

NOAA Quarterly Transition Updates

Fiscal Year 2021 Quarter 1 Summary

Background

In April 2020, the NOAA Science Council requested that the NOAA Line Office Transition Managers Committee (LOTMC) provides quarterly updates on projects that have transitioned. Subsequently, the LOTMC developed an approach for collecting and reporting these data in a consistent manner while allowing for feedback and improvements to the process. The data were first collected as a pilot for Fiscal Year 2020, Quarter 3 (FY20 Q3). Following the pilot, each quarterly update added improvements towards quarterly transitioned reporting. Fiscal Year 2021, Quarter 1 (FY21 Q1) built on the previous framework with the addition of two new fields focused on providing funding and additional information on each transitioned project.

Methodology

The FY21 Q1 data collection spreadsheet followed a similar format to previous data collection. It included the 12 fields from FY20 Q4¹ but also introduced two new fields, *Funding Source* and *Additional Information*. The *Funding Source* field highlights the programs and offices that provided support for these transitioned projects. The *Additional Information* field provides an opportunity for projects to provide any NOAA internal or external media links that featured their transitioned projects.

To gather the data for FY21 Q1, the NOAA Research and Development Database's (NRDD) Readiness Level Progress data table was queried for projects with a RL9_CompleteDate of 2020, and the data were further refined manually to select projects with dates between October 1 and December 31, 2020. Relevant project information was used to prepopulate the data collection spreadsheet, with a note in the *comments* field that the information came from the NRDD and updates and supplemental information may be needed.

In addition, the NOAA Line Office Transition Managers sent a data collection spreadsheet and tasker request to their Line Offices between January 14 - February 16, 2021. Following the data collection period, the information from all Line Offices was compiled and analyzed.

1. 12 fields from FY20Q4 includes *project name*, *what was transitioned*, *transition outputs*, *purpose of transition*, *NOAA Science and Technology Focus Areas*, *type of transition*, *from where*, *to where*, *date completed*, *is it in NOAA Research and Development Database (NRDD)*, *NRDD project ID*, and *comments*.

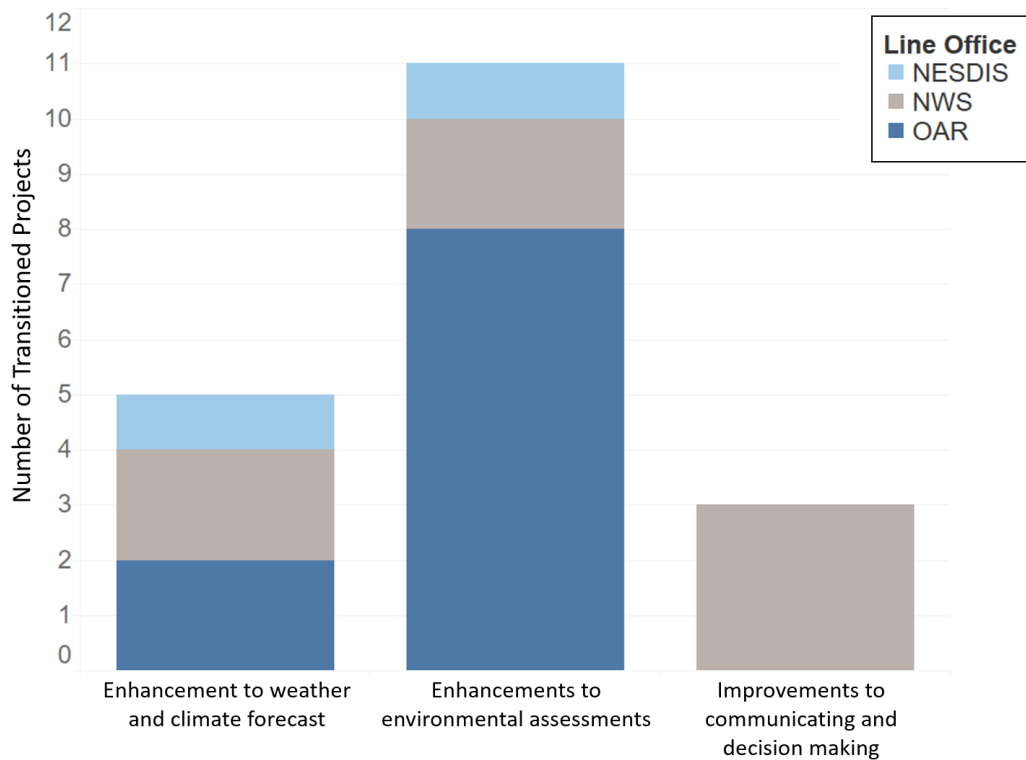
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FY21 Q1 Results (October 1 – December 31, 2020)

