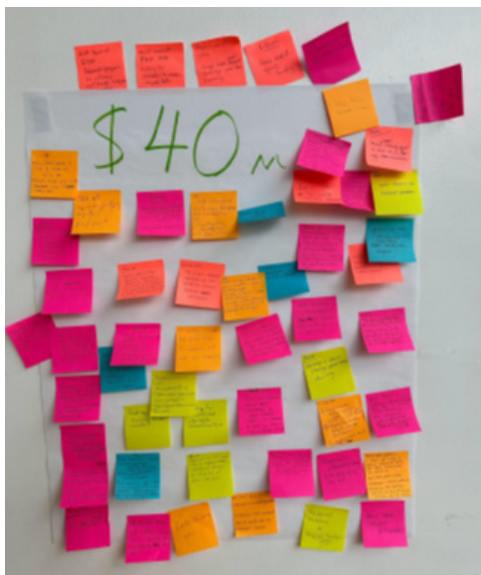


Set-up:

At the conclusion of the AG2PI organized conference, “Mapping the Future of Agricultural Genome to Phenome Research”, and prior to moving to dinner, attendees were asked to write on a post-it note, “What one thing must be in a future \$40M RFA?” and “What one thing must be in a future \$2.5M RFA?” Five central themes emerged across the two questions, along with several subthemes specific to each question.



Selection of ideas shared by attendees on Post-Its:

- *The Farm of the future as a phenotyping facility” enabling meaning of phenotyping for breeding in commercial farms all over the world*
- *Collaborative study that starts from seed to plant growth to feed development to animal production.*
- *A project develops methodology that predicts unknown future variables*

Question to attendees: “What one thing must be in the next \$40M RFA” question posed at the end of the conference. Responses were provided on post-it notes.

Central Themes	“What one thing must be in next \$40 million RFA?” examples
Investment in research projects, people, and workforce development	<ul style="list-style-type: none">• Seed grants, long-term projects, citizen-science projects• Infrastructure development• Student training and research
Data infrastructure building, maintenance, and accessibility	<ul style="list-style-type: none">• Data accessibility by producer and from industry• Develop FAIR data standards• Create centralized data storage
Building more and better collaborations	<ul style="list-style-type: none">• Cross- agency, discipline & sector• Team-building & training• Build a stakeholder network
Transforming agricultural research and who is involved	<ul style="list-style-type: none">• New phenomics technology• Discovering relevant phenotypes• Study plant-to-animal as a system• “Farm of the future” phenotyping facility to inform breeding
Improving public relations and translating research into broader impacts	<ul style="list-style-type: none">• Public education on AG2P work• Primary or secondary school education in ag areas

2023 Conference: \$2.5M Question

“What one thing must be in the next \$2.5M RFA” question posed at the end of the conference. Responses were provided on post-it notes (left).



Selection of ideas written on the Post-Its:

- *Database to house genomic and phenomic information so it's publicly available*
- *support commercialization of open access, species-agnostic phenomic / genomic tools.*

Central Themes

“What one thing must be in next \$2.5 million RFA?” examples

Investment in research projects, people, and workforce development

- Seed grants, risky research, non-model species
- Early career research
- Education module development

Data infrastructure building, maintenance, and accessibility

- Data infrastructure design & proof of concept
- Public access database
- Phenotyping infrastructure

Building more and better collaborations

- Develop collaboration hubs
- Across disciplines & sectors

Transforming agricultural research and who is involved

- New prediction tools
- Focus on phenomics / producer-identified key traits

Improving public relations and translating research into broader impacts

- Public education on AG2P work
- Community-based research
- Early training in AI & data science