

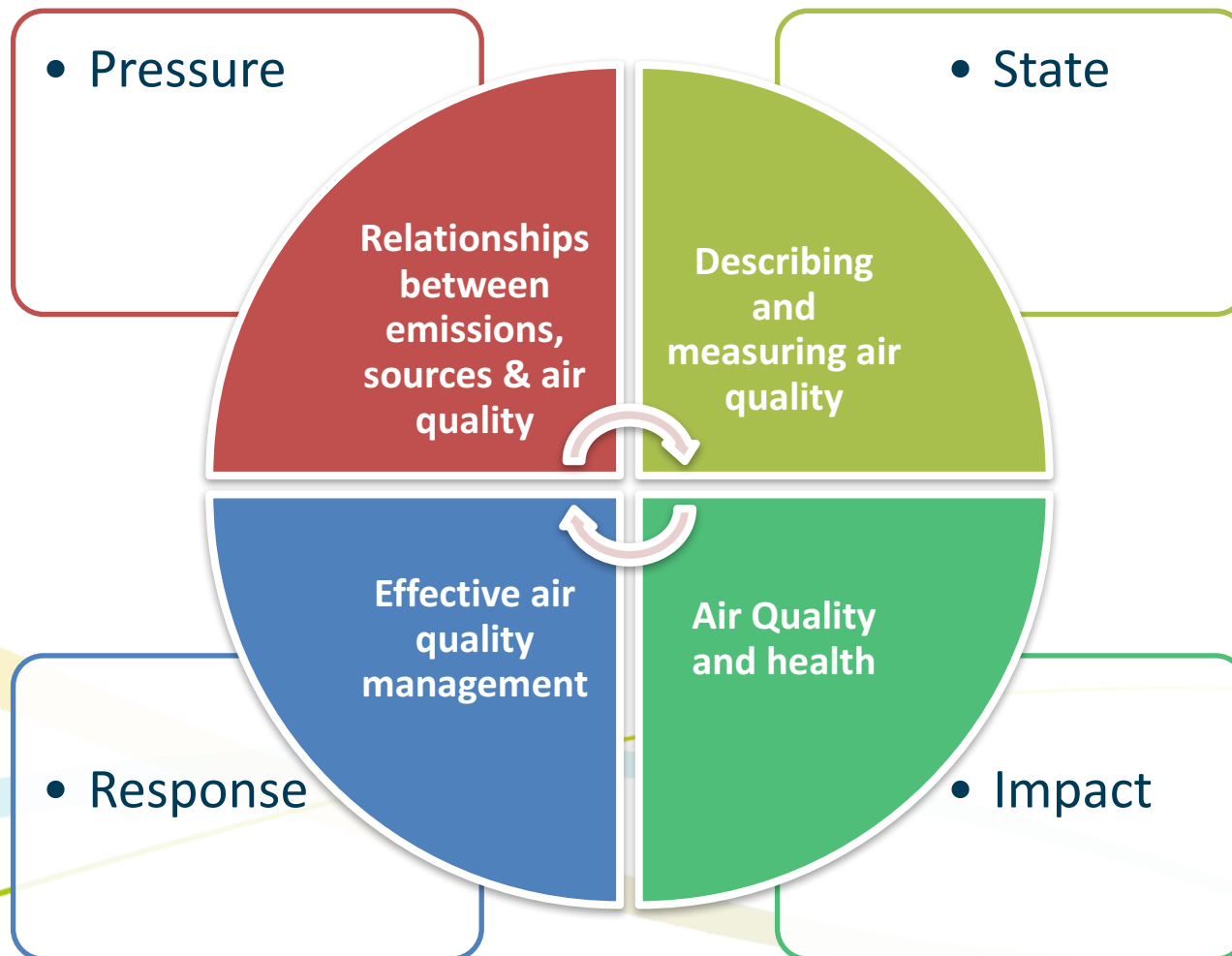
National Air Quality Working Group (NAQWG)

SIG Research Strategy Workshop

20-21 July 2017

NAQWG Research Priorities – Broad areas

The National Air Quality Working Group began developing a research strategy in 2011. Four main priority research areas were identified within the Pressure, State, Impact, Response framework.

