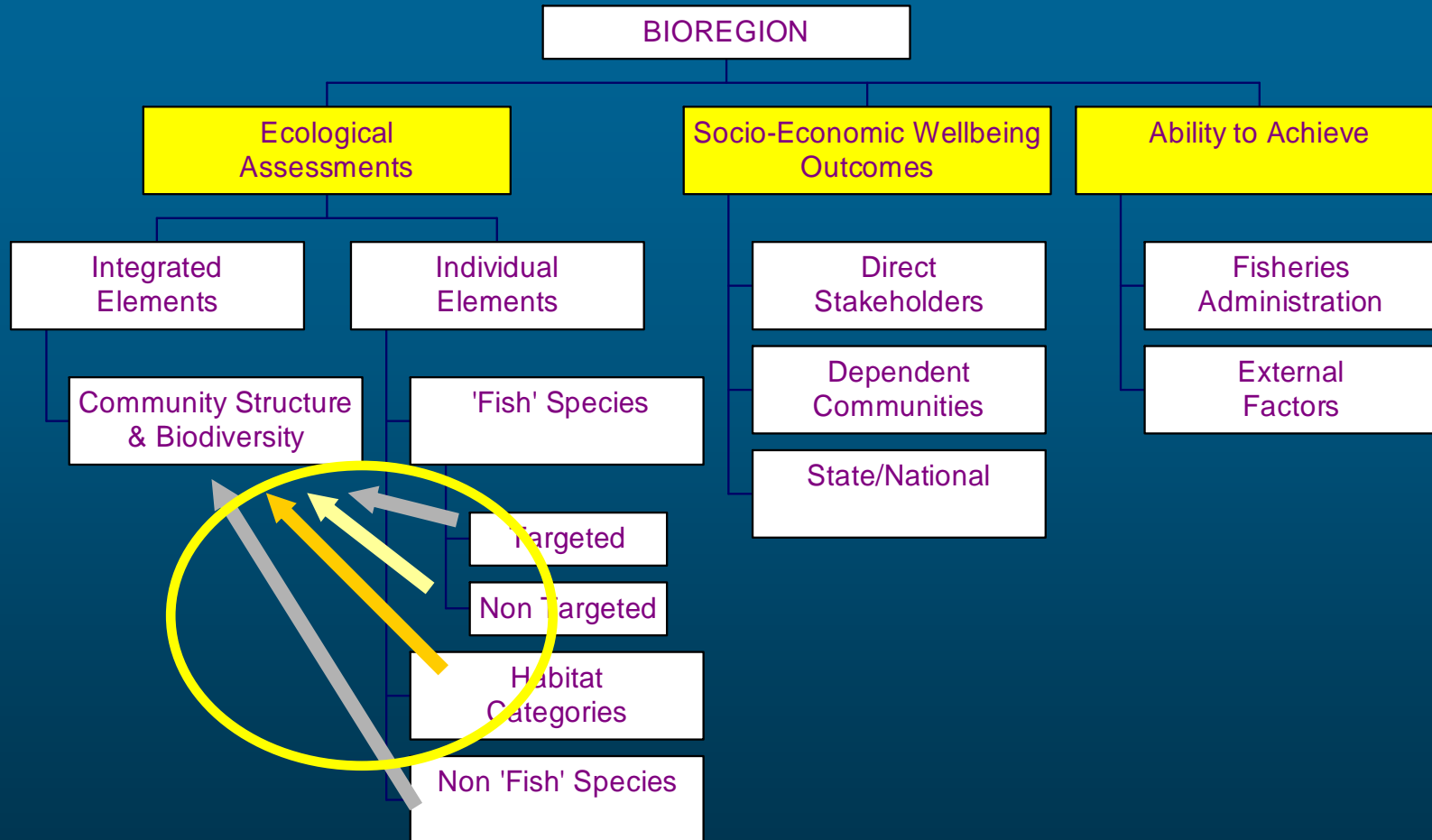


4.3 Trophic interactions and ecosystem modelling for EBFM

Neil Loneragan

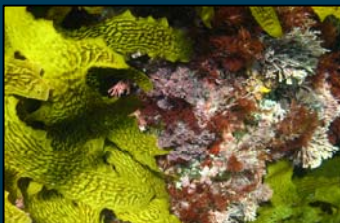


EBFM FRAMEWORK



4.3 Trophic interactions and Ecosystem Modelling

Management Questions



1. What are the possible indirect impacts of fishing on food webs and trophic interactions ?
2. What types of experimental studies would be needed to examine the indirect effects of fishing on food webs and trophic interactions?
3. For ecosystems that have changed significantly (estuaries), can models increase understanding of the impacts and
 - a) can models be used to assess management changes (fisheries vs other management) and long term effects (climate)?
 - b) can models be used to assess management changes (fisheries vs other management) and long term effects (climate)?

Major components of the project

4.3.1 - Trophic interactions and aquatic food webs

a - Trophic interactions of lobster

Deep water **DoF**

(Lynda Bellchambers, Matt Pember)

Shallow water **Edith Cowan Uni**

(Glenn Hyndes and Pippa Moore + Honours)

b - Marine and estuarine food webs

Demersal food webs **DoF, Murdoch**

(Dan Gaughan and Sarah Metcalf,
Ian Potter, Margaret Platell, **Ben French - PhD**)

Estuarine food webs (**Thea Linke - PhD**, Steeg Hoeksema)

4.3.2 - Ecosystem modelling Murdoch, CSIRO, DoF

(Norm Hall, Sarah Fretzer – PhD, Jeff Dambacher, Hector Lozano)