



2029 COASTAL MASTER PLAN
COMMITTED TO OUR COAST

2029 COASTAL MASTER PLAN UPDATE

CPRA BOARD BRIEFING

BRIAN LEZINA AND KATIE FREER



AUGUST 19, 2026

PRESENTATION OUTLINE

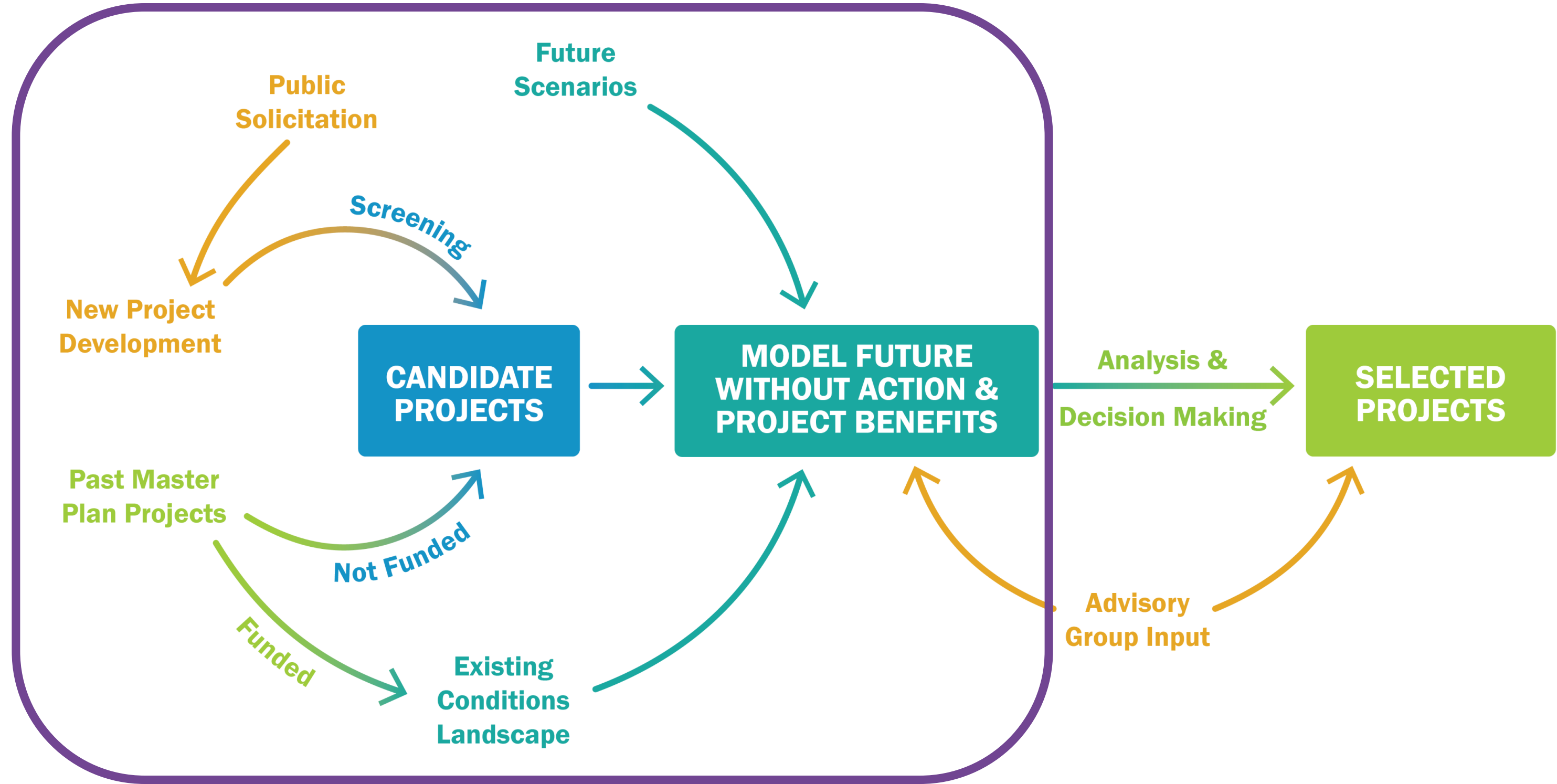
- **Updates**
 - Public Engagement & Public Solicitation #1
 - Modeling Preparation
 - Modeling Activities Underway
- **What's Next**



MASTER PLAN PROCESS – WHERE ARE WE?

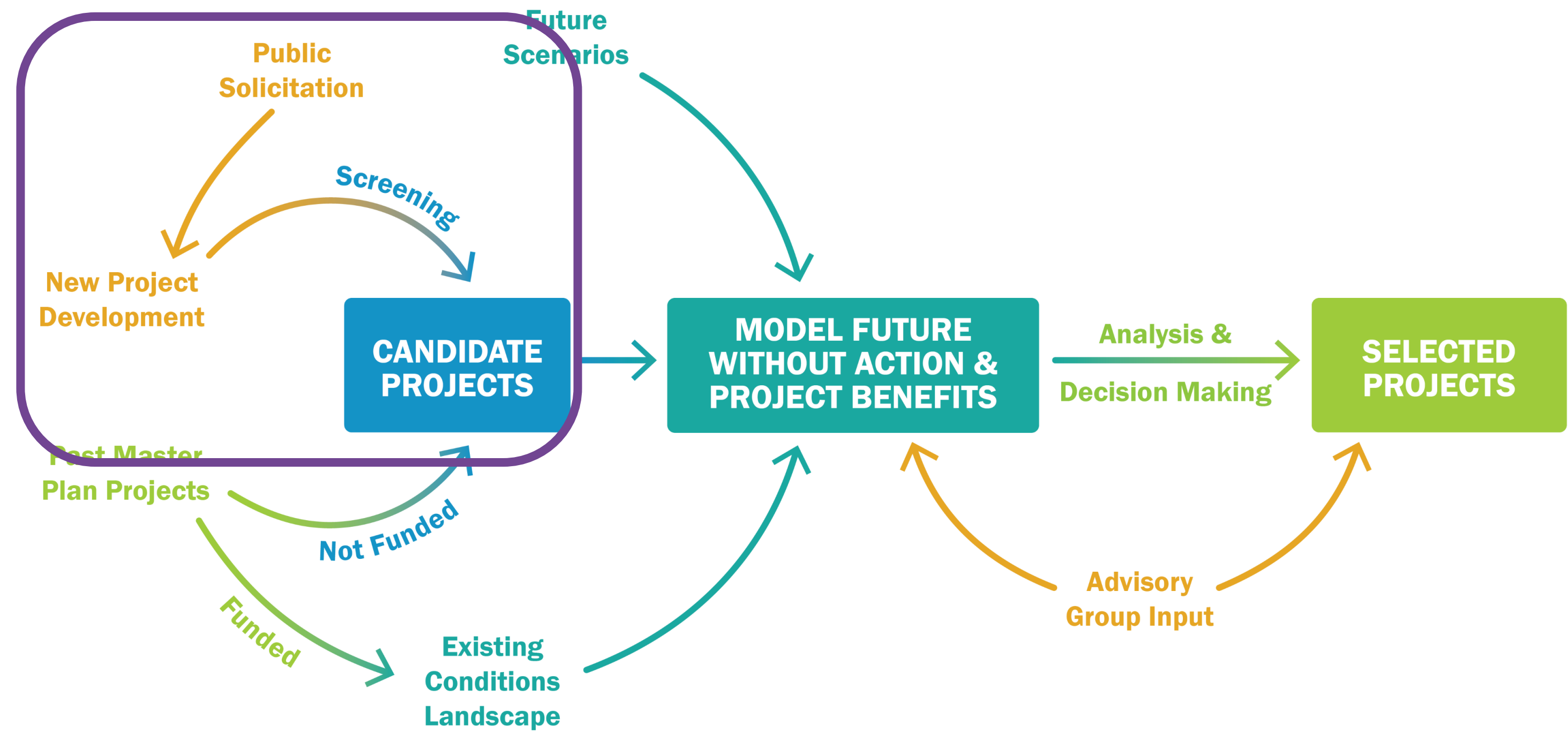


MASTER PLAN PROCESS – WHERE ARE WE?



PUBLIC ENGAGEMENT & PUBLIC SOLICITATION #1

MASTER PLAN PROCESS – WHERE ARE WE?



