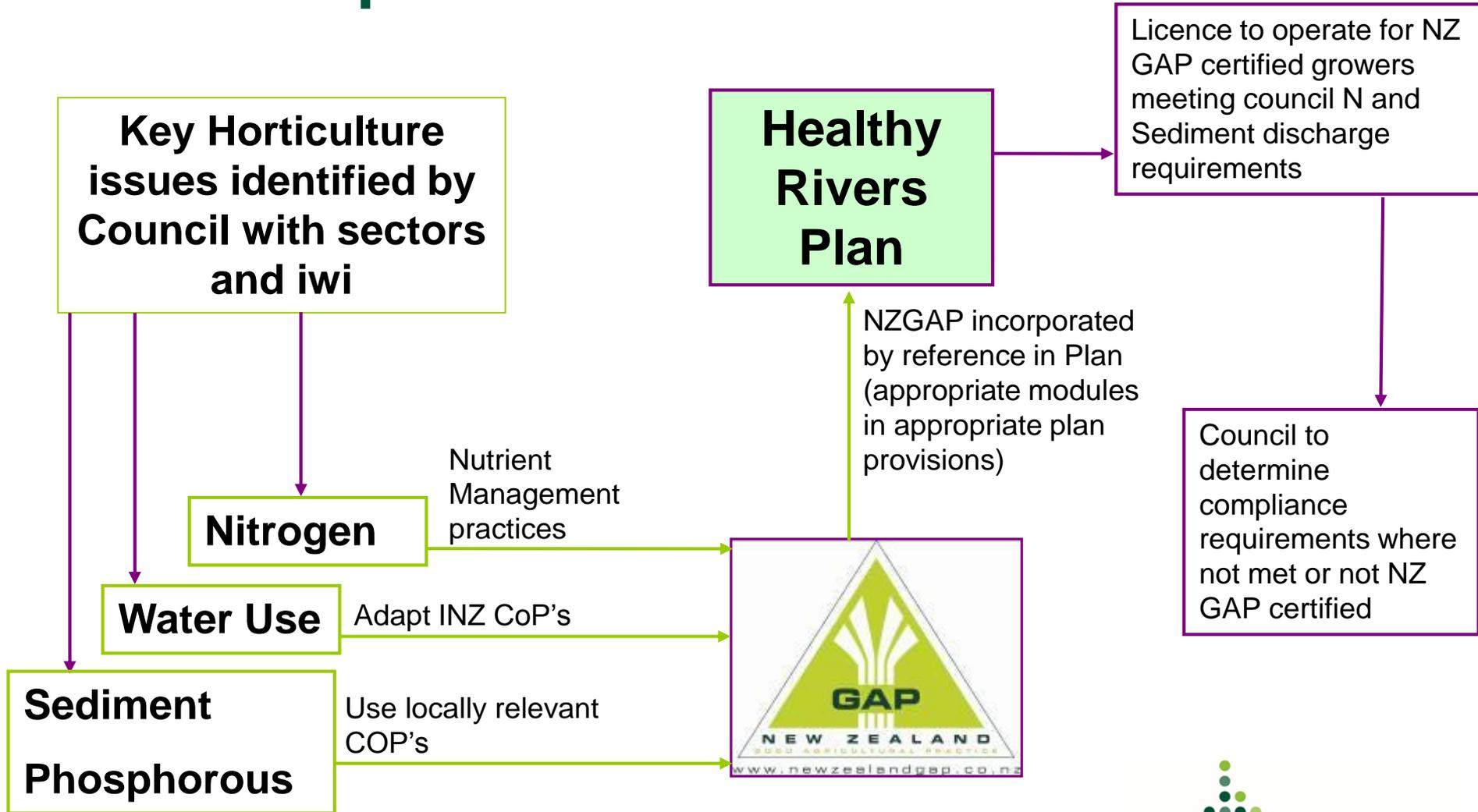


Sustainable practice and farm planning for the Horticulture industry

CSG Presentation



Plan Proposal for Councils



Waikato / Auckland

•Practice identification nearly complete to current

–Irrigation Guidelines completed in partnership with WRC / PVGA

–Erosion & Sediment control guidelines for Vegetable Production

- Consultation with WRC, Auckland Council
- Iwi / hapu invited to comment – attended workshop and approved
- Environmental NGO's invited – did not attend

