

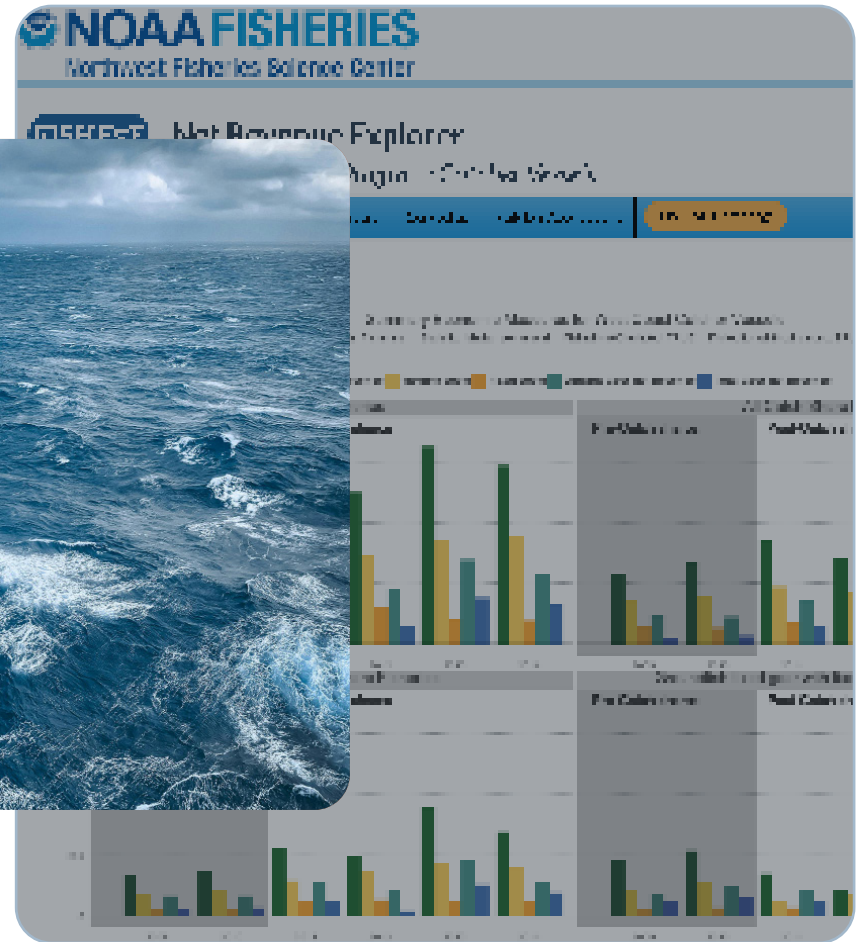


CUSTOMER SPOTLIGHT

Managing resources with R & Shiny

SUMMARY:

NOAA Fisheries launched FISHEyE, an R and Shiny tool hosted on Posit Connect, to transform data delivery for over 90 groundfish species. This shift allows scientists to build interactive web applications directly, bypassing external developers to provide stakeholders with bespoke analyses. The platform meets federal mandates for data access while strictly protecting the confidentiality of sensitive economic and social information.



ABOUT:

NOAA Fisheries is a federal agency responsible for the stewardship of the nation's ocean resources and their habitat, managing productive and sustainable fisheries to provide economic opportunities and support healthy ecosystems.

INDUSTRY:

Public Sector

SIZE:

4,200 employees

TECHNOLOGY USED:

Posit Connect



The Challenge:

Bespoke Analysis and Data Confidentiality

Managing over 90 species of groundfish requires engaging diverse stakeholders, each with unique information needs. However, much of the economic and social data collected is confidential in its raw format, leading to a time-consuming process where data requests were handled on a case-by-case basis.

- **HIGH-EFFORT REQUESTS:**
Generating custom analyses for individual fishermen or industries often required impractically lengthy efforts from research scientists.
- **CONFIDENTIALITY BARRIERS:**
Scientists needed a way to provide high-resolution data (by fishery, state, or homeport) without compromising the privacy of raw economic records.



The Solution:

Scientist-Led Web Development

By adopting Posit Connect and Shiny, NOAA scientists transitioned their existing R-based analysis into a secure web format. This allowed the experts who understand the underlying methodologies to build and deploy the FISHEyE application themselves, ensuring the tool remains technically accurate and responsive to new user requests.

- **DYNAMIC DATA FILTERING:**
The FISHEyE app allows users to satisfy their own data needs by filtering results by specific fisheries or regions, providing immediate results that previously took weeks to produce.
- **BENCHMARKING FOR FISHERMEN:**
Commercial fishermen can now use the tool to compare their performance against the average vessel in their fishery, promoting more informed business decisions.

Learn more at posit.co > | [Read the full story](#) >