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Star-COLIBRI Exploitation Plan

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Introduction

The final outcome of the Star-COLIBRI project is a broad spectrum of tangible and intangible results that enables a more efficient collaboration in the area of biorefineries in Europe.

The tangible results include more than 20 reports, publications and deliverables. The most notable of those are:

- ✓ Star-COLIBRI Biorefinery Portal (www.star-colibri.net)
- ✓ Joint European Biorefinery Vision for 2030 (Publication, 6000 copies)
- ✓ European Biorefinery Joint Strategic Research Roadmap for 2020 (Publication, 6000 copies)
- ✓ The StarClustering model for creating collaborations between up and running research and innovation projects
- ✓ The creation of StarCluster Bio4Flow
- ✓ A proposed model for efficient Public-Private Partnerships (Deliverable 4.1)

The intangible results are:

- ✓ Two conferences on biorefineries with a total number of participants of around 350 persons
- ✓ An established and functional collaboration between the different sectors and European Technology Platforms with an interest in the concept of biorefineries

This exploitation plan focuses on the most significant results of Star-COLIBRI. It is to be considered a complete coverage of Star-COLIBRI's reports and results.

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Based mainly on Star-COLIBRI deliverables: 2.1, 2.2, 2.3, 3.2 and 3.3

The technical system is an advanced web-based relation database server that allows various ways to relate different pieces of information to each other. For instance, a research project page is referenced to the Organisation pages of participating organisations. It can also be referenced to a Call Topic page that in its turn can be referenced to a Public Funding Organisation page. Still the objective has been to make a very simple user interface so that the public, and not only technology savvy people, can contribute to the information collected as well as search in the information collected. This philosophy is demonstrated by the fact that it is the User Manual and not the technical specifications that was set as the deliverable document. New public private research projects touching upon the biorefinery business area contain today information of close to 400 research projects and 900 organisations. It is important that new projects keep entering information to this common information repository and that finished or coming-to-an-end projects add the results. In order to do so the following actions will be taken:

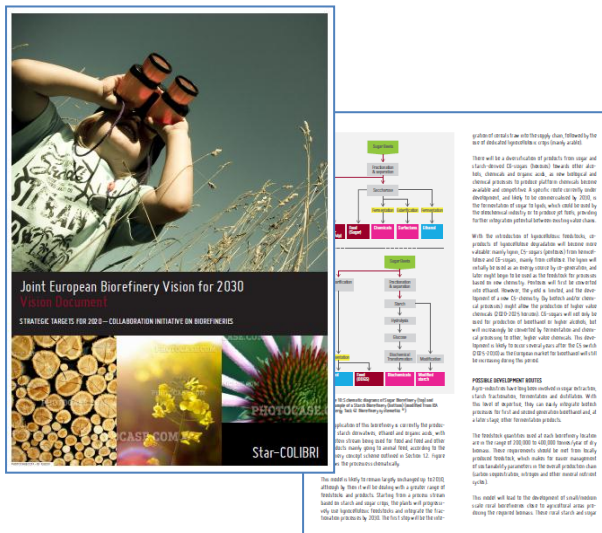
- FTP will continue to manage and host the portal and database structure
- All Star-COLIBRI beneficiaries as well as ETP stakeholders will continue to add information to the database
- The European Commission should support and utilise the database with available means

Prospects

- Up-coming collaborations and partnerships such as a Public-Private Partnership in the area of biorefineries can use the portal as their central project information repository.
- The European Technology Platforms can use the database to analyse the ongoing research in their respective area of core competence.
- The European Commission can utilise the database as a complement to SESAM and the information available there on biorefinery-related projects.

Joint European Biorefinery Research Roadmap and Vision 2030

Based mainly on Star-COLIBRI deliverables: 3.5 and 3.8



These documents are the first of their kind and will serve the purpose of providing a generally accepted definition of the European biorefinery industry area as well as its possibility to develop and create more value for the European citizens by suitable policy-, legal-, research-, innovation- and investment activities.