–Nutrient Management Code of Practice

- Final draft being reviewed by PVGA
- Extended consultation with Councils / iwi (ENGO's will also be invited) to follow next three months

•Farm Plan process commenced:

–Benchmarking completed (economic and nutrient leaching footprint)

–ECAN / Horizons templates being used and adapted for Waikato

–Grower approval is necessary

–Different to arable approach of menus and farm plans

Research underway

“Don't muddy the water”

- ~\$750k over three years
- Measure phosphorous and sediment flows with and without good practice

\$75k Glasshouse nutrient modelling & practice revision

“Rootzone reality programme”

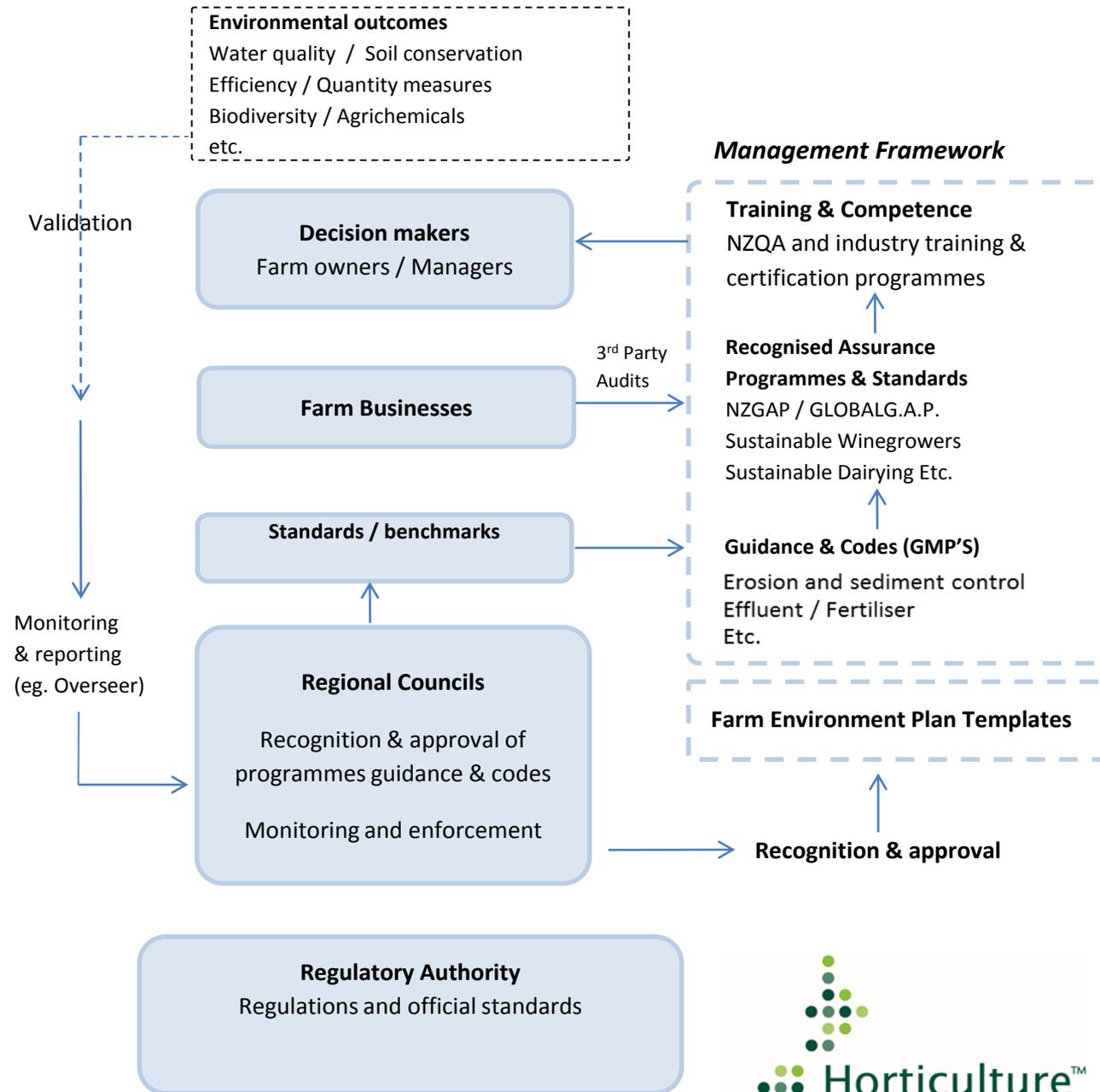
- ~ \$900k over three years
- Fluxmeters across country under cropping – real measures
- AC, EW Partnering

