

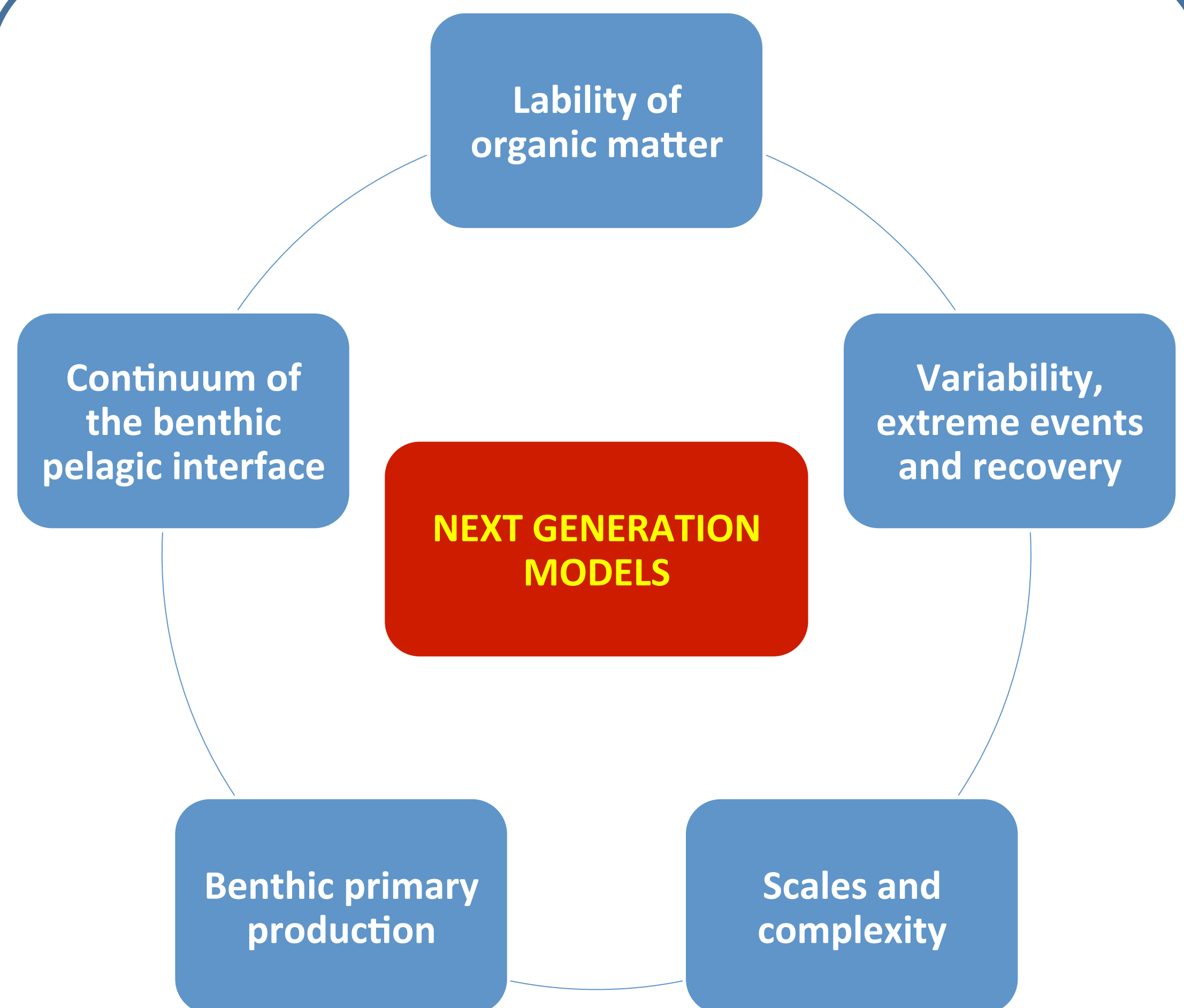
A multi-disciplinary consortium approach for advancement of conceptual frameworks, modelling and experimental approaches to benthic-pelagic coupling

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

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