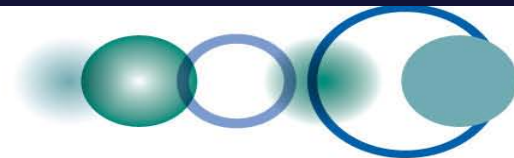




Working Group 7:

In-situ / remote sensing integration
and modelling across scales

i.e. the “modelling group”



Working Group 7 members (yellow = present at Asilomar):

Simon Ferrier (lead), CSIRO, Australia

Rob Alkemade, PBL, Netherlands

Susana Baena, Kew Gardens, UK

Graeme Buchanan, RSPB, UK

Dan Faith, Australian Museum, Australia (*also in WG1*)

Martin Herold, University of Jena, Germany

Walter Jetz, Yale University, USA

Jeremy Kerr, University of Ottawa, Canada

John Leathwick, NIWA, New Zealand

Terry Parr, CEH, UK

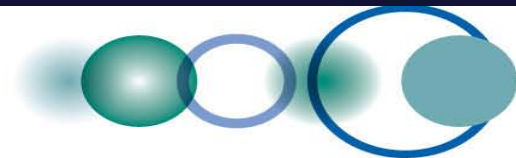
Roland Pitcher, CSIRO, Australia

Florencia Sangermano, Clark University, USA

Jörn Scharlemann, WCMC, UK (*also in WG1*)

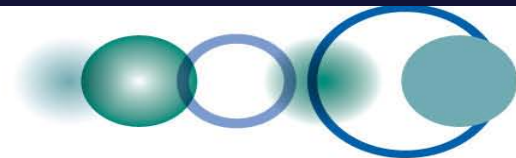
Paul Somerfield, Plymouth Marine Laboratory, UK (*also in WG5*)

Woody Turner, NASA, USA



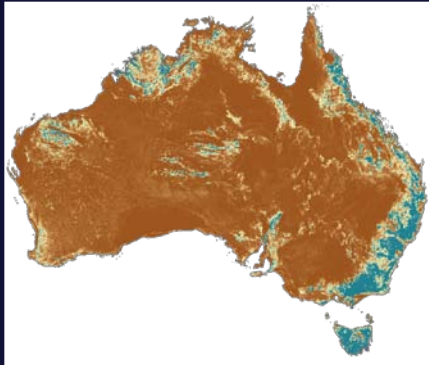
Role of Working Group 7

- Focus on integrating in-situ & remote-sensing observations through modelling
- Focus (at least initially) on change observation & assessment (past to present) rather than on future scenario analysis
- Cut across multiple biodiversity levels (genetic, species, ecosystems) & multiple environments (terrestrial, freshwater, marine)
- Support, and complement, modelling activities of other working groups
- Build on, and add value to, modelling initiatives beyond GEO BON



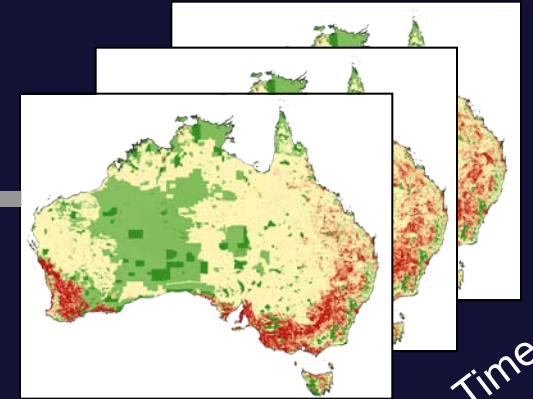
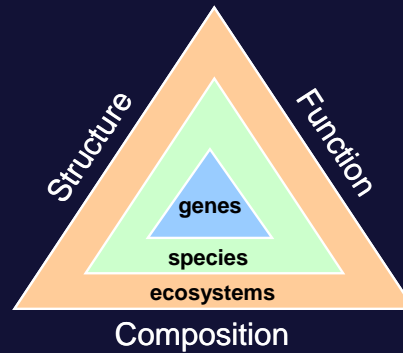
Temporal frequency of observations

