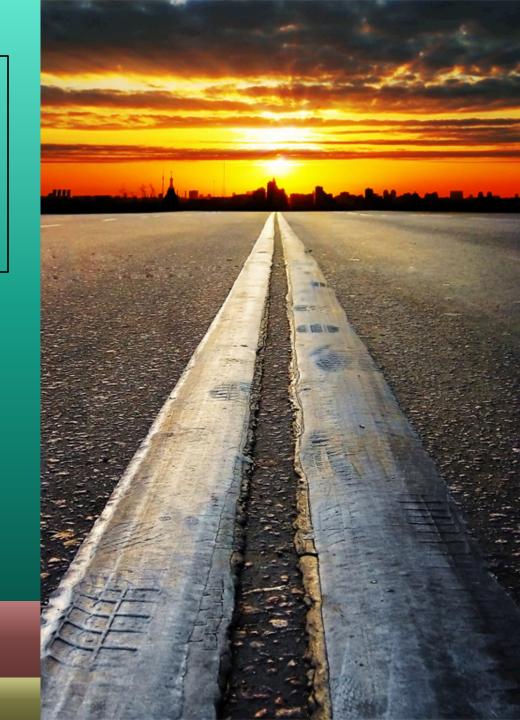
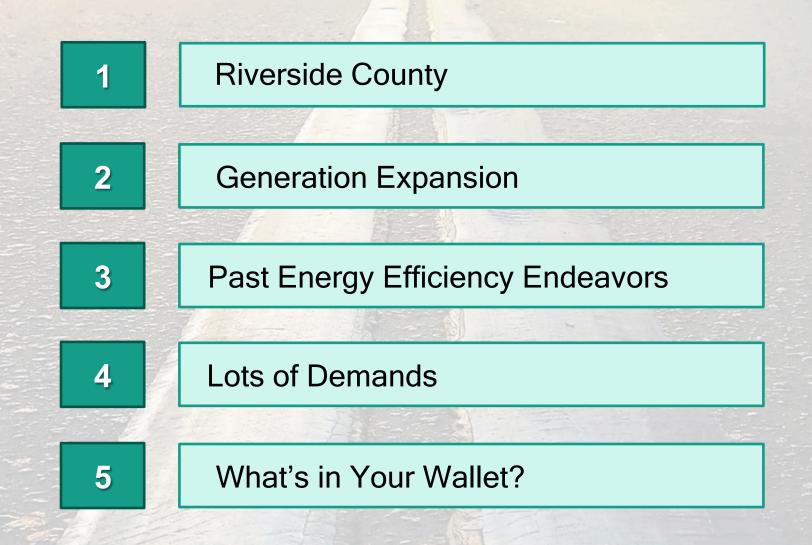
"What's In Your Wallet?"

Janet Purchase Energy Manager Riverside County Economic Development Agency





The Energy Adventure



Riverside County Background

- 10th Largest US County in Population

 2.3 MILLION
- 4th Largest County in California
 - 7,303 square miles
- ✤ 27 Cities in County
- Board of Supervisors
 5 Districts

Riverside County Background

- County Owned Buildings
 - 695 facilities
- County Leased Buildings
 458 facilities
- 54 Utility Service Providers
- 15,208,069 Square Feet



Riverside County Challenges

- Inland Empire Region
 - Riverside/San
 Bernardino Counties

Poor Economy

- Recession
- Unemployment
- ✤ Decline in Tax Base
- Recovering, Then Declining Budgets



Riverside County Challenges

- Public Safety
 - Realignment of State
 Prisoners To County
- County Detention
 Facilities
 - New 1,636 bed jail in Indio
- Prisoner Health Care
 Against
 - Lawsuit Against County



Solar Expansion





OPTERRA ENERGY SERVICES

The Opportunity–Solar Expansion



- Special Tariff Initiated by the CPUC
 - Created by PU Code 2380 (AB 2466)
 - Local Governments can <u>generate solar</u> on one site and <u>transfer the</u> <u>credit</u> to other existing electric accounts
- Renewable Energy Self-Generation Bill Credit Transfer Tariff

