

Ag Technology - Are You Ready?

Adopting new technology can be a major investment—profitable if done well, costly if not.

Purpose: Assess readiness strengths and weaknesses.

Why it matters: Many factors impact success—understanding them is critical.

How it works: Read each item and enter a score in the shaded cell based on the key below. When completed, review the 'Technology Readiness Wheel' tab to see your readiness map. Any score of 3 or less is a potential area for further study.

How aware and ready am I?					
Rate how much you agree with each statement from 1	NOT AT ALL	MINIMALLY	MODERATELY	SUFFICENTLY	COMPLETELY
(Not at all) to 5 (Completely).	_	_	_	_	_
Enter a Score Of:	1	2	3	4	5
Business Cools				Score:	
Business Goals				1	- 5
	a. I have written business and family goals.				
b. I can describe how this technology fits into my long-te		у.			
c. I identified the primary purpose for making this change					
d. I recognize the tasks or bottlenecks this technology could improve.					
e. I considered how future technology advancements m			ent.		
f. I understand the expected useful life of the technolog		placement.			
g. I forecasted a plan for updates and managing obsolescence.					
			Average Score	C-	
Cook Bonefit				Score: 1 - 5	
Cost-Benefit a. I understand how the technology will affect production.					- 5
b. I calculated the total cost of purchasing and setting up the equipment and infrastructure.					
c. I evaluated the impact on operating costs (feed, labor, maintenance, veterinary, utilities, insurance, etc.).					
d. I developed a cost projection for keeping the equipment running and maintained.					
e. I conducted a sensitivity analysis.					
f. I examined how quickly I will see a return on investme	ent (ROI).				
g. I have strategies in place to manage unexpected costs.					
h. I analyzed how ROI changes with improvements in productivity, cost reductions, and					
better resource management.					
			Average Score		
					ore:
Infrastructure & Logistics			1	- 5	
 I assessed how the technology is compatible with my current infrastructure or if changes are needed. 					
b. I sketched out how product and input needs (e.g., chemicals, feed, seed) will change.					
c. I discovered the impact on infrastructure (e.g., ventilation, plumbing, electrical systems).					

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Score: 1 - 5
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1-5
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Score: 1 - 5
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1 - 5
Score:

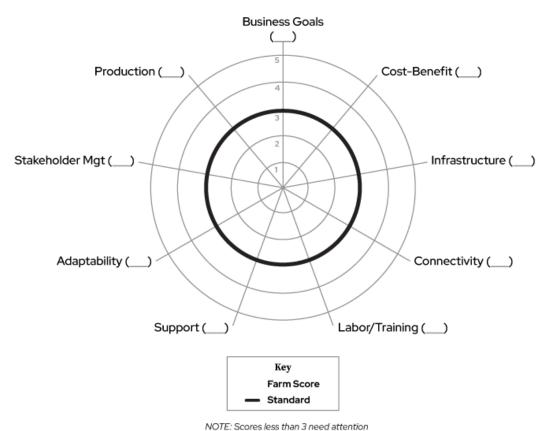
 a. I developed a strategy for communicating changes and integrating feedback from employees and stakeholders. 	
b. I determined the environmental impact of the technology.	
c. I discussed the technology with other farmers, consultants, and researchers.	
d. I know what approvals or inspections are needed from regulatory bodies.	
e. I know if the technology complies with state and federal laws and regulations.	
f. I have considered the impact on any licenses or certifications.	
g. I understand the impact of the supplier's contract obligations on my use of the technology and my data.	
h. I found suppliers and contractors that understand and align with my goals.	
i. I know how the technology will impact my insurance coverage, including types, levels, and premiums.	
Average Score	
Production I explored the changes in management practices, protocols, processes, and procedures that	Score:
will be necessary with the implementation related to:	1-5
a. Feeding and nutrition (feed cost, PMR, nutritionist skills and adaptability)	
b. Milk production and components (butterfat, protein)	
c. Milk quality and SCC levels (testing SCC)	
d. Reproduction (activity monitoring, breeding protocols)	
e. Hoof health (footbaths)	
f. Bedding management (bedding type, protocols)	
g. Herd health (hoof health, identification, monitoring, administration of medications)	
h. Data management (alerts, decision making)	
i. Animal wellbeing, behavior, and welfare	
j. Pen management and grouping strategies	
k. Milk disposal (non-saleable milk, feeding calves)	



Technology Readiness Wheel

Instructions

- 1. Write down the average score for each section below on the corresponding line (____).
- 2. On the wheel, mark the averages to see which areas need more attention and which areas you are well-prepared for. Put a dot under each section that matches the average score.
- 3. After marking all your scores on the map, connect the dots to see the shape of your preparation wheel. Any dots on or inside the bold line show areas that might need more attention.



NOTE: Scores less than 3 need attention

Tool created by Kevin Bernhardt, Farm Management Specialist with the UW-Madison Division of Extension. Survey questionnaire created by the UW-Madison Division of Extension team (Stephanie Plaster, John Shutske, Angie Ulness, Jackie McCarville, Carolina Pinzon, Leonard Polzin, Kelly Wilfert, Nesli Akdeniz Onuki, and Kevin Bernhardt).

Explore more tools and learn more about Ag Technology and Automatic Milking Systems at https://farms.extension.wisc.edu/technology



Ag Technology—Are You Ready? **Reflection Worksheet**

This tool, based on real farm interviews, helps you assess how confident you are that you have the inf fol

information needed to make a good decision about new technology for your operation. Use the following questions to find out what more information you need and what steps to take next.						
1.	Which areas were rated a 3 or lower? Which one was the lowest?					
2.	What's stopping you from having all the inform	mation you need?				
3.	. List up to ten pieces of information you need or questions you have.					
	1.	6.				
	2.	7.				
	3.	8.				
	4.	9.				
	5.	10.				
4.	4. What resources or people could help you get more information?					
Ready to move forward? Answering these two questions can set your plan in action.						
5.	5. What are the one or two most important things you should explore first?					
6.	When will you get the information by and who is responsible for getting it?					