



BEACH NOURISHMENT PROGRAM UPDATE

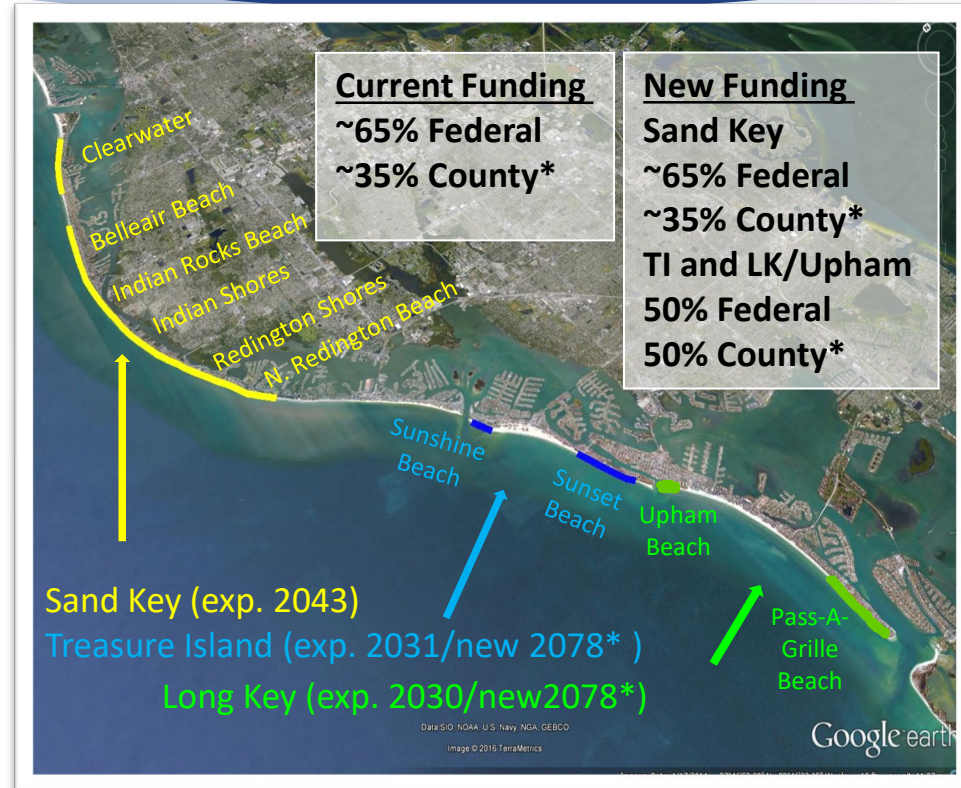
*Kelli Hammer Levy, Public Works Director
July 13, 2023 Board of County Commissioners Work Session*

Federal Storm Damage Reduction Projects



Overview

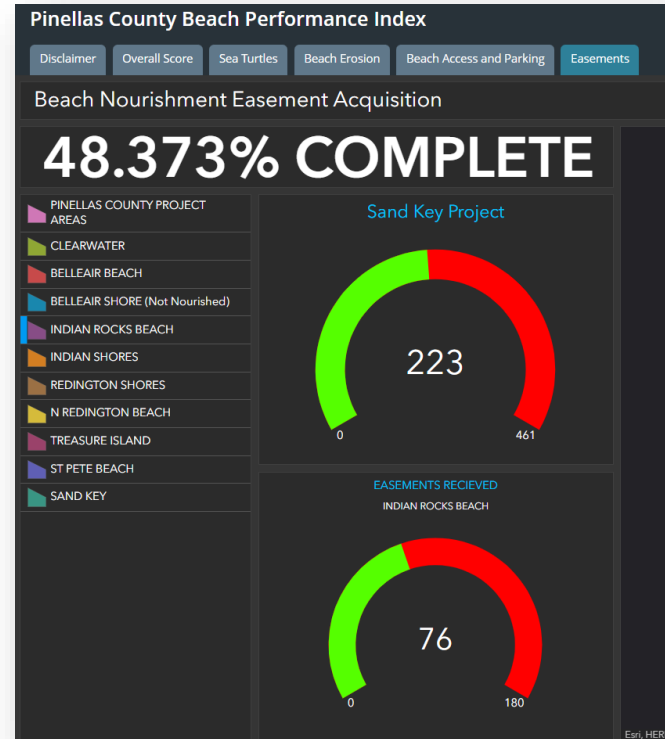
- 35 miles of beach
- 21.4 miles critically eroded
- 12 miles are restored regularly
- Initial authorization – 1966
- Storm damage reduction benefits: >\$10B