Spatial completeness of observations



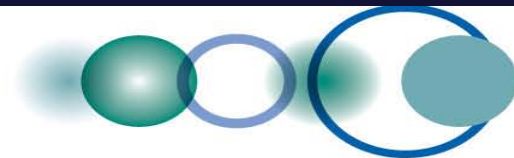
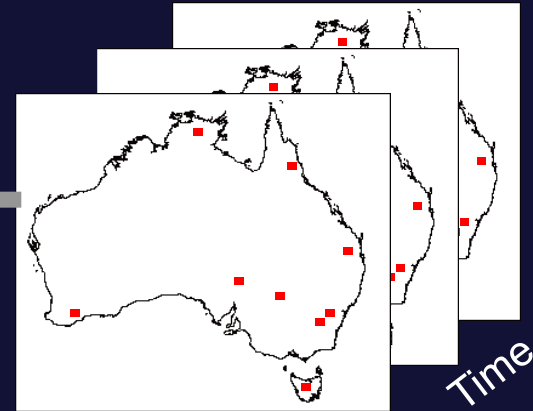
Remote one-off mapping
(e.g. terrain, soils)

In-situ one-off observations
(e.g. species records)



Remote change detection
(e.g. land-use change)

In-situ change detection (e.g. long-term monitoring sites)



REMOTE

IN-SITU

Base environmental layers (terrain, climate soils etc)

Base biological data (e.g. species location records)



Modelling the 'baseline' distribution of biodiversity

Remotely-observed change in ecosystem use, condition & abiotic attributes



Interpreting remotely observed change through the 'biodiversity lens'

testing



In-situ biological & ecological monitoring

Threats, & projected changes in use, climate etc

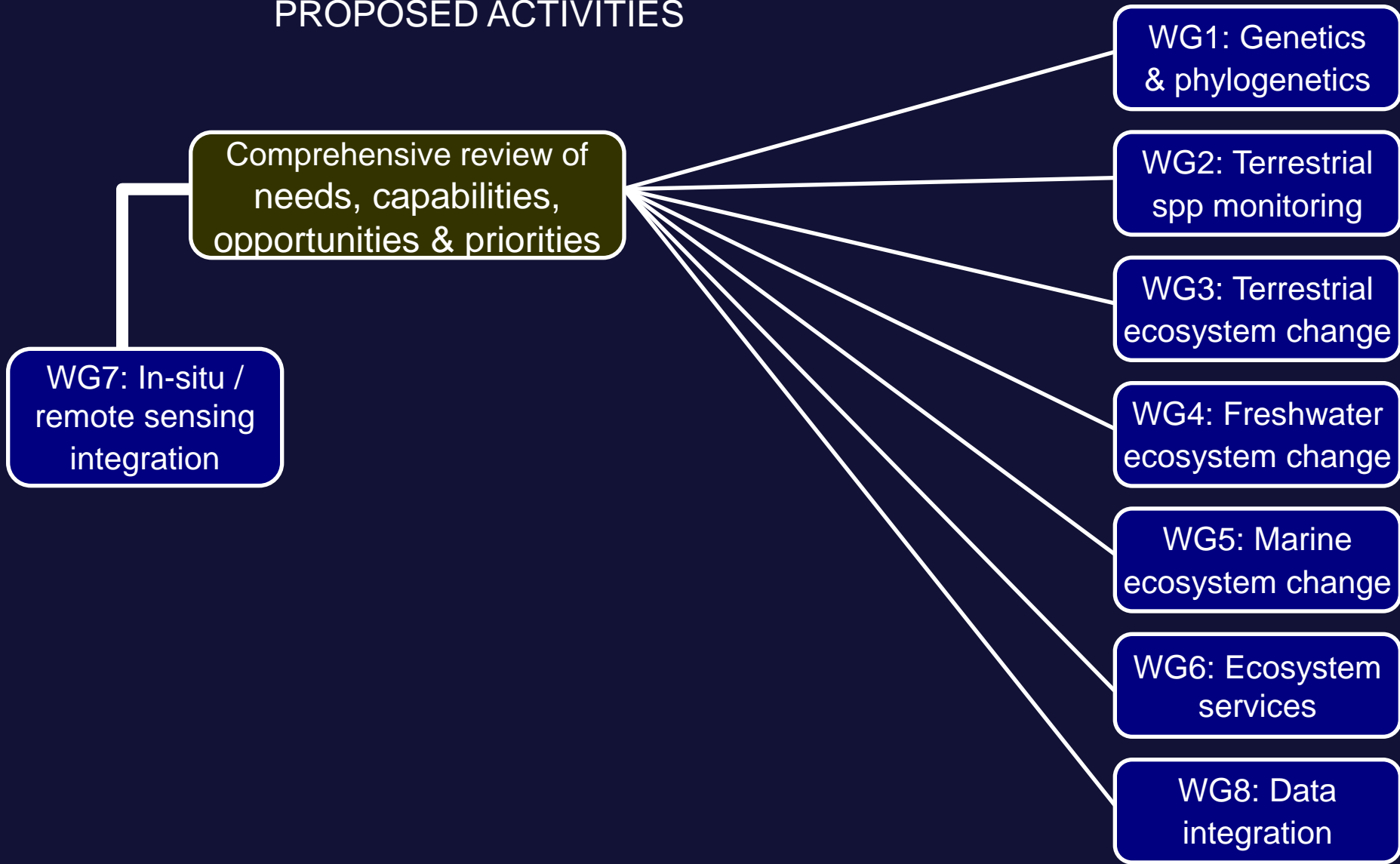


Forecasting future change (scenario analysis)