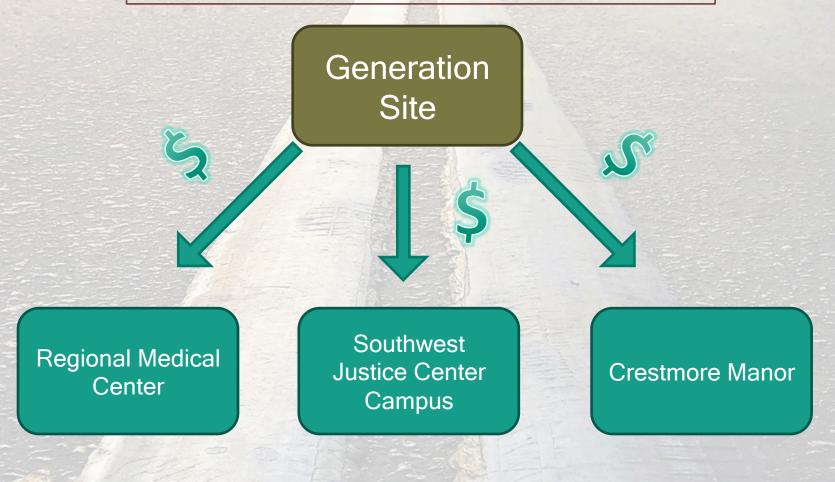
The Opportunity–Solar Expansion



Otherwise Known As The Aretha Franklin **"R-E-S-B-C-T"** Tariff

The Process–Solar Expansion

Dollars are transferred–NOT kWH

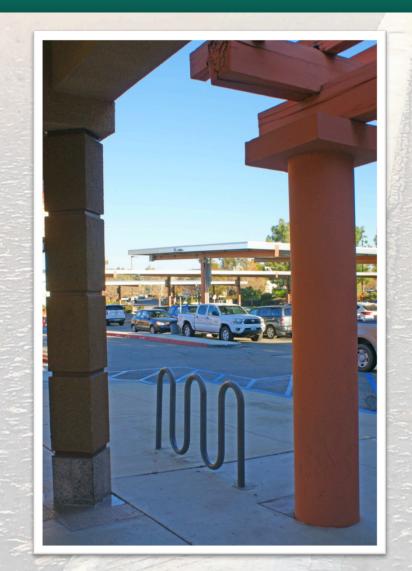


The Process–Solar Expansion



The transfer of credit generates energy cost savings Project pays for itself PLUS Guarantees an additional \$127,000 per year for 20 years

Solar Expansion—Financing



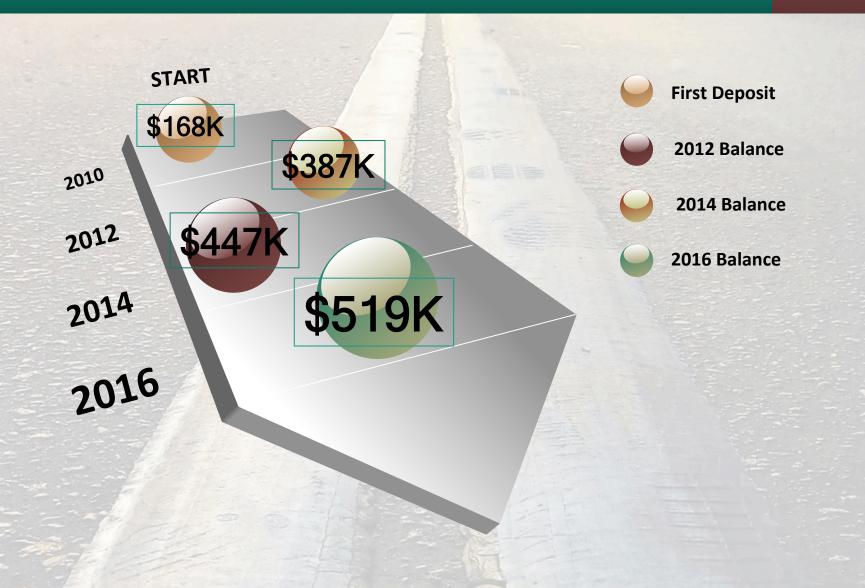
- Banc of America Public Capital Corporation
- Solar Equipment security for loan
- \$54.6 million project costs
- 19.5 year term
- Competitive Interest Rate
- \$127,000 per year additional savings (more expected)
- Financing includes:
 - Solar System Maintenance
 - Weed Abatement for ground-mount sites
 - Measurement & Verification
 - \$5 million in CSI rebate reservations