Federal Storm Damage Reduction Projects



- Pre-2018 nourishment cycles have been completed using both permanent and temporary easements
- Nov. 2017 USACE notified the County of the policy change
- 2018 nourishment proceeded with some areas skipped due to lack of easements
- Since 2017, easement acquisition has been a priority to ensure both periodic and storm damage restoration projects
- 2024 Sand Key project is on hold indefinitely; 2023 Treasure Island, LK-Upham, Pass-A-Grille recently put on hold until easement status is confirmed



Financial Overviews

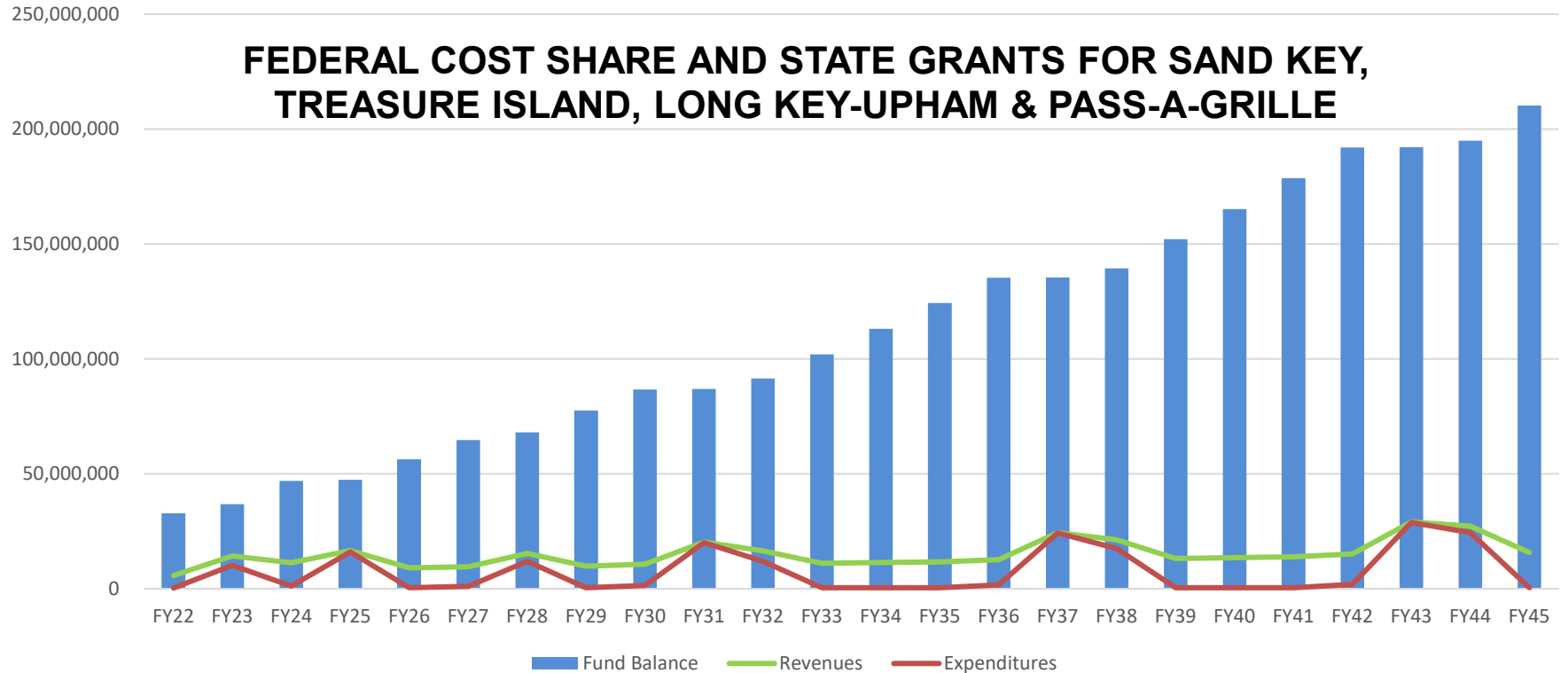
- **Estimate costs and revenues under full funding, partial funding and no funding scenarios**
- **Based on current TDT allocation**
- **Nourishment cycles**
 - **4 years: Current Treasure Island & Long Key-Upham**
 - **6 years: Sand Key & the new authorization for Treasure Island & Long Key-Upham**
 - **8 years*: Sand Key nourishment + structures**
 - **~10 years: Pass-A-Grille**



