

**R-Mode intersessional meeting**

**Background**

The vulnerability of GNSS is commonly acknowledged. A variety of technological solutions to an alternative backup system are available, of which one is the Ranging Mode (so called R-Mode**)**. The R-Mode enables a terrestrial backup system on a worldwide basis in coastal waters, high densely traffic areas and for harbor approach areas. To further develop the new system it was decided to perform a feasibility study as well as a practical field demonstration within a transnational EU project named ACCSEAS (Accessibility for Shipping, Efficiency, Advantages and Sustainability). The ACCSEAS Legacy Report includes a plan for future work based on results and recommendations developed within the project. Regarding the f R-mode a number of future work items were identified and listed within Annex C of the ACCSEAS legacy report.

**Topics to be considered**

The following topics should be considered at the intersessional meeting:

* Develop a roadmap for the development, implementation and standardization of R-Mode. Such a roadmap should include milestones and possible risks
* Identify system design options for R-Mode implementation via MF radiobeacon and AIS and eLoran and its combinations on various methods developed in the feasibility study.
* Identify further areas for investigations regarding the use of R-Mode signals and information based on the existing ITU-R regulations.
* Consideration of possible test beds to enable positioning tests for the various design options. This should include detailed information on
  + Permission to transmit R-mode signals
  + Description of required modifications
  + Estimation of costs
* Consideration of possible international projects and funding
* Detail fields for further developments and improvements:
  + R-mode Receiver development to enable positing measurements (based on various identified design options
  + Timing and synchronization of
  + Integrity options/R-Mode corrections

**Date and Venue**

The intersessional meeting will be held from 9th to 11th February 2016 at the IALA HQ in Paris. Further details will be provided together with an agenda.