

COLORADO

Department of Personnel & Administration

Joint Technology Committee Payroll Modernization March 31, 2023

Payroll Modernization Goals

- Eliminate the tech debt of the State's 35-year-old Payroll System
- Reduce manual processes & increase efficiency
- Improve data integrity & security
- Facilitate standardization with HR best practices & laws statewide

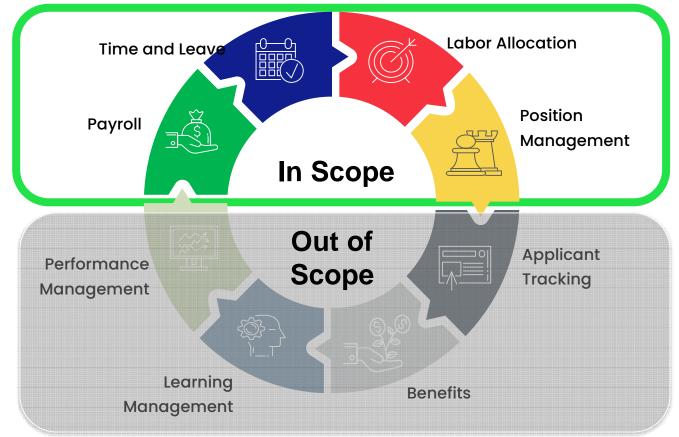


Background

- DPA provides payroll services for over 33,000 employees across thirty State government agencies in the executive, legislative, and judicial branches using the **Colorado Personnel & Payroll System (CPPS)**.
- CPPS was implemented in 1986 and runs on mainframe hardware with COBOL programming.
- It is increasingly difficult for the State to find hardware and expertise to maintain and adapt the system.
- Failure of CPPS would cripple the entire system and directly affect employee pay.

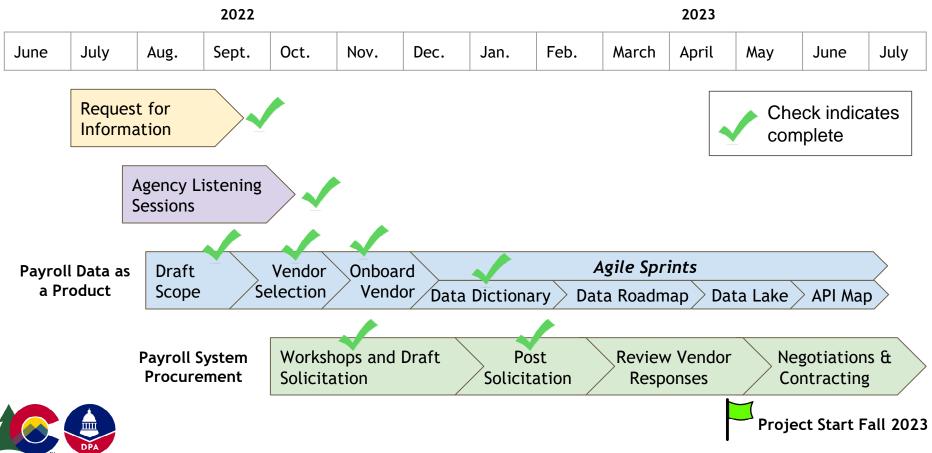


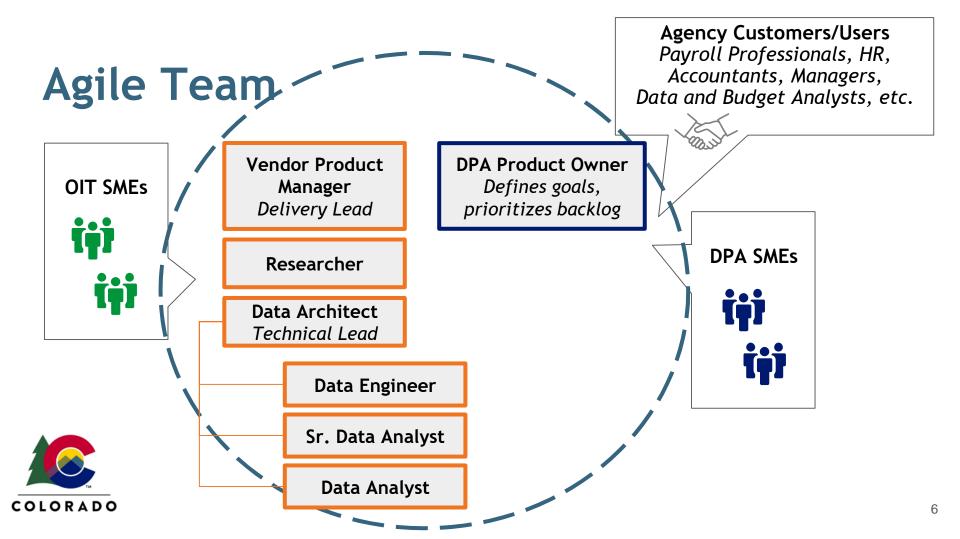
Payroll Modernization Scope





Payroll Modernization Timeline





Payroll Data as a Product

Ad Hoc and Gray Digital are working in two-week sprints January through July to

- Create a data catalog for payroll data
- Determine data clean up needs
- Create a proof of concept data environment
- Establish business priorities for future integration needs

