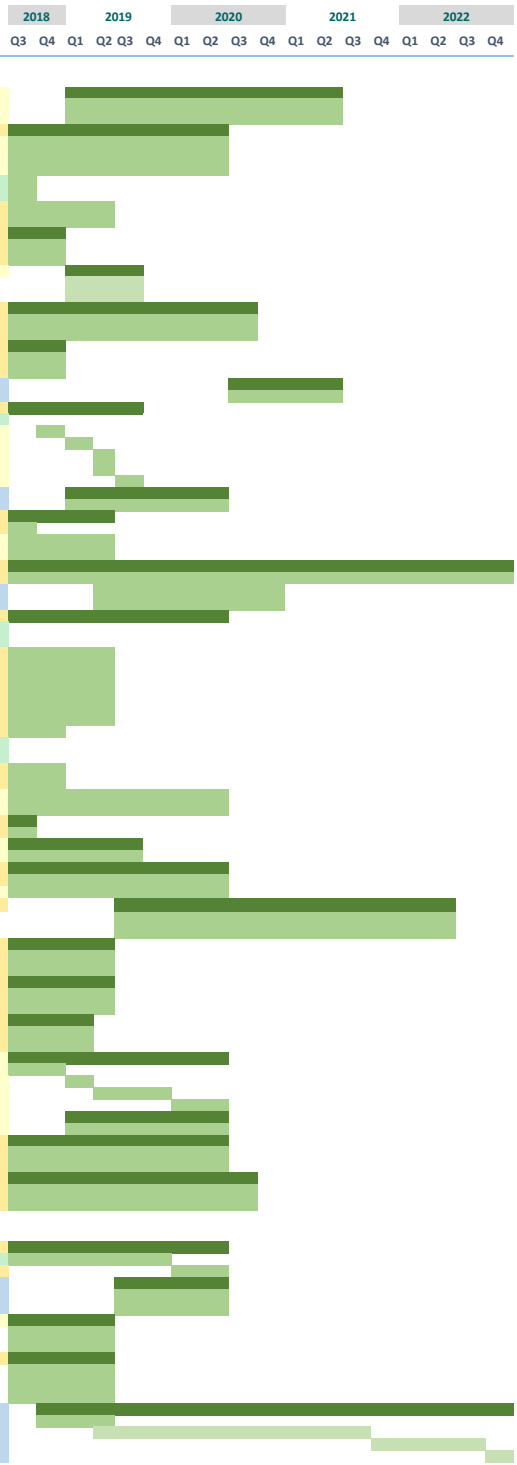ACTIVITY	Start Date	End Date	
Plant Science			
Include millet to the sorghum/maize modelling template (APSIM Classic)	01-Jan-19	30-Jun-21	not started
adpating the exisiting sorghum code for the millet model; submit to reference panel for approval and inclusion into release		30-Jun-21	not started
Improve biological functionality of wheat and sorghum (APSIM Classic)	01-Jan-17	30-Jun-20	on track
Develop a biochemical photosynthesis module, linked to APSIM sorghum/wheat. Submit to reference panel for approval and inclusion into release	01-Jul-18	31-Mar-19	not started
Canopy development (sorghum); submit to reference panel for approval and inclusion into release	01-Jan-17	30-Sep-18	complete
Develop dynamic tillering model in sorghum; submit to reference panel for approval and inclusion into release	01-Jan-18	30-Sep-19	on track
Convert Sorghum model (APSIM Classic to APSIM Next Gen)	01-Jan-17	30-Dec-18	on track
Develop an APSIM Next Gen Sorghum model; submit to reference panel for approval and inclusion into release	01-Jan-17	30-Dec-18	on track
Millett model for APSIM Next Gen	01-Jan-19	30-Sep-19	not started
Create Millett Model for APSIM Next Gen; submit to reference panel for approval and inclusion into release			
Add a chickpea model into PMF (APSIM Next Generation)	01-Jul-17	30-Sep-20	on track
Create new chickpea model within PMF; submit to reference panel for approval and inclusion into release		30-Sep-20	on track
Add a white clover model into PMF (APSIM Next Generation)	01-Jan-17	31-Dec-18	on track
Create White Clover Model; submit to reference panel for approval and inclusion into release		31-Dec-18	on track
Add a perennial ryegrass model into APSIM NG	01-Jul-20	30-Jun-21	seeking
Task 1 (find funding)		30-Jun-21	seeking
Update AgPasture in Next Generation with developments from Classic	01-Jan-17	30-Sep-19	on track
Realign variable names and update documentation		31-Dec-17	complete
Gain familiarity with the Classic code and APSIM in general, rewrite (as	01-Sep-18	30-Dec-18	not started
Find the bug DM/N in allocation and fix	01-Jan-19	31-Mar-19	not started
Final re-alignment of both code bases, documentation, managers, prepare a publication	01-Apr-19	30-Jun-19	not started
Reference Panel review, approval and inclusion into release		30-Sep-19	not started
Canopy development based on leaf length and leaf width with connections to crop development	01-Jan-19	30-Jun-20	seeking
Task 1		30-Jun-20	seeking
APSFarm's Describe - tablet based interview tool to explain farm performance.	01-Jan-17	30-Jun-19	on track
Initial proof of concept		30-Sep-18	on track
User and Field testing, submit to reference panel for approval and inclusion into release	30-Jun-18	30-Jun-19	not started
Targeted approach to improve legume models starting with improvement in phenology	01-Jan-17	30-Jun-22	On Track
Mungbean model improvement and validation dataset collection	01-Jul-18	30-Jun-22	On Track
Improving chickpea phenology prediction and testing; submit to reference panel for approval and inclusion into release	01-Mar-19	30-Jun-22	seeking funding
Improvements to the wheat model in APSIM Next Gen	01-Jan-17	30-Dec-20	on track
Finalising first PMF-wheat version; submit to reference panel for approval and inclusion into release		30-Jun-18	complete