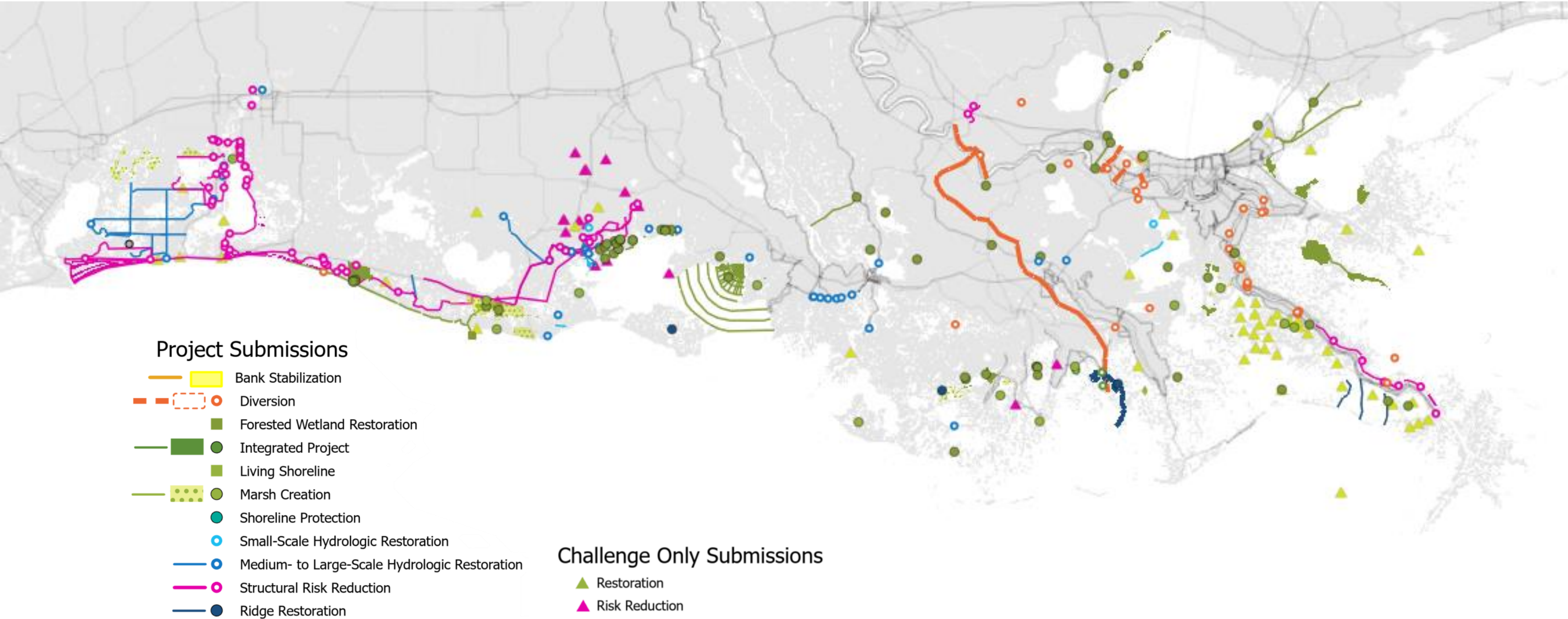
PUBLIC SOLICITATION #1, JULY-OCTOBER 2025

Goal: support development of strong MP29 project ideas

- Developed & shared background materials and project development guides
- Used web-based survey tool
- Applied Community Engagement Workgroup recommendations
- Conducted public webinar, posted recording online
- Held Regional Workgroup (RW) meetings
 - 4 during Public Solicitation Period #1
 - **5 in March 2026 for input on screening**
- Conducted 4 public workshops
 - **160+ people attended the public workshops, July 23-August 4, 2025, in Abbeville, Cut Off, Violet, and Raceland**
- Offered **22 virtual office hours sessions** for 1:1 Q&A



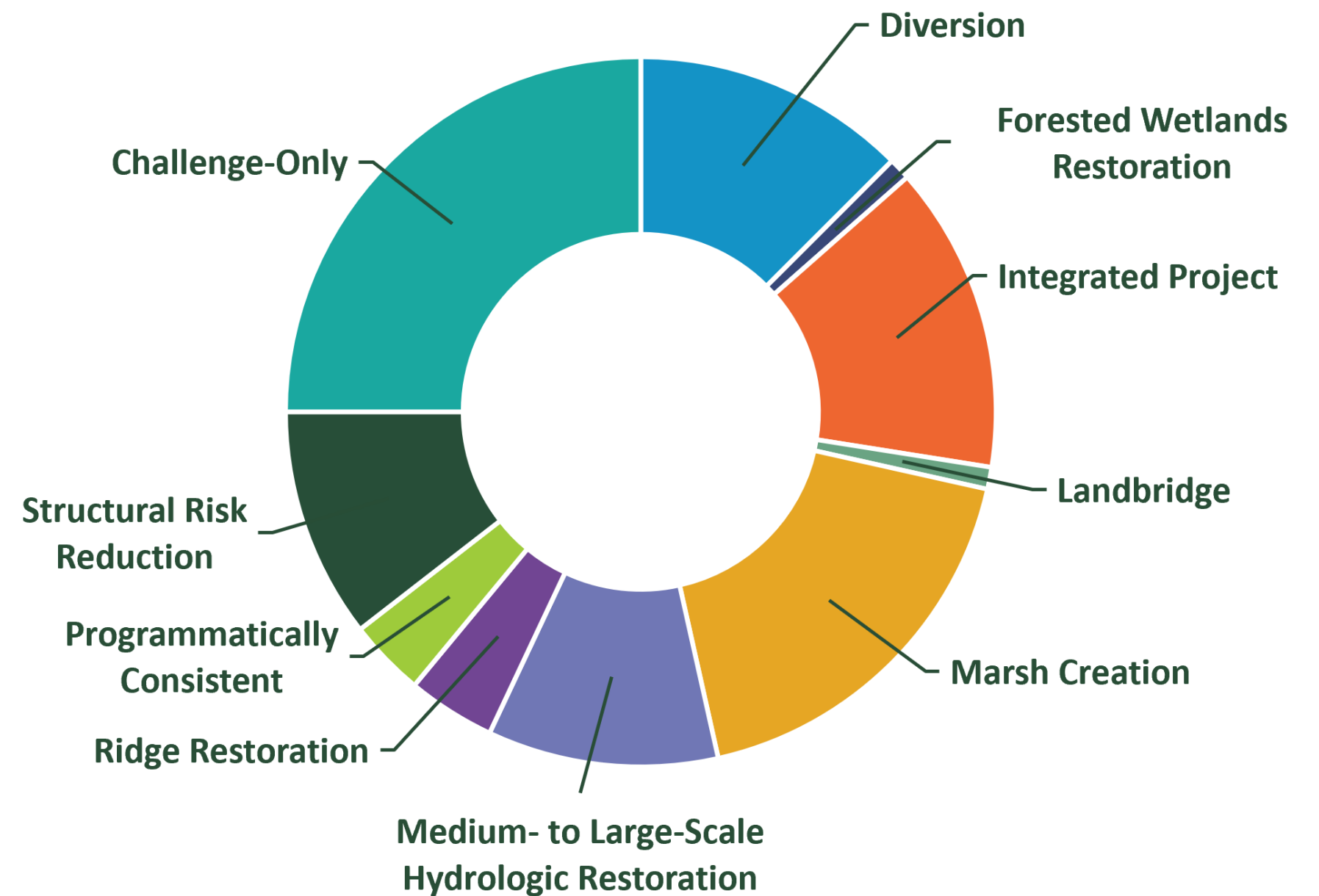
PUBLIC SOLICITATION PERIOD #1 – 200 SUBMISSIONS



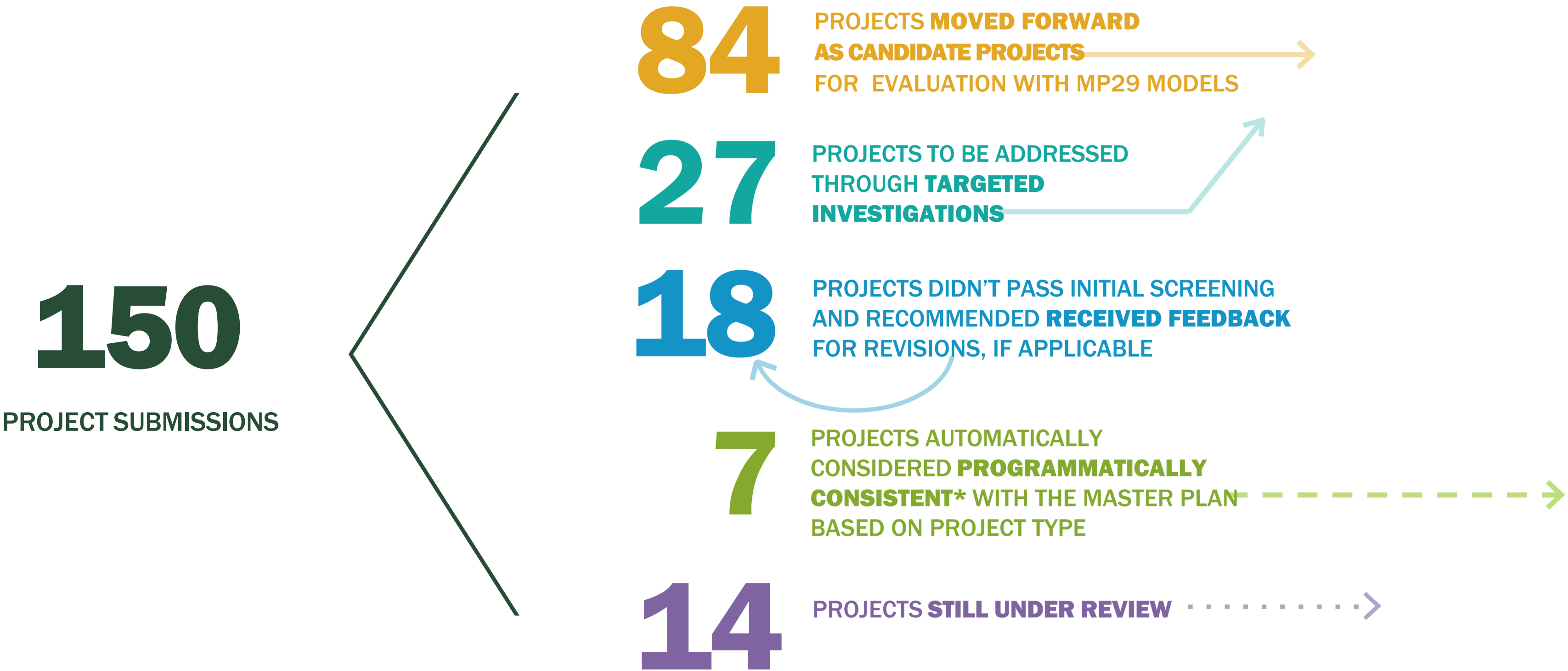
WHAT WAS RECEIVED IN PUBLIC SOLICITATION #1

