Staff Report

TO: Board of Directors

FROM: Jennifer Hanson, General Manager
            Keane Sommers, P.E., Hydroelectric Manager

DATE: July 28, 2021

SUBJECT: **Computerized Maintenance Management System Update**

HYDROELECTRIC

RECOMMENDATION:

Receive an informational presentation on the status of the Computerized Maintenance Management System.

BACKGROUND:

The Board of Directors previously approved the implementation of an integrated Enterprise Resource Planning (ERP) and a Computerized Maintenance Management System (CMMS) software project. The project will allow the District to utilize the combined software platforms to manage the District's day-to-day business activities such as accounting, procurement, human resources, payroll, project management, grant compliance, asset management, and maintenance and operations tracking.

In July of 2019, the Board of Directors approved the purchase of two software packages (Tyler and Sedaru), multiple consulting services agreements, and funding for the backfill of staff time necessary to successfully complete the implementation of the software packages. Tyler is the ERP component of the software project, and Sedaru is the CMMS portion.

The following table provides the budget vs actual for the project as of June 30, 2021.

Budget	Vendor	Budget	Spent	Encumbrance	Balance
ERP Software	Tyler Technologies	$ 1,267,816	$ 773,790	$ 522,855	$ (28,829)
ERP Implementation Mgmt	Panorama	178,964	117,868	61,096	(0)
CMMS Software	Sedaru	311,150	148,101	167,110	(4,060)
CMMS Content Development	GHD	252,023	252,019	-	4
CMMS Implementation Mgmt	Zanjero	339,190	228,440	108,970	1,780
External Labor Resources	Accounting & IT	507,373	426,722	-	80,651
	Total	2,856,516	1,946,940	860,030	49,546

Since that time, significant progress has been made in both project components; however, the CMMS component of the project is further along in development and is now ready to enter into the final training and testing phases of project development. The ERP component of the project still requires work to ensure that the ERP meets the District's financial management and reporting needs. Additionally, staff is still working on work cleanup of the District's financials, and as such, it is recommended that the ERP deployment be delayed until such time the financials and specifically the method of cost allocating is modified to meet the District's goal of providing timely and transparent financials. Once the ERP component of the project is complete, it will be fully integrated with the CMMS. Allowing the CMMS to move forward first will enable staff to start tracking maintenance and operations on an asset-based platform.

Staff's presentation is intended to outline key results of the CMMS portion of the project to date, challenges associated with the project, and changes to the project structure moving forward.
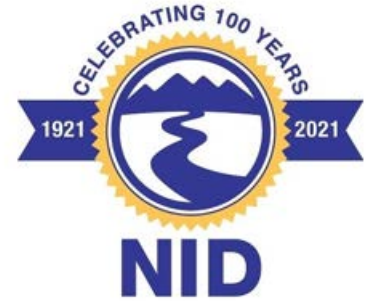
BUDGETARY IMPACT:

