

2018 DO YOU NEED PLANT PHENOTYPING?



The preparatory phase of EMPHASIS aims at the development of a long-term sustainable strategy for a user driven building, operation, and upgrading of plant phenotyping infrastructure.

In 2018 we have performed a mapping on the real user demands towards emphasis.

Here some of the results....

CHECK IT OUT
and stay tuned on the EMPHASIS activities!!



WHO are the EMPHASIS's USERS?

320

People answered the
survey



Participants belong to

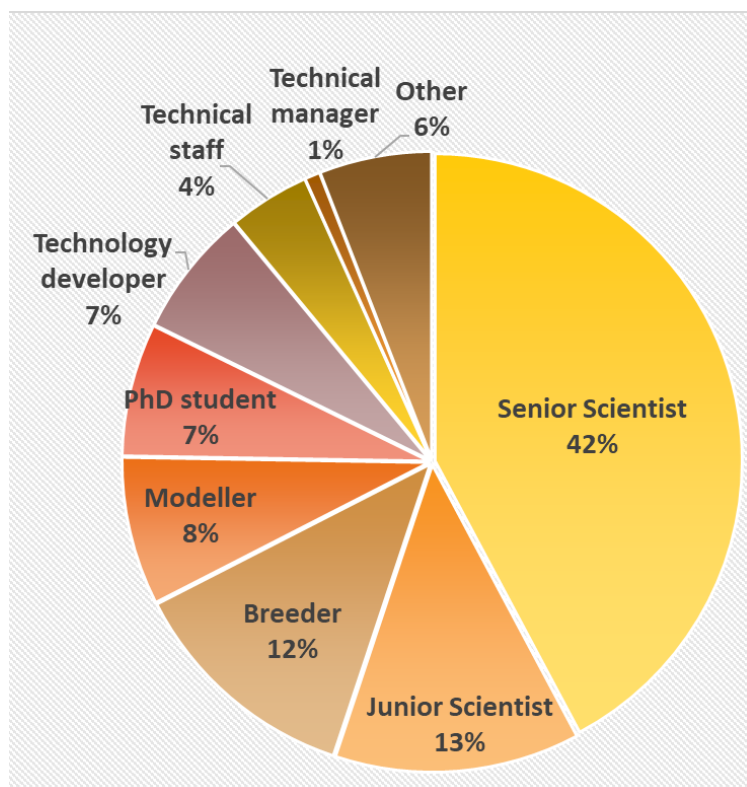
20%

Private
companies

80%

Public
institutions

What is the EMPHASIS users background?



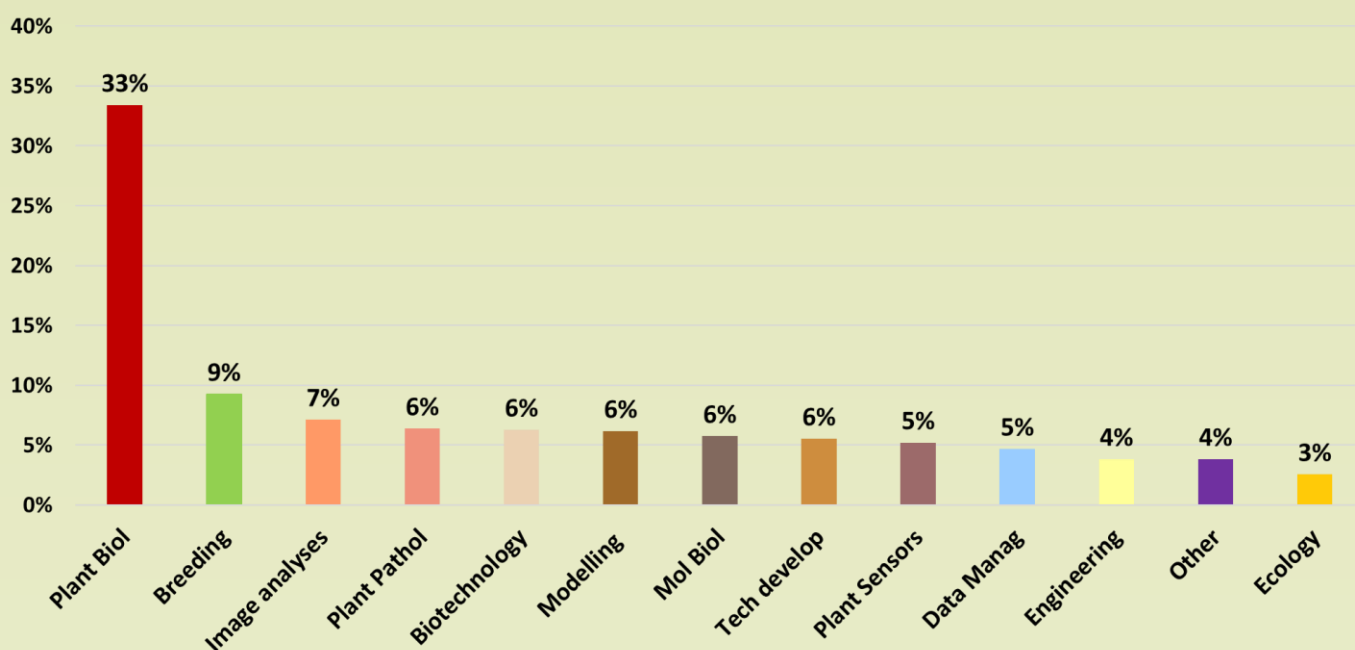
<https://emphasis.plant-phenotyping.eu/>