Themes

- “Protective” restoration
- Flood risk reduction in unaddressed areas
- Reducing saltwater intrusion
- Restoring impounded wetlands
- Sediment trapping/transport



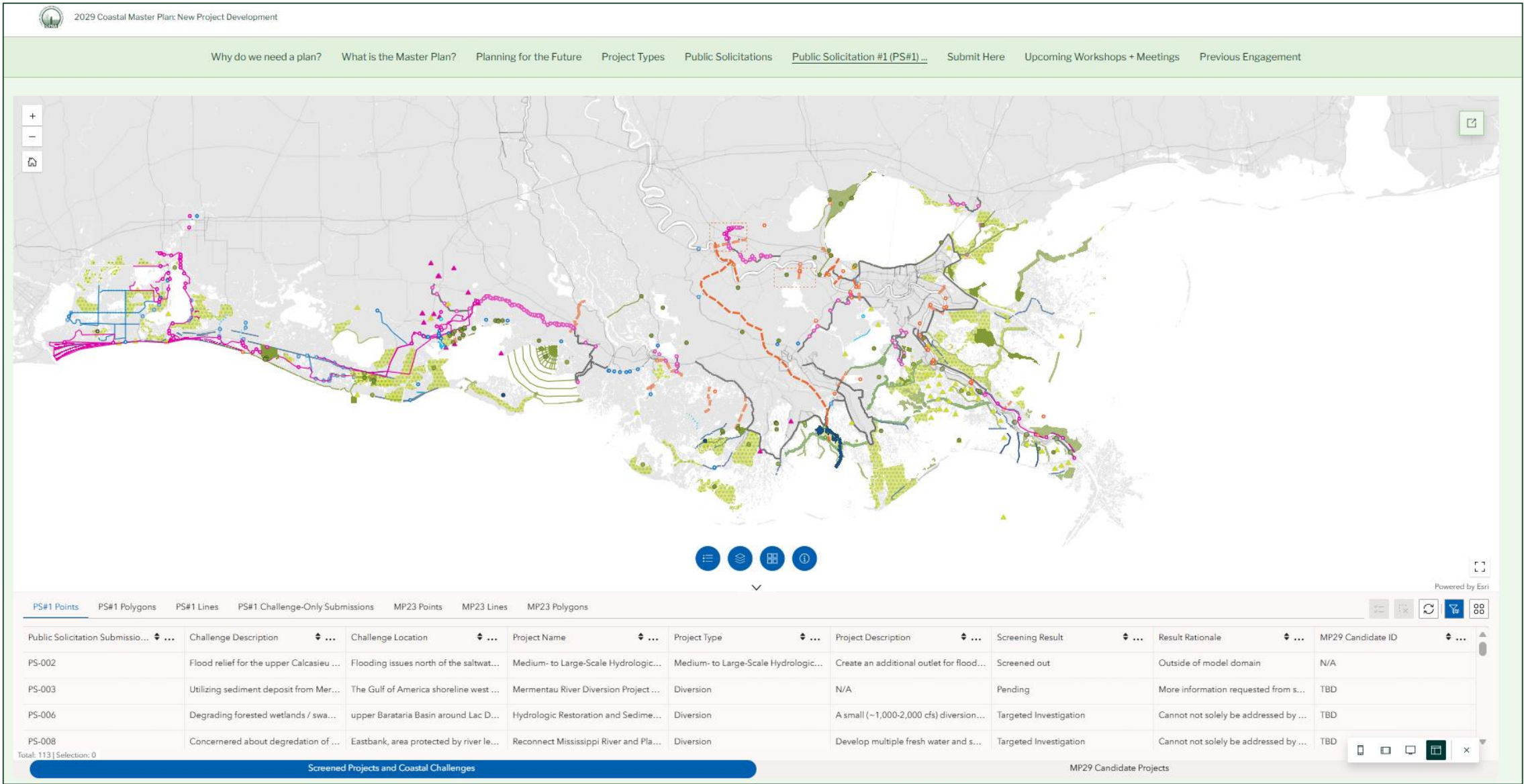
PS#1 SUMMARY – SCREENED PROJECTS RESULTS



** Programmatic consistent projects are not evaluated individually by MP29 models and can move forward to seek funding, permitting, etc.*

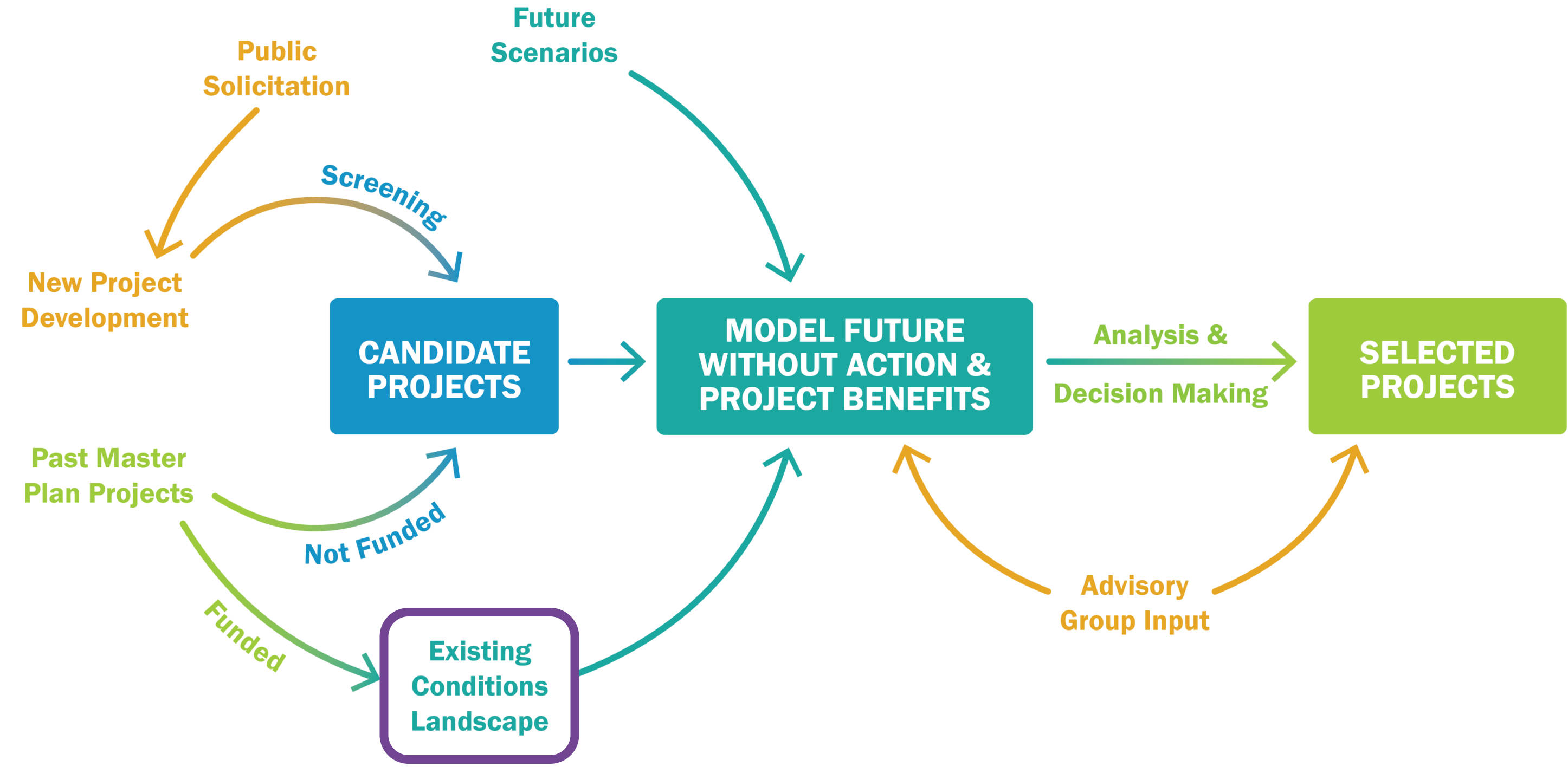
PUBLIC SOLICITATION #1 SUMMARY

- Website created to publicly share PS#1 inputs and outputs for transparency and to inform PS#2
- PS#1 website includes information on:
 - What was submitted
 - How submissions were screened
 - What were the results
 - How to sign up for email updates about specific MP29 Candidate Projects