New canopy (tillering) model; submit to reference panel for approval and inclusion into release		30-Jun-19	on track
New water soluble carbohydrate model; submit to reference panel for approval and inclusion into release		30-Jun-19	on track
New transpiration efficiency model; submit to reference panel for approval and inclusion into release		30-Jun-19	on track
New early vigour model; submit to reference panel for approval and inclusion		30-Dec-18	on track
Include new temperature response functions; submit to reference panel for approval and inclusion into release		30-Jun-18	complete
Develop respiration model (maintenance and growth); submit to reference panel for approval and inclusion into release		30-Dec-18	on track
Include Non-leaf organ photosynthesis; submit to reference panel for approval and inclusion into release		30-Jun-20	not started
Develop an Oats Model for APSIM Next Gen	01-Jan-17	30-Sep-18	on track
Create Oats Model; submit to reference panel for approval and inclusion into		30-Sep-18	on track
Develop a Bambatsi Model for APSIM Next Gen	01-Jul-18	30-Sep-19	not started
Create Bambatsi Model; submit to reference panel for approval and inclusion		30-Sep-19	not started
Develop a Grape Model for APSIM Next Gen	01-Jan-17	30-Jun-20	on track
Get prototype model into version control along with validation set		30-Jun-20	on track
Model improvement and expansion of validation set			not started
Develop a Pigeonpea Model for APSIM Next Gen	01-Jul-18	30-Jun-21	on track
APSIM NG pigeonpea model testing + mulit-location validation dataset collection; submit to reference panel for approval and inclusion into release			
Develop a Canola Model for APSIM Next Gen	01-Jul-18	30-Jun-19	on track
Create Canola Model; submit to reference panel for approval and inclusion into release		30-Mar-19	on track
Develop a Soybean Model for APSIM Next Gen	01-Jul-18	30-Jun-19	on track
Create Soybean Model; submit to reference panel for approval and inclusion into release		30-Jun-19	on track
Add a red clover model into PMF (APSIM Next Generation)	01-Jan-17	31-Mar-19	on track
Create Red Clover Model; submit to reference panel for approval and inclusion into release		31-Mar-19	on track
Develop Simple Perennial Fruit tree model in PMF (APSIM next gen)	01-Jul-18	02-Mar-20	not started
Build prototype model		30-Dec-18	not started
Assemble validataion data sets		01-Mar-19	not started
Complete model parameterisation		30-Dec-19	not started
Submit model to reference panel for approval and inclusion into release		30-Jun-20	not started
Add a field pea model into PMF (APSIM Next Generation)	01-Jan-19	31-Dec-20	not started
Create Field Pea Model; submit to reference panel for approval and inclusion		31-Dec-20	not started
Add a lucerne model into PMF (APSIM Next Generation)	01-Jul-18	30-Jun-20	on track
Create Lucerne Model; submit to reference panel for approval and inclusion into release		30-Jun-20	on track
Parameterisation of new early maturity peanut cultivars for APSIM Classic	01-Aug-18	30-Jun-19	on track
Improve model parameters; submit to reference panel for approval and inclusion into release		30-Jun-19	on track
Agro – Ecosystem Science			
SoilArbitrator	1-Jan-17	30-Jun-20	on track
Complete testing and documentation of the SoilArbitrator and inclusion into		31-Dec-19	complete
Submit a paper to a science journal based on this work		30-Jun-20	on track