No budget action is required at this time.
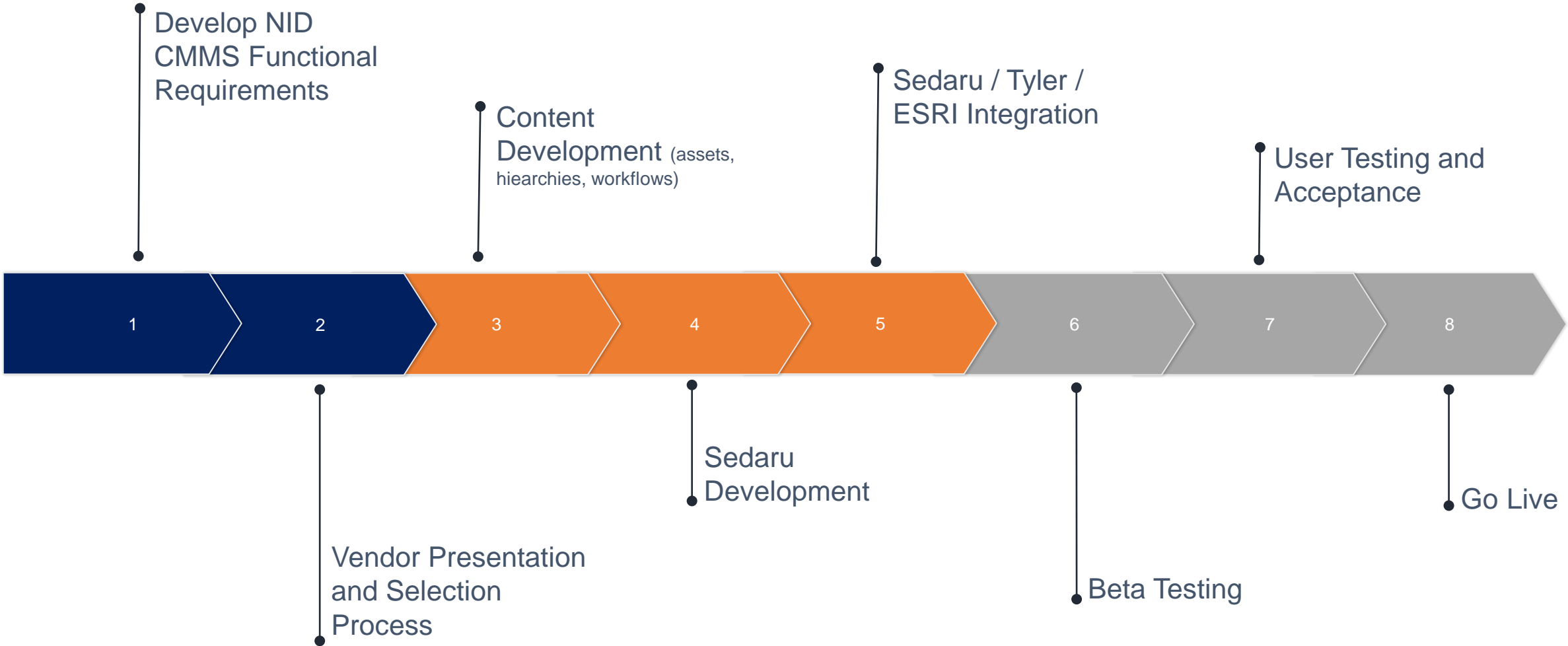
KSS

Attachment: (1)
- Presentation of July 28, 2021 Board of Directors Meeting

# Computerized Maintenance Management System Update (CMMS)

Presented to the Board of Directors

July 28, 2021

Program Overview

Develop NID CMMS Functional Requirements

Content Development (assets, hiearchies, workflows)