Strategic Efforts

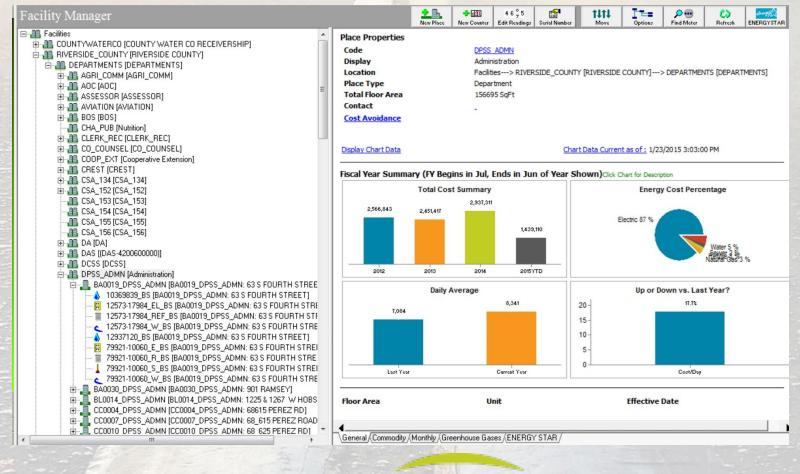


Policy creating the Energy Conservation Fund approved August 10, 2010

Energy Conservation Fund

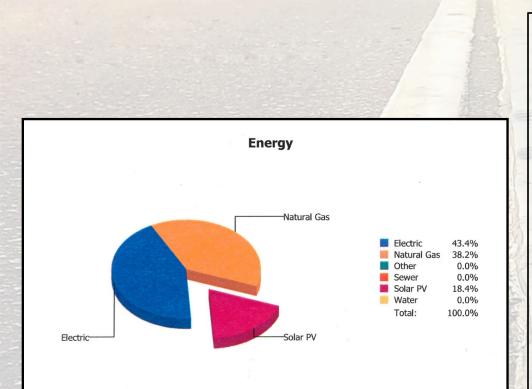


Utility Bill Management System



EnergyCAP.

EnergyCAP



- Went live with system in July 2012
- Audit savings and utility incentives exceeded the initial system cost within 15 months (\$133,790)
- Total audit savings to date exceeds \$326,000
- EnergyCAP ranks buildings by performance
 - Cost/SF
 - ✤ Use/SF

Feeds EE project decisions

Energy Efficiency (2009-13)



- ✤ EE Projects:
 - Boiler Upgrades (7)
 - HVAC Upgrades (3 large)
 - VFDs & Motors (2 large)
 - Lighting Upgrades (4)
 - Controls Upgrades (2 large, many small)
- Savings by Design:
 - Completed 17 projects
- All rebates and incentives deposited in Energy Conservation Fund

Energy Efficiency–PBx (2012-14)

 Persistence-Based Retrocommissioning Projects using Energy Conservation Fund (\$246K)

 Third-party program available through Edison

Funds spent on PBx at:

- Southwest Justice Center
- Perris Sheriff-CHA
- Western Riverside Animal Shelter

Energy Efficiency–PBx Results



Total Project Costs: \$246,519

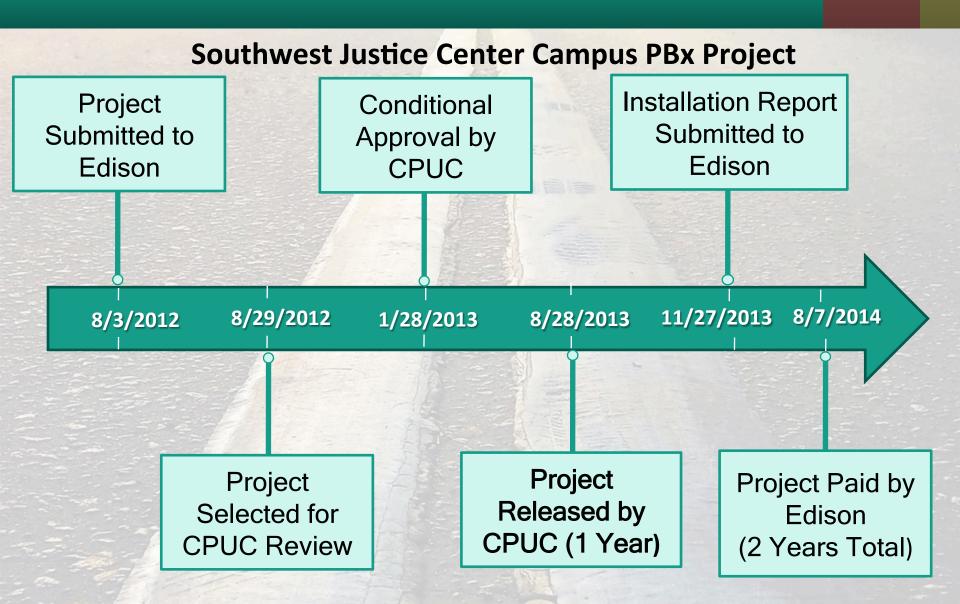
Energy Savings:

