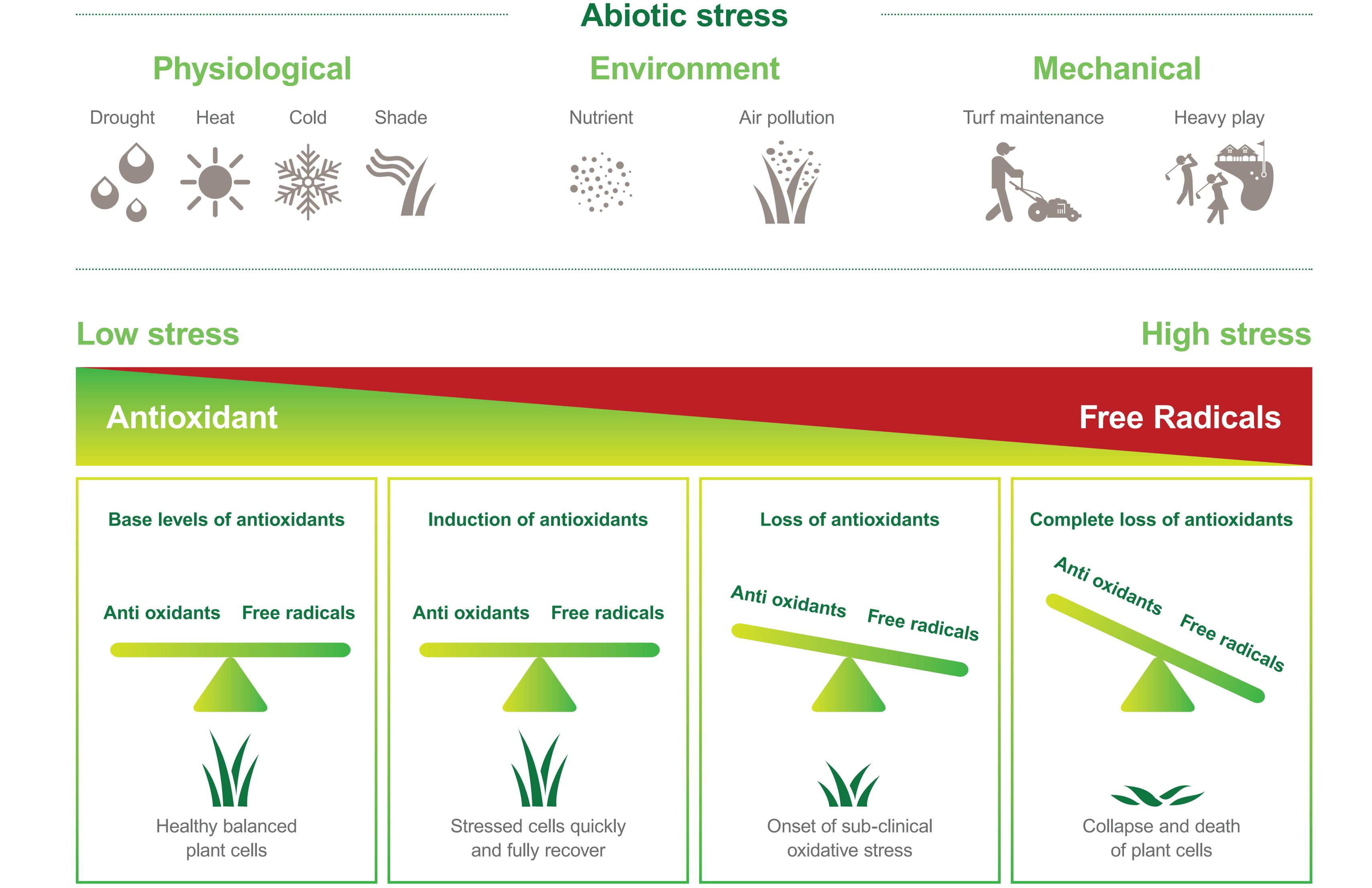
New agronomics to enhance turf health

New turf agronomics that utilise exciting combinations of fungicides, growth regulators and wetting agents could alleviate plant stress and enhance turf quality, to produce consistently improved playing conditions right through the year.