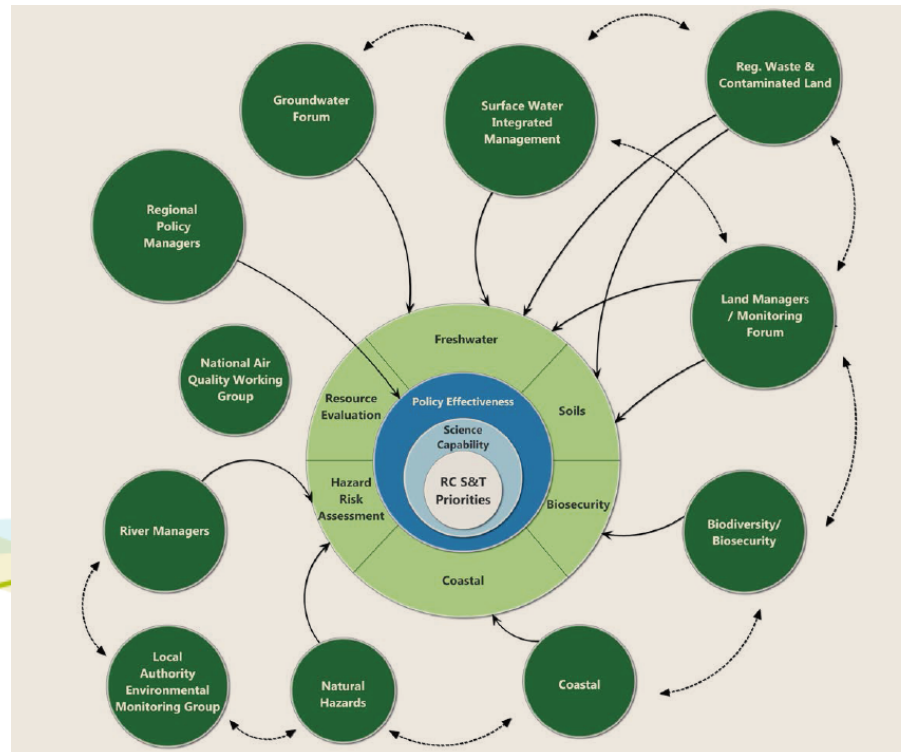


Strategic Issues

- National direction – NES review
- Being heard

The analysis of funding split by research objective is more reliable than the split by theme, as fewer assumptions are involved. Some findings of this which are consistent with previous anecdotal evidence are that there is relatively little:

- climate change mitigation research except for agricultural greenhouse gases
- air quality research.





• PM2.5 and health – what is the appropriate standard, policy or guideline?



• Meteorological influences on air quality



• Affordable monitoring methods, low cost networks for spatial variability



• Emission factors, real life – do ultra low emission burners really deliver?



• NEMS



• The prevalence of air toxics, e.g. arsenic



• Source dependent impacts – the effects of contaminant mixes



• Pooling Council resources to achieve savings in procuring instruments/services



• Public communication of air quality, how multimedia could improve it



• PM2.5 monitoring information gaps

R

- Influencing people's behaviour

R

- Technological solutions e.g. domestic emissions control, broader infrastructure

P

- Anthropogenic emissions evaluation methods (inventories and modeling)

P

- Formation of secondary particulates in NZ

I

- Community level (vulnerable populations) exposure to air pollution

I

- Suitable monitoring targets – black carbon, metals, particle number versus mass

P

- Co-benefits of improved air quality – e.g. with climate change

S

- Big data – citizen science and what does big data analytics have to offer?

S

- Natural sources

R

- Assessment of behaviour change programmes that have been implemented