



ANALYTICS + DATA WRANGLING + _____

= REAL WORLD SUCCESS



• Seattle





TACOMA POWER
TACOMA PUBLIC UTILITIES

181,630 customers

180 square miles

municipally owned

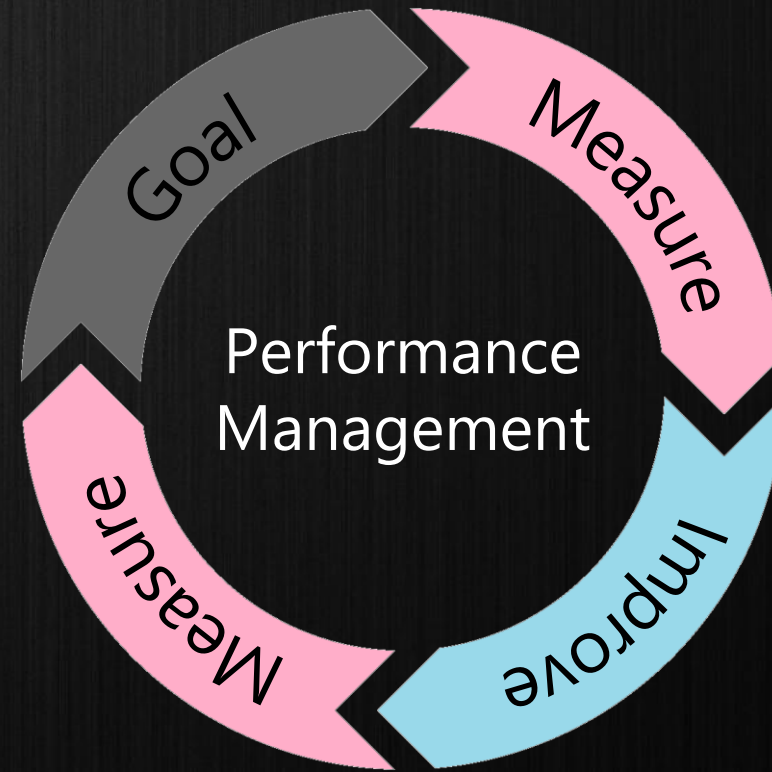


Data Services Program Manager

- Data Engineering
- Advanced Analytics + Data Science
- Data Governance + Data Management



Strategy & Performance Analytics Manager





Ice Breaker

Go meet 3
new people!

Introduce
yourself

Tell them
your utility/
company

Tell them
your favorite
sports team

Can you
remember?

Building Relationships



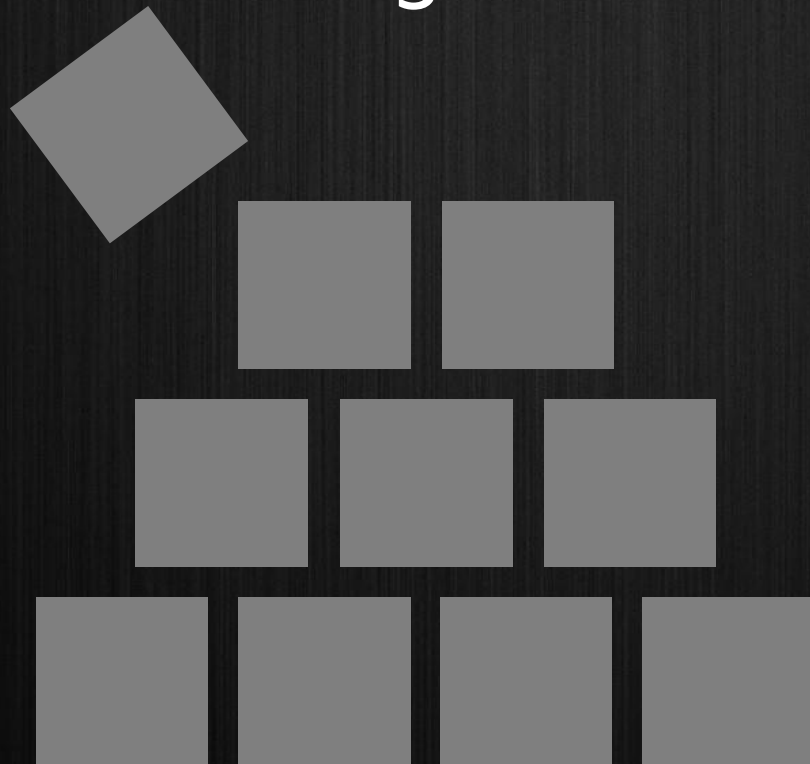
1

Defining Problems



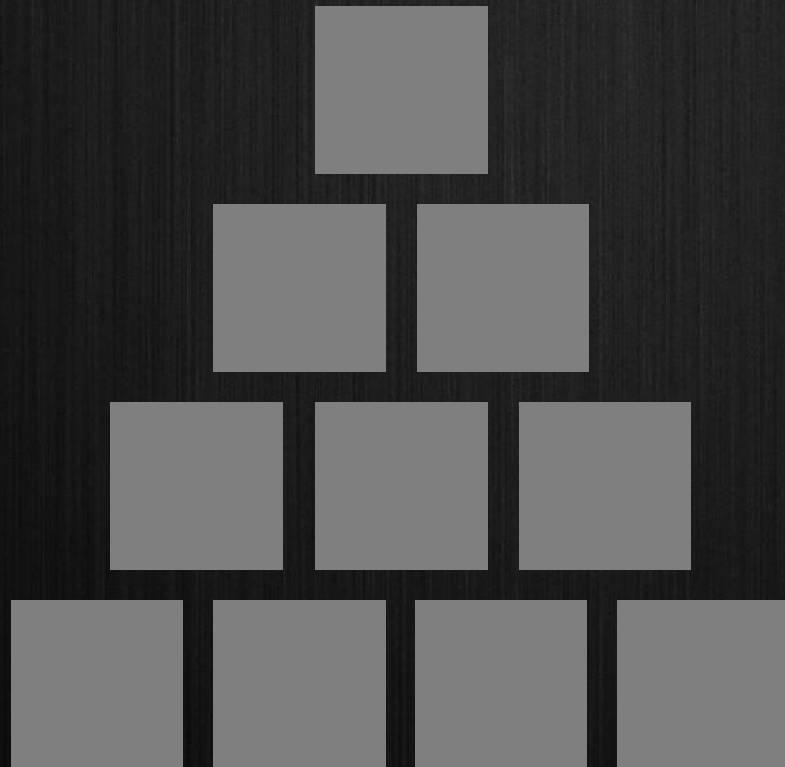
2

Setting Goals



3

Celebrating Successes



4

ANALYTICS + DATA WRANGLING +

Building Relationships

Defining Problems

Setting Goals

Celebrating

= REAL WORLD SUCCESS

The Story



There's \$11M
sitting in the
Fleet fund!