Financial Overviews

- **Do not include costs for rehabilitation or reconstruction of existing structures or mitigation and other associated costs**
- **Do not include interim nourishments that may be needed as a result of storm damage**
 - **USACE advised of ineligibility for Flood Control and Coastal Emergencies (FCCE) Appropriations without 100% easements**
 - **County funded storm damage restoration activities are ineligible for FEMA reimbursement**

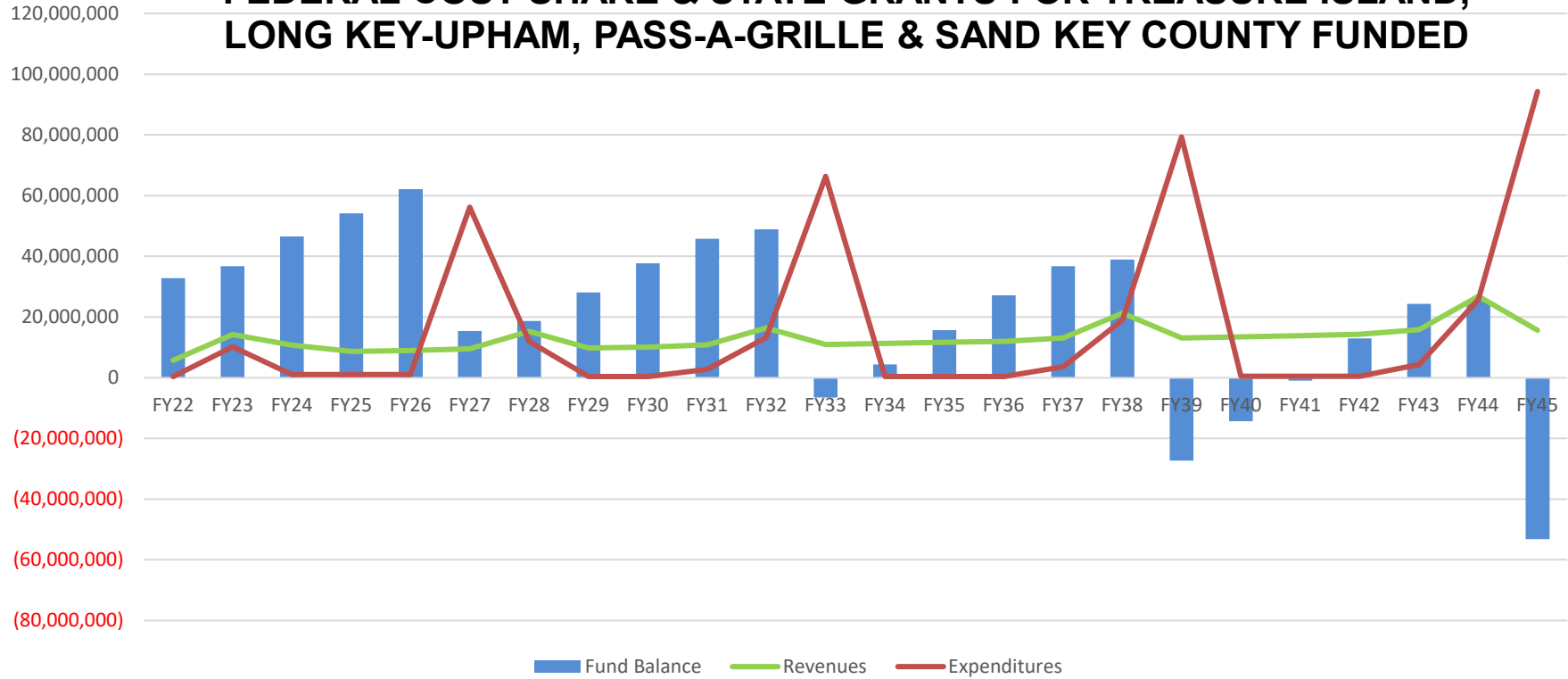
Financial Overview 1



Financial Overview 2



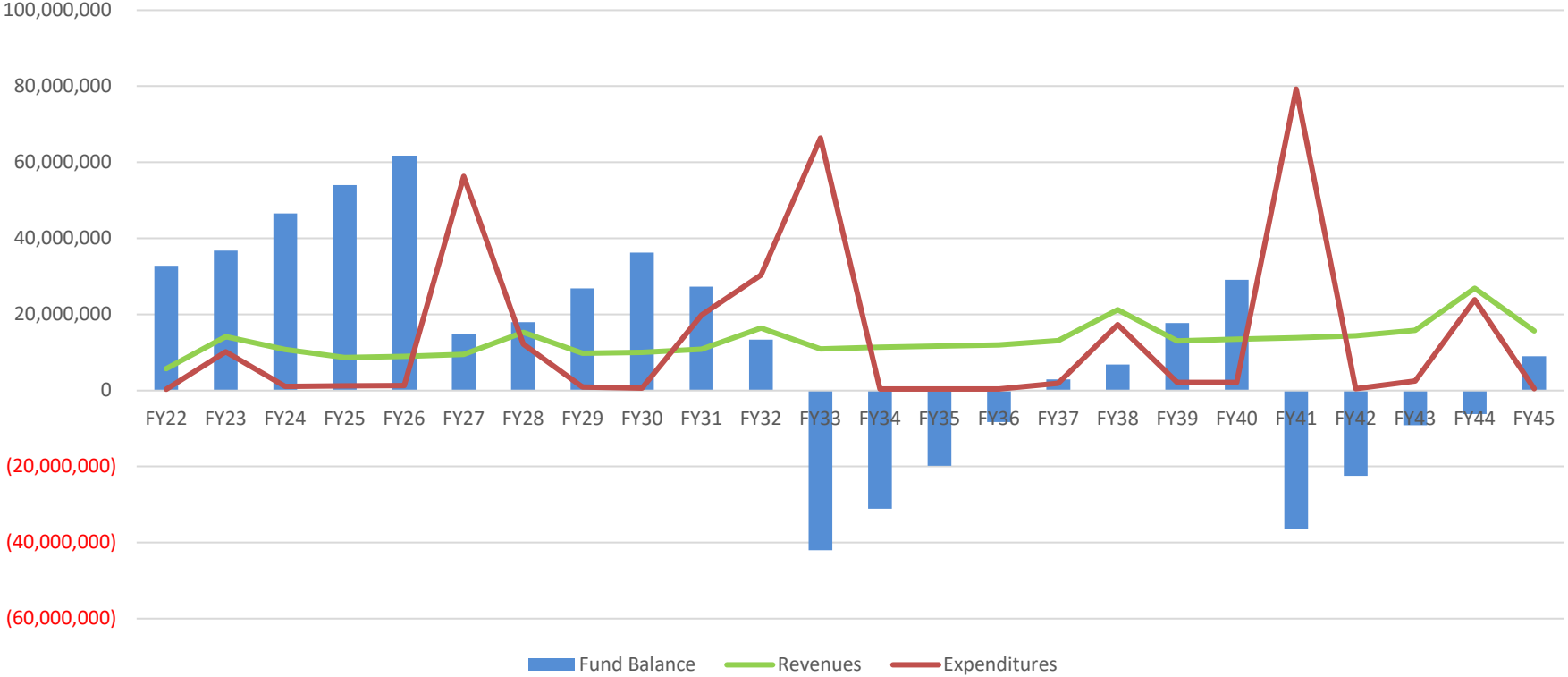
FEDERAL COST SHARE & STATE GRANTS FOR TREASURE ISLAND, LONG KEY-UPHAM, PASS-A-GRILLE & SAND KEY COUNTY FUNDED



