

Project Design Phase-II

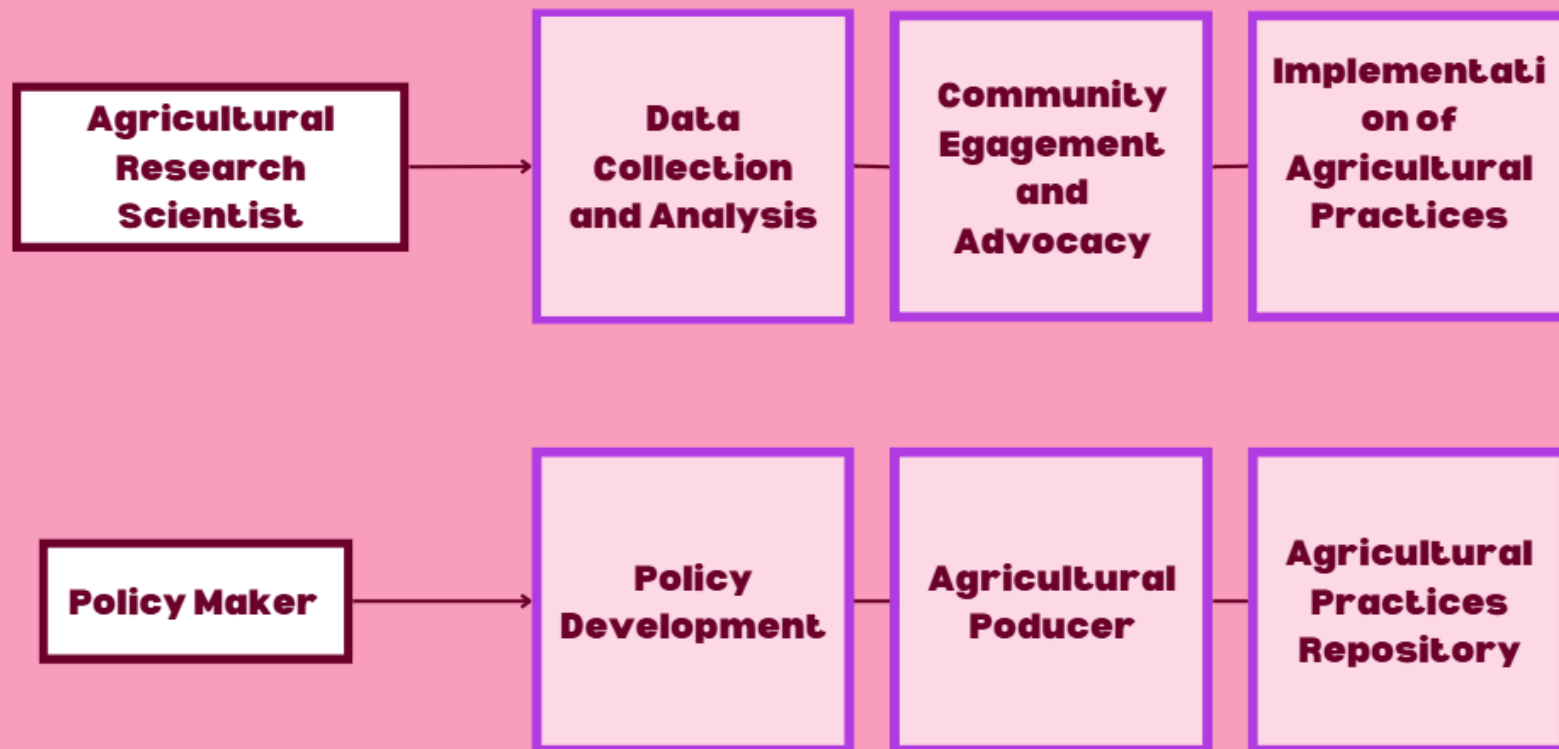
Data Flow Diagram & User Stories

Date	10 March 2025
Team ID	PNT2025TMID02626
Project Name	Global Food Production and Trend Analysis A Comprehensive Study from 1961 to 2023 using power BI
Maximum Marks	4

Data Flow Diagrams:

A **Data Flow Diagram (DFD)** is a graphical representation of how data moves through a system. It illustrates how data is processed, stored, and transferred between different components of a system. DFDs are widely used in system analysis and design to visualize the flow of information.

Data Flow Diagram



<u>User Type</u>	<u>Functional Requirement (Epic)</u>	<u>User Story Number</u>	<u>User Story / Task</u>	<u>Acceptance criteria</u>	<u>Priority</u>	<u>Release</u>
Agricultural Research Scientist	Access to Research Data	USN-1	As an Agricultural Research Scientist , I want to develop and test innovative crop breeding techniques and sustainable farming practices so that I can enhance global food production while ensuring environmental sustainability and resilience to climate change.	<ul style="list-style-type: none"> • The data repository is accessible to authorized users. • Data is organized and searchable. • Users can download datasets. 	High	Sprint-1
	Collaboration with Stakeholders	USN-2	As an Agricultural Research Scientist, I want to collaborate with policymakers and NGOs so that I can ensure my research findings are translated into actionable policies and community programs.	<ul style="list-style-type: none"> • Collaboration tools are available (e.g., shared documents, communication channels). • Feedback from stakeholders is documented. 	Medium	Sprint-2
Policy Maker	Evidence-Based Policy Development	USN-3	As a Policy Maker, I want to receive evidence-based insights from research data so that I can develop effective policies that address food security and sustainability.	<ul style="list-style-type: none"> • Research data is presented in a clear and actionable format. • Policy drafts are informed by research findings. 	High	Sprint-1
	Stakeholder Engagement	USN-4	As a Policy Maker, I want to engage with stakeholders, including farmers and NGOs, so that I can gather diverse perspectives and create inclusive policies.	<ul style="list-style-type: none"> • Stakeholder meetings are scheduled and documented. • Feedback from stakeholders is incorporated into policy drafts. 	High	Sprint-2

NGO Representative	Community Needs Assessment	USN-5	As an NGO Representative, I want to conduct community needs assessments so that I can advocate for policies that truly reflect the needs of marginalized communities.	<ul style="list-style-type: none"> Assessment tools (surveys, interviews) are developed. Results are compiled and shared with policymakers. 	High	Sprint-2
	Access to Data on Food Security Issues	USN-6	As an NGO Representative, I want to access data on food security issues so that I can effectively communicate the challenges faced by communities to policymakers.	<ul style="list-style-type: none"> Data on food security is available and up-to-date Reports can be generated for advocacy purposes. 	Medium	Sprint-2
Agricultural Producer	Practical Recommendations	USN-7	As an Agricultural Producer, I want to receive practical recommendations based on research findings so that I can implement sustainable practices that improve my crop yields.	<ul style="list-style-type: none"> Recommendations are tailored to specific crops and regions. Producers can provide feedback on the recommendations. 	High	Sprint-3
	Workshops and Training Sessions	USN-8	As an Agricultural Producer, I want to participate in workshops and training sessions so that I can learn about new technologies and practices that can enhance my farming operations.	<ul style="list-style-type: none"> Workshops are scheduled and advertised. Attendance and feedback are collected after each session. 	Medium	Sprint-3