- 669,828 kWh
- 26 KW
- 34,444 Therms
- Cost Savings:
 - \$79,752 Electric Savings
 - \$21,896 Gas Savings
 - \$101,649 Total Savings

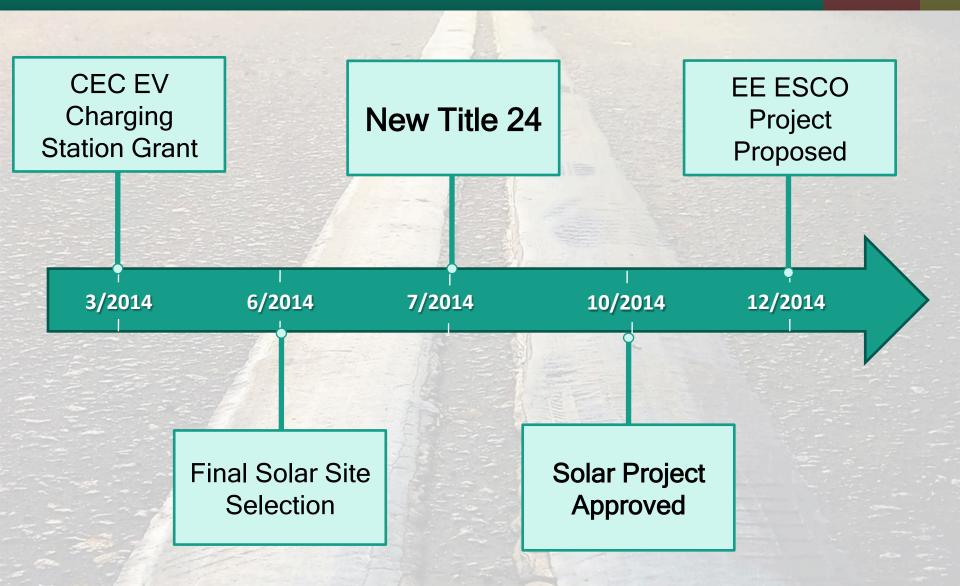
Total SCE/SCG Incentives:
 – \$133,644

Total Project Savings: \$235,293

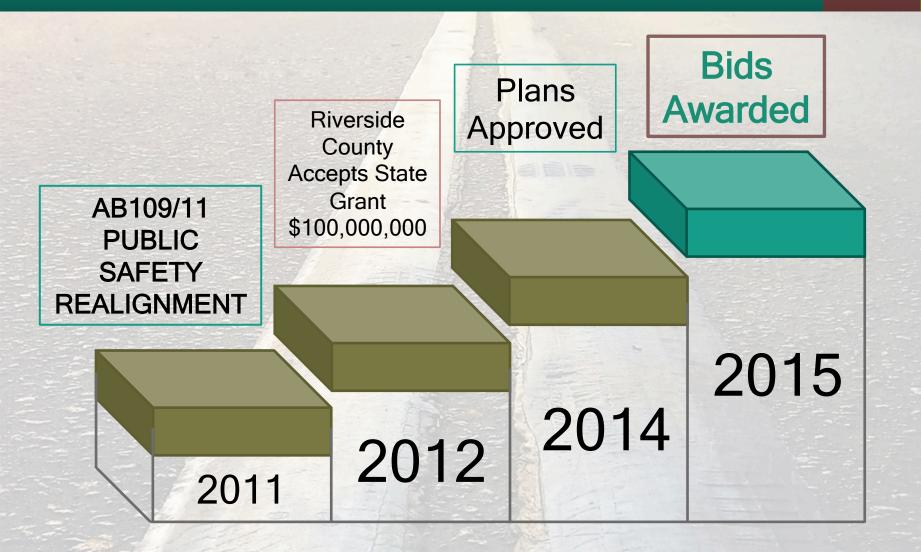
Changing Demands–Project Process



Competing Demands (Internal)



Controlling Demands (External)



Resources–What's in Your Wallet?