Turf stress factors

Biotic stress

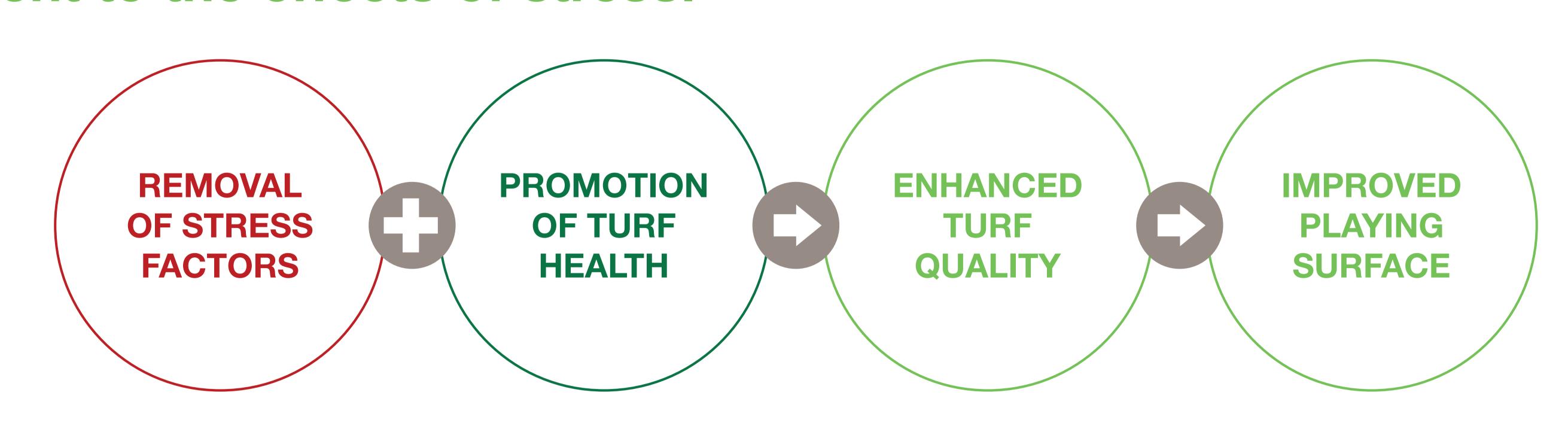


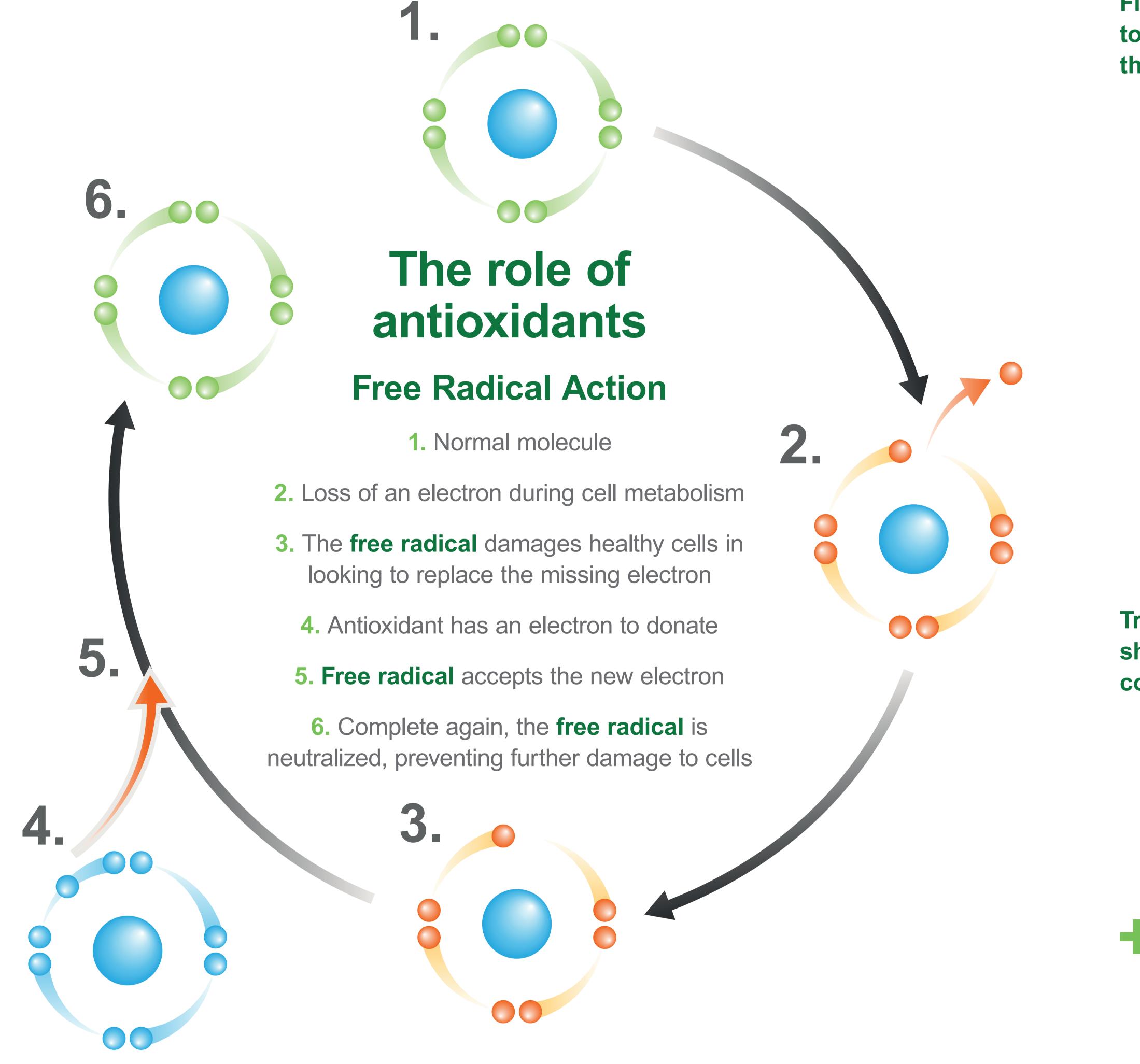
How do product combinations work to target free radicals and relieve stress?



The science of stress busting

The key to stress busting is: (a) to remove or alleviate the stress factor, and (b) to make the turf plant stronger and naturally more resilient to the effects of stress.





In practice, increased chlorophyll has a number of benefits for turf plants:

Carbohydrate reserves can be built-up that provide season-long health benefits

In shaded conditions, plants make better use of available light

Leaves retain better colour and

nutrients, can be better utilised

Other inputs, such as water and

In addition, Primo Maxx can reduce physical effects of leaf damage and stress by:

- Reducing mowing frequency
- Giving greater opportunity to alternate cutting and rolling
- Enabling faster recovery from maintenance operations, such as aeration

Firstly, Primo Maxx has been shown to increase antioxidant activity within the plant leaf by up to 40%.



antioxidant activity

Trials at Rutgers University have shown a 60% increase in chlorophyll concentration in treated leaves.

60/6 chlorophyll concentration

In drought induced stress conditions the relative water content of turf leaves remained a healthy 20% higher than untreated 28 days after treatment.



Soil water management to stop stress effects

For most greenkeepers and turf managers, the major challenge is soil water management – maintaining the optimum balance of soil water and air pockets for healthy root development and plant growth.