Nineteen transitioned projects were identified in the [spreadsheet](#) for FY21 Q1. Transition summary highlights include:

Transition Summary Highlights FY21 Q1



- 11 improvements for enhancing weather and climate forecasts
 - Seven projects with modeling improvements for the Rapid Refresh (RAP) and High-Resolution Rapid Refresh (HRRR) systems
 - Modeling improvement for tsunami forecasts
 - Tool for assessment of tsunami intensity
 - Global dataset update for tropical cyclone intensity
 - Dataset update for National Blend of Models (NBM)
- 5 improvements for enhancing environment forecasts and assessments
 - Modeling improvement for the Global Forecast System (GFS) by integrating air pollutants forecast
 - Tool for assessment of ozone depletion
 - Modeling improvement for the Real Time Ocean Forecast System (RTOFS)
 - Data verification on sea ice feedback for The Regional Arctic System Model (RASM)
 - Environmental assessment of rapid humidity flip in California

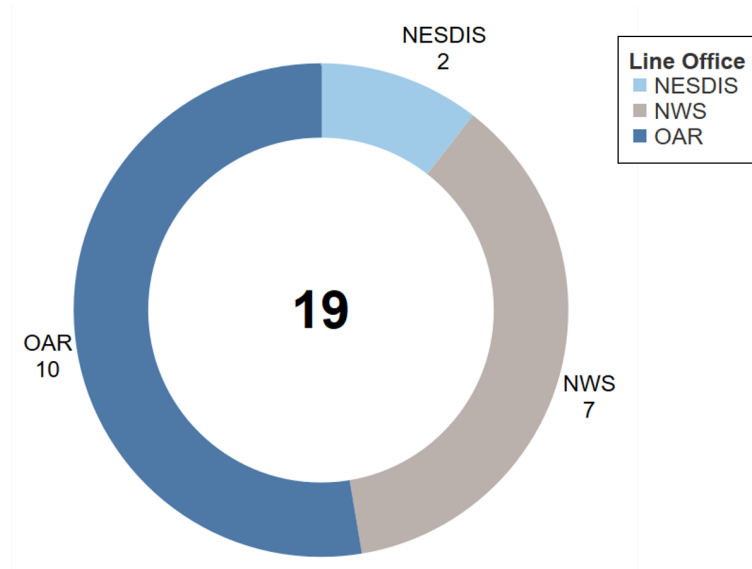
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- 3 improvements on communication and decision making
 - 2 Documentations for improvement in communicating uncertainty and probabilities
 - Documentation for improvement in decision support for the marine community in Alaska

Summary charts of these projects by Line Office, funding sources, source and destination organizations, NOAA Science and Technology focus area, transition type, transition project outputs, and NRDD participation are displayed below.

