



AG TECH IN CROPPING



WHAT IS AG TECH?

- > AgTech includes innovations in agriculture that aim to improve production efficiency, profitability or sustainability.
- > AgTech can be for use on-farm or anywhere from paddock to plate.
- > It can help farmers make informed decisions based on science to improve animal health, environmental sustainability and more!



EXAMPLES OF TECHNOLOGY IN CROPPING



Reference: John Deere 2023

TRACTORS & HARVESTERS

- > Tractors and harvesters have come a long way since they were first developed.
- > Current developments and research in harvesters for grain includes automated turning and guidance options and even looking into electric harvesters.
- > Assisted and automatic systems like cameras and automatic steering increase the precision and grain quality and decrease crop loss during harvest.



Reference: NASA 2023

SATELLITES

- > Space technology is becoming used regularly in crop production.
- > Some satellites have hyperspectral imaging cameras that take photos of earth from space. These photos can be used to look at environmental health, crop health and crop production.
- > When we use the photos with yield, climate, and other environmental data we can create systems that predict crop yield for the season or help us identify early issues with environmental or crop health.



Reference: XAG Australia 2023

DRONES

- > In agriculture drones can be used to look at the farm through videos but also survey crops and in applying fertiliser and seeds.
- > They can help by reducing the time or number of people needed or reaching hard to reach areas of the farm.