FAIR Process Framework – Step 1.3

Investment Type Checklist: AgriConnect – a digital solutions investment

Theme	Does the investment propose the following activity?	Case Study		Your Investment	
		Yes	No	Yes	No
Collecting Data	**Collecting or creating new data.** The grantee proposes to collect or create new data for a specified purpose. It is likely that certain actors or groups will need to access, use and share the data during or after the lifetime of the grant.	X			
Stakeholder Collaboration	**Bringing together data and information from multiple sources.** The investment includes a need to gather together data and information on a particular topic or location to address a particular challenge. For example by bringing together data from governments, private companies and research institutions.	X			
	Multiple actors accessing and using content. The grantee works in an ecosystem of actors requiring access to the same content – for example, this could be to carry out research, define public or private sector interventions or drive innovation.	X			
	Private and public sector collaboration. The success of the investment is dependent on bringing together actors from the private and public sector. The grantee has a need to gather data and information on a particular topic or location to address a particular challenge and make this available to stakeholders in both the public and private sector. To that end, actors must be aligned and committed to a shared vision to incorporate FAIR processes throughout the project.	X			
Digital Services	**Development of insights, services, applications or products from data.** The grantee proposes to create services or applications from data derived from one or multiple sources and transformed in some way. The right license is required for proper use of data in this way.	X			
	Developing or using a digital platform or new technology. The grantee proposes to create a digital platform. This could have multiple purposes, for example to host or signpost data as part of an evidence base or for analytics. Often digital platforms will have data	X			

Category	Description	Col1	Col2	Col3	Col4	Col5
	from multiple sources, with multiple users needing to access and use the data or insights hosted on the platform.					
	Development of predictive models. The investment intends to use models to analyze, control, visualize and predict complex processes. Models have a range of applications in agriculture, including predicting crop volumes based on fertilizer and pesticide use, predicting profit and loss, and analyzing yields. Often models will bring data from multiple sources together to generate outputs		X			
Farm Level Insights	**Access to farmer and farm information.** To improve farm-level decisions through digitally-enabled services, the investment proposes either to provide insights at farm-level, and/or require a log in, all of which are likely to include access to personal or sensitive data.	X				
	Using GPS or adding geographical coordinates or locations. The grantee proposes to use maps or add information to maps, such as population, administrative boundaries, farm locations or the location of pests. Note that not all basemaps or mapping apps permit use in this way.		X			
	Accessing, using or sharing surveillance data. The investment proposes to collect or access data from surveillance activities, for example, identifying the presence of human disease like malaria, or providing insight into what's happening in farmers' fields through crop types, pest or pathogen presence or the weather.		X			
Data sharing/ Publication	**Publishing or sharing data or research.** The investment plans to share data either with a specific group via a platform, or published openly via an open access repository. For example sharing crop variety, environmental surveillance or soil data through a soil information system or via the Gates Open Access portal.	X				
Data integration and harmonization	**Integrating or harmonizing data** The investment plans to combine data from multiple sources into a coherent, standardized format to enable more comprehensive analysis and insights. For example, to improve livestock health and productivity, insights from analysis gained from the integration of data from various sources such as animal health records, feed	X				

	management, and environmental conditions can help in decision making.				
Prediction and simulation	**Predictive modeling** Within a rapidly changing context and condition, the grantee proposes to create models to forecast future conditions, optimize resource usage, and make data-driven decisions. For example, crop yield prediction, pest and disease outbreak prediction. For prediction, it can involve the use of machine learning algorithms, deep learning algorithms, advanced statistical analysis to identify patterns in the data, allowing for forecasts that help optimize decision-making.		X		
	Simulation The grantee proposes to understand the behavior of a system by modeling different scenarios and observing their outcomes for instance crop growth simulation modeling, which helps understand how crops will grow under different environmental and management conditions		X		
Data storage and archiving	**Data preservation and archiving** The grantee seeks to provide for long-term storage of data to ensure sustainability and use in the future. For instance, creating data backups, storing data in sustainable formats, creating archiving policies that maximize data reuse over time.	X			
Data presentation and communication	**Data visualization and communication** To communicate data visually and in a more relatable form, the grantee proposes to transform raw data into formats that are easily understandable, and actionable, for example, the use of dashboards and infographics or interactive maps. Data visualization eases the comprehension of complex data by non-technical people such as smallholder farmers which can help them to make decisions.		X		