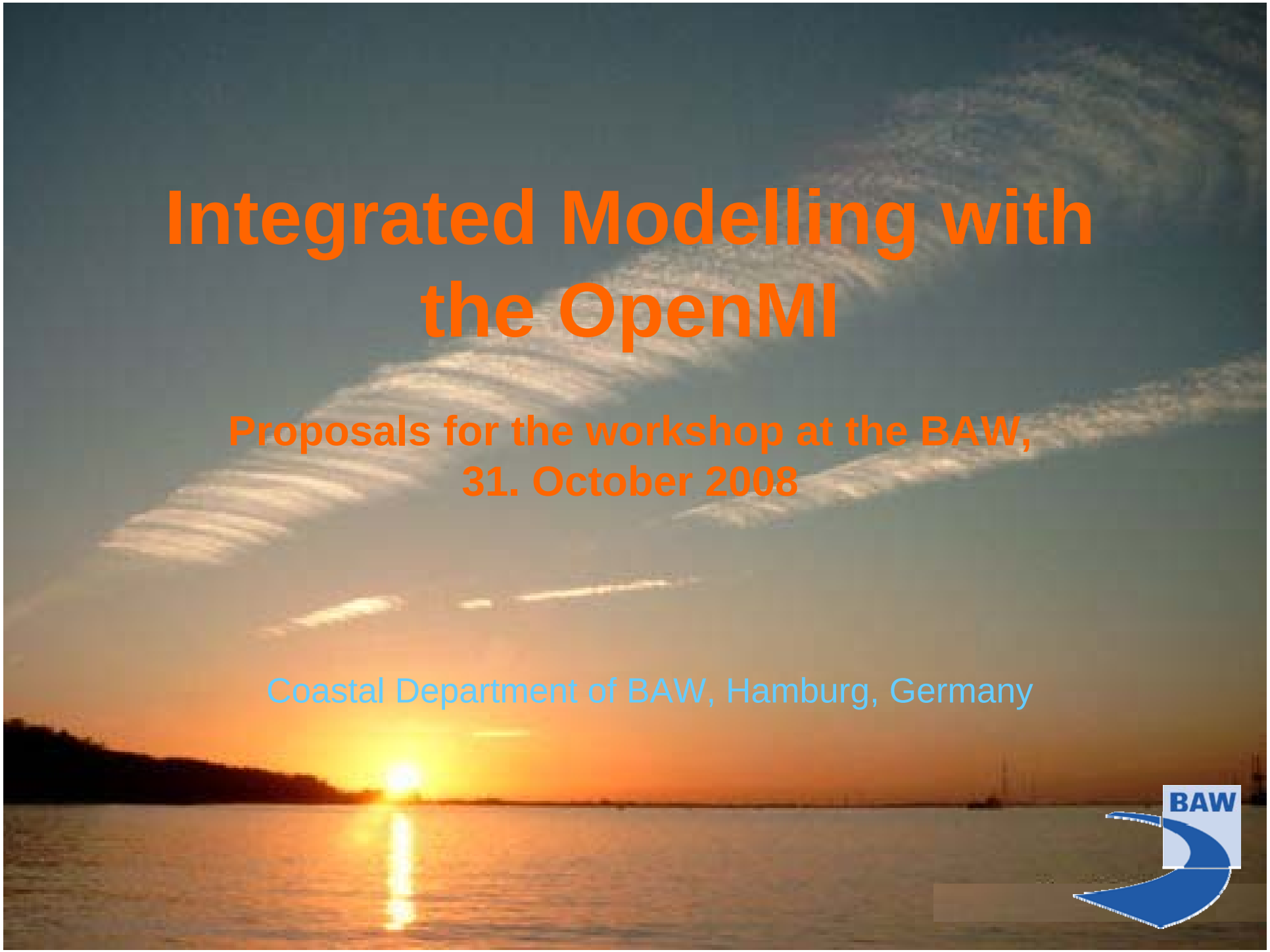
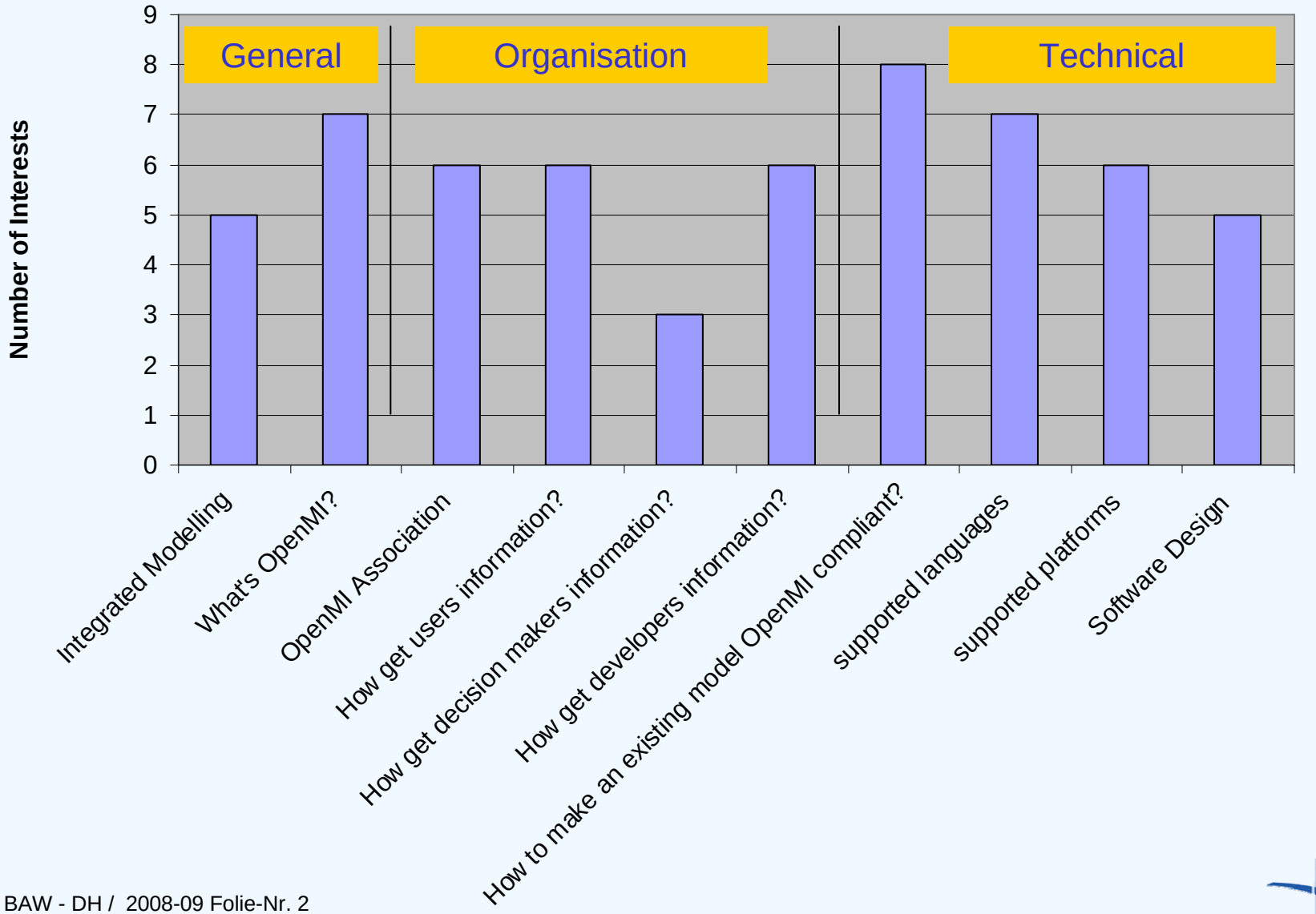


