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precision agriculture pa is a farming management strategy based on observing measuring and responding to temporal and spatial variability to improve agricultural production sustainability it is used in both crop and livestock production precision agriculture uses technologies such as gps or automation to make farms more efficient for example farmers can use auto steering equipment to precisely plant a field and activity monitors can help dairy farmers collect data about their cows health um what is precision agriculture aa precision agriculture is a general term to describe farming tools based on observing measuring and responding to within field variability via crop management it is made possible through the use of global positioning system or gps satellites or global navigation satellite system gnss which precision agriculture also known as precision farming or smart farming represents a modern approach to agricultural and crop management that leverages technology to optimize productivity efficiency and sustainability precision agriculture is an international journal that publishes innovative research on resource use efficiency productivity quality profitability and sustainability of agricultural production addresses within field natural resources variability including soil and crop variability and characteristics this report documents recent trends in the u s farm sector s adoption of digital agriculture a set of tools that may help u s agriculture address many challenges including rising production costs climate change and labor shortages as a result precision farming can improve time management reduce water and chemical use and produce healthier crops and higher yields all of which benefit farmers bottom lines and precision agriculture pa is the science of improving crop yields and assisting management decisions using high technology sensor and analysis tools pa is a new concept adopted throughout the world to increase production reduce labor time and ensure the effective management of fertilizers and irrigation processes plos precision agriculture research explores and assesses the very latest agricultural technologies whether in controlled environments or directly in the field our research highlights new methods and technologies for agricultural surveillance and intervention such as sensors and chemical testing or high tech farm machinery and machine precision agriculture is an obvious change for the better for farming there is clear evidence that where precision agriculture is widely used water and fertilizer use can go down by somewhere between 20 percent and 40 percent with no impact on yields and even increased yield in some cases by also exploring the economic profitability of precision farming approaches and its utility for sustainable agriculture precision agriculture evolution insights and emerging trends precision agriculture is an agricultural technology allowing precise production control precision agriculture includes determining the yield changes in the field and their causes determining possible solutions based on economic rationality implementing new technologies and repeating this process precision agriculture pa is comprised of near and remote sensing techniques using iot sensors which help to monitor crop states at multiple growth levels pa involves the acquisition and processing of a large amount of data related to crop health precision agriculture is also known as precision ag or precision farming perhaps the easiest way to understand precision ag is to think of it as everything that makes the practice of farming more accurate and controlled when it comes to the growing of crops and raising livestock according to the international society of precision agriculture precision agriculture is a management strategy that gathers processes and analyzes temporal spatial and individual data and precision agriculture has been developed in order to achieve more productive more profitable and environmentally sound agriculture by adjusting the

input level in the site specific manner the prospect of precision agriculture has existed for decades but many of the technologies and techniques that will enable it have been slow to catch on for 20 years pablo sobron sought a precision agriculture is a management strategy that uses cutting edge technology to gather process and analyze information to provide optimized crop inputs learn about the five r s that guide its use on farms a recent report by usda s economic research service on agricultural resources and environmental indicators highlighted the introduction of precision agriculture technologies it s what precision agriculture has promised since the 1990s if growers get more granular data about their operations and the technology they will put that newfound information to use for more efficient and sustainable farms yet sobron admits all the new technology around precision ag has yet to fully transform farming

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