There are too
many cars sitting
in the yard during
the day!

We can fix
that!



The Story



Haley, we
need to fix
this!

Okay!



The Story



I'm here to help you fix things!



1

ANALYTICS + DATA WRANGLING +
RELATIONSHIP BUILDING

= REAL WORLD SUCCESS



Annoying

Too much

Stubborn

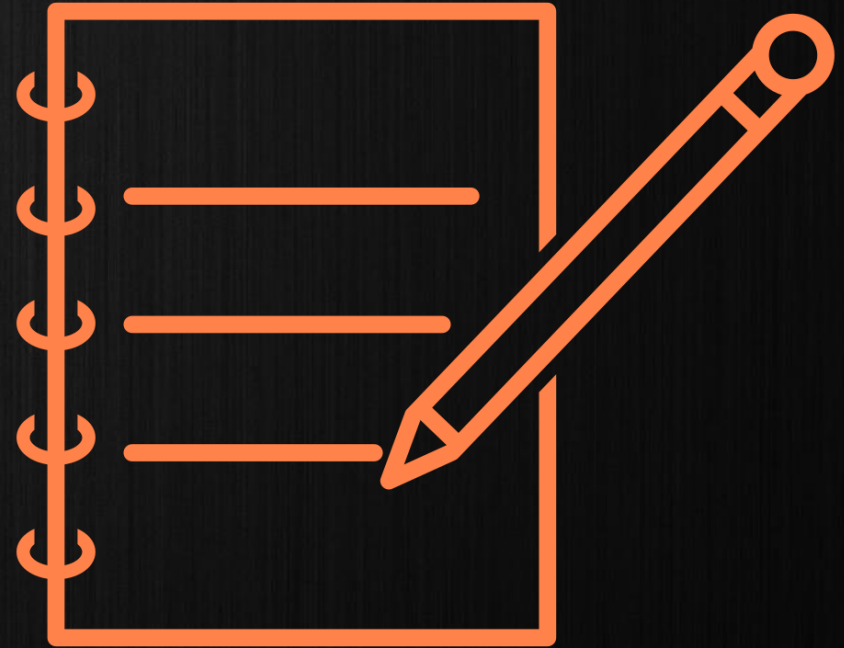
Inconsiderate

"A bull in a china shop"

Overbearing

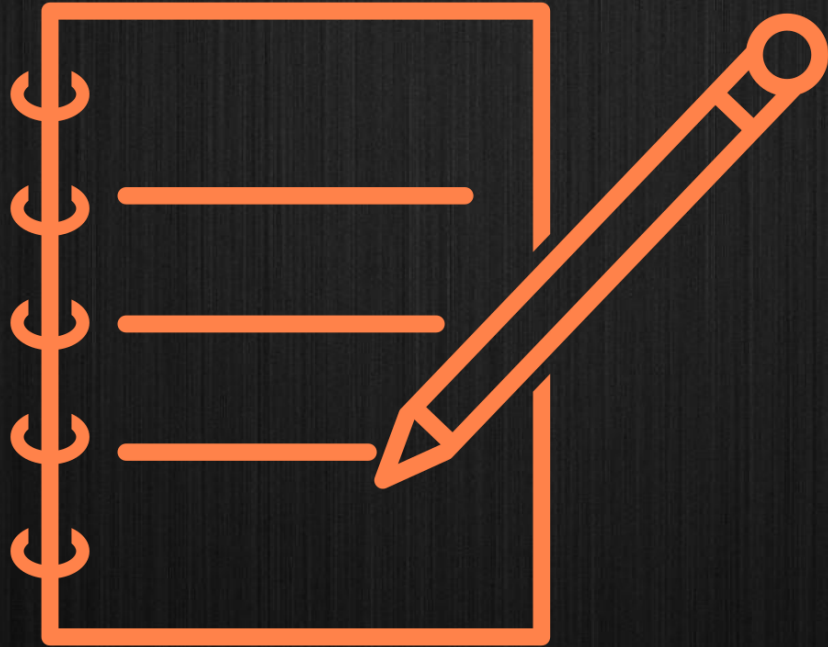
Know it all

Write down the name
of a project teammate
who is driving
you nuts





Take a walk



Why might your project
teammate be giving
you a hard time?

Loyal Friend

Big Teddy Bear

Great Manager

Awesome Leader

Still a little gruff...



Building Relationships



Take a walk



2

ANALYTICS + DATA WRANGLING +
DEFINING PROBLEMS

= REAL WORLD SUCCESS

The Problem



There are too many cars sitting in the yard during the day!

Write down a problem
that someone has
dumped in your lap





The Problem

Why are there so many vehicles in the yard during the day?

- ★ Intermittent pool vehicle usage
- ★ Long surplus "row"
- ★ "Just in case"



The Problem

Why are we keeping equipment "just in case"?

- ★ Equipment breaks down and we NEED it
- ★ Staff likes the equipment



The Problem

Why is equipment breaking down?

