

Digital tools: SHiNeMas



Figure: SHiNeMas tool

OBJECTIVE

Due to a lack of effort in breeding varieties adapted to organic and low-input agriculture, farmers currently have limited access to the proper crop diversity. To fill this gap, one option is to develop population-varieties that can be adapted to various local conditions while maintaining their intrinsic genetic diversity, which provides greater stability and resilience and preserves their ability to adapt to future environmental changes. Such populations can be marketed as Organic Heterogenous Material (OHM), which represent a new avenue in which few actors are currently involved and for which there is a lack of tools to support their development.

One critical issue involves to track the history and life cycle of the population-varieties and to centralize and secure this information in a database in order to complete the file for OHM official notification.

RECOMMENDATIONS

If you want to test SHiNeMas and evaluate the tool for your own breeding activities:

1. Start by watching the video of the training in organic breeding (Module 2-Unit 2, <https://www.youtube.com/watch?v=rbQiwQBICyA>)
2. Contact Yannick De Oliveira (INRAE) – yannick.de-oliveira@inrae.fr to get a demo account
3. Test SHiNeMas on the demo version (<https://shinemas-demo.moulon.inra.fr/>)
4. Use the documentation to learn: <https://shinemas2.readthedocs.io/en/latest/>

ADDITIONAL INFORMATION

SHiNeMas is a free software (Affero GPL license), it can be downloaded and used for free: <https://forge.inrae.fr/abisoft-gge/shinemas>

For more information you can visit INRAE website (<https://moulon.inrae.fr/en/logiciels/shinemas/>) and read the scientific article: <https://doi.org/10.1186/s13007-020-00640-2>

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LiveSeeding:

Social Media: Facebook [[LiveSeeding](#)], X [[@LiveSeeding](#)] & LinkedIn [[LiveSeeding](#)], website [[liveseeding.eu](#)]



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