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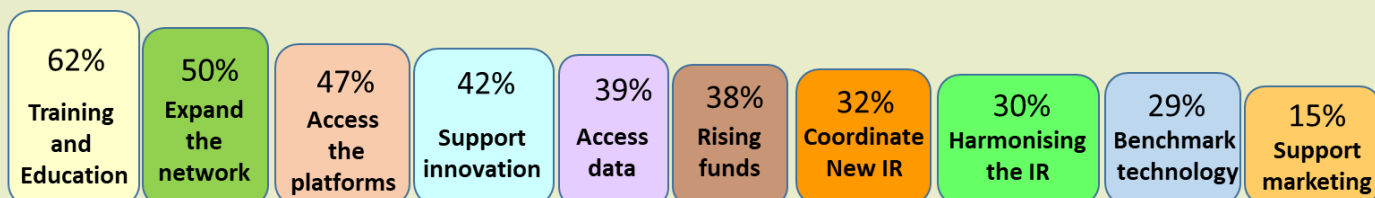


WHO are the EMPHASIS USERS?

What is the EMPHASIS's users field of work?



How can EMPHASIS support your activities?

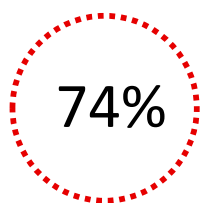


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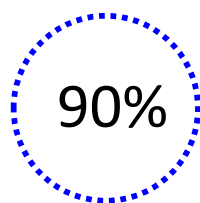
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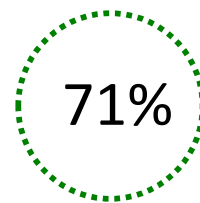
DO WE USE PLANT PHENOTYPING?



Use plant phenotyping in their activities

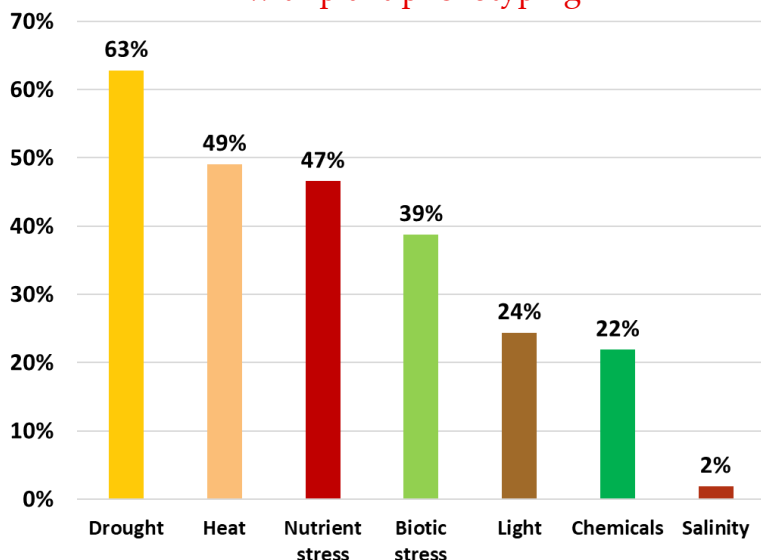


Plan to use plant phenotyping in the future



Plan to have increasing needs plant phenotyping experiments in the future

Drought, heat, nutrients supply, and biotic stresses are the main stress treatments explored with plant phenotyping