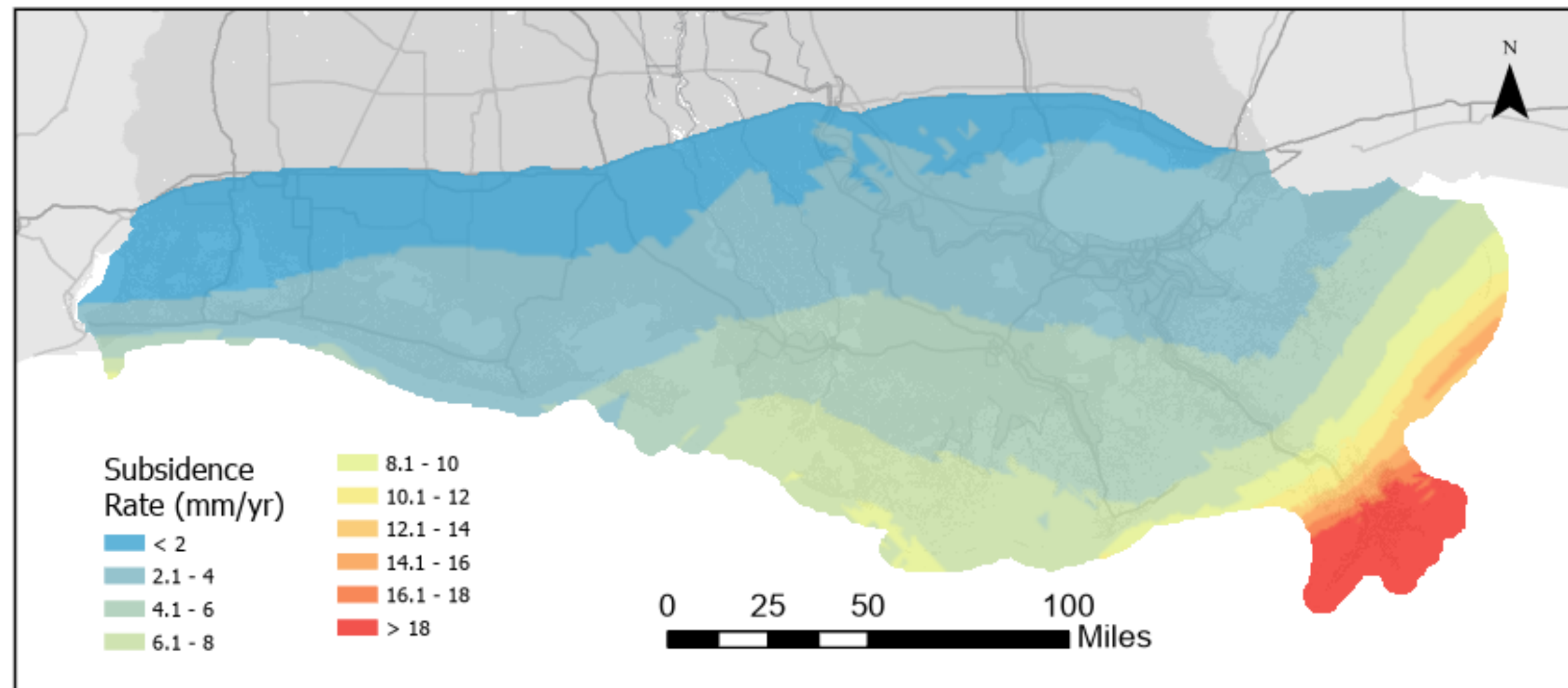
MODELING PREPARATION

MASTER PLAN PROCESS – WHERE ARE WE?



OBSERVATIONAL DATA

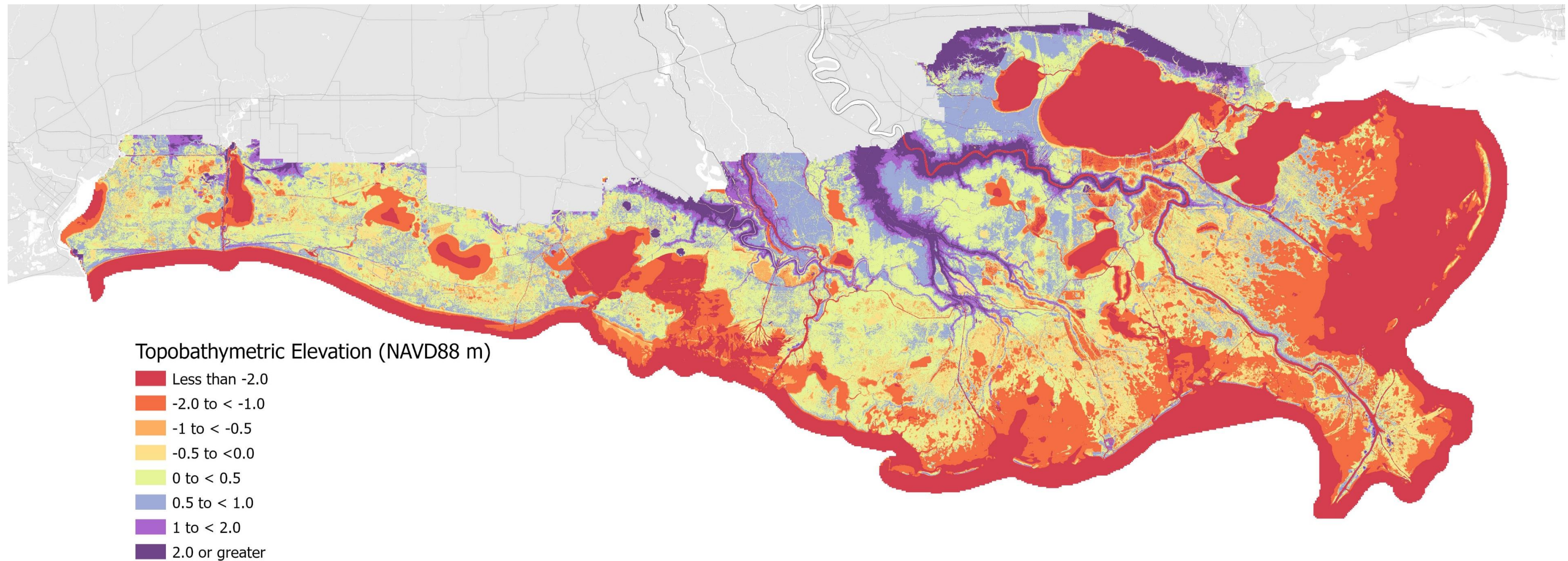
- Observational data is the foundation of the MP modeling
- Coastal conditions are updated every cycle to reflect latest available data:
 - Subsidence mapping
 - Topography and bathymetry
 - Vegetation cover
 - Wetland dynamics