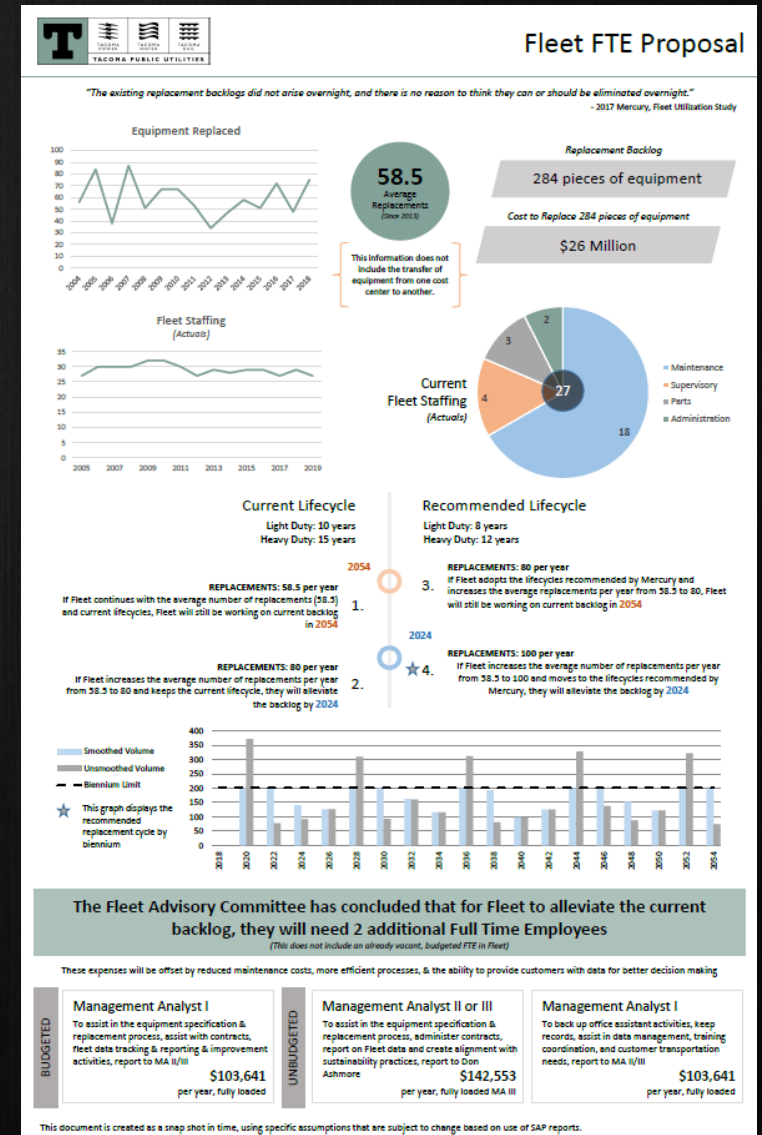
- ★ Our fleet is old
- ★ We don't have enough staff to replace equipment AND do all of the necessary maintenance

How old is our fleet?

How many staff do we need?

How many replacements per year?

How far behind are we?



rise overnight, and there is no reason to think they can or should be eliminated overnight.”

- 2017 Mercury, Fleet Utilization S



58.5
Average
Replacements
(Since 2013)

This information does not include the transfer of equipment from one cost center to another.

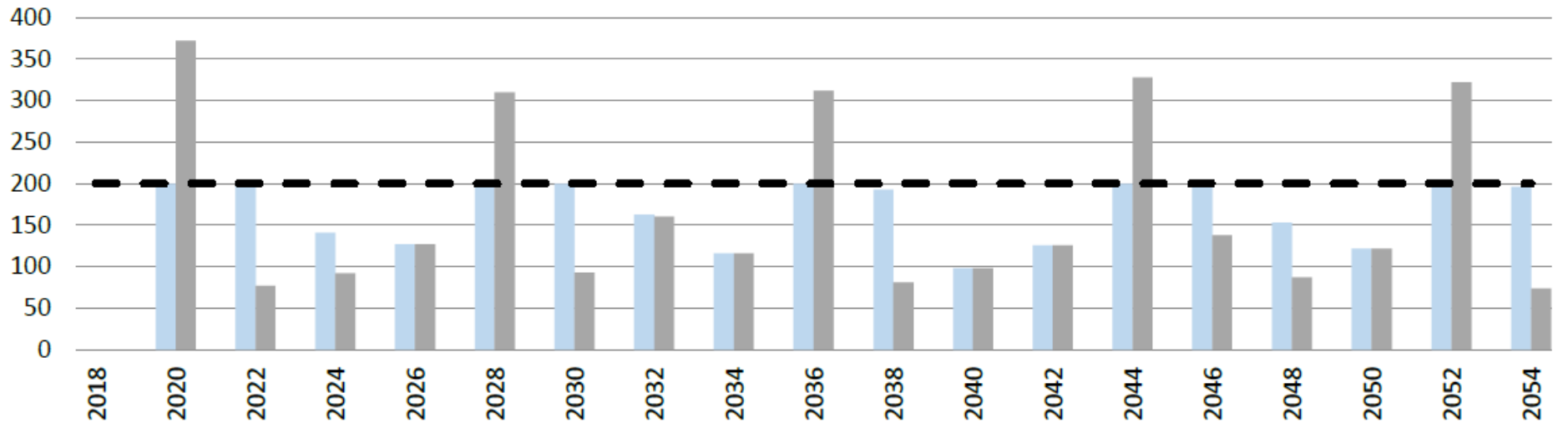
Replacement Backlog

284 pieces of equipment

Cost to Replace 284 pieces of equipment

\$26 Million

★ This graph displays the recommended replacement cycle by biennium

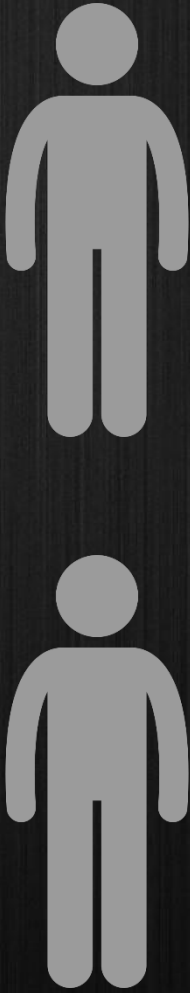


REPLACEMENTS: 58.5 per year

If Fleet continues with the average number of replacements (58.5) and current lifecycles, Fleet will still be working on current backlog
in **2054**

REPLACEMENTS: 100 per year

If Fleet increases the average number of replacements per year from 58.5 to 100 and moves to the lifecycles recommended by Mercury, they will alleviate the backlog by **2024**



Replacements

Analysis

Write down why!

WHY:

WHY:

WHY:

WHY:

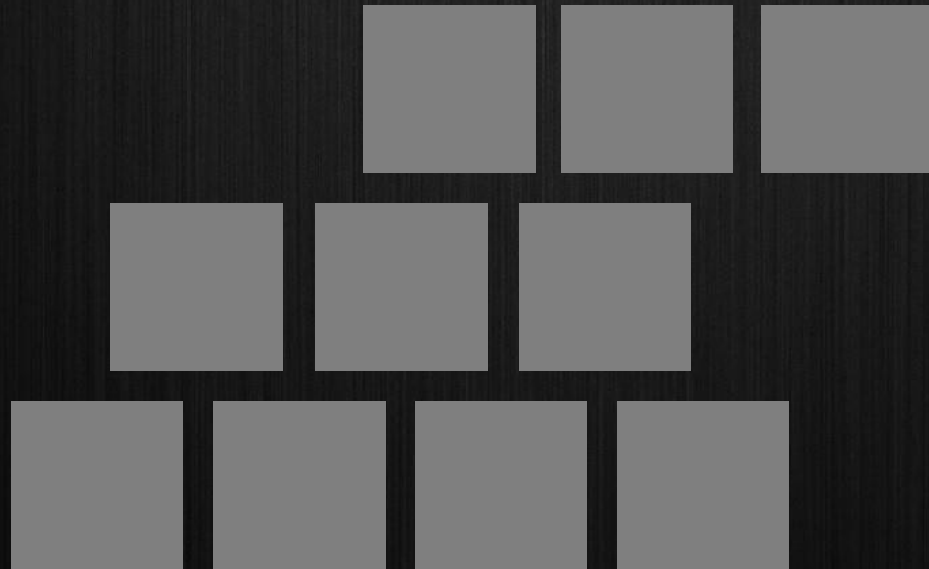
WHY:



