



Gilba Solutions provide specialty agronomic and product development services throughout Australasia.

As our name implies Gilba Solutions offers a solution driven approach to any agronomic issues that you may have. Unlike many of our competitors we offer a complete solutions driven proposition by focusing on your specific needs.



Gilba Solutions are truly independent

With over 30 years experience in product development and advisory roles in both Australia and Europe, Gilba Solutions feel they offer a unique service to the Australian turf industry. re than simply a supply company they are able to take a highly practical approach and develop tailored solutions to meet their clients needs. This coupled with their extensive supplier relationships means that they are able to source exactly what is required rather than simply what we have in stock.



Soil Scout™

Soil Scout™ provides the only wireless sensors capable of transmitting moisture, temperature and salinity data in near realtime out of sight performance from up to 2m below the surface for up to 20 years maintenance free.

Soil Scout™ takes monitoring to the next level by providing a detailed view into infield variation without any cabling as its a wireless system. Customers have seen a reduction of 15-30% in water use when they have used this.

- Avoid issues with under and over-watering
- Save money
- Utilize our most valuable resource better
- Optimise herbicide and insecticide application
- Better time when to fertilise.
- Minimise leaching.

SeeGrow-Grass™

A patented Grass growing system using a patented LED light & CO2 atmosphere Proven 10mm /24 hours leaf growth & a 28% increase of dry root weight over existing light rigs

- Savings of 60 to 80% in electricity use.
- 5 times more efficient than HPS lamps
- Uses technology which is specific to grass
- 80 to 90% reduction in carbon footprint
- Grow 10mm healthy grass per 24 hours and strengthen roots for extra durable results.

SeeGrow-Grass™ are a highly innovative company focusing on improving sportsturf performance and growth. They also offer:

- Enka Protect pitch protection solutions
- Turf fans designed specifically for golf courses and sportsgrounds.
- water pH management solutions.

Omne Turf™

Our range of **Omne™** sensors consisting of clima, aqua, aqua atom and terra is designed for the turf industry offering rugged realtime **relevant** data allowing Turf Managers to be better informed in makng decisions relating to irrigation or even disease, pest or weed control.

There are upwards of 200 different sensor configurations available with this number being added to all the time.

- No cabling
- GSM or wifi options available.
- Wifi has a range of up to 70km.
- Solar powered
- User friendly proprietary software.
- Small size 400g weight.
- 3 year hardware warranty
- Options available to monitor soil conditions, climate or water quality.

SOIL  SCOUT



Gilba Solutions offer a unique solutions driven approach to their current and future clients with state of the art, simple to use technology.

Technology is constantly evolving which is why Gilba Solutions has aligned itself with some of the turf industries most innovative companies. We deal closely with companies a number of companies focusing on optimising turf growth and recovery, better managing your most valuable asset (water) and even remotely assessing grounds usage.



Gilba Solutions truly believes in making your life easier

Technology is constantly evolving which is why Gilba Solutions has aligned itself with some of the turf industries most innovative companies. All of these focusing on optimising your turf growth and recovery, help better manage your most valuable asset (water) and enable monitoring grounds usage and water use with the aim being to produce the best possible turf surfaces.

Unlike many companies with have a genuine passion for our work which is why we are constantly looking for solutions to any problems that you may have.

Plant Protection

Just because its made in Australia should not mean a reduction in quality and in fact many innovative companies exist in the Australian turf pesticide industry who, because they are familiar with the conditions prevalent here are actually able to better offer tailored solutions specific to here. **Indigo Specialty** are a prime example of this. Plant Protection options Available:

- Insecticides
- Herbicides
- Fungicides
- Pigments
- Elicitors of Plant Response (EPR)

Being more environmentally responsible and using less pesticide whilst maintaining quality surfaces should be the aim of all turf managers. The introduction of **Vertmax Duo** and **SAR-G** both with **QDT™** technology addresses this.

Intelligent Play™

An innovative technology for field management using artificial intelligence and machine learning. This technology makes fields play better, play longer and play safer.