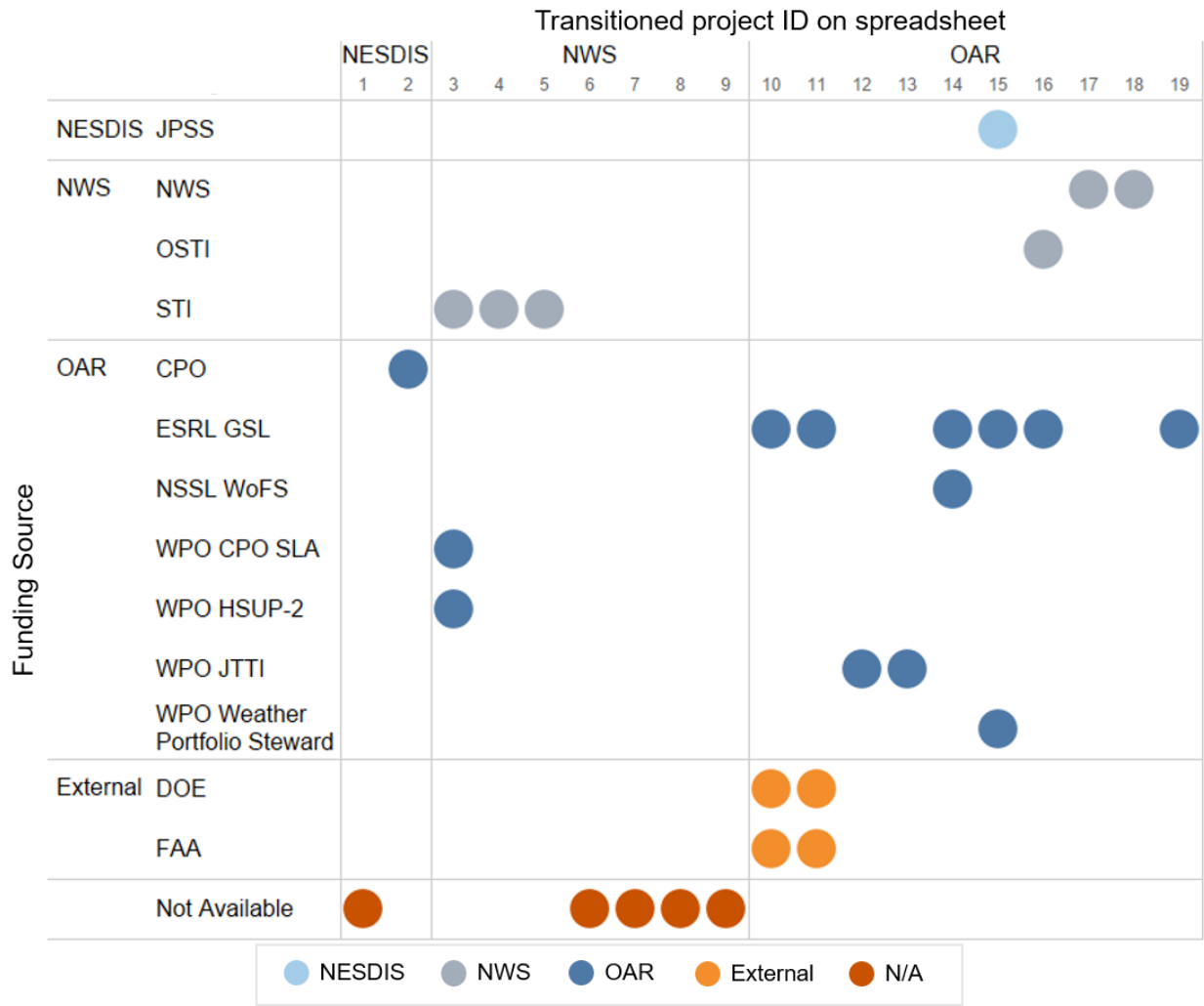
Number of Transitioned Projects by Line Office for FY21 Q1



