

Analysis of major Participatory Plant Breeding experiences worldwide

Salvatore Ceccarelli, Adnan Al Yassin1, Isabelle Goldringer, Pedro Mendes Moreira, Veronique Chable

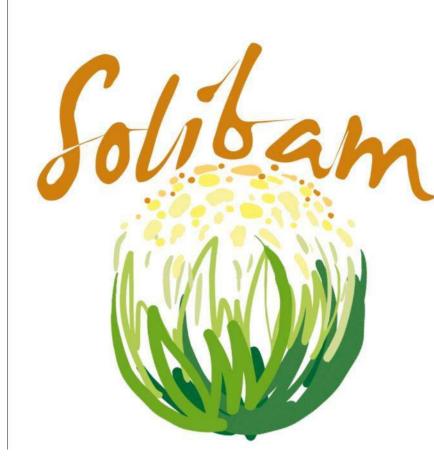
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SOLIBAM – WP6 Analysis of major Participatory Plant Breeding experiences worldwide



2007 - 2013

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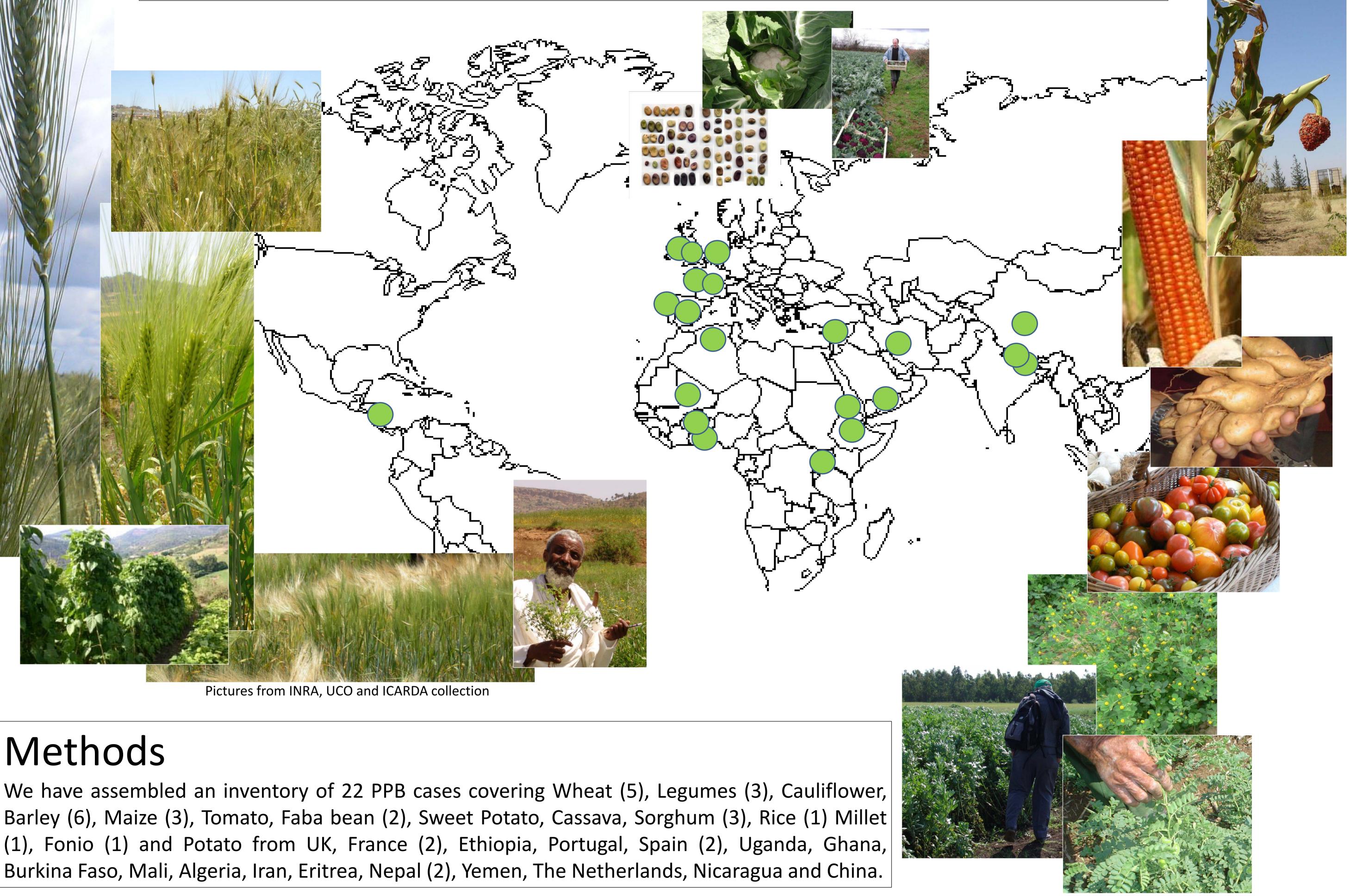
Context
For 20 years, several projects have developed innovative approaches of participatory research as participatory
plant breeding (PPB). To ensure the success of the project, it was essential to critically analyse the major
previous PPB experiences worldwide, with particular attention to Europe, Africa, and Mediterranean countries.





Objectives

To analyse historical experiences of PPB in different European, African, and Mediterranean countries in order to identify the different structures of organisation: roles and interactions between stakeholders (farmers, breeders, end-users, scientists), the shaping of new markets/products/channels, achievements and key issues



Results

The cases assembled in this analysis show that several breeding methods can be successfully used in PPB programs and therefore in those addressing organic agriculture. One innovative strategy is the organization of breeding programs specifically designed for organic agriculture in some case different stakeholders including commercial breeding/trading companies and consumers.

It is possible to organize participatory breeding program using all the most advanced experimental supports (such as design programs that finds efficient designs for experiment randomization, partially replicated designs, spatial analysis) available to conventional breeding programs. One important innovative strategy is the organization of a PPB program in a way that can lead to the formal registration of a variety but the practical application is not achieved, taking into account the current requirements of catalogue registration. Another issue is the creation of new farmers' organisations (like seed associations and seed farmer network in Europe) to manage collectivelly the plant breeding and seed production; a new legislative space has also to be created to recognise the farmer's rights.



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