Integrated Modelling with the OpenMI

Proposals for the workshop at the BAW, 31. October 2008

Coastal Department of BAW, Hamburg, Germany

Questionnaire: “Clicked“ Answers



Questionnaire: Demanded Models

- Hydrodynamic Models, e.g. for Waterlevel Forecasts
  (MIKE 11(v1.2), MIKE SHE (Dev.), Infoworks CS + RS (1D),
  Delft3D (v1.4), Sobek (dev))
- Estuarine (and Lake) Models (Delft3D)
- Morphodynamical Model (Delft3D)
- Wave Model (Swan(dev))
- Ecohydrological Model
- Ocean Circulation Model (e.g. OGCM)
- Atmospheric Model
- Groundwater Model (Zoom BGS)
- Water Quality Model
- Water Balance Model

Miscellaneous

- Comparison with other integrated modelling projects
  - GLOWA / Danubia:
    http://www.pst.informatik.uni-muenchen.de/~janisch/pub/PosterStatusConf05.pdf
  - MpCCI:
    http://www.mpcci.org/fileadmin/download/flyers/MpCCI_Flyer_en.pdf
- Is there a support of the migration of an exising model?
- Funding new projects?
- Setting up a final agenda 19 September 2008

“Supporting“ Programme, Thursday 30 Oct.

BAW Colloquium (not mandatory)
“New concepts, developments and results of coastal engineering“

13:00 – 14:40 Ship training simulation and federal waterways
14:40 – 15:10 Exchange between ship and waterway
15:40 – 16:10 OpenMI as an example for open interfaces
for data exchange and model coupling
16:10 – 16:40 Basic thoughts about the future of river engineering
16:40 – 17:10 Measurements of morphodynamic / sediment transport
17:10 – 17:40 Morphodynamic models in the German Bight
http://www.baw.de/vip/programm.php?veranstaltung=109

Programme for the participants of the OpenMI workshop (not mandatory)

??:?? historic storehouse city,
“hanseboot“ sailing fair

20:00 Dinner

Agenda Friday, 31 Oct., morning session 0.3

09:00 Welcome

09:10 Potential of Integrated Modelling (with the OpenMI)
- NN OpenMI Association (OA / BAW, 15min)
- Which models are OpenMI compliant? (OA, 15min)

For modelers (and developers): Usecases of Integrated Modelling
- Usecase DHI (J. Gregersen, 15 min)
- Usecase Deltares (NN, 15 min)
- Delft3D Elbe, North Sea, Ems (A. Plüß,15 min)
- GLOWA / Danubia Project (M. Ludwig, 15min)

10:40 Coffee break

11:00 Discussion: How can modelers participate in Integrated Modelling?
(R. Moore, 60min)
with a very short introduction (5min) where to find information about the OpenMI standard, sdk, tools etc.

until 12:00

Agenda Friday, 31 Oct., afternoon sess. 0.3

12:00 Lunch

13:30 Technical information for developers (and interested persons):
- Technical aspects of Danubia (e.g. parallelisation)? (M. Ludwig, 15 min)
- Technical aspects of OpenMI:
  mechanisms, languages, plattforms, design (OA, 15 min)
- How a dhi model been made compliant (J. Gregersen, 15min)
- How the import of BAW data into Delft3D has been made compliant
  (Deltares, Peter Schade, 15min)

14:30 Coffee break

14:45 Discussion for developers (J. Gregersen, R. Moore, 45min)
Who plans to make a model OpenMI compliant?
How can it be done?

15:30 End of the Workshop