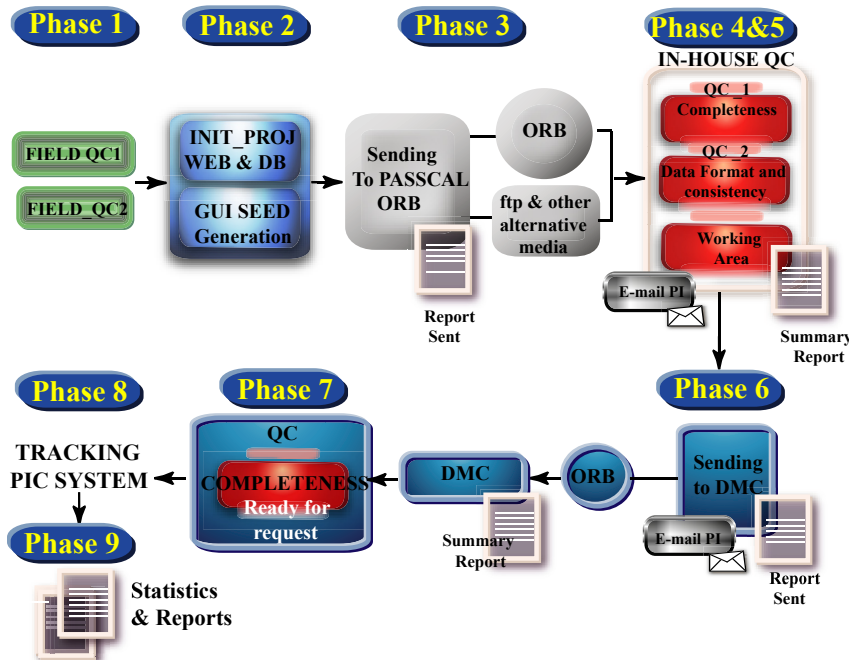


# Data Archiving Support

Data collected with PASSCAL and/or USArray Flexible Array equipment are required to be archived at the IRIS Data Management Center (DMC) and are required to be openly available to the community. To facilitate data archiving, the IRIS PASSCAL data group provides PI support during data collection, quality assurance, and submission to the DMC. These efforts ensure that metadata and waveform data are synchronized prior to submission to the DMC archive.



Specific to USArray Flexible Array experiments with on-site recording, the PASSCAL data group is responsible for the data archiving with the DMC. PASSCAL utilizes software and documentation developed in house, at the DMC, and commercially for data collection and archiving on multiple computer platforms (Solaris, Linux, Windows, and Mac OS X).

In addition to archiving support, the IRIS PASSCAL data group offers training sessions on data handling and quality control. They maintain close contact with PIs and data archivers before, during, and

after experiments are deployed to seamless shepherd data from the field to the DMC in a timely process. The data group also works closely with the USArray Array Network Facility (ANF) when Flexible Array mixed on-site recording and telemetry experiments are fielded.

A new Quality Control System using commercial software that interfaces with Python, MySQL, and existing SEED tools is geared toward a more efficient path to perform quality control and submission of data to/from PASSCAL to the DMC. This new system will guide the user through the complete process in an organized, simple, and practical manner preventing common errors and difficulties. The new system incorporates a visual tracking interface to provide better monitoring, and quantitative and historic statistics of data passing through PASSCAL to the DMC.