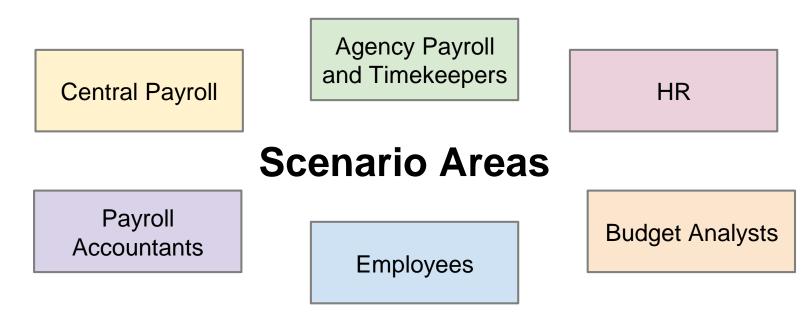
Current Focus

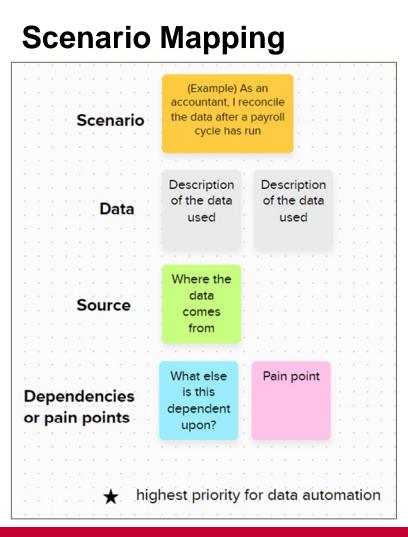
- Scenario mapping
- Data journey mapping
- Populating data catalog



Research question: What is the minimum data necessary for payroll?

Goals: Define minimum data for the data catalog, define data cleanup needs, map out the payroll data that is used. Understand how various data users use the data, why they use it, and how they access, manage, and/or collect it.







Payroll Data Catalog

0	Attributes Data Quality 🛈 👻 Sys	tem Metadata 🛈 👘 Data Structure Metadata	Data Attribute Metadata ①	Data Lineage Metadata 🛈 📔 👻 📔 🕂	Extensions
ER V	TEW ∞ γ ⊗ Hide fields =	Filter 🗉 Group 🕴 Sorted by 1 field	Share view	1	
C	A Attribute Name	✓ Ξ Data Attribute Link ①	 =q o Pain Points / Issues ~ 	$\stackrel{\mbox{\tiny de}}{=}$ Restrictions, Requirements, & Data Quality Notes \sim	≣š Data Quality Type ∨
1	1 % Full time	% Full Time	SME - Attribute dependenc	Must match the Full/part time value on the Personnel action data	Similar Attribute Name, S
2	Account Number	Account Number Account	t te Account Number is compri	There must be a valid Account Number on the Primary Job Assign	Dependency or validatio
3	Action code	Action code Action code	Will tab to subtype field wh	appears on Alternate Address screen	Similar Attribute Name, S
4	4 Actions	Actions		duplicate field	Similar Attribute Name, S
5	5 Active Start Date	Position Start Date	Because of the alias of "acti	The Begin Date on the JOB ASSIGNMENT screen must be equal to	Unclear Definition Similar
6	5 Actual Married Status	Actual Marital Status		Field is optional	Coded Field
7	7 Adjusted Service Start Date	Adjusted Service Date (AD	J S' Could have multiple of the	required field for Personnel Action data screen	Unclear Definition Similar
8	Agency Locator			Must match valid entry on CPPS department table	Coded Field
9	Allotted FTE %	Allotted FTE %	SME	Must match the Full/Part Time designation on Personnel action da	Unclear Definition Similar
1	0 Allowances			Employee can update their number of allowances via ESS	
1	1 Amount to take	Amount to take		Related to Wage Attachment - Specifies either an amount or a per	Unclear Definition
1	2 Annual Salary	Annual Salary	SME	Must match job assignment screen's pay rate x 12	Calculation of Other Attri
1	3 Bargaining Unit	Bargaining Unit		Pain point expressed by CDOT HRC: Changes to Bargaining Unit R	Disconnect with downstr
1	4 Base Salary	Base Salary	SME	Generally used in higher ed for basis of life insurance	Agency nuance
1	5 Begin date	Begin Date	SME - Attribute dependenc	Discrepancy on whether or not this field is required, depending o	Unclear Definition Similar
1	6 CELL_PHONE_PAGER	Cell Phone Cell phone		Changes to contact data are occasionally rejected by CPPS with th	Disconnect with downstr
1	7 Citizenship/Visa	Citizenship			Coded Field

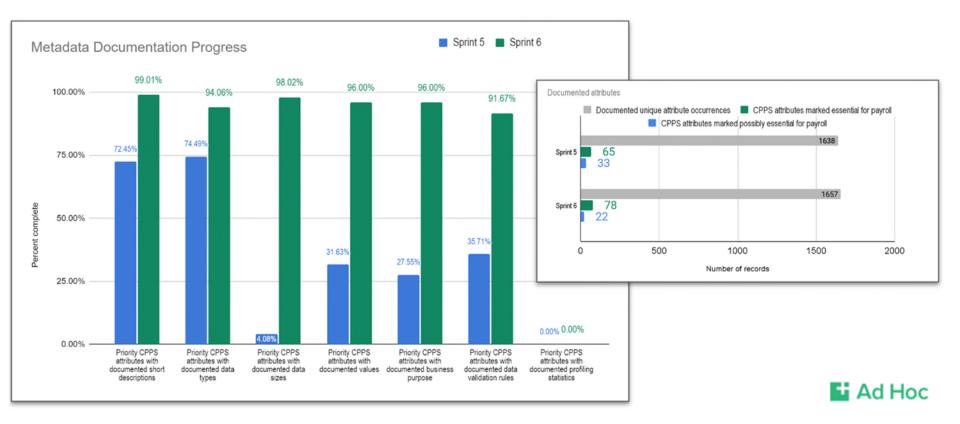


COLORADO

Department of Personnel & Administration

DEMO: Data Catalog

Payroll Data Catalog Progress





COLORADO

Department of Personnel & Administration

Questions