CapitalOne







what's in your wallet?

Capitalone

Cash Back Rewards—"Quick Silver"



Cash Back Rewards

Earn unlimited cash back on every purchase.

See Cash Back Cards

Pre-Title 24 change

- Rebates for most measures
- New Construction incentives—no building size limit
- CSI Rebates
- Minimal "to code" requirements
- Calculated rebates

Post Title 24

- Rebates are upstream & midstream
- New Construction > 25,000 square feet
- CSI Rebates--gone
- Rebates for above code only
- Calculated & Express rebates gone

Impact–IOU Partnership



 Can't get savings credit for the Partnership if there is no rebate

Issue of many facilities that are not "to code"

EE projects are more expensive with very few rebates = low ROI

Travel Rewards–Project Processing



Travel Rewards

No blackout dates, redeem anytime.

See Travel Cards

Pre-Title 24 change

- Mostly timely processing of project
- Plenty of 3rd Party programs
- ✤ No extra CPUC review
- Less 3rd party review by utility

Post Title 24

- IOU and CPUC processing is very lengthy
- 3rd party programs have ended
- CPUC can pull projects
- Heavy IOU 3rd party review

Impact–Last Minute Money



Average or Building Credit–Low Budget



Average or Building Credit

Cards to help you build credit with responsible use.

See Cards Now

Pre-Title 24 change

- Direct Install programs available
- Grant funding possible (EECBG)
- Good ROI on ESCO projects
- Good ROI on lighting

Post Title 24

- Direct Install limited
- Grant funding very competitive
- Lower ROI on ESCO projects
- Lower ROI on lighting

Impact–Declining Conservation Fund



- Already a declining return to fund
- Already have competition between multiple utilities for funding
- Due to county jail, reduced new construction programs in IOU territory
- No rebates coming back to fund future projects
- Fund will eventually run out of money

Popular Cards--Other Resources



Popular Cards Cards people are raving about.

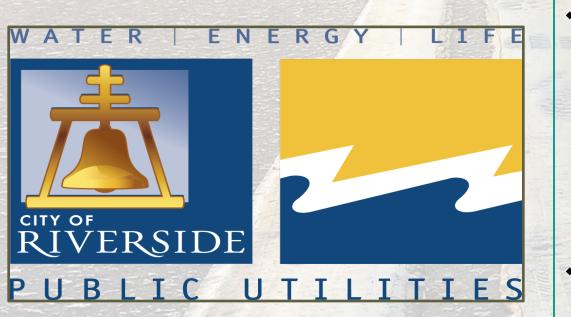
See Popular Cards

Non-EE Activities with better resources

- Solar for local government-RES-BCT program
- Electric vehicle charging station opportunities—CEC, SCAQMD, SCE
- Municipal utility programs
- Battery storage
- * Micro-grids

Impact–What's in My Wallet?

Riverside Public Utilities



- Easy Process
 - No reservation
 - Quick pre-inspection
 - Simple application
 - One page
 - Before/After information
 - Cut sheets
- Rebates for most measures
- Payment in 4-6 weeks