Defining Problems



Ask why

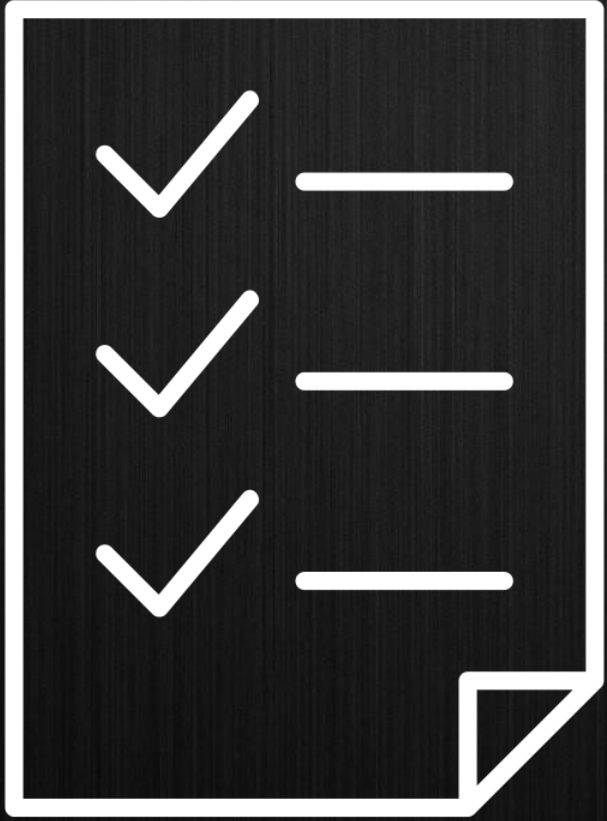


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3

ANALYTICS + DATA WRANGLING +
SETTING GOALS

= REAL WORLD SUCCESS

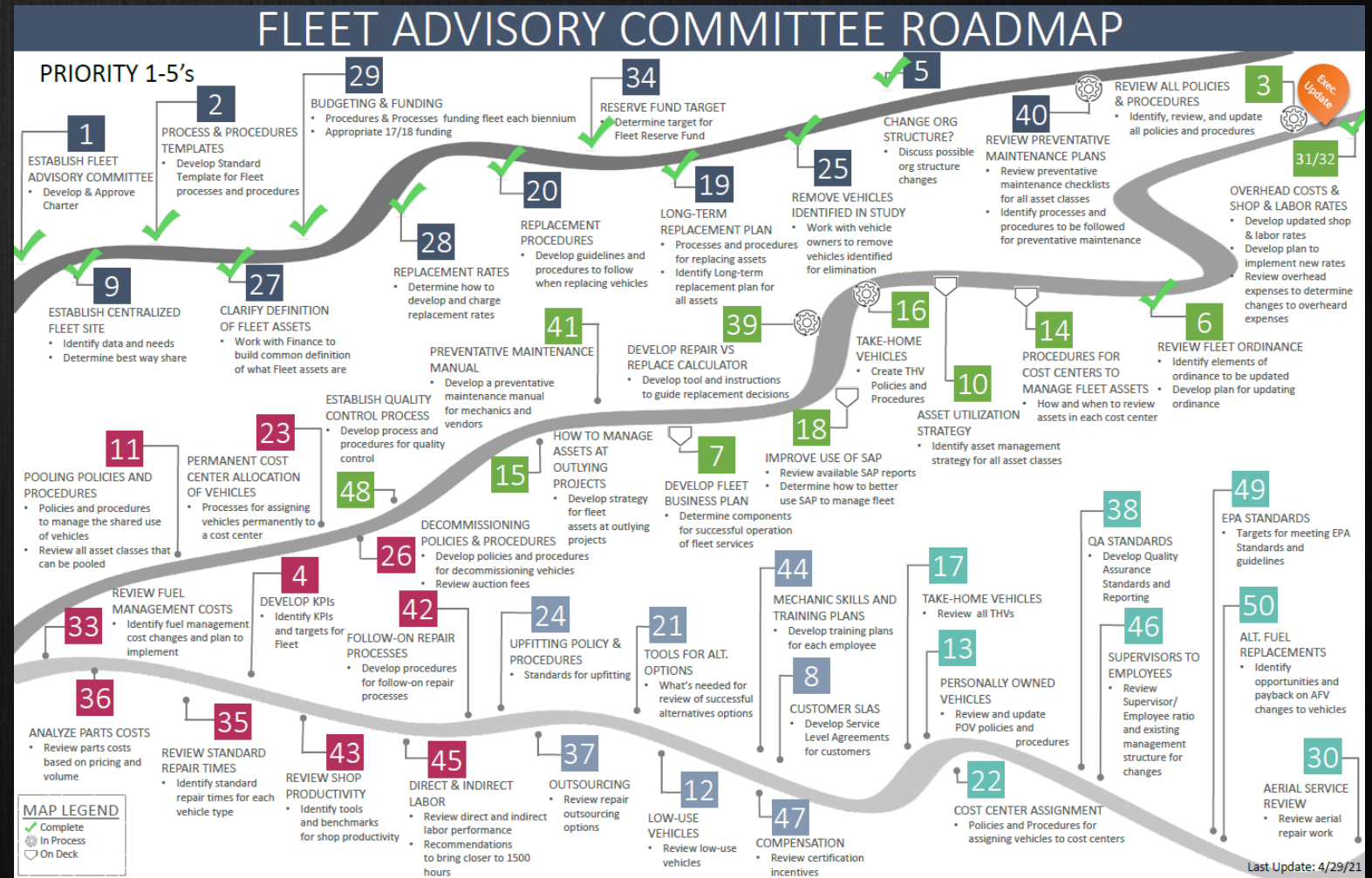


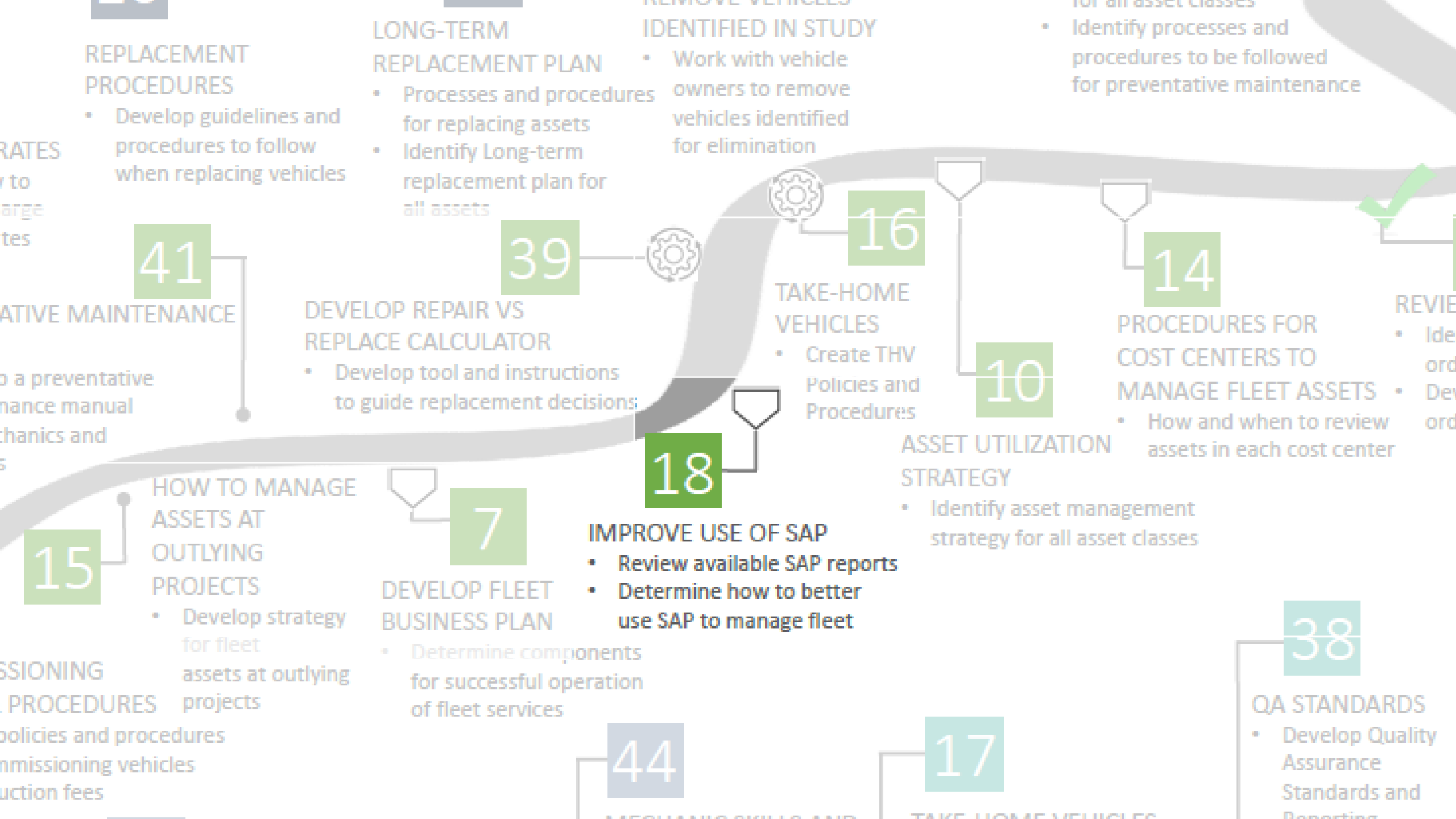
106

Write down your most
important goal RIGHT
NOW.