Sedaru / Tyler / ESRI Integration

User Testing and Acceptance

1 2 3 4 5 6 7 8

Vendor Presentation and Selection Process

Sedaru Development
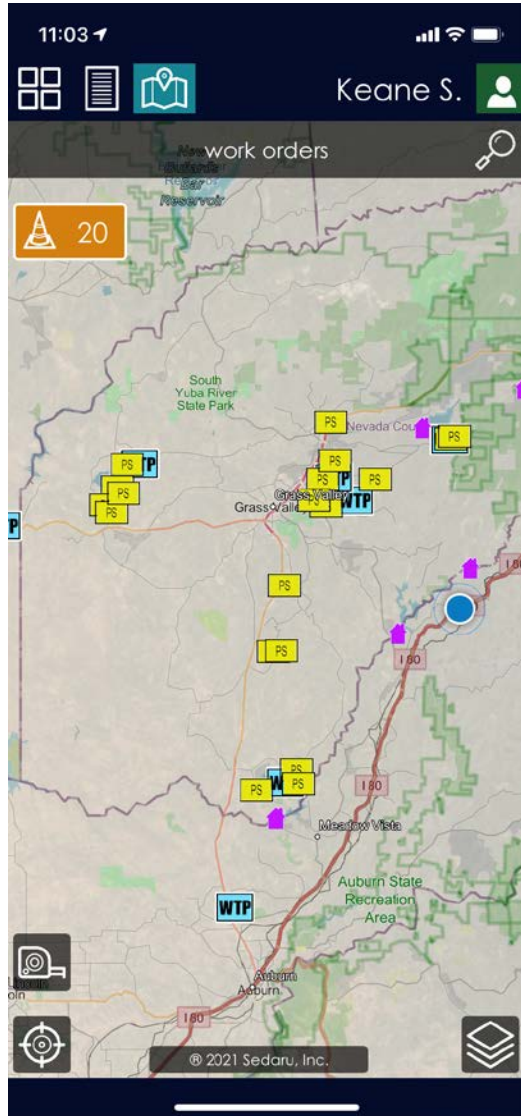
Beta Testing

Go Live

Key Results to Date

- Content Development (Content is King)
  - Over 12,000 additional assets identified and built into hierarchy
  - 46 work order workflows consisting of 1,000 total tasks
  - 64 key performance indicators with 17 tracking reports
- Sedaru / Tyler integration points developed and refined
- Sedaru development underway
- First Beta test began February 2021
  - Overall positive feedback on GUI and functionality
  - Working out the details
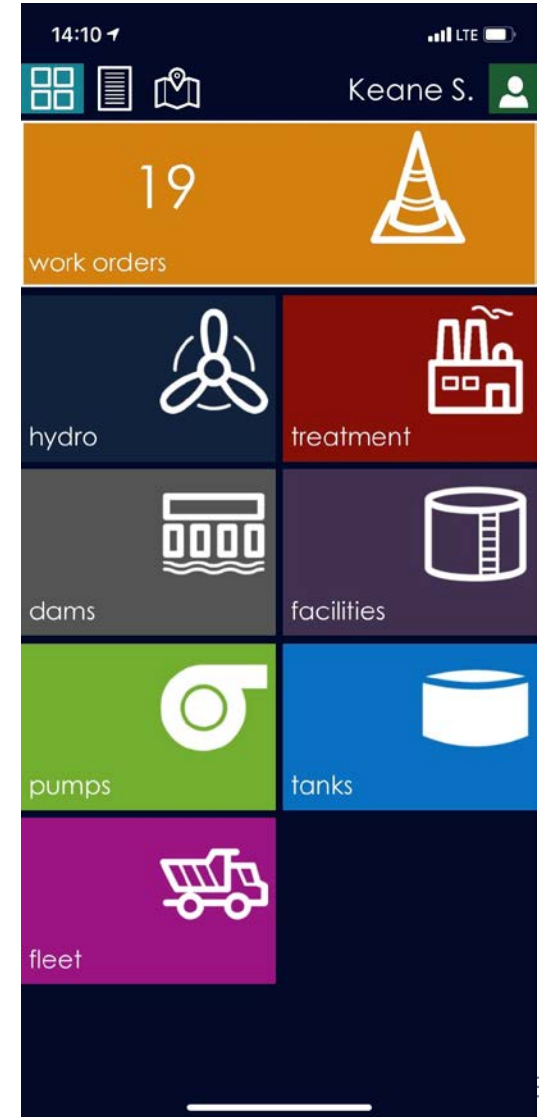
Beta Test