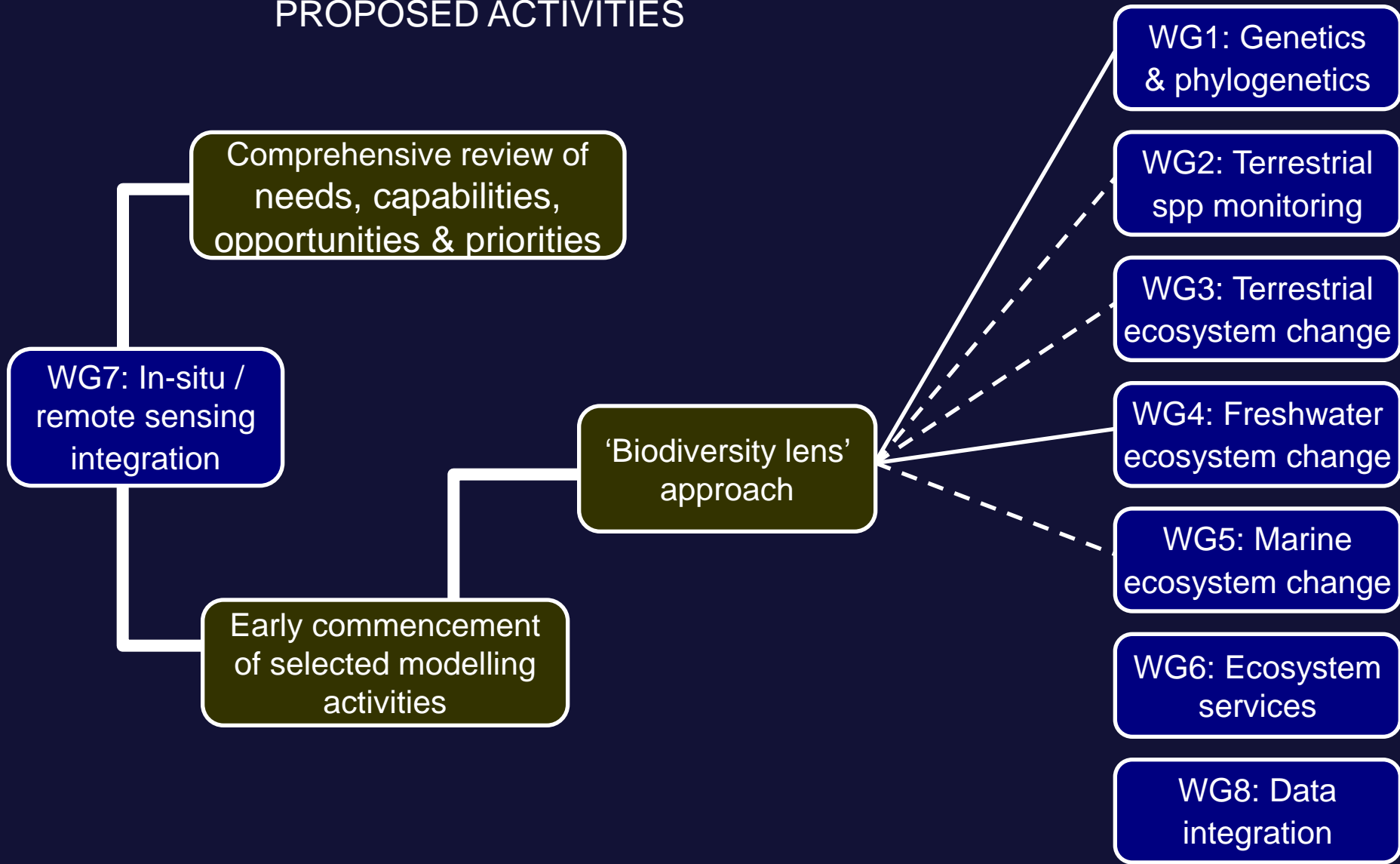
calibration



PROPOSED ACTIVITIES



PROPOSED ACTIVITIES



PROPOSED ACTIVITIES