Refactor SoilWater in APSIM Next Gen.	1-Jul-20	30-Jun-21	seeking
Refactor soil water model to use a function based (PMF) approach to water movement; submit to reference panel for approval and inclusion into release		30-Jun-21	seeking funding
Soil phosphorus for APSIM Next Gen (CSIRO)	1-Jul-18	30-Jun-19	not started
Create a soil phosphorus model for APSIM Next Gen, submit to Reference Panel and incorporate into release		30-Jun-19	
Using the APSIM-Lifecycle model to model weed seedbank dynamics.	1-Jul-18	30-Jun-19	on track
Develop function based seed bank model based on disease modelling framework in APSIM Next Generation. Submit to Reference Panel and incorporate into release		30-Jun-19	
Model genetic diversity effects on susceptibility of the plant population to stresses (AgR)	1-Oct-18	30-Dec-22	seeking
Review, workshop, plan		30-Jun-19	seeking
Implementation of the diversity part into review by AI and inclusion into		30-Dec-21	seeking
Improved methodology for simultaneous stresses on plant survival into review		30-Sep-22	seeking
Simultaneous stresses on plant survival into release		30-Dec-22	seeking
Soil Science			
Port the patching model into APSIM Next Generation	1-Jul-17	30-Jun-19	on track
Porting and testing the patching; submit to reference panel for approval and inclusion into release	1-Jul-18	30-Apr-19	on track
Improve the representation of a range of soil constraints and P fertility in APSIM next Gen.	1-Nov-18	30-May-21	not started
Non-competitive soil CRC project (currently waiting for CRC sign off)	1-Jan-19	30-Aug-21	not started
Add SWIM to APSIM Next Gen.	1-Jul-18	30-Jun-19	on track
Implement the SWIM water balance model within APSIM Next Generation. Submit to Reference Panel for approval and inclusion into release		30-Jun-19	on track
Improve the denitrification model	1-Oct-18	30-Dec-22	seeking
Obtain funding.		31-Dec-19	seeking
Livestock Integration			
Add STOCK to APSIM Next Generation	1-Dec-17	30-Nov-19	on track
Complete the stock model in APSIM Next Generation that will allow animals to comsume plant biomass. This includes management scripts. Submit to Reference Panel for approval and inclusion into release		30-Nov-19	on track
APSIM Infrastructure			
Ongoing maintenance of Classic APSIM etc.		30-Jun-22	on track
Ongoing maintenance of APSIM Next Generation	1-Jul-17	30-Jun-21	on track
Ongoing maintenance of APSIM Next Generation. Fix defects etc.		30-Jun-21	on track
Model uncertainty workshop	1-Jan-19	30-Jun-19	not started
Run a training workshop on how to use Morris method in APSIM Next Gen.		30-Jun-19	not started
Incorporate links to Soil & landscape grid	1-Jan-19	30-Jun-19	not started
Incorporate links to Soil and Landscape Grid into APSIM Next Gen.		30-Jun-19	not started
Migrating APSIM 7.10 to new release framework	1-Jul-18	1-Oct-18	not started
Reference Panel Process			
All proposed science and source code changes to existing modules in APSIM and proposed new modules will be evaluated by the Reference Panel (RP) in terms of science and software quality.		30-Jun-22	on track
Website, Training and Support			
Deliver APSIM training & support		30-Jun-22	on track
Web based training materials (tutorial videos) developed by USQ		30-Jun-22	on track
APSIM Website		30-Jun-22	on track
Project Officer			
APSIM Project Officer provides support to the operations of the Reference Panel.		30-Jun-22	on track