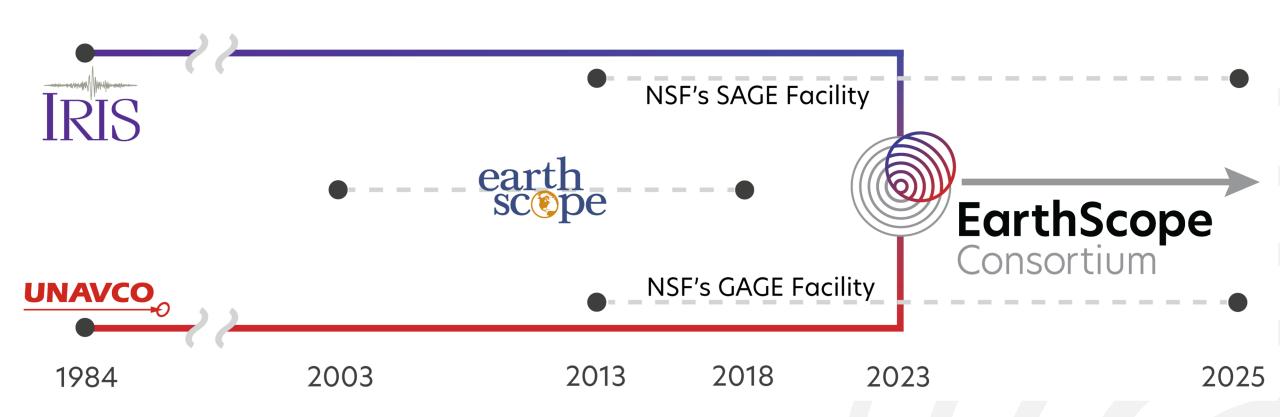
The DAS RCN and Proposed FDSN Involvement in Standards



Transition to EarthScope





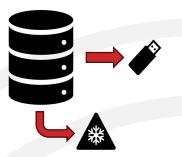
Takeaway



StationXML is not a good fit for DAS metadata (e.g., cable properties) – A DAS metadata standard is needed.



Because DAS datasets can be very large (10s to 100s of TB) it is doubtful that full data sets will be kept online indefinitely – Standard derivative products for federated DAS data centers are needed.



FDSN is the logical international federation to establish and maintain DAS standards.



- > Recommendation: Form WG development teams to:
 - Propose FDSN standards for DAS metadata (WG 2)
 - Propose FDSN standards for DAS derivative products (WG 3)

Background



The DAS Research Coordination Network* (RCN) had four main goals:

- 1. Identify applications of DAS and develop a network of potential DAS users.
- Train a community of DAS users in the acquisition, handling and processing of DAS data.
- 3. Identify needed technical development (engineering and scientific).
- 4. Identify major challenges and next steps for supporting DAS science beyond the RCN.

The 3-year RCN effort will end soon but activities continue.

^{*} Supported by funding from the National Science Foundation under award EAR-1948737.

Research Network's Priorities



At a DAS RCN workshop held in June 2023 two of the DAS user community priorities that emerged were:

- 1. Open, Sustained, and Standard Data Archive/Access [requiring]:
 - Metadata content standards
 - Data format standards
 - Standard reduced data sets derived from original data
- 2. Continued International Engagement

FDSN's value as a maintainer of standards has been a great benefit to seismological research for decades

Form WG development teams to propose FDSN standards for DAS metadata and DAS derivative products

Progress Examples



Metadata Content

https://github.com/DAS-RCN/DAS_metadata *
Metadata Model White Paper (Mellors, R. J., Hodgkinson, K. M., Hui Lai, V., & the DAS RCN Data Management Working Group)

Standardized Data Products

Global DAS month (Andreas Wuestefeld)

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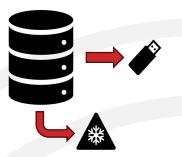
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