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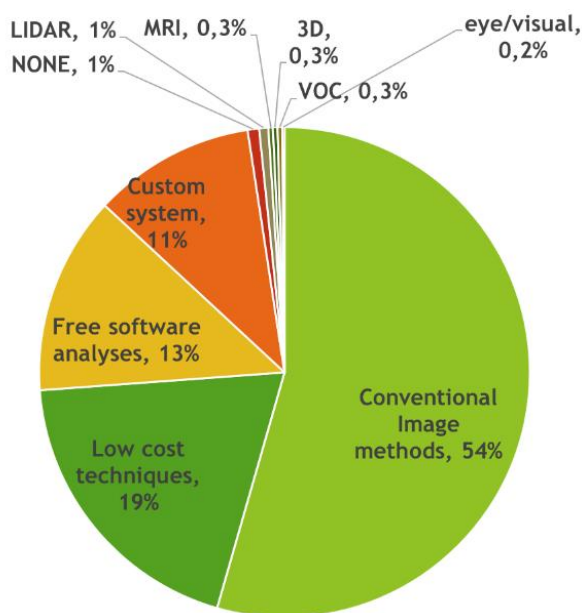
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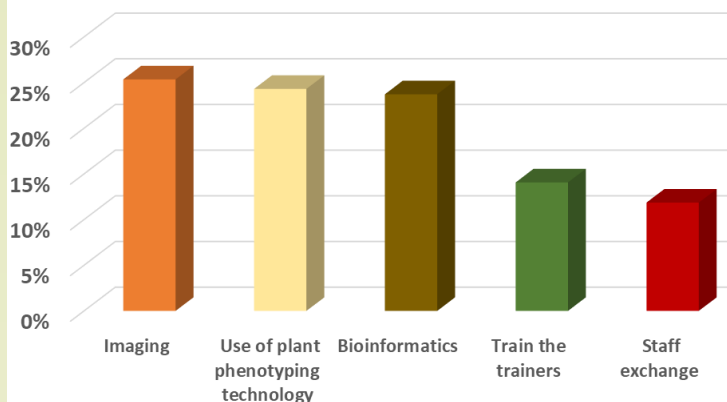
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An increased demand for low cost affordable techniques and software emerged from the survey



Better training and education are major expectations towards EMPHASIS. We investigated where training and education are needed?



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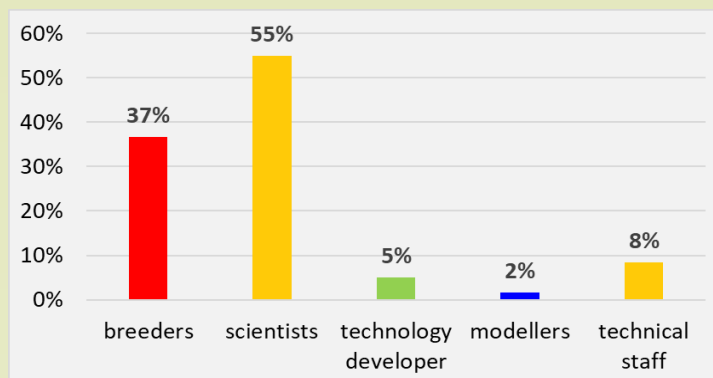
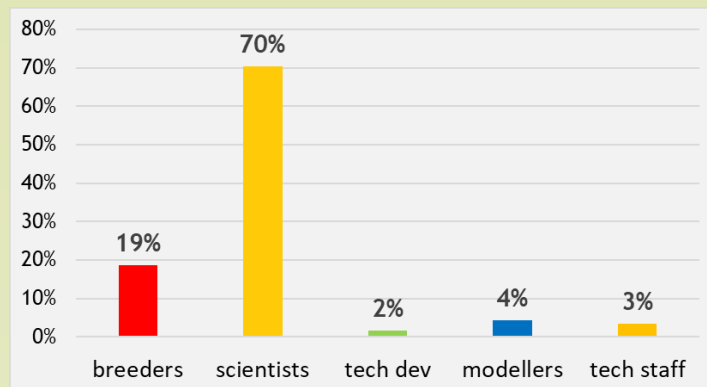


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ACCESS DEMAND TO EMPHASIS'S INFRASTRUCTURES

Access demand to installations



While scientists highly demand to access to controlled conditions installations, breeders demand is more focused on intensive field for plant phenotyping



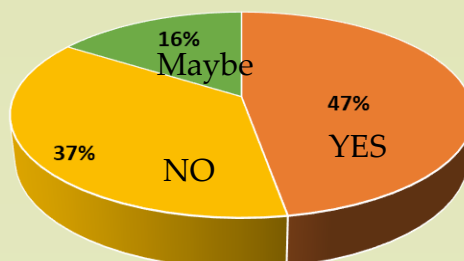
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DO WE NEED MODELLING ?



Have you been or are you using models to represent plant traits or their environment?



Which plant traits are mainly represented with models?

Major traits analysed with models	% of hits /total answers
Plant Growth	25%
Yield	20%
Soil water or nutrients	14%
Plant Architecture	13%
Genomics	10%
Atmospheric conditions	9%
Plant hydraulic	6%
Not applicable	2%

60% of respondent will use modelling in combination with phenotyping

With this survey, EMPHASIS clearly engaged new users and stakeholders and acquired useful information for shaping the EMPHASIS business plan



<https://emphasis.plant-phenotyping.eu/>



THANKS TO ALL THE CONTRIBUTORS TO THIS SURVEY!

Continue to follow us and participate to our initiatives



<https://emphasis.plant-phenotyping.eu/>



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