Nutrient management workshops

Requires a partnership approach

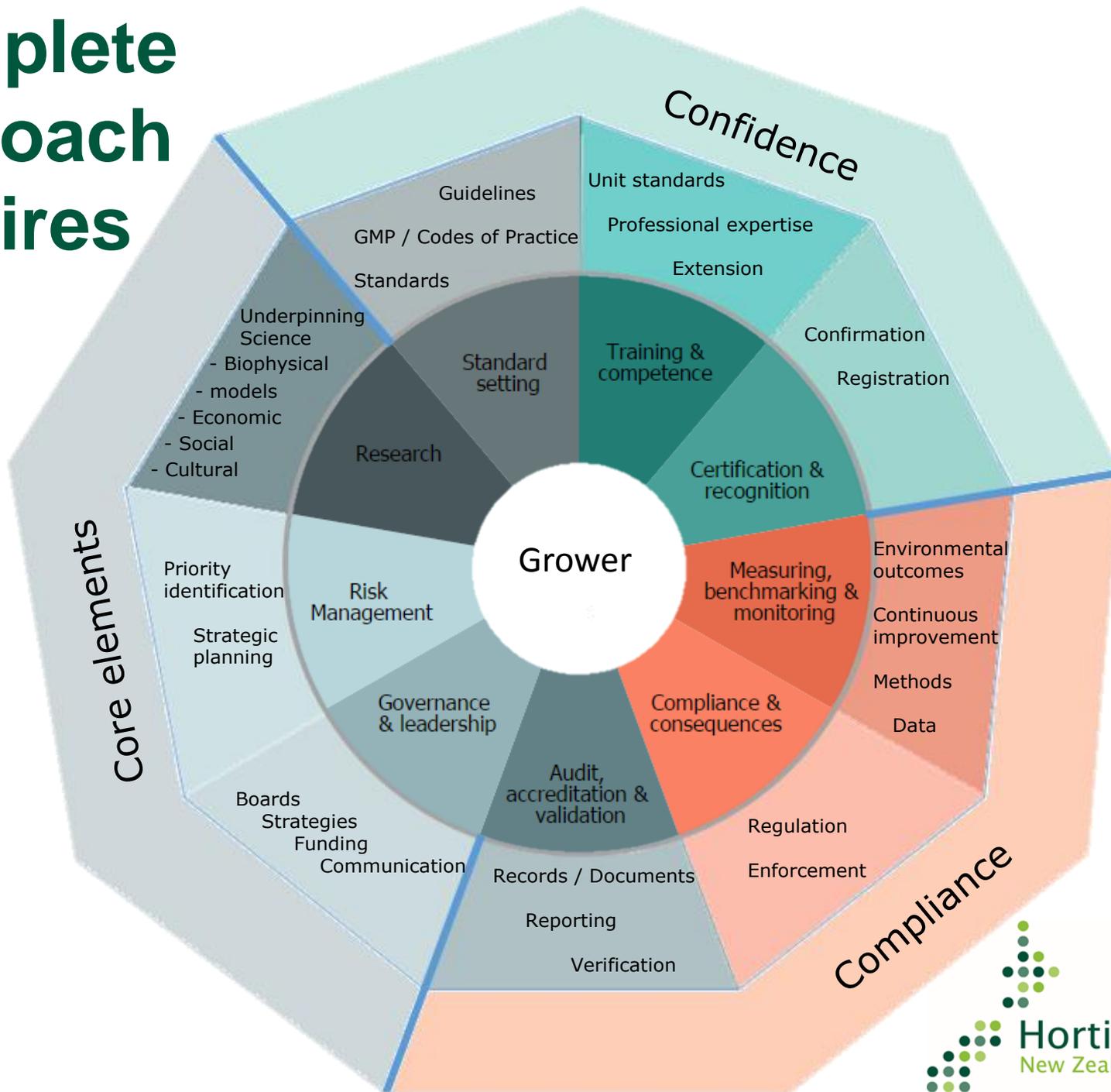
- Regulators and industry get the best results working together
- Industry assurance programmes with independent auditing are key to success
- Council can reinforce those systems with a regulatory oversight
- Requires trust and partnership to develop the systems that work
- Third party approvals are also important (transparency)

