

CropBooster-P

In perspective; where do we go to?



European
Commission

Horizon 2020
European Union funding
for Research & Innovation

Wrapping-up CropBooster-P (1)

- CropBooster-P will end on April 30th, 2022
- Then, we will have till July 5th to write our Final Report and to complete some remaining Deliverables
- The Final Report also contains the **Final Financial Report**. This financial report is due **May 30th**, and you will get instructions regarding this from the WUR Financial Department.
- A small number of Deliverables still must be finalized:
 - D3.3: Recommendation dossier on mid-term outreach measures to increase public awareness and understanding of novel technologies.
 - D5.3: A report describing the management structure that can be used in a future Europe-wide program
 - D5.4: A report describing the framework for expressing the moral correctness of the program and its social necessity
 - D5.6: A research plan for a future European program
 - D5.7: A white paper describing the route to improved crop yields, nutritional quality and environmental protection in Europe, including the future consortium



Wrapping-up CropBooster-P (2)

- We also will need to include all publications in the report, pls send us all missing manuscripts either published or in preparation.
- Published:
 - Improving the Efficiency of Photosynthetic Carbon Reactions. Andreas Weber et al. , Plant Physiology
 - Biotechnology for Tomorrow's World: Scenarios to Guide Directions for Future Innovation. Marc Cornelissens et al., Trends in Biotechnology
 - MRP Transporters and Low Phytic Acid Mutants in Major Crops: Main Pleiotropic Effects and Future Perspectives. Frederico Colombo et al., Frontiers in Plant Science
 - Designing the Crops for the Future; The CropBooster Program. Jeremy Harbinson et al., Biology
 - Going virtual: adapting in-person interactive focus groups to the online environment. Jonathan Menary et al., Emerald Open Research
 - Approaches and determinants to sustainably improve crop production. Alain Gojon et al., Food & Energy Security
 - Prospects to improve the nutritional quality of crops. Last Scharff et al., Food & Energy Security
 - Plant growth: the What, the How, and the Why. Jonas Hilty et al., New Phytologists
 - Micronutrient homeostasis in plants for more sustainable agriculture and healthier human nutrition. Ana Assunção et al., Journal of Experimental Botany



Wrapping-up CropBooster-P (3)

- In preparation:
 - CropBooster-P: towards a roadmap for plant research to future-proof crops in Europe. Alexandra Baekelandt et al , FES (accepted)
 - Biological processes determining crop yield potential. Alexandra Burgess,Céline Masclaux-Daubresse, Alexandra Baekelandt et al, FES
 - Paving the way towards future proofing our crops. Alexandra Baekelandt et al., FES
 - "Modeling paper". Jeremy/Xinyou/Sam Taylor (1 or 2?)
 - "Citizen Jury paper". Abhishek/Arnout/Jess/ (+ 2 more from Abhishek et al ??)
 - Ralf, WP3 ??
 - Norbert, WP4 Focus Groups????
- In case you want to contribute still to the Special Issue in FES, please contact Alexandra Baekelandt
- On July 19th our project results will be reviewed in a session between the ExCom, our project officer and 2 external reviewers.



From CropBooster-P to the CropBooster Program(1)

- We have the ambition to set-up a large scale, pan-European research program to execute the CropBooster-P roadmap.
- This program has the (working) title “the CropBooster Program”.
- The justification for this, and the goals and ambitions of the program have been published last year by the Excom (plus Karin & Francesco):
 - Designing the Crops for the Future; The CropBooster Program. Jeremy Harbinson et al., Biology
- This paper has gained a lot of attention, so we are convinced that there indeed is a need for this program.



Altmetric scores for Designing the Crops for the Future; The CropBooster Program



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In the top 25% of all research outputs scored by Altmetric

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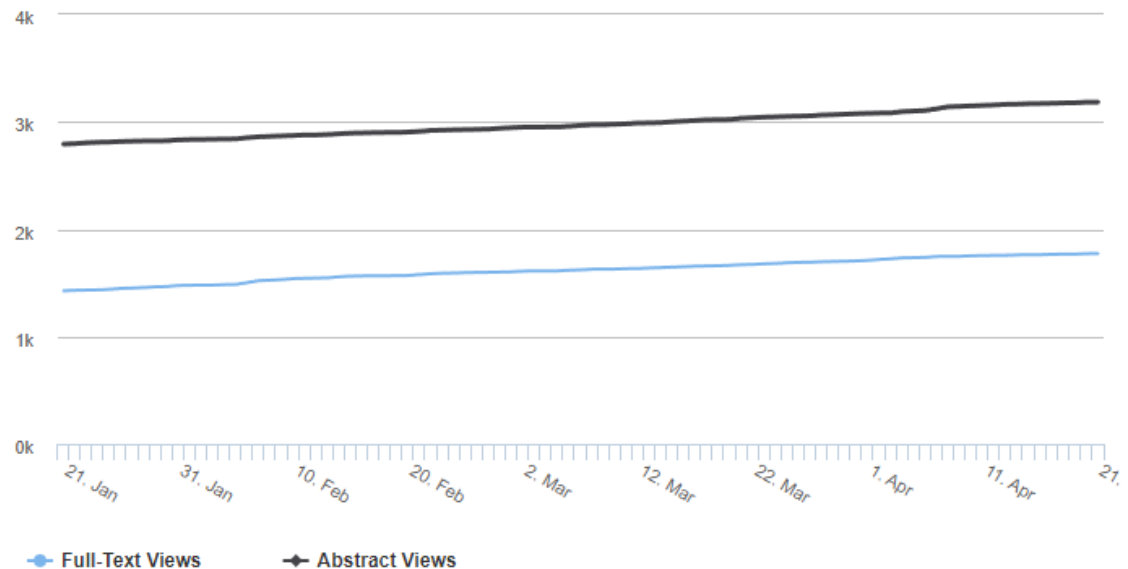
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From CropBooster-P to the CropBooster Program(2)