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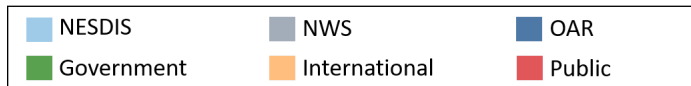
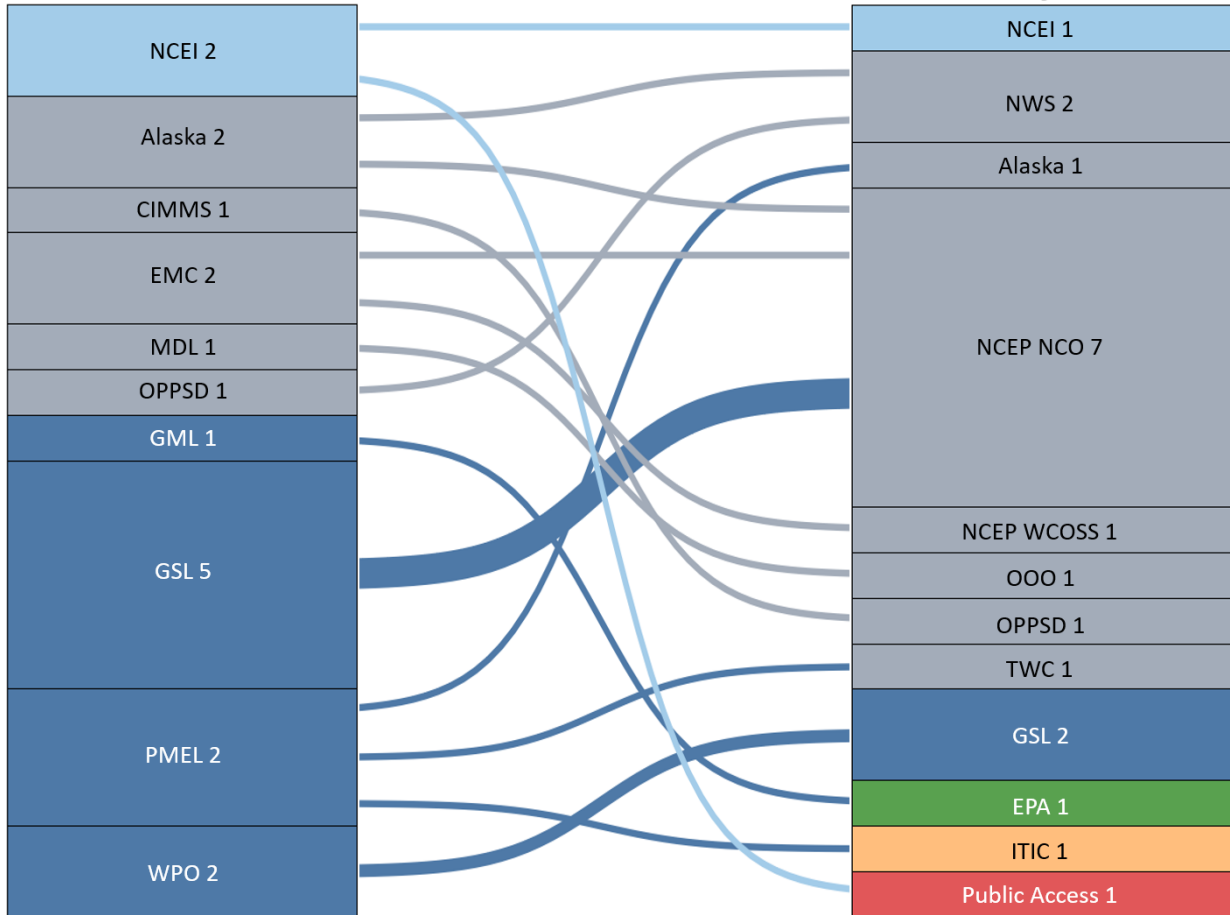
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FY21 Q1 Transitioned Project Funding Source



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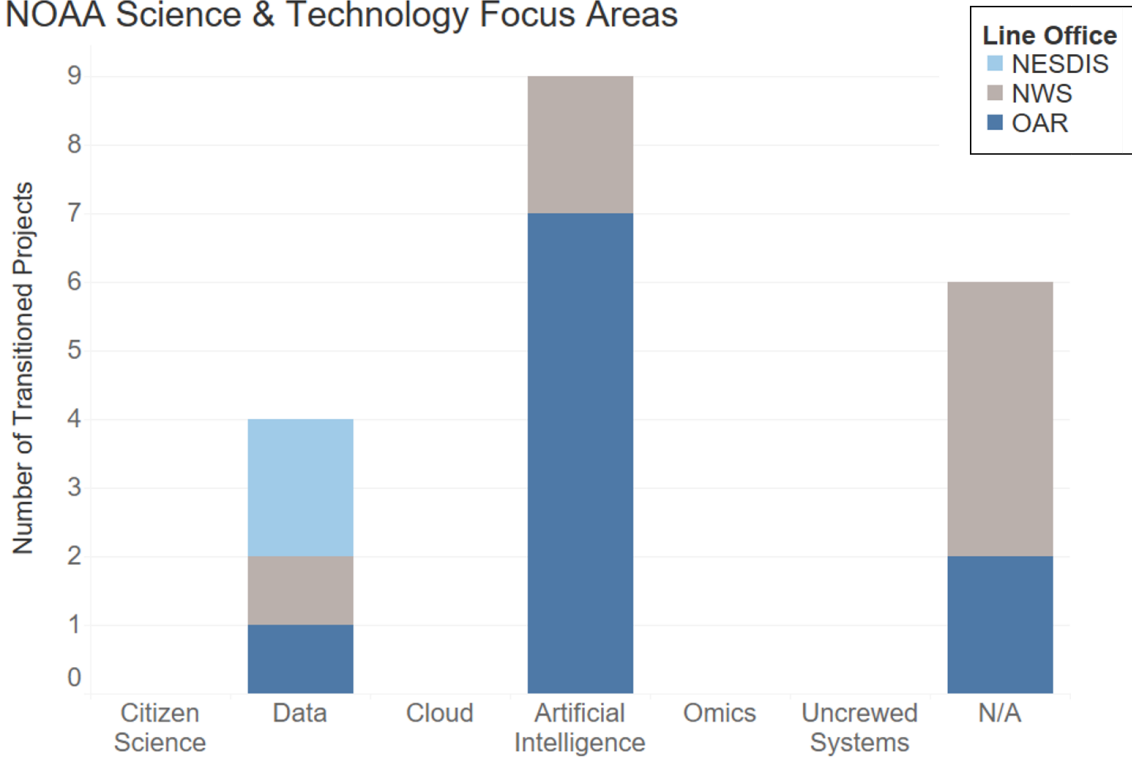
Source and Destination for FY21 Q1 Transitioned Projects