Where does it fit?



Complete approach requires

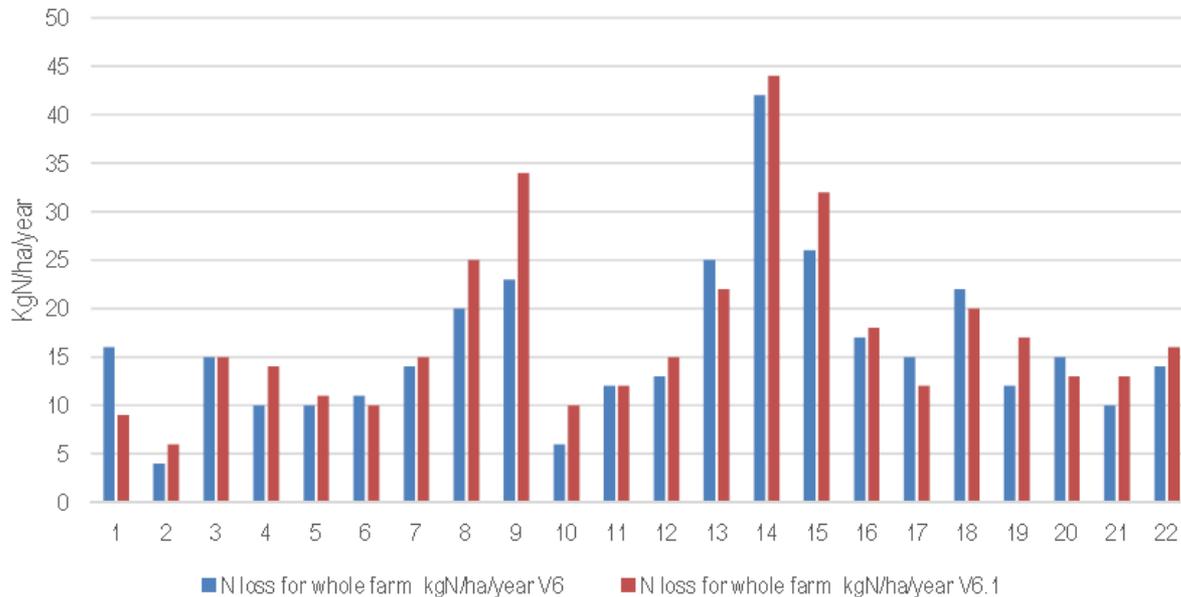
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Overseer continues to improve but ...

Figure 1 Showing leaching results for the same farm data across a range of arable farms in Canterbury, under different versions of OVERSEER 6.

Overseer version comparison - Arable farms



- Overseer highly unstable in cropping regimes currently: 150% variance in N outputs between Version 6.1 and 6.3 (6 months).
- More important: identify the right practices, ensure they are undertaken by growers.
- Reassess using Overseer every five years – in between, require data to be kept for analysis

Next steps

- Finalise NMP Code (cropping)
- Work between Council and HortNZ to put methods in the plan change to test with CSG membership
- Continue to develop and improve NZGAP to work for commercial vegetable production
- Incorporate arable solutions
- Solution for fruit sector