Fig 2: The Joint European Biorefinery Vision and Roadmap

They have already been spread across Europe in several thousands of copies. Further exploitation activities are:

- Update and revise the Vision and Research Roadmap in five years (to be decided)
- Disseminate and spread the two documents (all beneficiaries of Star-COLIBRI)

Prospects

- Use the Research Roadmap as a basis for activities in Public-Private Partnerships by the beneficiaries of Star-COLIBRI and the European Commission
- Supporting regional and national research programme developments in Europe
- To support planning of future research programmes and public funding managed by the EU
- To provide inspiration for the Industry in taking investments for the future

Study of existing Public-Private Partnerships (PPP)

Based on Star-COLIBRI deliverable: 4.1

D4.1 (Study of existing Public-Private Partnerships) is the only report known to the Star-COLIBRI consortium describing PPPs in the area of European research from a practical point of view. Except for being a “How to...” description, the conclusions of the study will also be used in the discussion between the European Commission and the biorefinery Industry about a PPP in the area of European biorefinery research & innovation.

Further exploitation activities are:

- We would like to suggest to the European Commission to help us disseminate if possible by printing the report or parts of the report for public use (our recommendation to the European Commission)
- To be used in discussions between the European Commission and the biorefinery Industry about a PPP in the area of European biorefinery research & innovation.

Prospects

- Use the report D4.1 as recommendation for setting up the governance and legal framework of a Public-Private Partnerships area of European biorefinery research & innovation
- Having it as a pedagogic guide to the complex area of Public-Private Partnerships in Horizon 2020

StarClustering - A model for finding projects with a breakthrough potential on a European scale and helping them to collaborate with other ongoing research and innovation projects

Based mainly on Star-COLIBRI deliverables: 3.1, 3.2, 3.3, 3.4 and 4.3

- A Star project is a large R&D or demonstration project (at European or national level) that could have an actual industrial impact at the horizon 2020.
- A Comet project is a smaller most probably nationally or regionally funded project with potential complementarities with a Star project.
- A StarCluster is an established collaboration between a Star project and several Comet projects based on complementarities in order to cover all features of the biorefinery concept.

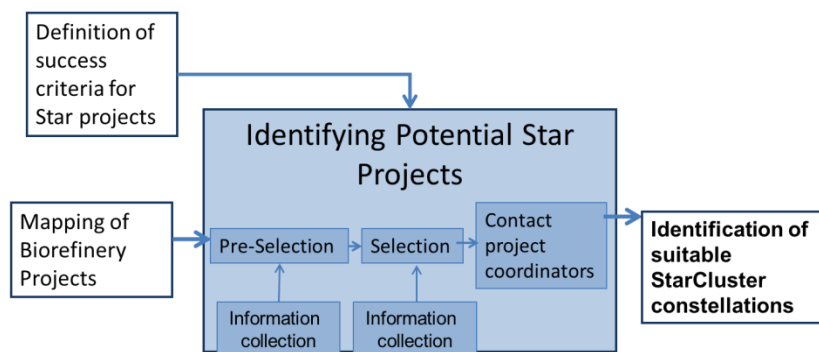


Fig 3: The identification process of StarClusters

The criteria for selection have been formulated so that they can be used also when the available information about a project is limited.

The ETP beneficiaries have together made a documented selection process of the Star-Projects and collected all information in the Biorefinery Portal.

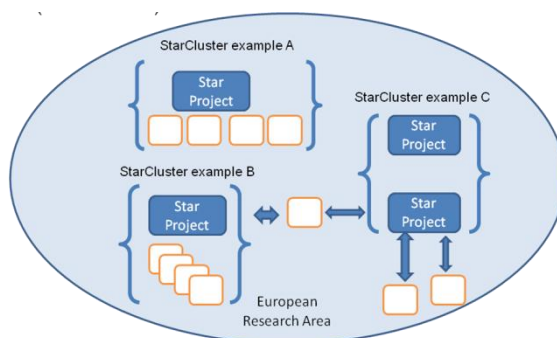


Fig 4: The task of merging activities of several different research projects



The final tangible result of the StarClustering strategy was the formation of the StarCluster Bio4Flow, centred around the Star project Bio4Energy.

Further exploitation activities are:

- In the process several difficulties were discovered and possible solutions discussed. Awareness of these might help the Administrators of Research Programmes to make better use of public and private research funding. We would like the European Commission to read D4.3 when discussing how to improve collaboration and transparency of Horizon 2020
- The European Technology Platforms have as one of their objectives to reduce fragmentation and speed up the exploitation of research results. They have learned valuable lessons that can now introduce parts of the StarClustering process into their daily work to help their stakeholders (all ETPs)

Prospects

- Improve further on the efficiency of European Technology Platforms
- Help the European Commission to address the relatively weak innovation and exploitation result of the European Research Framework Programmes