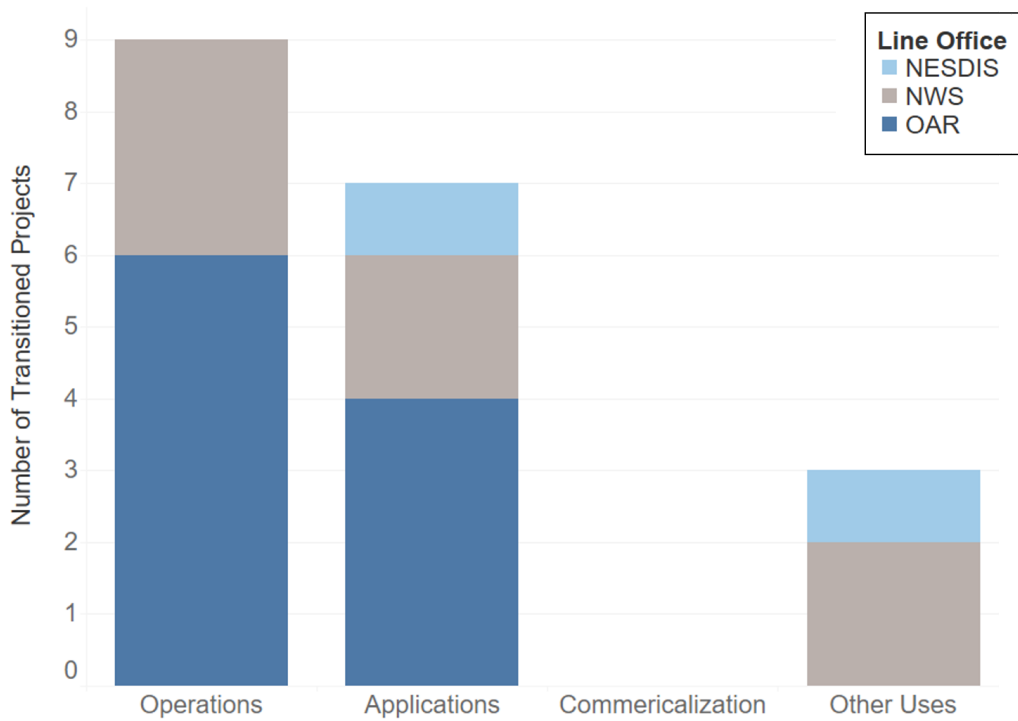
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Transitioned Projects under NOAA Science & Technology Focus Areas