Vincent, 2025

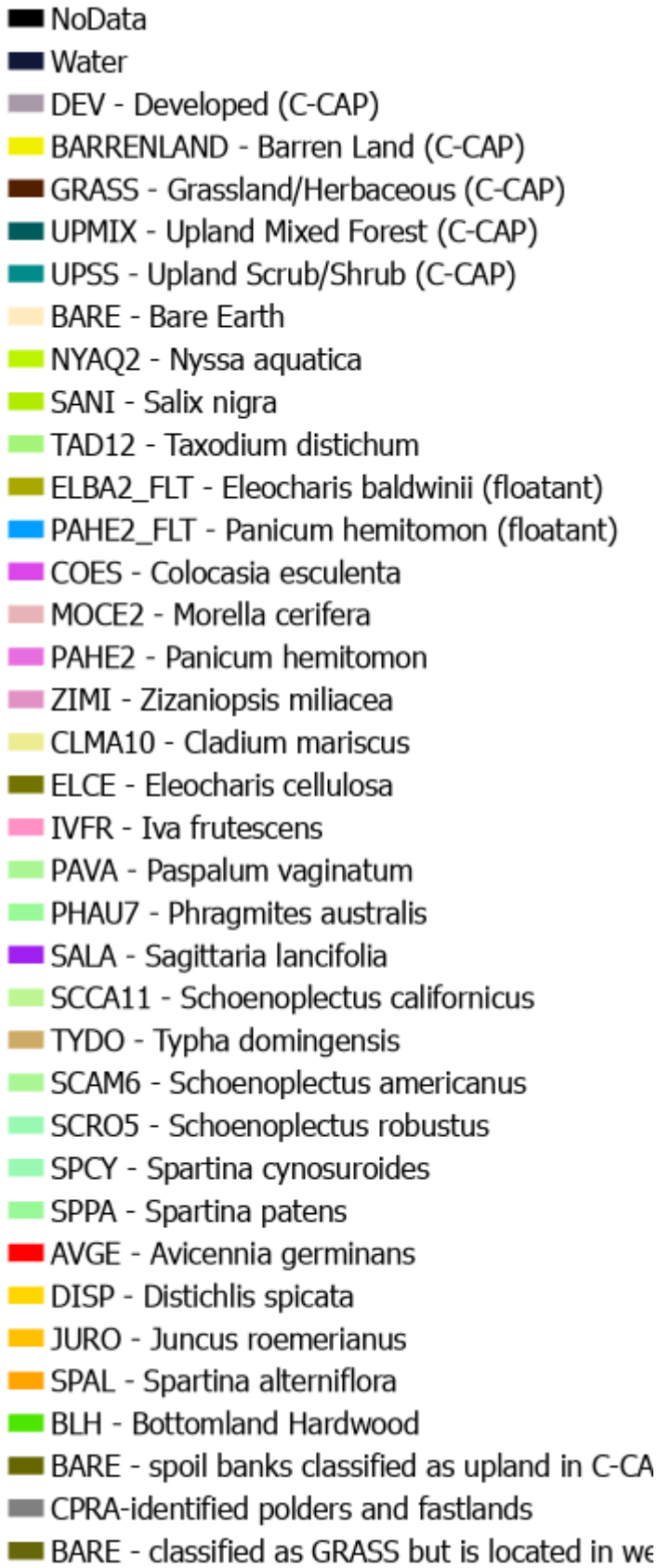
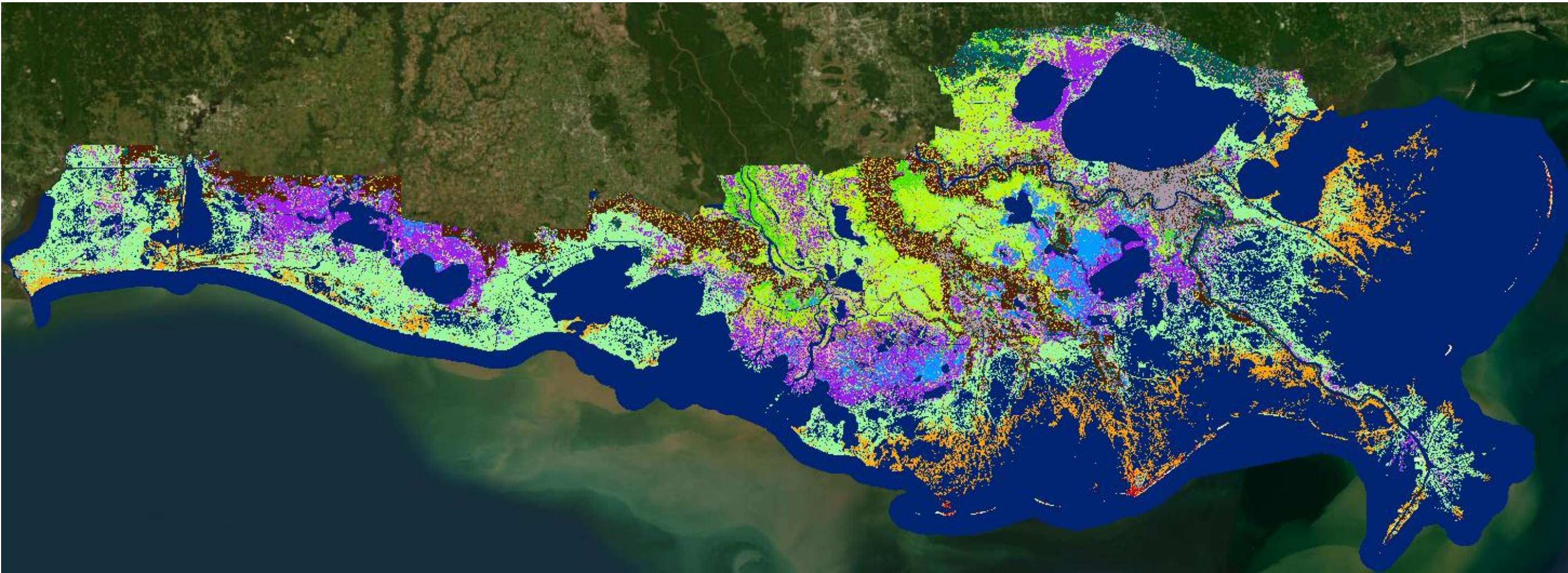
TOPOGRAPHY AND BATHYMETRY

- Updated topobathymetric DEM to represent landscape elevations at the end of 2024
- Includes USGS NGOM2, newly collected (2020-2024, inclusive) elevation survey data posted to CIMS LASARD, and 2024 LiDAR



VEGETATION COVER, UPLAND, AND LAND/WATER AREAS, 2024

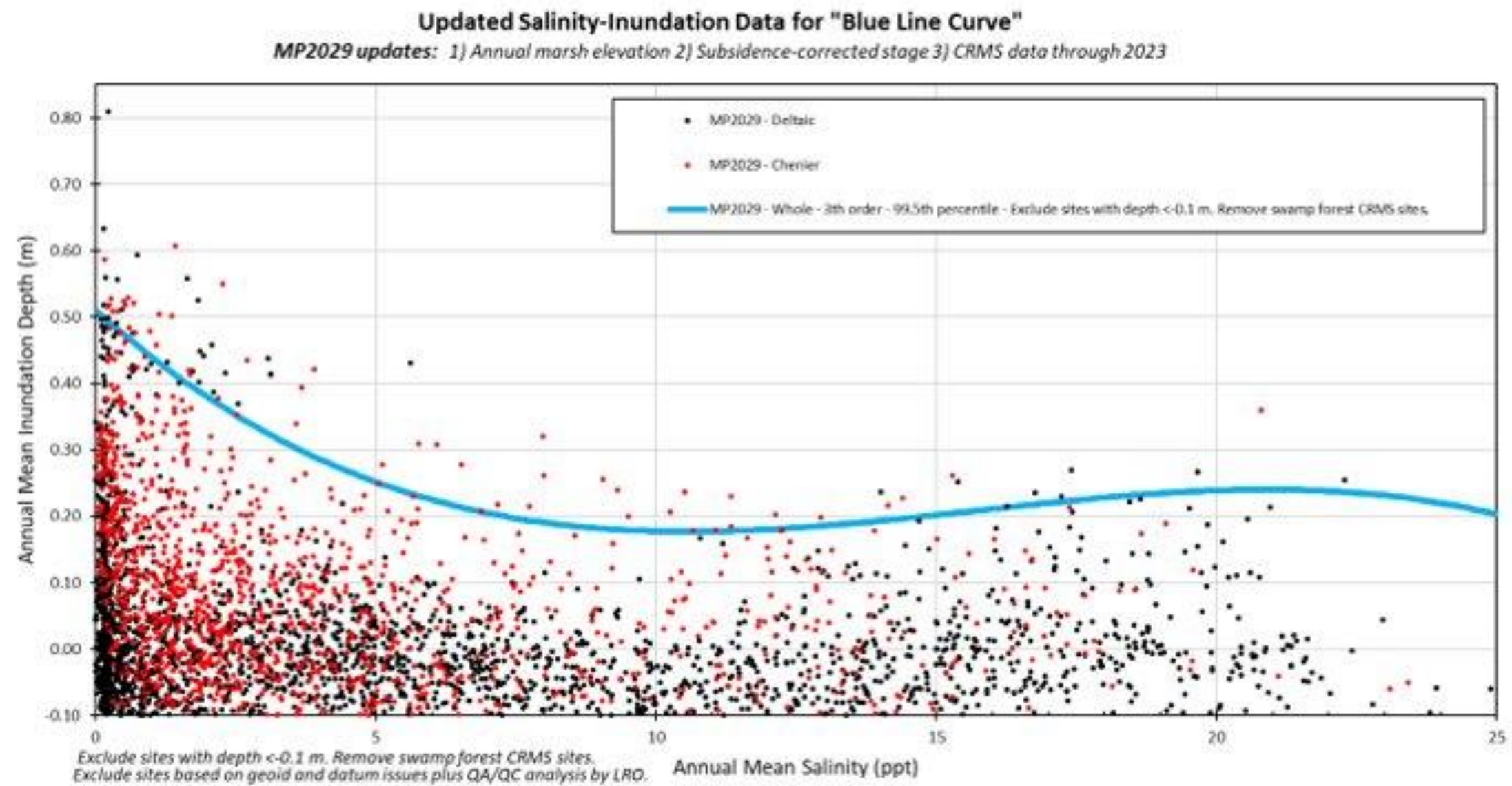
- Derived from NOAA C-CAP datasets and 10-meter Sentinel-2 satellite imagery collected throughout 2024 and represents the most current configuration of the Louisiana coastal wetlands
- Shows recent changes due to storm impacts