Set Goals

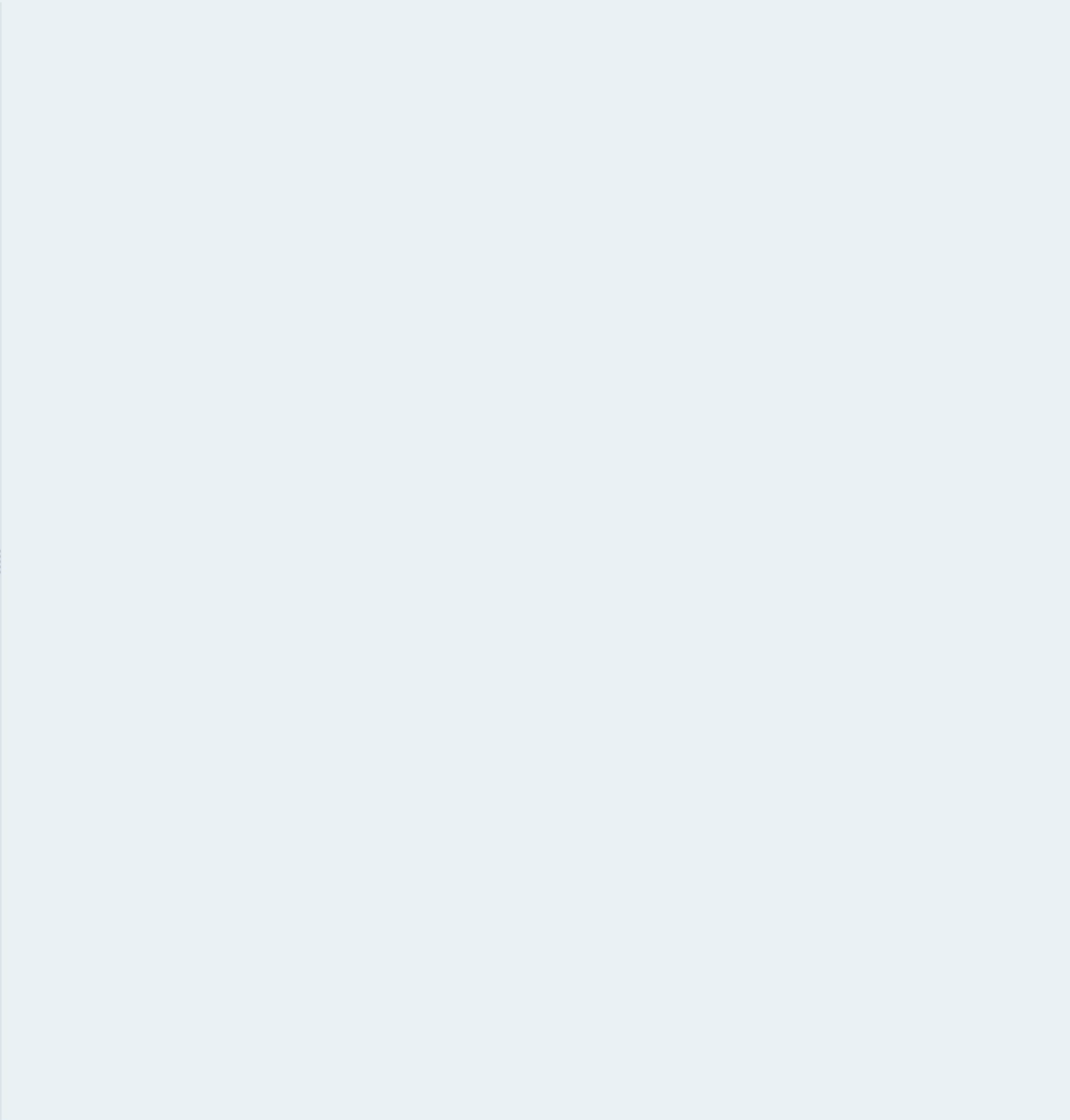




SAP Easy Access - User Menu for Haley Saul



- ▼ Favorites
 - Management Reports
 - Purchase Requisitions
 - Purchase Orders
 - Department Receiving
 - Training
 - Time Keeping
 - Financial Reporting
 - Human Resources
 - Capital Projects
 - Role Requests
 - Fleet
 - Revenues
 - ★ MK03 - Display vendor (Purchasing)
 - ★ ME33K - Display Contract
 - ★ TRIP - Travel Manager
 - ★ KSBT - Cost centers: Activity prices
 - ★ SP02 - Display Spool Requests
 - ★ FK10N - Vendor Balance Display
 - ★ ME3L - Outline Agreements per Vendor
 - ★ /PAYMETRC/BMENU - XiBuy Menu
- ▼ User Menu for Haley Saul
 - 🔍 SQ01 - SAP Query: Maintain queries
 - 🔍 SQVI - QuickViewer
 - 🔍 KO88 - Actual Settlement: Order
 - 🔍 KO8G - Act. Settlement: Int./Maint. Orders
 - ▶ Budget Reports - O&M
 - ▶ Project Financial Specialist
 - ▶ Update WBSE's with CAPT FERC
 - ▶ TPU Project Reports
 - ▶ YGENERAL2_A
 - ▶ Department Time Keeper
 - ▶ Employee ESS User
 - 🔍 CJ13 - Display WBS Element