- The layout we have in mind for the program is similar to the FET Flagships:
 - Carried out by a pan-European consortium of approx. 100 partners
 - As core consortium, Photosynthesis 2.0 + CropBooster-P + CAPITALISE might serve.



Potential core-consortium for the CropBooster Program

UK

- Queen Mary University of London
- Imperial College London
- University of Leeds
- University of Essex
- Lancaster University
- University of Nottingham
- University of Cambridge
- James Hutton Institute
- Ceratium

The Netherlands

- Wageningen UR
- VU University Amsterdam

Belgium

- University of Liege
- VIB
- EPSO
- Euroseed
- ETP Plants for the Future

France

- CEA Cadarache
- CEA Saclay
- CEA Grenoble
- INRA Montpellier
- Institut de Biologie Physico-Chimique - CNRS
- Station Biologique de Roscoff – CNRS
- ACTA
- Sorbonne University

Portugal

- Universidade nova de Lisboa

Spain

- Universidad de les Illes Balears
- Universitat Autònoma de Barcelona
- CREAM
- CSIC

Denmark

- University of Copenhagen

Sweden

- Umeå University
- Uppsala University

Finland

- University of Turku

Lithuania

- Vilnius University

Estonia

- Estonian University of Life Sciences

Germany

- Heinrich Heine University Dusseldorf
- LMU Munchen
- Forschungszentrum Jülich
- MPIMP Gollm
- Julius Kühn Institute
- IPK
- University of Potsdam

Switzerland

- ETH Zurich
- University of Zurich
- University of Neuchatel
- University of Lausanne

Czech Republic

- University of South Bohemia
- CEITEC
- ELI-Beamlines

Hungary

- Biological Research Centre
- ELI-ALPS

Romania

- Universitatea de Stiinta Agricola si Medicina Veterinara Cluj Napoca

Israel

- Hebrew University of Jerusalem
- Volcani Center
- Ben-Gurion University of the Negev

62 institutions from 18 EU member states or associated states



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From CropBooster-P to the CropBooster Program(2)

- The layout we have in mind for the program is similar to the FET Flagships:
 - Carried out by a pan-European consortium of approx. 100 partners
 - As core consortium, Photosynthesis 2.0 + CropBooster-P + CAPITALISE might serve.
 - Run time of 10 yr
 - Overall budget ~ 1 billion euro.
 - Followed by another ~10 year period needed by industry to translate the outcome of the program into marketable products.
 - We thus need strong cooperation with industry from day 1 on.



From CropBooster-P to the CropBooster Program(3)

- The main problem we face is that the FET Flagship Instrument does not exist any more.
- The only large-scale EU funding instruments that currently might fit our purpose are Partnerships.
- Example: partnership on Agro-Ecology
- These are very hard to set-up:
 - Requires commitment and financial support of all EU member states
 - The EU will fund only 30 – 50% of the required budget
 - Budget can be up to several hundred million euro
 - Might requires (financial) support from (academic) institutions in these member states.
 - New Partnerships are not yet foreseen, a new possibility might occur in 2025 - 2027



From CropBooster-P to the CropBooster Program(3)

- The procedure to set-up a new Partnership is not clear, but will for sure require a lot of lobby work both at national level (government, funding organizations, academia) as at the level of Brussels (EU Commission, EU Parliament, SCAR, DG-RTD, DG-Agri, DG Sante, etc. etc.).
- In order to effectively organize such a lobby it is important that we keep our current CropBooster-P consortium together and even expand it.
- To this purpose, we have established a new EPSO Working Group: "Future Proofed Crops"



EPSO Working Group "Future Proofed Crops"



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FUTURE PROOFED CROPS



Chairs:

Christine Raines, Andreas Weber, Francesco Loreto, Alain Gojon, René Klein Lankhorst

Aims:

- To form a platform for European plant scientist working in the field of future proofing crops
- To interact with the EU Commission and other EU bodies on matters pertaining future proofing of crops



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- To this purpose, we have established a new EPSO Working Group: “Future Proofed Crops”.
- We plan to organize an event in October this year to officially present the CropBooster-P Roadmap to the EU-Commission.
- From then on, we should organize a national lobby in our home countries to get support for a new Partnership.
- How?? All ideas are welcome!





CropBooster-P

The end?



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