

Roadmap for Strengthened Partnerships and Collaborations

Dr. Bailey Peterson-Wilhelm & Dr. Nicholas Tyack

Accelerated Crop Breeding for Climate Resilience in Rice:
Challenges and Opportunities

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Roadmap for Future Collaboration

- Training & Capacity Building for Accelerated Breeding
- Enhanced Exchange of Germplasm & Data
- Farmer Adoption, Seed Systems, & Gender

Training & Capacity Building for Accelerated Breeding

- Advance the skills of ASEAN breeders and scientists through project trainings and exchanges with USask/IRRI.
- Focus on improving capacity for genome selection and other accelerated breeding techniques for rice & soybean.
- Scope for deepened collaboration and knowledge exchange between ASEAN breeders and scientists through future workshops.

Enhanced Exchange of Germplasm & Data

- Revitalization of 'INGER-ASEAN;' expanded sharing of southeast Asian germplasm with IRRI as a hub and facilitator.
- Stakeholder preference for access to elite breeding lines stacking climate-resilience and disease resistance traits.
- Promote sharing of data tools and genomic/phenotyping data.
- Support for ASEAN genebanks (characterization, evaluation, improve data tools, use of AI to improve collection usability).
- Potential development of 'Climate-Resilient Rice Germplasm Resource.'

Farmer Adoption, Seed Systems & Gender

- The socio-economics part of the team (Bailey, Pedro, myself) to design experiments with farmers & seed growers using existing or about-to-be-released climate-resilient varieties (e.g. SuperBRIN) to generate economic and behavioral insights to promote adoption in the future.
- The objective of these efforts would be to better understand how to accelerate the portion of technology diffusion that occurs after a variety leaves the breeder's lab and is officially released.

Discussion

Logistics & Next Steps: RESILIENT-ASEAN

- Proposal concept note to be further developed in coming months.
- Identification of other potential co-funders?
- Consider any potential match (\$) or in-kind) from your own country's institutions.
- Follow the website at acceleratedbreeding.ca.



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Thank you!