It is the only technology on the market using artificial intelligence and machine learning to remove the risk of human error for monitoring and managing the status of your sports field.

- Accurate realtime data from your sports field will help you manage and improve surface performance.
- A well maintained quality field surface plays better and ensures consistent player safety.
- Compact sensor design ensures the units can be discreetly installed without affecting the aesthetic of your fields.

Seed

Improvements in plant genetics are leading to rapid advancements in plant breeding. In the most recently completed independent NTEP trials completed in 2014 **Mountain View Seeds** had three of the top 5 best performing perennial ryegrass cultivars and the top ranked bentgrass cultivar.

These have been bred with specific traits such as disease resistance, drought tolerance or an increased ability to withstand wear. The Alliance for Low Input Sustainable Turf is an example of how this work is being used in the marketplace.

- **Grand Slam GLD™** perennial ryegrass
- **Apple SGL™** perennial ryegrass
- **Stellar 3GL™** perennial ryegrass
- **Breakout™** with Smooth Transition Technology (STT)
- **Torsion™** Lateral spreading ryegrass
- **Piranha™** creeping bentgrass.
- **Bluemuda365™**

Kreotec™

Kreotec's proprietary formulation allow the selected strains of bacteria to be foliar applied to directly inoculate the plant.

Once inoculated, the bacteria colonise the plant and are able to fix atmospheric nitrogen and this leads to elevated levels of nitrogen available to the plant. The improved nitrogen use efficiency has the dual benefit of increasing crop productivity whilst reducing the amount of nitrogen lost into the environment.



VERTMAX™ DUO with QDT™. Having identified the market is moving more toward reduced pesticide usage coupled with improving plant health Gilba Solutions has been working for the last 4 years on developing a turf specific Elicitor of Plant Response (EPR). When used this results in Systemic Acquired Resistance (SAR) and an increased ability of the plant to handle abiotic stress such as heat, and biotic factors such as disease. An EPR has now being commercialised as a stand alone product being incorporated into our market leading pigment **Vertmax™** under the **Vertmax Duo™** brand.

Systemic Aquired Resistance SAR)

This is basically an immune response to stress. When turf for example comes under stress as a result of, for example a pathogen, salicylic acid is translocated throughout the plant to counter this. This response results in a number of positive reponses such as an increased ability to fight disease, increased drought tolerance and improved seed germination.

