Model feature focus questions

- **Do surplus production models and delay-difference model need to be explicitly included or is an age-structured model adequate?**

- **Does the general model need to include a VPA type approach?**

- **Should data-poor methods be integrated into the next generation general stock assessment models?**

- **What system should be used to decide what features are included in the next generation model?**

- **Does the general model need the capability to allow the distribution of length-at-age to change over time?**

- **How can size-structured models be included in the general model?**

- **What time step should be used in the model?**

- **Should parameters allow for density dependence?**

- **Does the general model need multi-species capabilities and should they be just technical interactions or include trophic interactions?**

- **Should meta-analysis (Robin Hood) approaches be included in the general model?**

Model feature focus questions

- Should the general model include automatic data weighting approaches for all data types?

- Is the inclusion of multivariate likelihood functions necessary for the index, index composition, and catch composition data.

- Should a comprehensive set of likelihood functions be included?

- What type of facility for including prior information should be available in the general model?

- Should simulation and MSE features be included?

- Is treating the future recruitments as parameters in a likelihood context adequate to model projections or should alternative approaches be used?

- Can close kin methods be integrated into the general stock assessment model?

- Are current integrated tagging models adequate or are finer spatial scales needed to deal with non-mixing?

- How should archival tag data be integrated into the general model?

- What quantities should have estimates of uncertainty?

- Is tagging data by predetermined age adequate or does the model need to convert from length to age?

User interface

- Should all possible features be included or just those that are considered good practices?

- What kinds of comprehensive user interfaces are worth the effort?

- Given the wide adoption of R, the next generation model should have an R based package to view results and diagnostics.

- Should there be a comprehensive error checking system?

Coordination, project planning, and funding.

- Should the code for a new general model should be open source?

- Is a next generation model necessary (as opposed to continued development of existing models)?

- What factors have influenced the rate of adoption of existing models and what lessons can be learned from those experiences?

- What characteristics will foster sustained contribution to the development and continued improvement of the next generation stock assessment model?

- Is it necessary to be able to replicate results from existing stock assessment models to provide a bridge for users trying to make the transition to a new model?

- Should available resources be combined and dedicated to a single next generation model or should several next generation models be constructed by different groups?

- Casal2 is working to be a hugely dynamic, easy to use, easy to fix and easy to conduct research with platform.

- How should the next generation model be funded?

- Long-term ongoing funding will need to be secured, because general stock assessment models will always need maintenance and further development.

- What project management system and software should be used to develop the next generation model?

- Is there still a need for custom coded assessments if a comprehensive general model is available?

- How can we learn from other projects?

- The whole world is now based on computer programs and therefore there is a large amount of

- What tasks are required to maintain a software package?

- Who should use the next generation stock assessment mode?

- Does the next generation model need automatic report writing?

- What kind of code testing will ensure that the model has been implemented correctly?

- Abstracts in meeting report

- Special issue (deadline around June 2020)

- Presentation and recordings on web

- Distribute e-mail contacts

- Zoom has some comments

- Underlying language
- General partition in back end, specific partition on front end