



# Informing Research and Extension for Extreme Weather, Climate and NJ Agriculture

February 11, 2026

# Aim of this discussion:

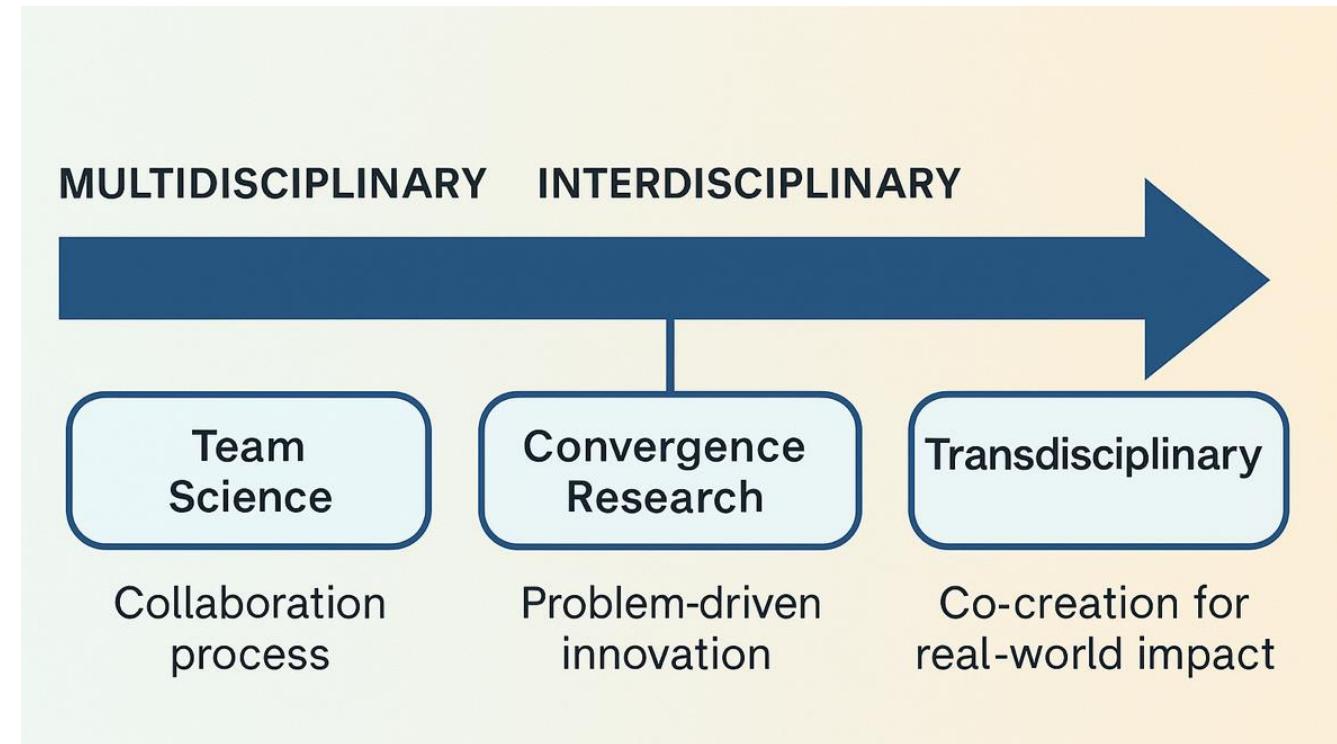
- 1- Reflect on what you learned today and think about how you will apply it in your own work.
- 2- Understand what specific topics might require a deeper dive to continue to support the formation of our Community of Practice.
- 3- Continue to listen, collaborate, and collectively act towards solutions.

# Community-based Participatory Research and Action

Let's think about:

Co-development = process with shared decision-making

Ensure that our "*next steps*" are not just academic goals but practical solutions for the NJ farming community.



# Aim#1. Grounding the Research in Stakeholder Needs

Past survey's show a broad range of concerns such as:

Climate and Biological Stressors   Topsoil Health



Economic Realities & Profitability



# Aim#2. Use Convergence Research as "Change Levers" to Accelerate Change

Convergence research occurs where NJ farmer needs overlap with ongoing research:

- **Agrivoltaics & Energy:** Combining solar power with grazing or crop production.
- **Breeding & Biology:** Developing disease-resistant species to counter the increased pest pressure identified in the surveys.
- **Technology & Data:** Expanding the use of drone sprayers and robotic weed control to manage labor and climate-related challenges.

# Where do stakeholder needs intersect with ongoing research to create the most impactful "next steps" for a co-development strategy?

- How can **technology** be used to help manage things like labor shortages or climate stressors?
- How can we accelerate the **adoption of viable farming practices** (such as heat, drought, or salt-tolerant crop varieties and developing disease-resistant lines for aquaculture and specialty crops)?
- Can we develop **financial assistance programs** for cover crops and climate adaptation?
- Can we establish **participatory governance structures** that ensure shared decision-making between researchers and stakeholders?

# Reflection in Mentimeter



<https://go.rutgers.edu/qs49rk0m>

# Reflection--Open Discussion

Based on what you learned today:

- Please share one word(s) that describes environmental (or biological) stressor(s) most impacting NJ farm's viability:
- Where is NJ agriculture most resilient?
- Where is NJ agriculture most vulnerable?
- What research initiatives have the most potential to make NJ farms more viable?
- What actions do you think are required to implement, scale, and sustain transformative initiatives?
- What topics do you want more access to through programming?