Financial Overview 3



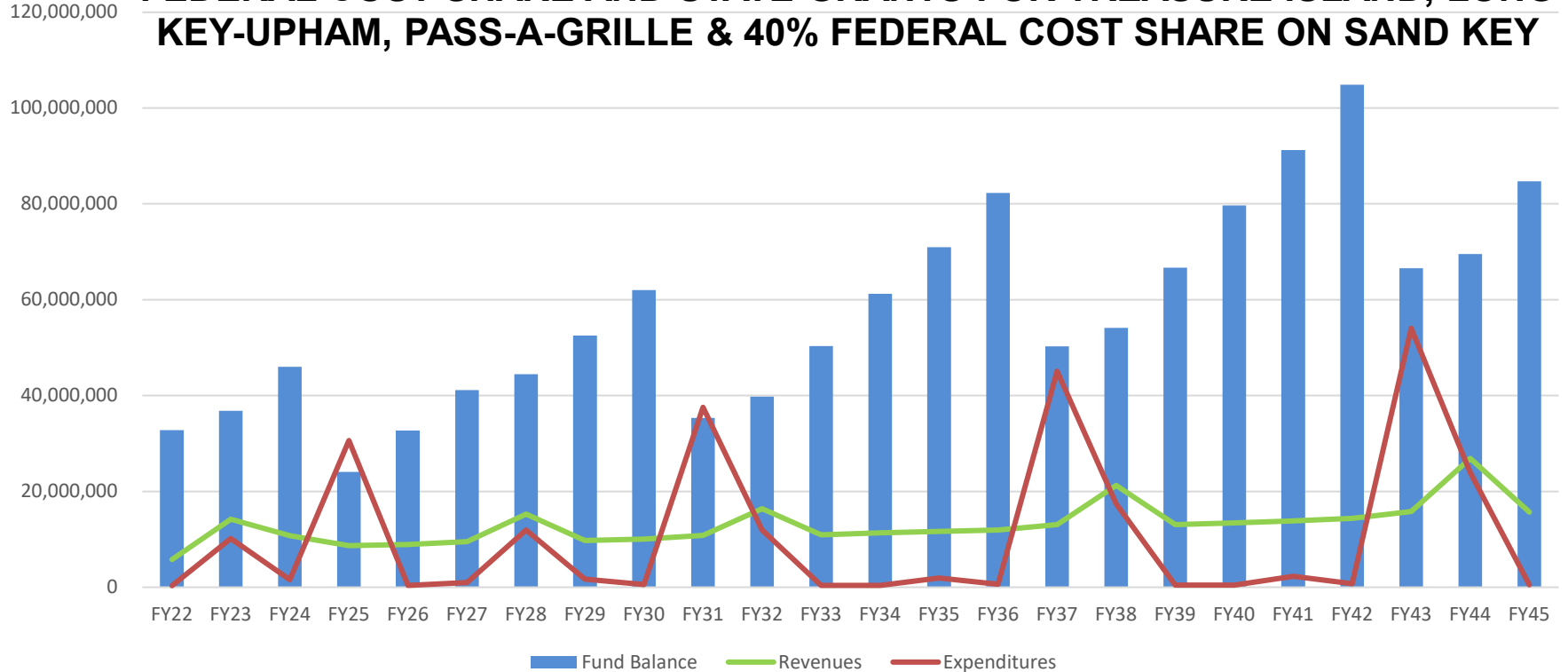
FINANCIAL OVERVIEW 2 WITH COUNTY FUNDED STRUCTURES