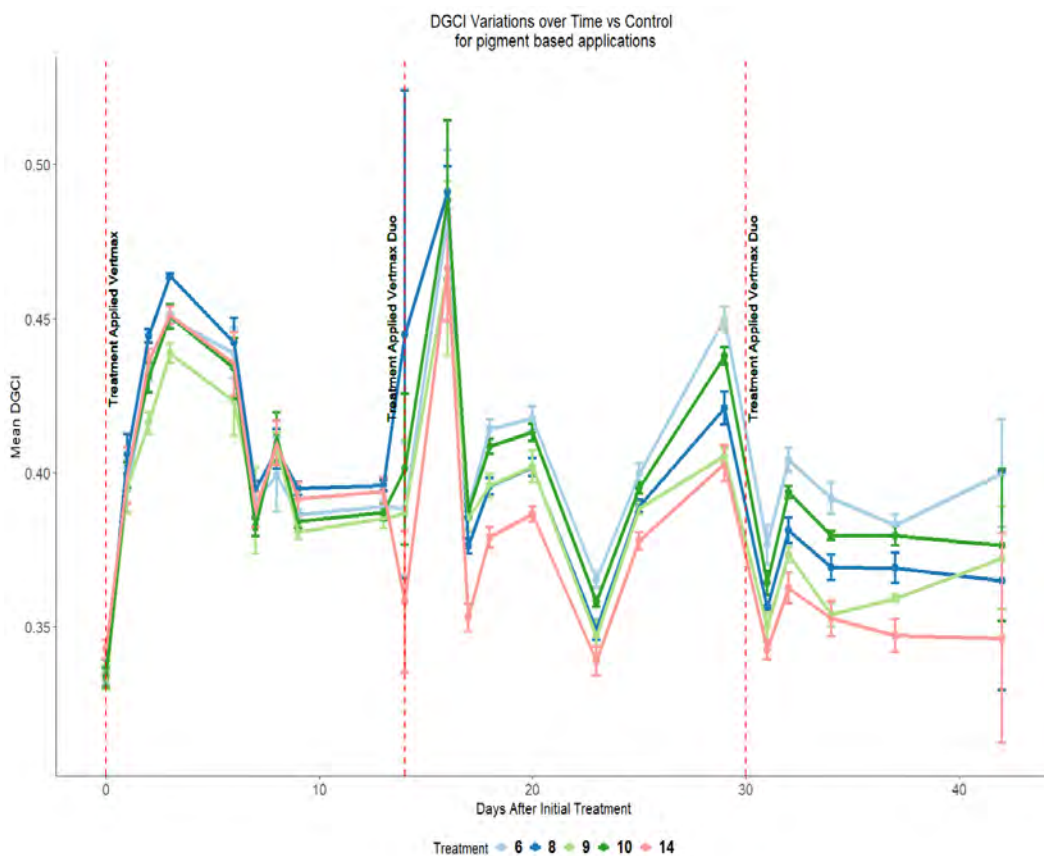
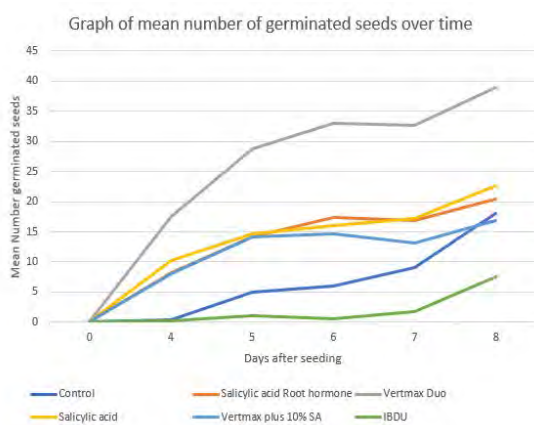
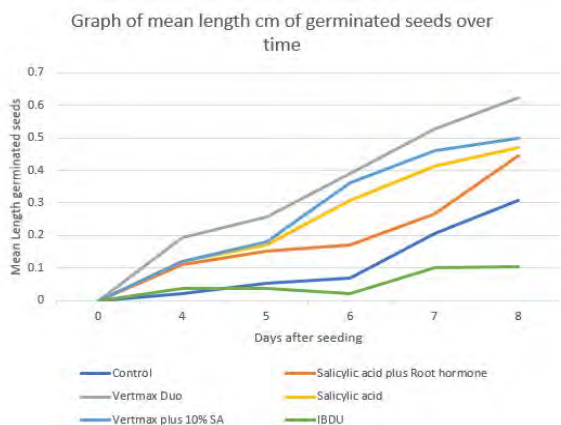
Development

Now for the first time the benefits of plant health products are available as a standalone turf specific product to boost turf health. This offers exceptional tank mix compatibility and makes sound economic sense.

Trials

Extensive field and lab trials have been carried out in the development of this product. In germination trials use of **Vertmax Duo™ with QDT™ (Quick Dry Technology)** showed significantly faster germination and growth compared to standard practices.

Temperature stress testing has been carried out on perennial ryegrass turf up to 42C with exceptional results as shown opposite with turf exhibiting more rapid recovery and greater root growth following application.



Trials

In field trials carried out on a mixed *Agrostis/Poa annua* green both **Vertmax™ Duo** with **QDT™** (Treatment 6) and **Vertmax™ plus Grenadier™** (Treatment 10-fosetyl aluminium) outperformed the current pigment based market leaders. The control was Treatment 14.

The combination of high pigment loading, EPR and QDT (Rapid Dry Technology) gives superior results to anything else currently on the market.



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