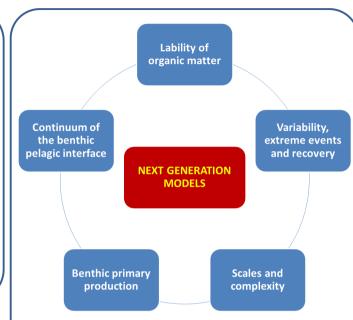
A multi-disciplinary consortium approach for advancement of conceptual frameworks, modelling and experimental approaches to benthic-pelagic coupling

AIMS:

- To develop a fully updated conceptual understanding of benthic-pelagic coupling
- To set the priorities for next generation models of benthic-pelagic interactions and their response to global stressors
- To identify key issues concerning the calibration and validation of models and inform experimental and observation approaches
- To seed a trans-disciplinary community
 able to develop such a coupled modelling –
 empirical approach and train the new
 generation of scientists in this direction.

OUTCOMES:

- A perspective paper is in preparation, summarising the vigorous discussion and highlighting the major challenges for next generation marine ecosystem models (see figure)
- The workshop organisers will convene a session on this topic at the next EGU Annual Assembly (Vienna, 17-22 April 2016) to extend the discussion to the broader scientific community. The session title is Advancements in benthic processes and benthic-pelagic coupling research, convened by Arthur Capet, Karline Soetaert, Andy Dale, Gennadi Lessin. http://meetingorganizer.copernicus.org/EGU2016/session/21068
- A trans-disciplinary community with broad range of capabilities has been formed building on existing two-ways collaborations



These 5 priority areas for multi-disciplinary research have been identified for the advancement of coupled benthic-pelagic models. Major knowledge gaps and possible ways forward were also discussed.

NEXT STEPS:

- Follow-up meeting (investigating for institutional or international support, e.g. EGU splinter meeting)
- Joint research activities in ongoing projects (e.g. H2020 STEMM-CCS)
- Planning new proposal for research project and/or training network (e.g. H2020 MSCA-ITN)

If you are interested in any of these future activities, please contact Yuri Artioli, yuti@pml.ac.uk or Gennadi Lessin, gle@pml.ac.uk

Organising committee: Y. Artioli (PML), J. Blackford (PML), G. Lessin (PML), J. Middelburg (UU), R. Pastres (UNIVE), K. Soetaert (NIOZ), C. Solidoro (OGS), N. Stephens (PML)

Participants: E. Almroth-Rosell (SMHI), Y. Artioli (PML), J. Blackford (PML), A. Dale (GEOMAR), R. Glud (SDU), G. Lessin (PML), R. Pastres (UNIVE), A. Queiros (PML), C. Rabouille (IPSL), P. Regnier (ULB), K. Soetaert (NIOZ), N. Stephens (PML), E. Yakushev (NIVA)