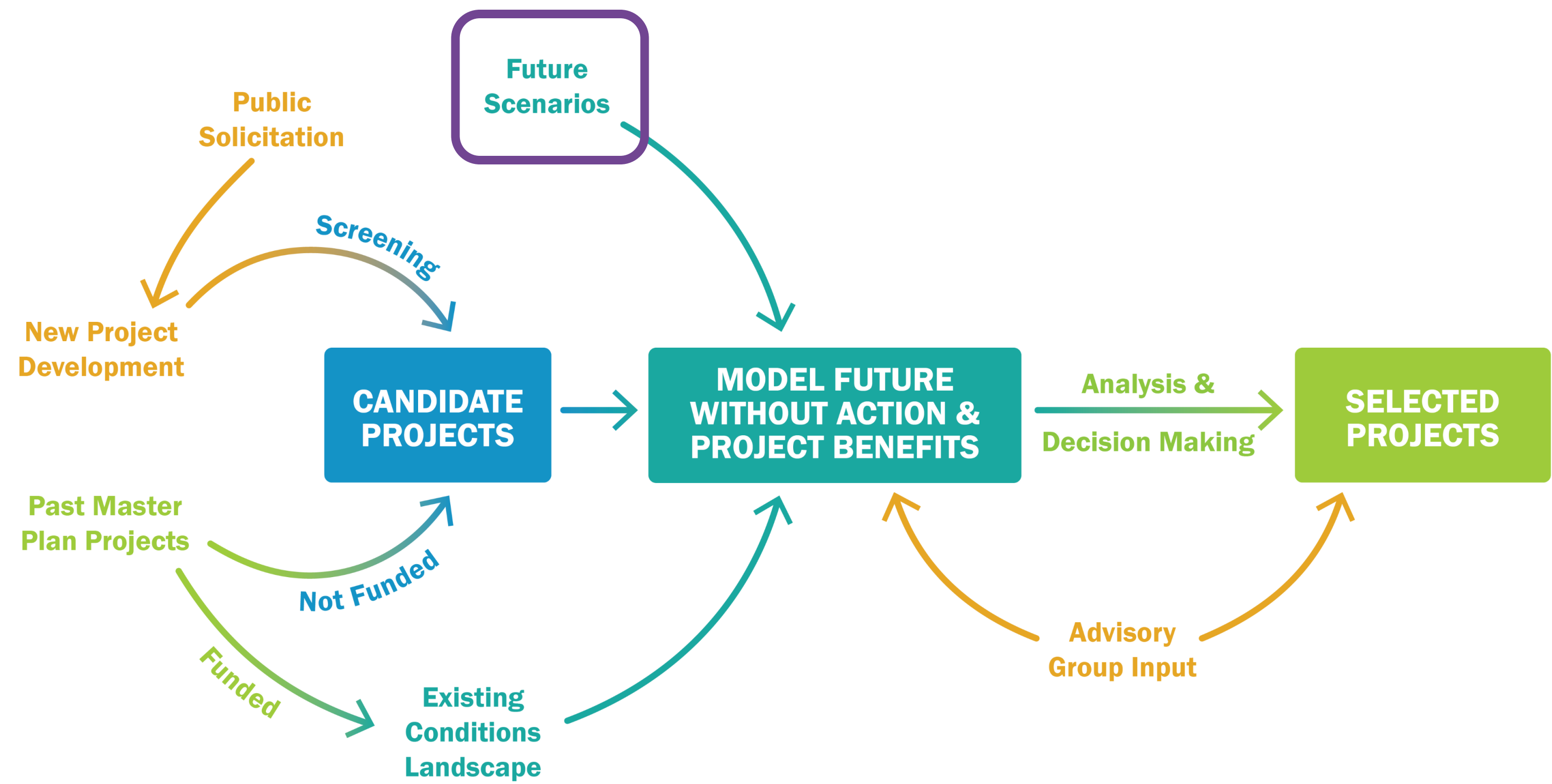
WETLAND DYNAMICS

CRMS data is leveraged to update key relationships within the landscape model:

- Salinity-inundation relationships that identify conditions for land loss
- Salinity and water level conditions under which vegetation species establish or die
- Now using almost 20-year record of data from across the coast



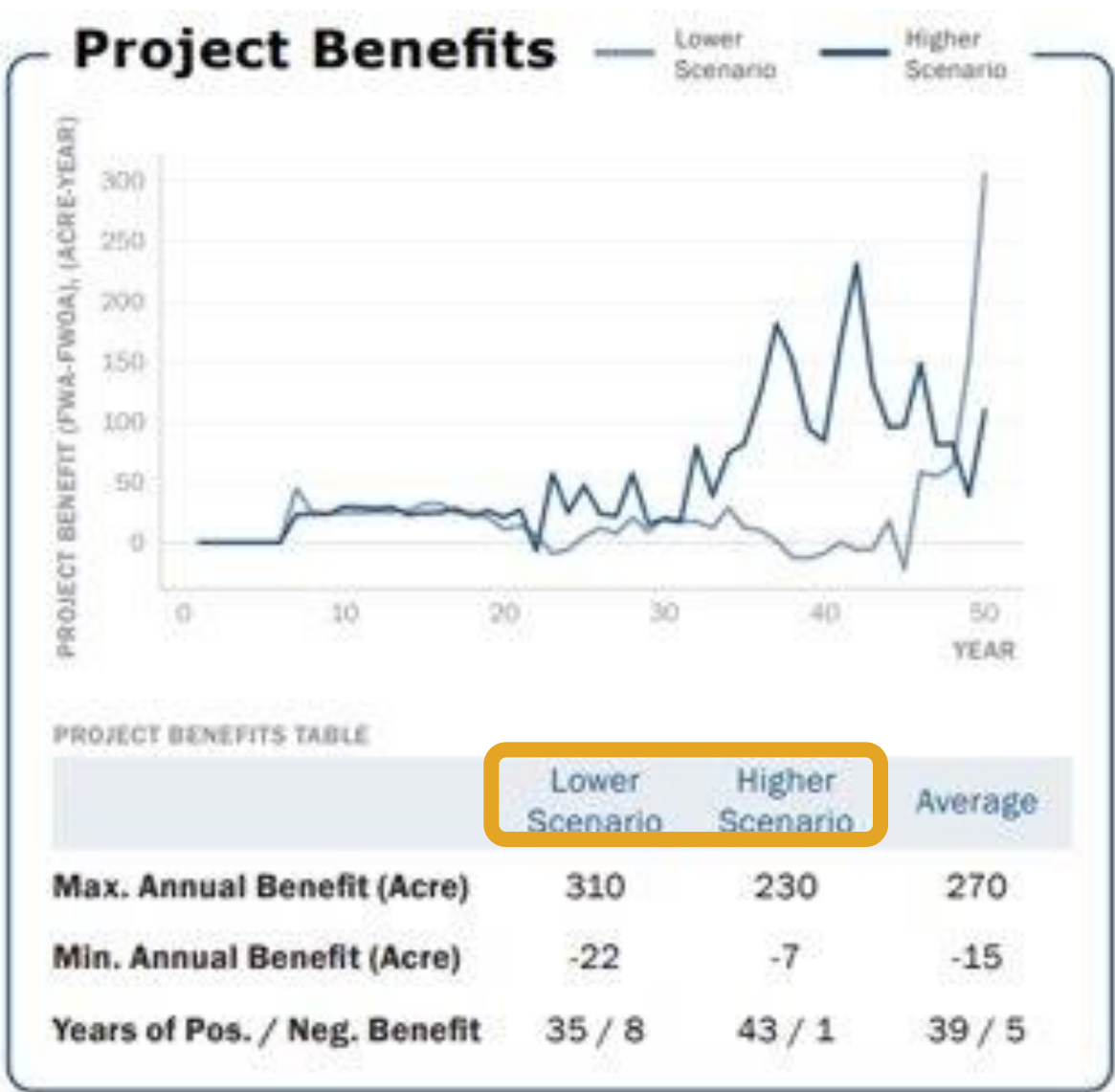
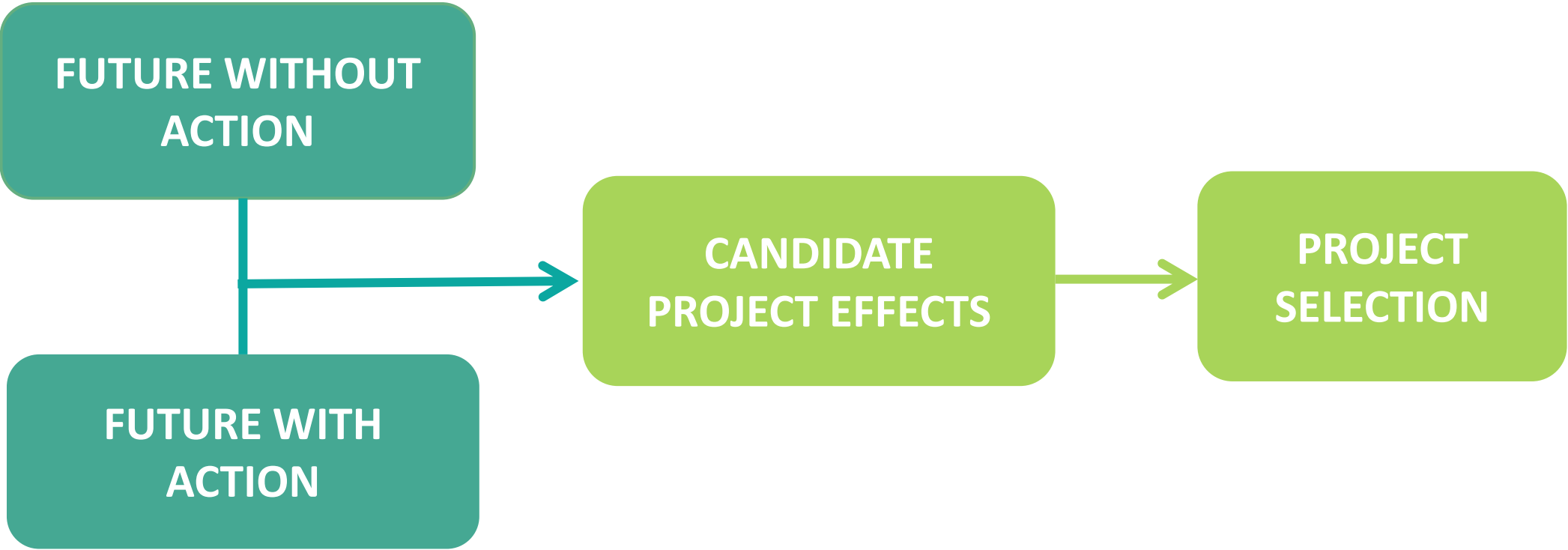
MASTER PLAN PROCESS – WHERE ARE WE?