Beta Test
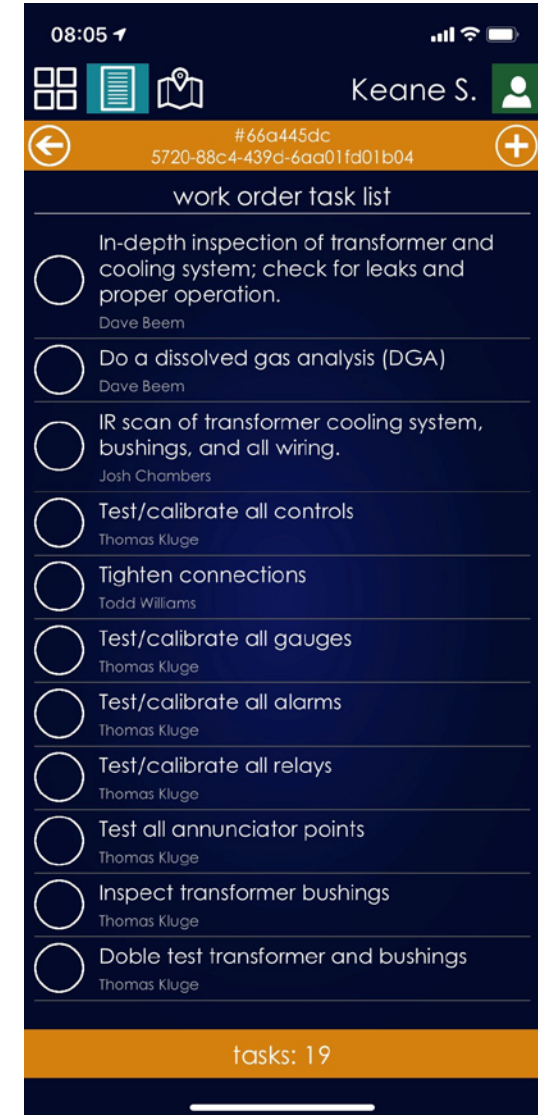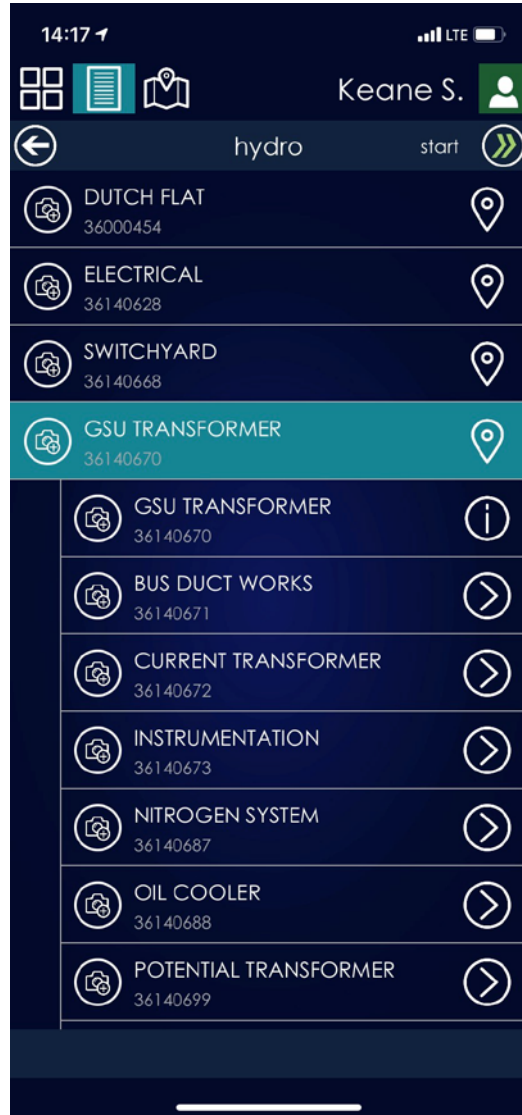
Challenges

- Pandemic impacts to schedule
  - Work continued but at slower pace as team adapted to new reality
- Staff time
  - CMMS is for the staff, by the staff – availability and competing priorities
- Sedaru integration tied to Tyler integration
  - Staffing issues and simultaneous demands
  - Tyler security attack
- Sedaru / Tyler integration bumpy
  - We only licensed portions of Tyler which affects how data is transferred between the two applications, entire team effort to create workarounds and solutions.
- Sedaru compatibility with older NID licensed version of ESRI GIS & SQL Server
  - Upgrading hardware and licensing

Course Correction

- Separating initial Sedaru integration from Tyler in order to get Sedaru up and running

- Sedaru integration will continue forward as stand alone
  - Limited functionality in short term (time tracking, purchasing)

- Sedaru will integrate with Tyler when Tyler is ready
  - Tyler implementation schedule

- Future Sedaru integration and user acceptance testing with Tyler will be approximately $35k
  - Still to be determined based on Tyler development results.