 - 🔍 CAT2 - Time Sheet: Maintain Times
 - 🔍 TRIP - Travel Manager
 - 🔍 TRIP_EWT - Travel Manager
 - ▶ Human Resources
 - ▶ HR Training Department User
 - ▶ Work Group Supervisor
 - ▶ Employee Reimbursement and Trip Creator
 - 🔍 SP02 - Display Spool Requests
 - 🔍 Y_DV1_B1000112 - 3533 for Billables - Includes Revenu
 - ▶ CCS Reports
 - ▶ Financial Reports
 - ▶ Work Management Reports
 - ▶ ----- Other Reports
 - ▶ QuickView Reports





Data Source(s): Fleet Data Pipeline
 Data Updated through: 10/31/2022
 Owner: Hannah Ball

Fleet Reporting Suite | Cost Center Detail

Choose Your Fleet ▶ Choose Your Filter ▶
 Choose Your Cost Center ▶ Filter for Status ▶
 Select Order Date Range ▶

3

Equipment in Cost Center

\$6,252

in Costs for Selected Date Range



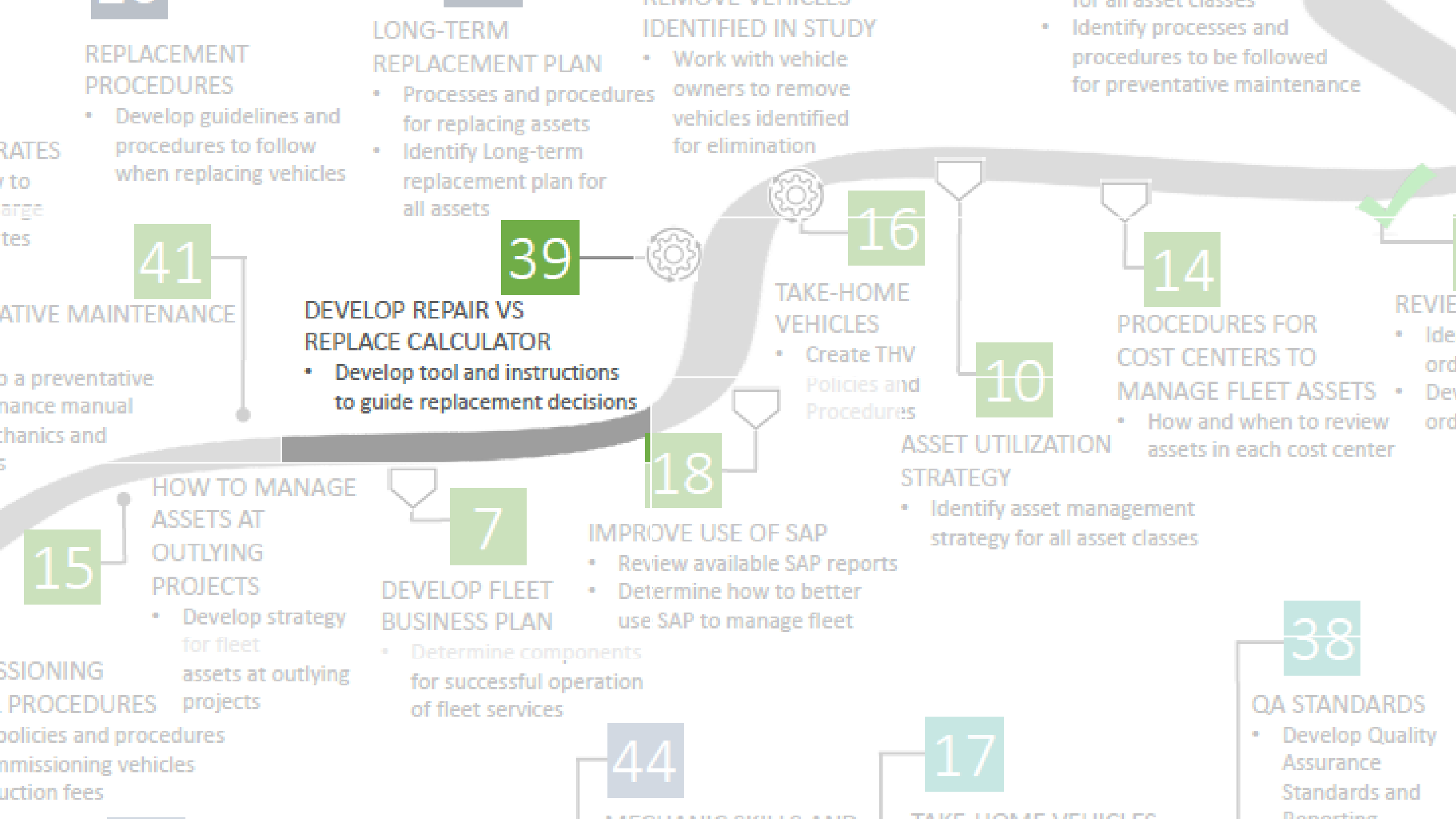
Equipment List Filter to an Equipment ▶ Or Filter to a Sort Field ▶

Fleet Equipment by Cost Center | 562300 - Power Commercial/Indust & Tech Svc

Hover and click the plus sign next to Lifecycle to see spend details.