Financial Overview 4



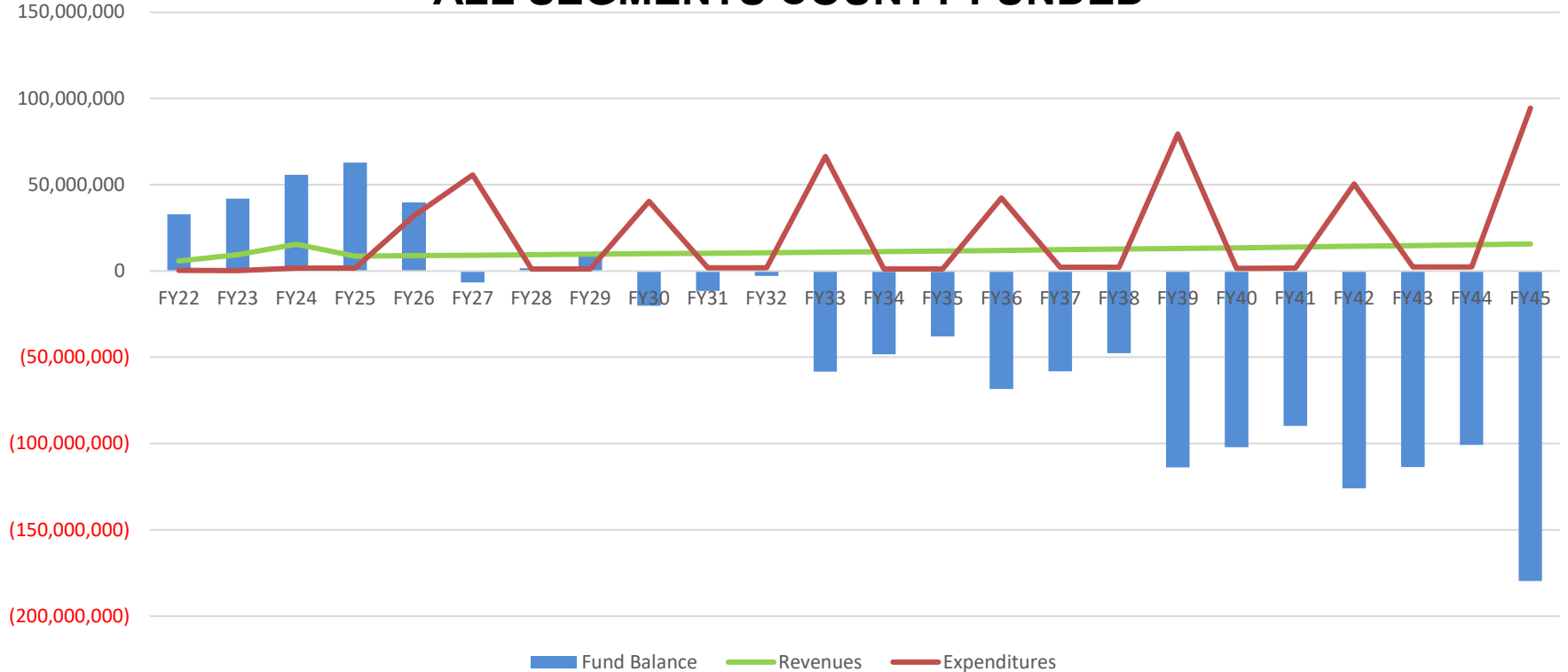
FEDERAL COST SHARE AND STATE GRANTS FOR TREASURE ISLAND, LONG KEY-UPHAM, PASS-A-GRILLE & 40% FEDERAL COST SHARE ON SAND KEY



Financial Overview 5



ALL SEGMENTS COUNTY FUNDED



Financial Overview Summary



- **FO1 (Full cost share all segments) – Sufficient revenue to support nourishment projects & other coastal management needs.**
- **FO2 (Full cost share TI, LK, PAG & County funds SK) – Fund is balanced through FY32. TI, LK, PAG funded; insufficient funds for future SK nourishments.**
- **FO3 (FO2+ structures) – Fund is balanced through FY32. TI, LK, PAG funded through FY38; insufficient funds for nourishments beyond FY40.**
- **FO4 (Full cost share TI, LK, PAG, 40% cost share SK) – Fund is balanced and has revenue to support other coastal management needs.**
- **FO5 (100% County funded) – ~\$7M deficit by FY27. Fund does not recover.**

Discussion