- May also be additional project costs based on staff availability during user acceptance training

- Sedaru go live Feb 2022

Schedule
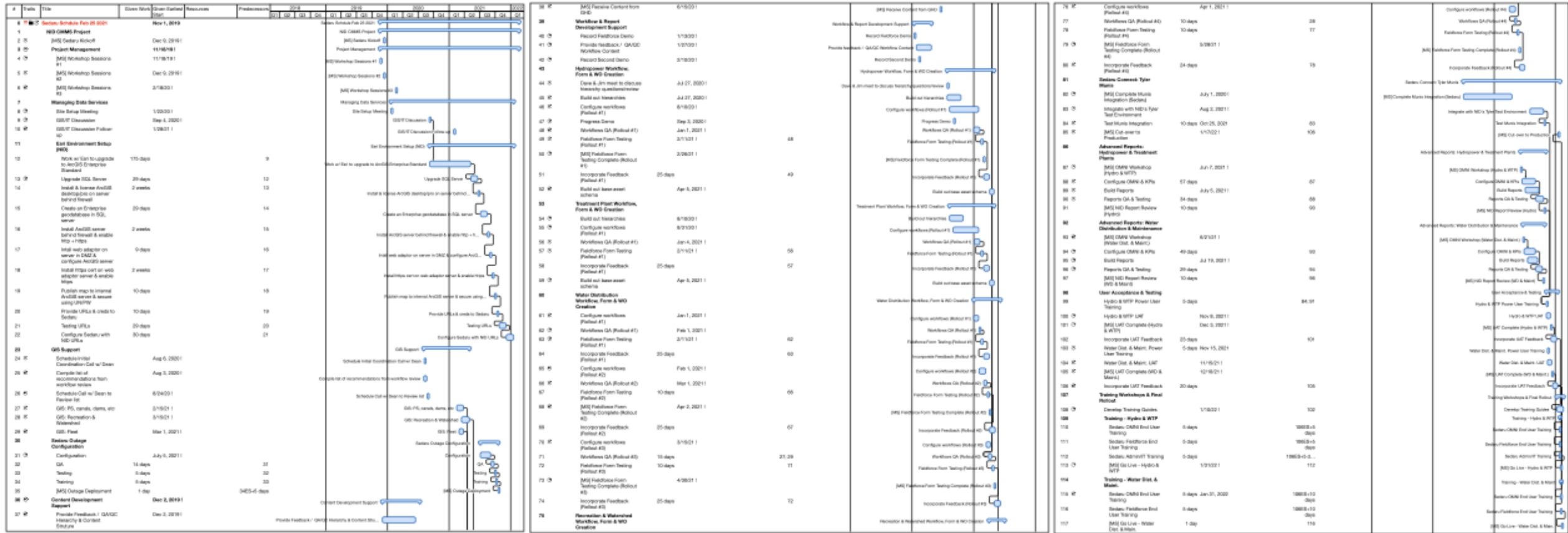
Schedule Summary

Element	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
Field Force WO Forms	■	■	■					
Reports and KPIs		■	■	■				
Field Force Mobile	■	■	■					
Omni Desktop	■	■	■	■				
User Acceptance Testing				■	■	■		
Training				■	■	■	■	
Go Live							■	■

Executive Summary

- Major effort to collect and organize content
- Sedaru using content to build application
- In beta testing now, positive feedback from beta testing group
- Separating Sedaru integration to stand alone for now
- Will integrate with Tyler when Tyler is ready
- Sedaru go live Feb 2022

Questions