Equipment	Equipment_Description	Sort_Field	License_...	VIN	Functional_Loc	Year of Replace..	Lifecycle				
							FM01 - Corrective Ma..	FM02 - Preventative ..	FM08 - Fuel	FM08 - Fees & Misc	
7118019	09 TOYOTA CAMRY HEV		68074D	4T1BB46KX9U..	FM-U-FS-C-PWR -ES	-562300	2022	\$1,936		\$127	\$988
7118340	10 FORD FUSION HEV		51798D	3FADP0L32AR..	FM-U-FS-C-PWR -ES	-562300	2022	\$1,105	\$662	\$431	\$1,003

Select One Equipment to See Details Below ▶



Fleet Lifecycle Analysis BETA

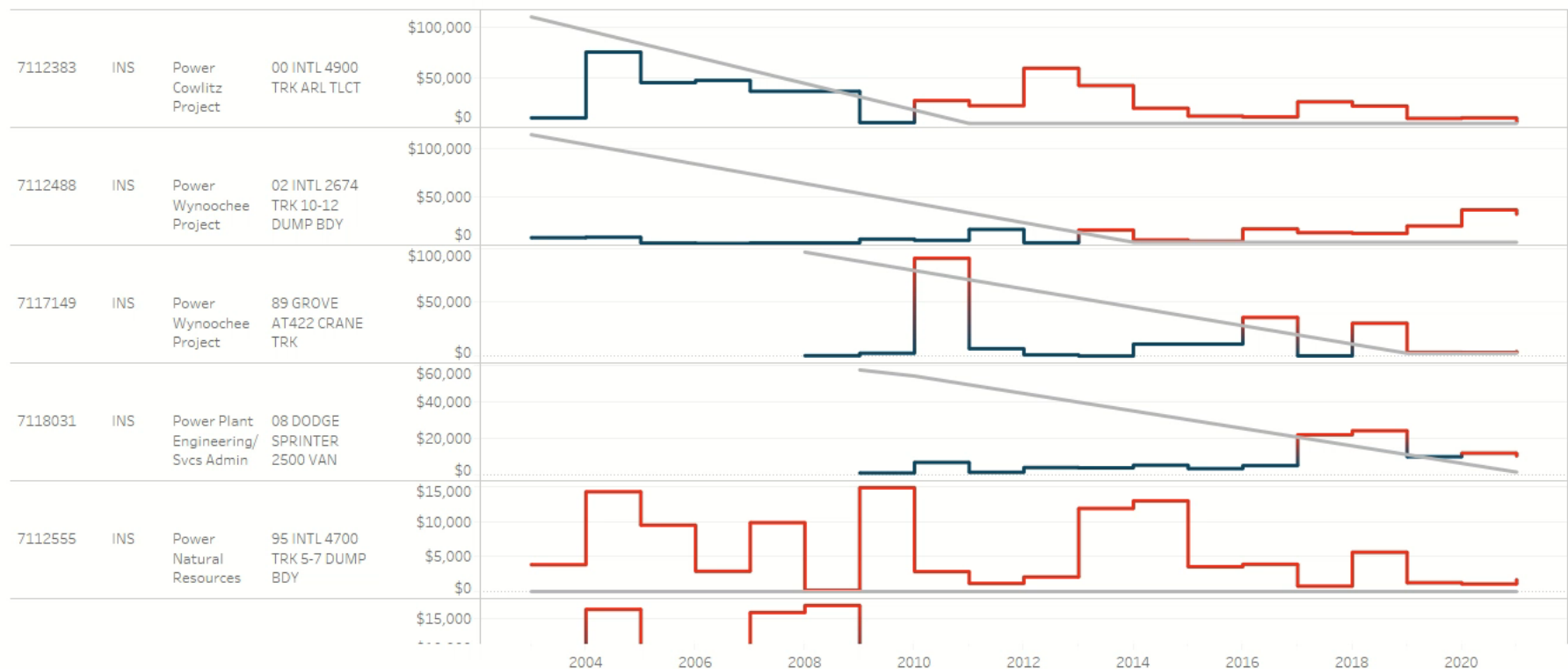
Start here: Select your Cost Center(s) This will populate based on NAFA codes in the cost center. Narrow down your view by Equipment Typ... Choose the statuses you want to see. And finally, select any and all equipment to focus on.

Select your Division(s). Click Apply.

PWR-GEN (All) (All) (All) (All) (All)

Resale Value vs Annual O+M Costs. O+M costs include Operations (fuel + misc) and Maintenance (corrective, preventive, and accident)
RED indicates O+M costs exceeded resale value in that year. BLUE indicates O+M costs are below resale value in that year. GREY indicates the resale value in that year. Ideally, we will get rid of the equipment BEFORE the annual costs exceed resale value.

Select an equipment to see the details in the table below.





Prioritize!