WHY DO MASTER PLAN SCENARIOS MATTER?

Scenarios help us plan over a 50-year horizon given known uncertainty in future conditions.

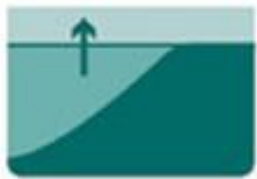
Scenario assumptions can impact land change and flood depths for predictive model runs.



MP29 FUTURE SCENARIOS FOR PROJECT SELECTION

VARIABLES BY SCENARIO

CONSTANTS ACROSS SCENARIOS (may vary spatially and/or over time)

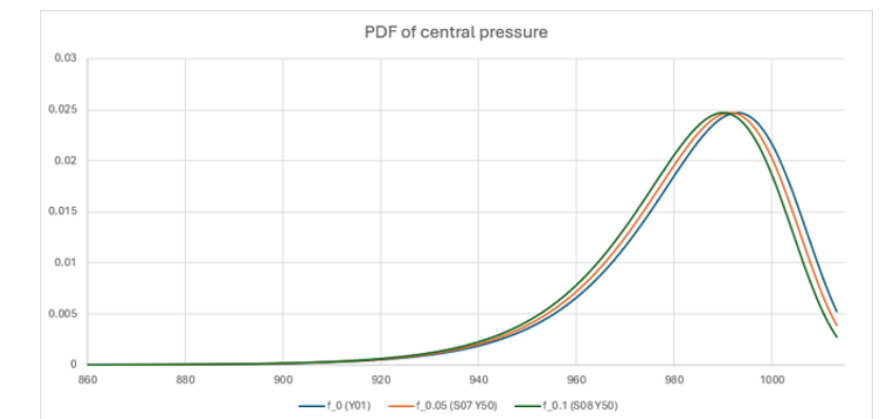
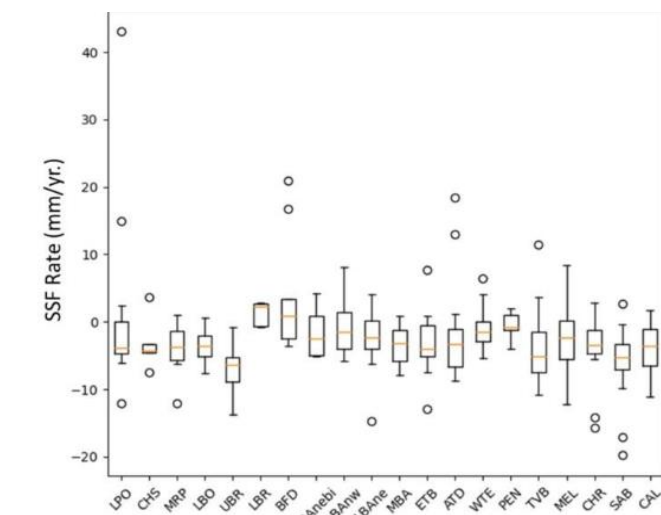
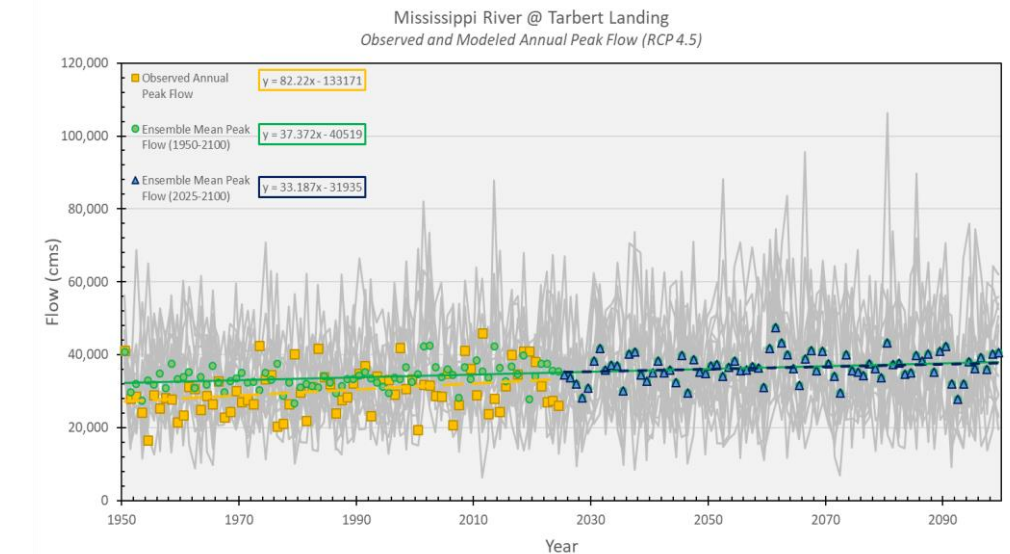
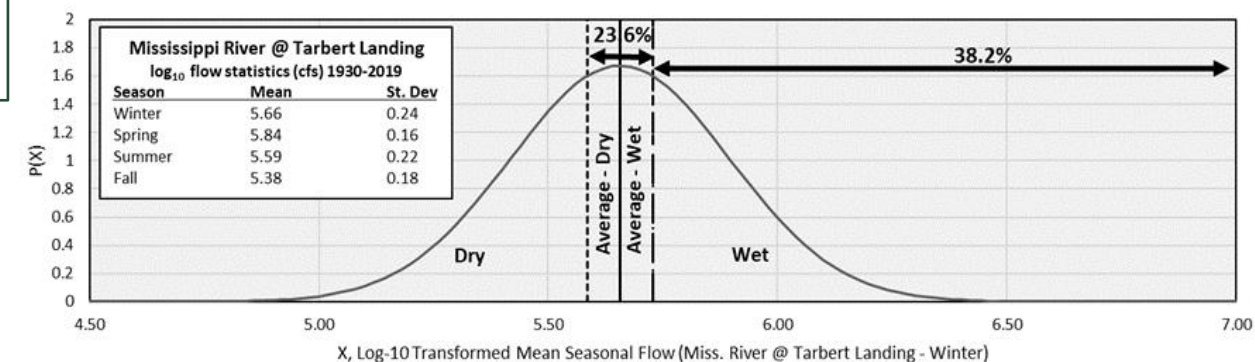
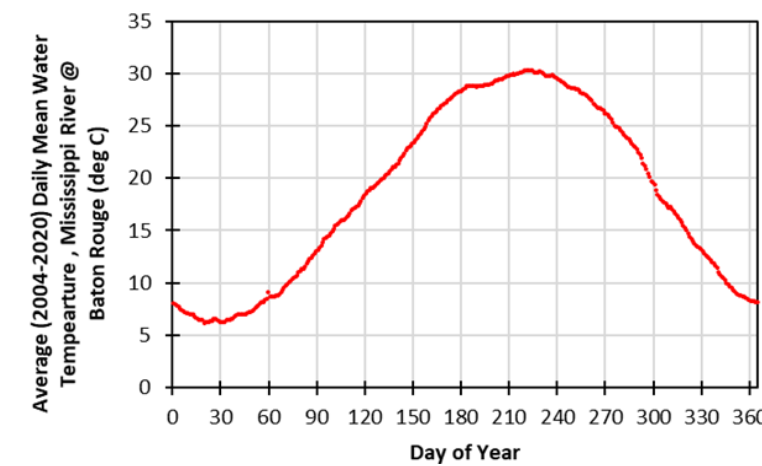
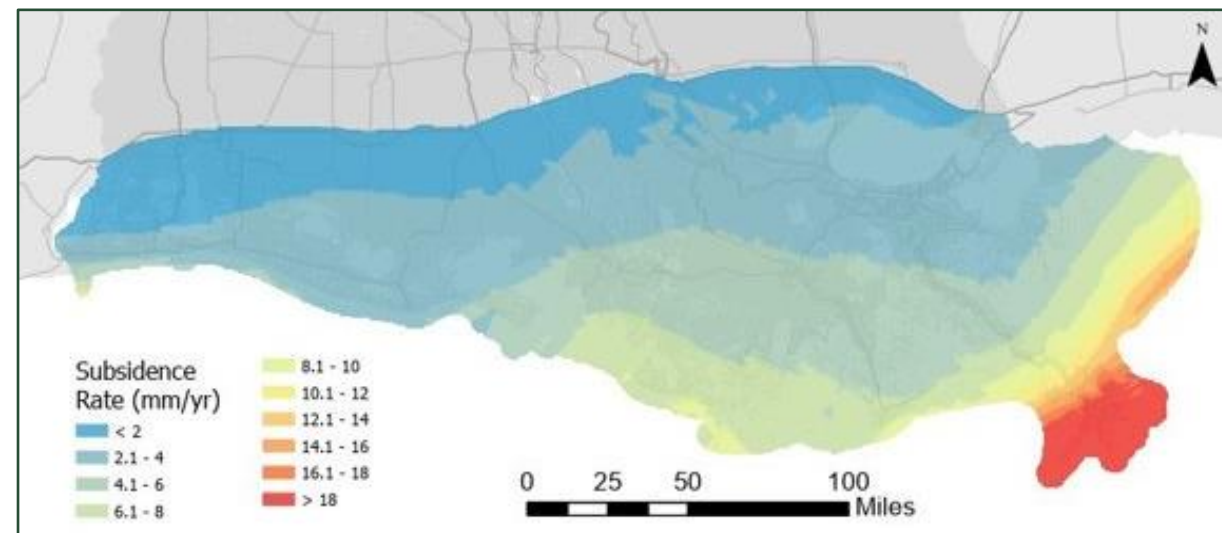
	 SEA LEVEL RISE (SLR) *	 AVG. STORM INTENSITY	 PRECIPITATION	 TRIBUTARY FLOW	 EVAPO- TRANSPIRATION	 TEMPERATURE	 SUBSIDENCE	 MISSISSIPPI RIVER HYDROLOGY
MP29 FUTURE SCENARIO A	+ 1.28 ft (0.39 m)	+ 5% over 50 years	Informed from projections assuming SSP2-RCP4.5				Spatially interpolated (shallow surface factor treated separately)	As projected by ERDC for CMIP5 RCP4.5
MP29 FUTURE SCENARIO B	+ 2.66 ft (0.81 m)							

