Start here.

Research & development of agricultural technologys, is vitals in; Catering for growing economy, the development of 3rd world to overall in the increase CSIRO Commenuealth Scientific Industrial organisation) is 000 research organisations. It aim to production & yeild, while minimising Research is needed when developing technologys, for allow Austrialia maintain its competition in the global For example, 'Sports wool' was developed by CSIRO, which is synthesised from is used for socror England. The CSIRO also respect biotechnologys when doneloping By of cotton is genetically modify of a gore four bacters, into the traditional cotta now gives the BT lotter heliothis mother through the product, ,+ has allowed 90% Up to yellds of up to 80% less

Office Use Only - Do NOT write anything, or make any marks below this line.

example of why research is needed in
the agricultural industry. The vesaceh that
is obtained, is collected & awalgsed to allow
reserches to produce a product that has
the hest, & most effective design, for increased
Productivity.
ii) Newly developed agricultural technology, may
not at first be widely acceptal by
the asvicultual industry. This may be due
to the cost of implementation. For example
th NLIS (National Kivestock Idontification System)
wis designed to trave diseases to manage
outbrocks à graventire. However this tochnology,
very expensive, with each top rosting up to \$2.60e
Resontly, however the Fadaci government passed q
legislation, making it have that every one courshap
must have an NLIS tage For a fairer to
benefit from the NCIS system, Automated Grafting
Systems & Weighing stations are available, Lovens
in cost up to \$70,000. Also implementing there
technologys can also be a hossel & fractitional
faires tend to stay with what they have
Another verson technology, might not be accepted
is the farmes systification to prichese duse
the technology. For example lass devices an
mospificiont at saving Additional writing space on back page.

time, decregation	s stress, \$	optimalis	placias	Seed	Lower
× ×	betaffaby Just				
		.5.		a smalle	
1000	, not fee				
,	ens technology.		(		
7716					
			7		
			E .		
			177		
	er .				
	×				
	¥7 1.0	, ***	'.' D 11	C	
You may ask for an extra Writing Booklet if you need more space.					

Start here. Overtion 3/6)= There are many new technologys & verent developments computer related technologys, that a farmer Can implement to manage & monitor factors accosiated with agricultual production. These technologys include; GPS (Global positioning Schollites), NUS AMS CArtonated wilking Systems, Climate + weather forcesting & Biotechnology. in Gos, is a group of satellites that outsit the earth. A Eggs system can use these sattelites to triangulate a poston up to zem. This is done using travel time of sound/radro weres. The CFx-750 GPS device, by Frimble tes newly developed a minimum of 4 GLOOVASS Setellites, to position a tractor in the field. The CFY-750 includes functions such as voviable vate applications, Interior Source & Pilot guidance. can use the variable rate application when soving to automatically place seeds optimum density in particular paddocks, This also be used when applying fetiliser. The aps system collects data during horresting regading tours that When Spreading fatilise; was variable places it decreesed youlds at her obtained. vegions when This maximises systemabally & increase productionly & yeilds. th inter-row soving function manages

Office Use Only - Do NOT write anything, or make any marks below this line.

the tractas position in the foild, autometically, or an annually basis. For example if the Specing between times is 200 220 mm, Hen every year, the device will artanctically shift the one llooming This is used to ensure Same Section of the peddock isn't being every yeu, which would deplete all the nutrients. pilot guidance system is wither hooked in to tractes hydralics steering, attached to the steering Weel with a Ezy-Stew device. This th CFX-750 unit to control the 'movement' of the tractor. Through using teps technology a faire con marage & monitor Yeild (he, seed density, Seed dopth, & fatilise density. The technology has had a dramate change broad-acre NUS ( Chational livestock Identification System) i) an electronic ec tog used industry to trace & prevent dispase outheraks. a Federal Governont invadice. Here The for each animal mouning Cor monitor the; growth rate, weight time, age & EBV CEstinated breeding value). When the cow comes into to drafting, weighting System, inputed Data farmer Can have Additional writing space on back page. ind cohell

A

Office Use Only – Do NOT write anything, or make any marks below this line.

Start here.
The etter advance in weather for casting, his
allowed vesercles such as BS BMS, (Buerox
of Meteriology & Statistics) to be able to accomply
collate & analyse previous weather patterns, to
accurately predict the weather forcest ione a
7-17 day polish. A farme can use this
through information, to determine the optimal
times for forming practices such as; sowing,
Spraying & harvesting. Through wehaltes such as
Weatherzone, the farme can have emails sent
daily, pollowing him to monitor the weether El
Manage Certain decisions based on
the for Weather forecasts
*
Through the usp of various advancements
in computer related technology's, farming
in the 21st centry has become more sustainable
and have allowed farmers to more easily
manage factors relating to productions The information
giver from these technologys, Indicate to the face
what must be done for maximum profitability &
Sustainably, which inturn, increasely his profit margin.