Setting Goals



Be intentional

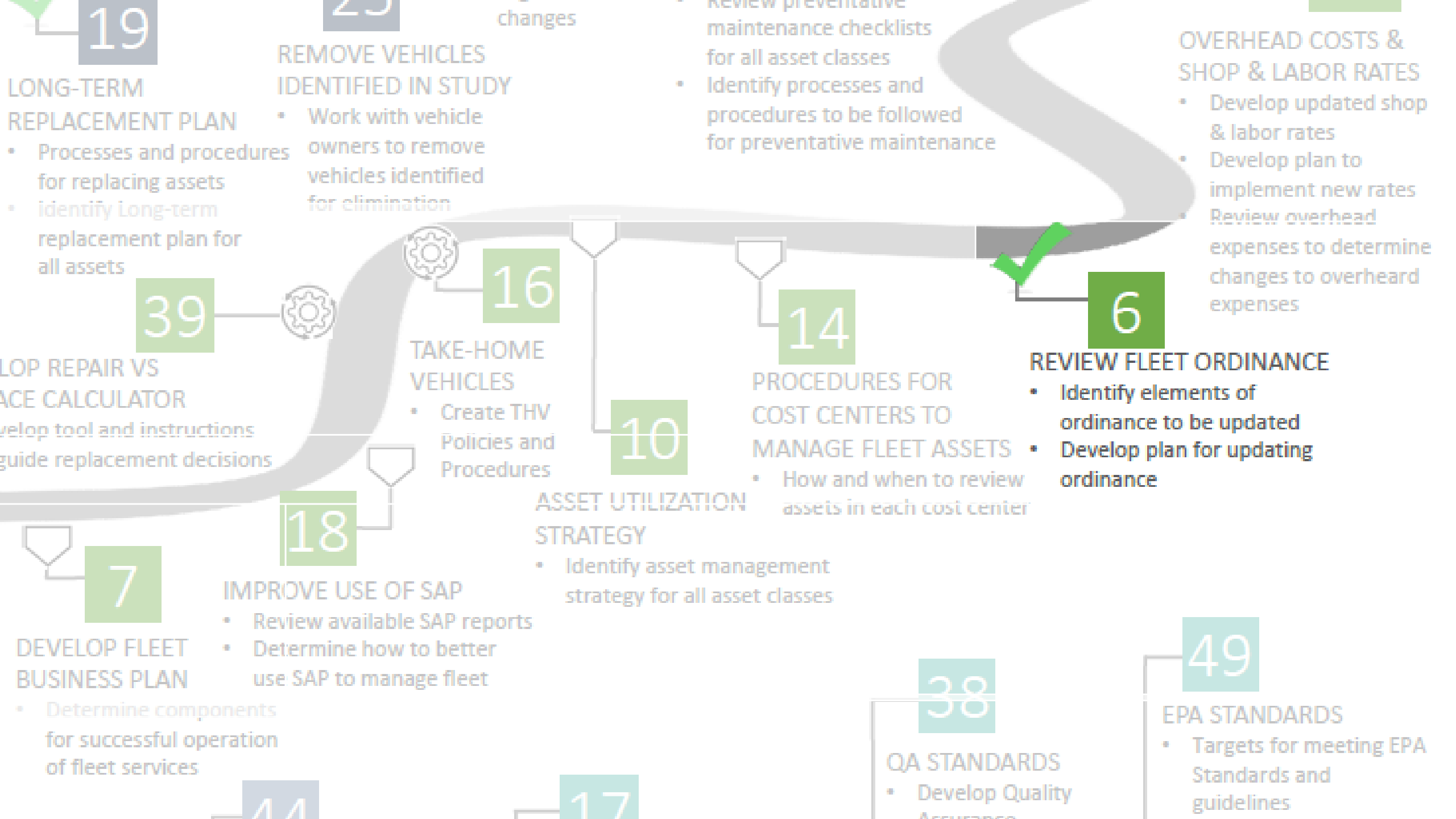


3

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CELEBRATING SUCCESSES

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19

LONG-TERM REPLACEMENT PLAN

- Processes and procedures for replacing assets
- identify Long-term replacement plan for all assets

20

REMOVE VEHICLES IDENTIFIED IN STUDY

- Work with vehicle owners to remove vehicles identified for elimination

21

changes

- Review preventative maintenance checklists for all asset classes
- Identify processes and procedures to be followed for preventative maintenance

OVERHEAD COSTS & SHOP & LABOR RATES

- Develop updated shop & labor rates
- Develop plan to implement new rates
- Review overhead expenses to determine changes to overhead expenses

39

DEVELOP REPAIR VS REPLACE CALCULATOR

Develop tool and instructions guide replacement decisions

16

TAKE-HOME VEHICLES

- Create THV Policies and Procedures

14

PROCEDURES FOR COST CENTERS TO MANAGE FLEET ASSETS

- How and when to review assets in each cost center

6

REVIEW FLEET ORDINANCE

- Identify elements of ordinance to be updated
- Develop plan for updating ordinance

10

ASSET UTILIZATION STRATEGY

- Identify asset management strategy for all asset classes

18

IMPROVE USE OF SAP

- Review available SAP reports
- Determine how to better use SAP to manage fleet

7

DEVELOP FLEET BUSINESS PLAN

- Determine components for successful operation of fleet services

38

QA STANDARDS

- Develop Quality Assurance

49

EPA STANDARDS

- Targets for meeting EPA Standards and guidelines

44

17



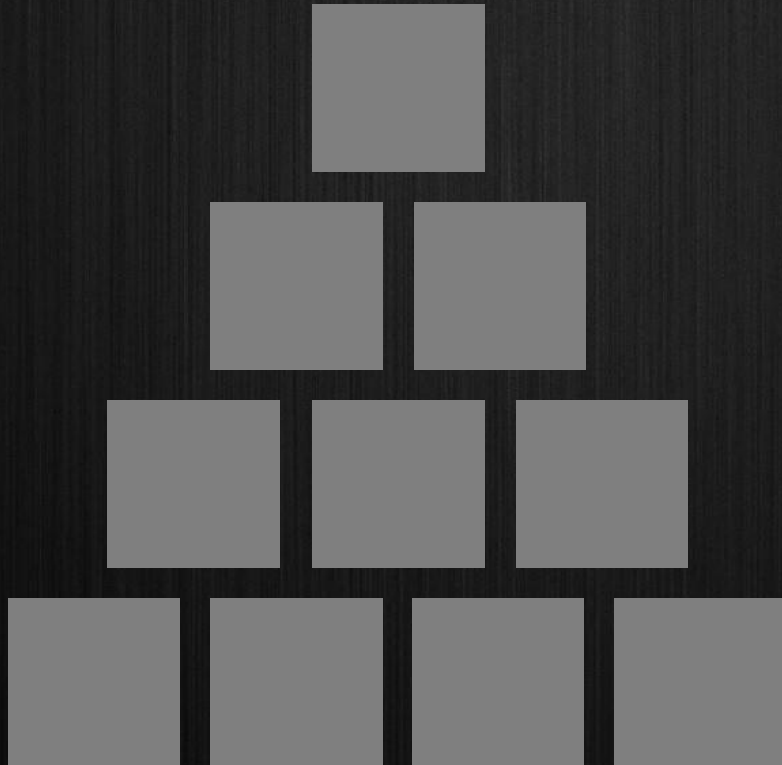
Write down one thing
you can celebrate with
your team next week.



Celebrating



Do Something Fun



4

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Building Relationships

Defining Problems

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Haley Saul
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