Integration of Distributed Energy

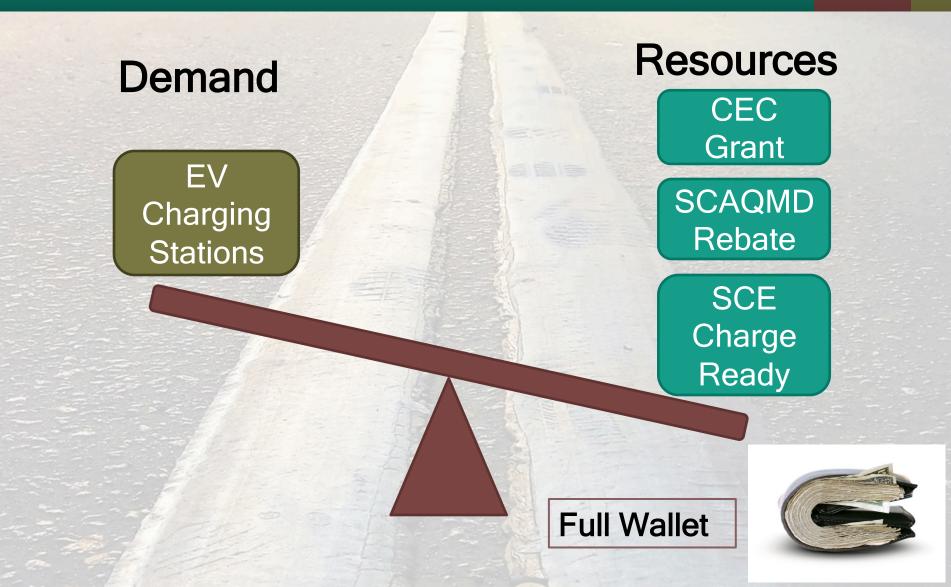
Perris Sheriff Station

Riverside County theriff's Department Perris Station

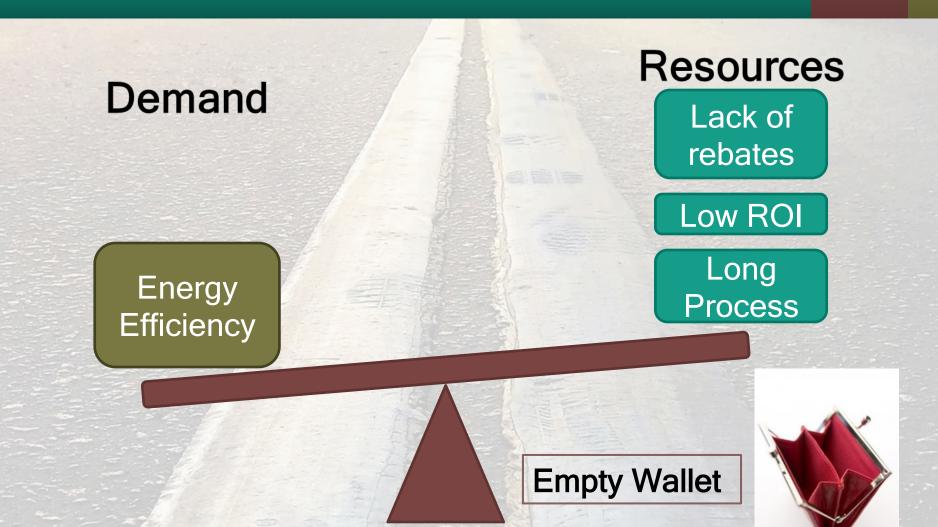
Integration of Distributed Energy

Western Riverside Animal Shelter

It's a Balancing Act



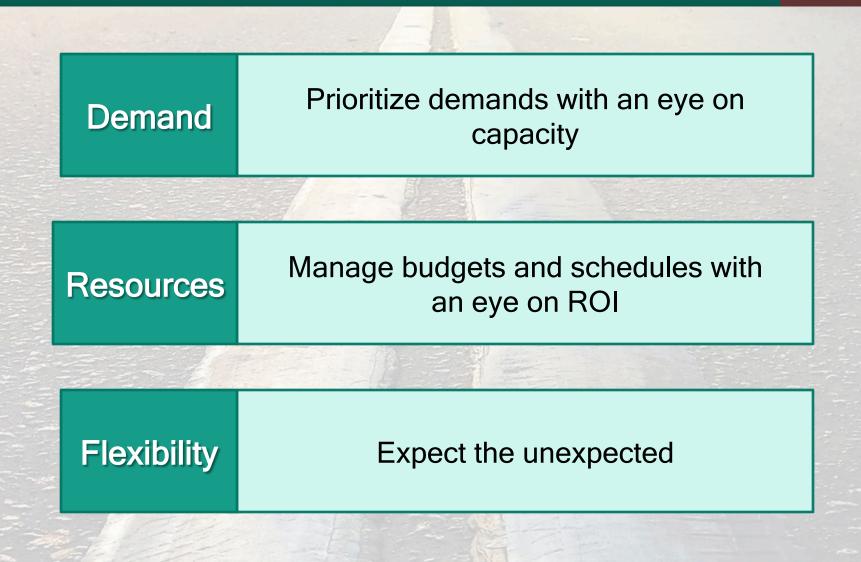
It's a Balancing Act



Multi-task to the Max



Final Thoughts



Semper Gumby



Mom Said There Would Be Days Like This



Do you have any questions?