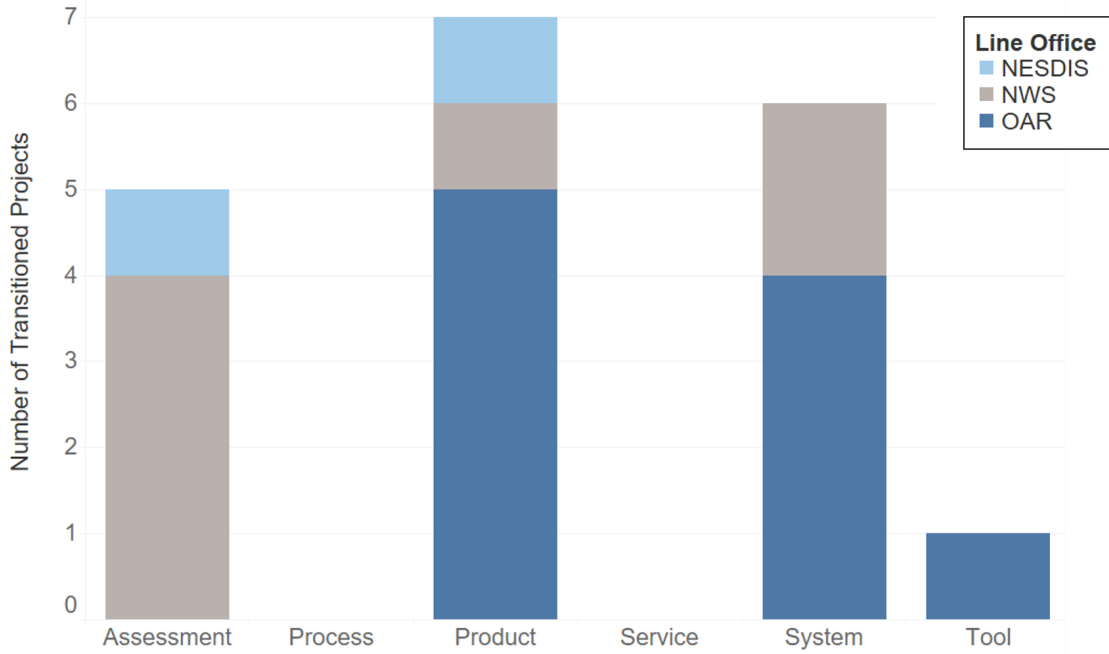
Transition Types for FY21 Q1



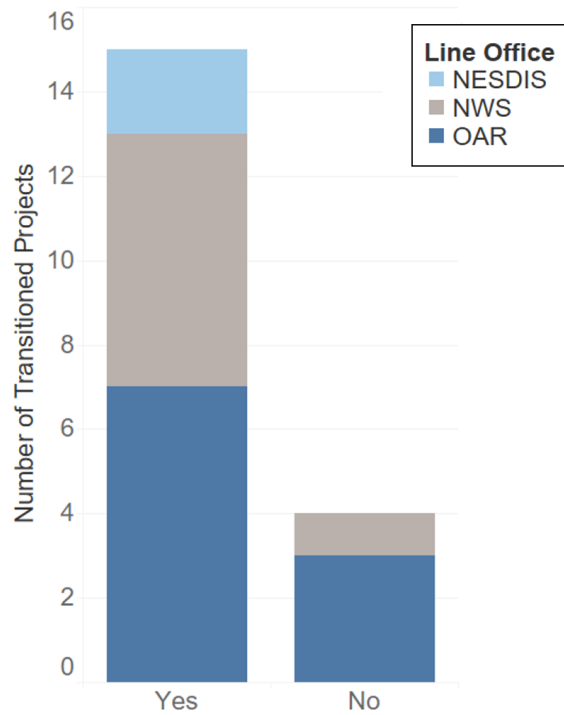
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Transition Outputs FY21 Q1



Projects in NRDD?



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Considerations for Future Quarterly Transition Updates

Not all NOAA Line Offices were represented in the FY21 Q1 transition update, specifically NOS and NMFS did not have any transitioned projects in the NRDD nor the data collection tasker. It is unclear whether the lack of information from these Line Offices is due to a lack of transitioned projects or a lack of reporting.

FY21 Q1 quarterly transition update is built upon two sources of data: NRDD and data collection tasker sent out by the transition managers. The eight transitioned projects identified in the NRDD (highlighted in blue in the [spreadsheet](#)) have some missing fields (such as funding source, adopters POC) that needed to be updated with supplement information through the tasker. Further consideration is needed in the tasker email to encourage data enterers to update and complete their transition projects that were pre populated by the NRDD.

Next Steps

This document will be included in the meeting materials to the NOAA Science Council at their next council meeting with a subset of the FY21 Q1 transition projects will be highlighted as a presentation.