partners
- Students

All the reports are presented on: <http://www.bbchina.eu/reports/> .

Annex 1 – Contact information

Table 10. Coordinators

Function	Name	Organisation	Phone number	Email
Coordinator	Eng. Leonardo Nibbi	UNIFI	+39 055 27 58 779 +39 339 54 38 569	leonardo.nibbi@unifi.it
Administrative Issues	Ms.Laura Moretti	UNIFI	+39 055 275 1918	laura.moretti@unifi.it

Table 11. WP Leaders

WP	Name	Organisation	Phone number	Email
WP1	Eng. Leonardo Nibbi	UNIFI	+39 3395438569	leonardo.nibbi@unifi.it
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WP3	Dr. Andrea Schüch	UROS	+49 3814983406	andrea.schuech@uni-rostock.de
WP4	Prof. Dr.Hua Zang	TJU	+86 2165981383	zhanghua_tj@tongji.edu.cn
WP5	Prof. Fang Cheng	SCU	+86 13708036645	chenfang@scu.edu.cn
WP6	Prof. Xinhai Yu	ECUST		yxhh@ecust.edu.cn
WP7	Jelena Mazaj	CESIE	+39 091 6164224	jelena.mazaj@cesie.org
WP8	Jelena Mazaj	CESIE	+39 091 6164224	jelena.mazaj@cesie.org
WP9	Eng. Leonardo Nibbi	UNIFI	+39 3395438569	leonardo.nibbi@unifi.it
WP10	Prof. Pinjing He	TJU	+86 2165986104	xhpjk@tongji.edu.cn

Table 12. Beneficiaries' main administrative contacts

Partner	Name	Function	Phone number	Email
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TJU	Prof. Pinjing He	Project Responsible	+86 2165986104	xhpjk@tongji.edu.cn
ECUST	Prof. Shan-Tung Tu	Project Responsible		sttu@ecust.edu.cn
SCU	Prof. Ying Xu	Project Responsible	+8613550345233	xuying@scu.edu.cn
CESIE	Mr. Vito La Fata	President	+39 091 6164224	vito.lafata@cesie.org

Table 13. EC Project Officer*

Unit	Name	Function	Email
EACEA	Ms.Antonella Giorgio	Project Officer	antonella.giorgio@ec.europa.eu

**Only Coordinator communicates with the EU Project Manager on behalf of all the Consortium.*

Table 14. 1st party Quality Control*

Organisation	Name	Function	Phone number	Email
CESIE	Francesca Vacanti	Quality Control manager	+39 091 6164224	francesca.vacanti@cesie.org
CESIE	Maja Brkušnin	Quality Control manager	+39 091 6164224	maja.brkusanin@cesie.org
CESIE	Rosina Ndukwe	Quality Control manager	+39 091 6164224	rosina.ndukwe@cesie.org

The indicated staff members prepared 1st party Audit reports with the overview about tasks carried out, changes in work plan and recommendations.