Anaerobic conditions
Roots die back

Nutrients lost through leaching and run-off

SOFT surfaces

High damage from player movement

Polymer: Hydrophobic soil leaves dry areas where roots are

Qualibra: Deep and even distribution of soil moisture with

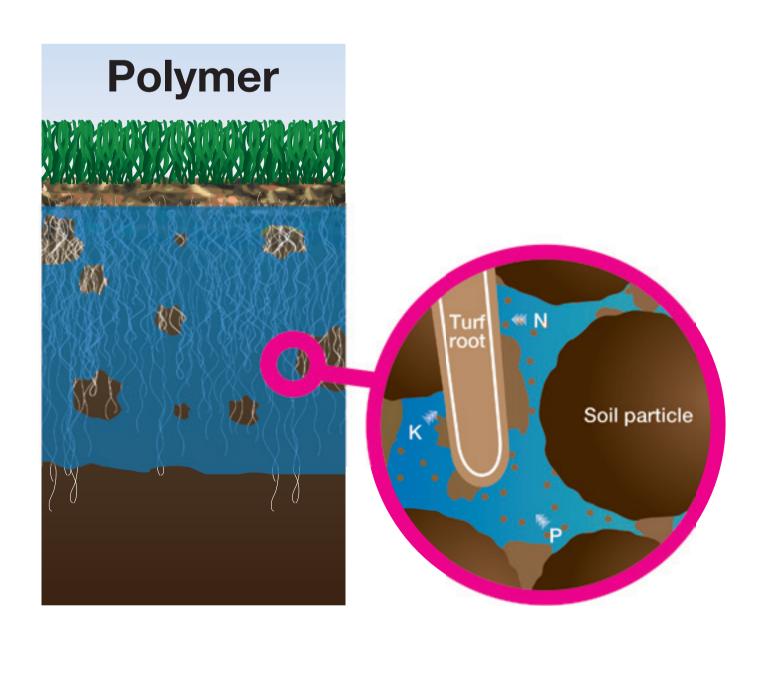
Qualibra treatment enhances root to soil water contact and prevents



Roots die back
Reduced uptake of nutrients
Drought stress on plants
Risk of dry patch
Increased risk of heat stress

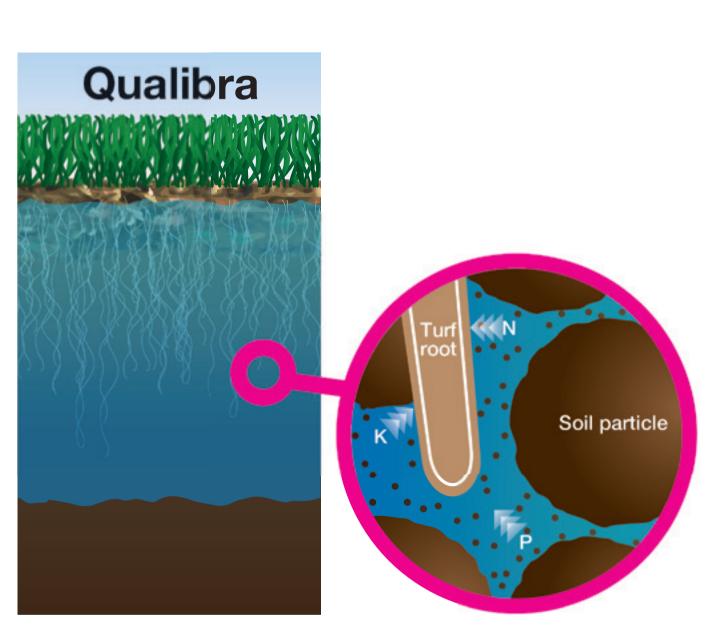
HARD playing surfaces

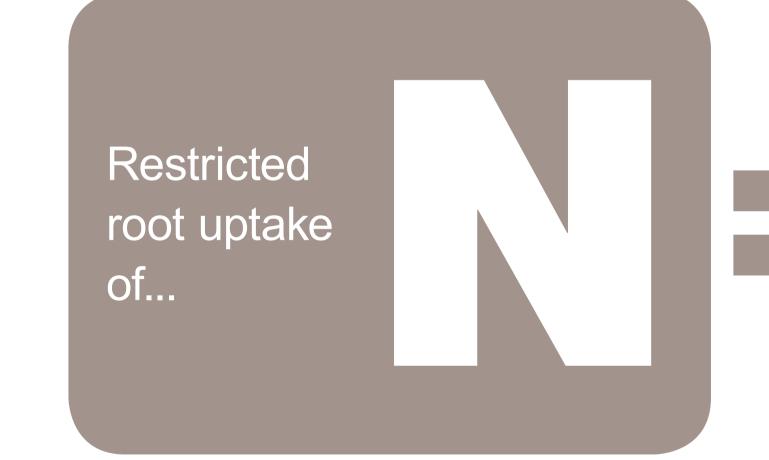
Reduced density and surface consistency



unable to take up water or nutrients.

the formation of dry patches.





Yellowing of leaves
Reduction in photosynthetic activity
Weakened growth and poor health



Loss of turf leaf turgorYellowing of leavesIncreased stress on turf plants

