

Core Components of INNOVA

1. Workspaces

- **Definition:** Workspaces are organizational units within INNOVA where users can manage multiple projects. Each workspace is owned by a user (workspace owner) who can invite collaborators.
- **Functionality:** Workspaces allow users to structure their projects and manage access and collaboration. Users can set up multiple workspaces to separate projects by different regions, crops, or objectives.
- **Roles:**
 - **Owner:** Full control over workspace and projects, can invite or remove collaborators.
 - **Collaborators:** Can view and interact with projects but cannot modify or delete the workspace.

2. Projects

- **Definition:** A project within a workspace serves as the primary unit of analysis and tracking. Each project is associated with one or more watchlists, which define the specific models, inputs, and areas of interest.
- **Roles:**
 - **Owner:** Full control over project settings and can invite workspace members as participants.
 - **Participants:** Can view project details and interact with watchlists but cannot edit project settings.

3. Watchlists

- **Definition:** Watchlists represent the modeling core of INNOVA, allowing users to analyze specific areas, crops, and conditions using model-driven insights.
- **Inputs:**
 - **Model Version:** Specifies the model type (e.g., Soil Suitability v1.2, Climate v2.3).
 - **Area of Interest:** Defines the geographical scope (e.g., state, county, custom geojson).
 - **Model-Specific Variables:** Each model has specific input requirements, like soil type, pH, or climate forecast.
- **Outputs:**
 - Predictive analytics, yield projections, soil suitability scores, and custom outputs depending on the model version.

4. Invite Team (Collaborator and Participant Management)

- **Functionality:** Allows workspace owners to manage team access across projects and watchlists, restricting permissions based on role to maintain control over data and settings.
- **Roles and Permissions:**
 - Workspace and project-level access management, with role-based restrictions to ensure secure collaboration.

4. GIS

- **Functionality:** The platform includes a sophisticated GIS interface for spatial analysis and visualization.

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