*SLR is for 2020-2080 (60 years)

CMIP6 SSP2-4.5 selected for MP29 use because it aligns well with observed data/trends, current policy trajectory, and recent emissions rates

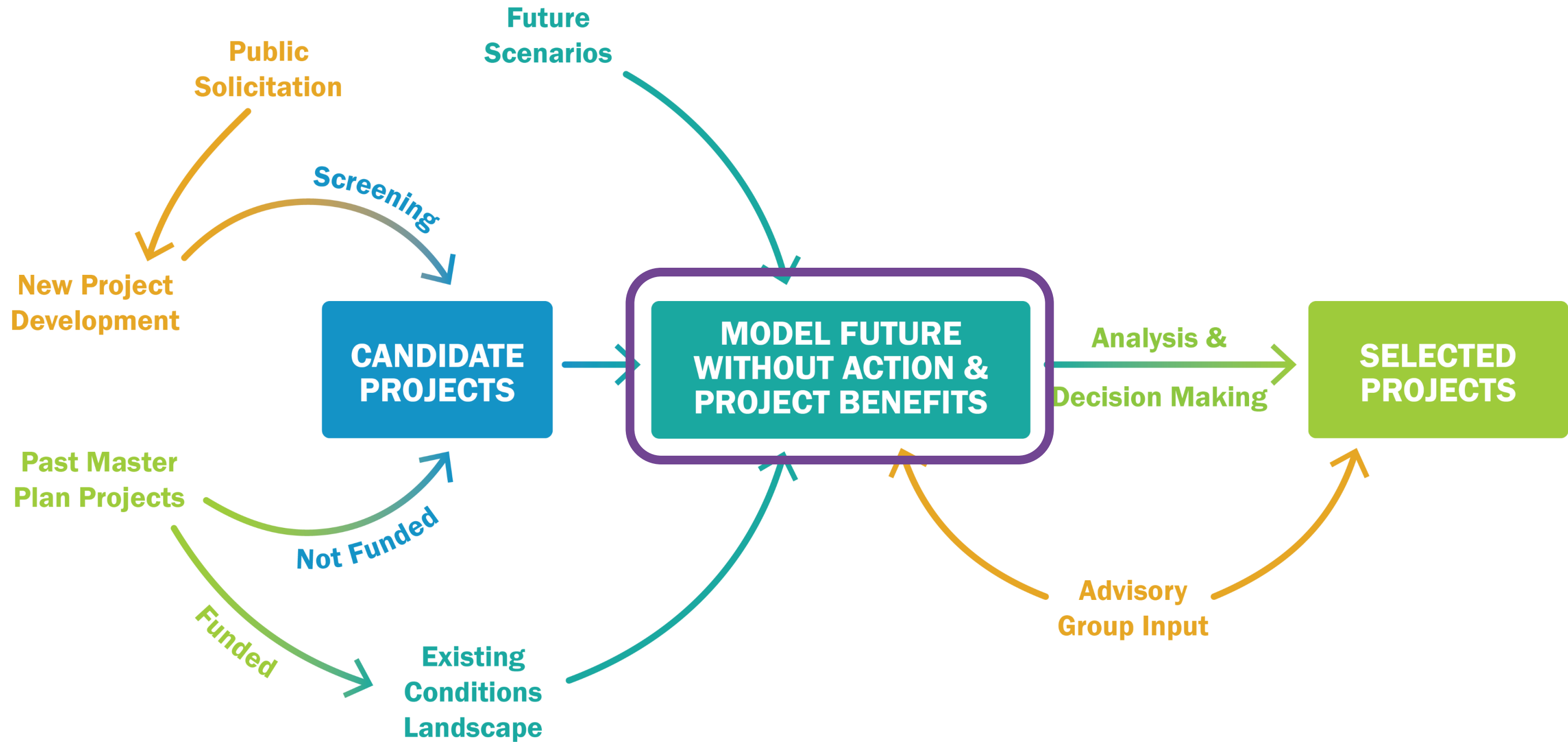
ADDITIONAL FUTURE SCENARIO ELEMENTS

- Vertical Land Motion (subsidence and shallow soil factor)
- Mississippi River Hydrograph
- Temperature and Evapotranspiration
- Precipitation and Tributary Flows
- Storm (Tropical Cyclone) Intensity



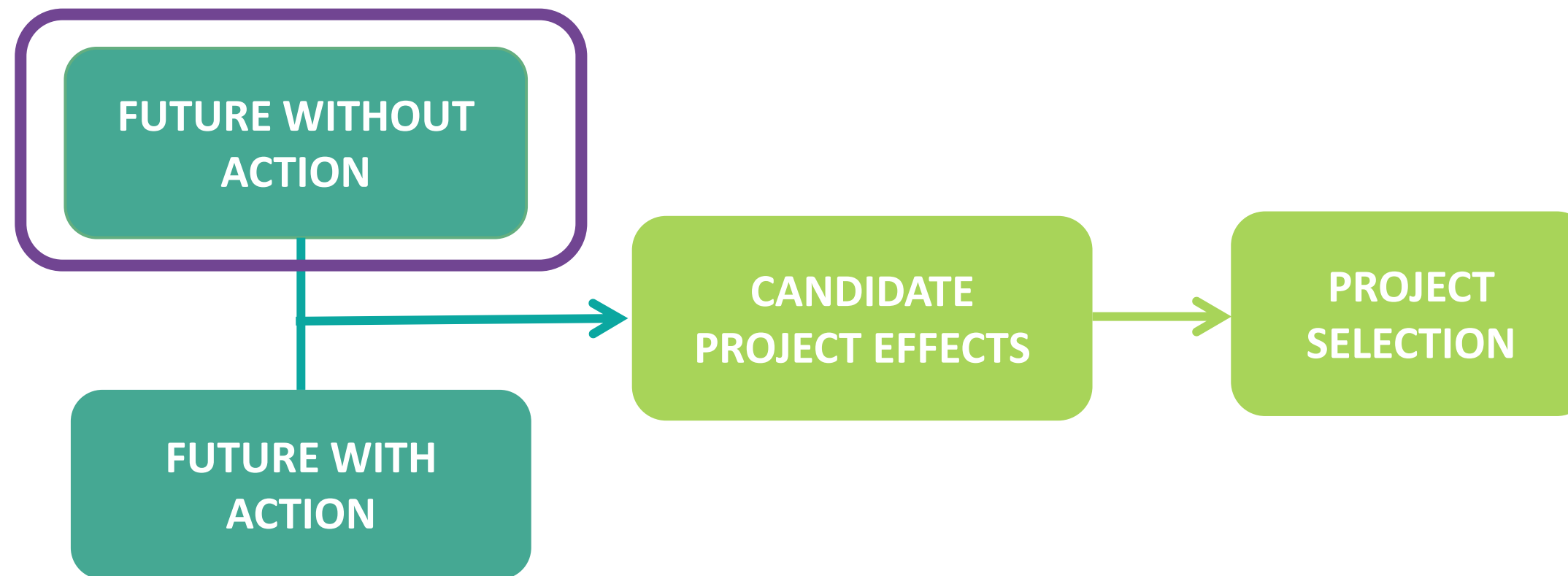
MODELING ACTIVITIES UNDERWAY

MASTER PLAN PROCESS – WHERE ARE WE?



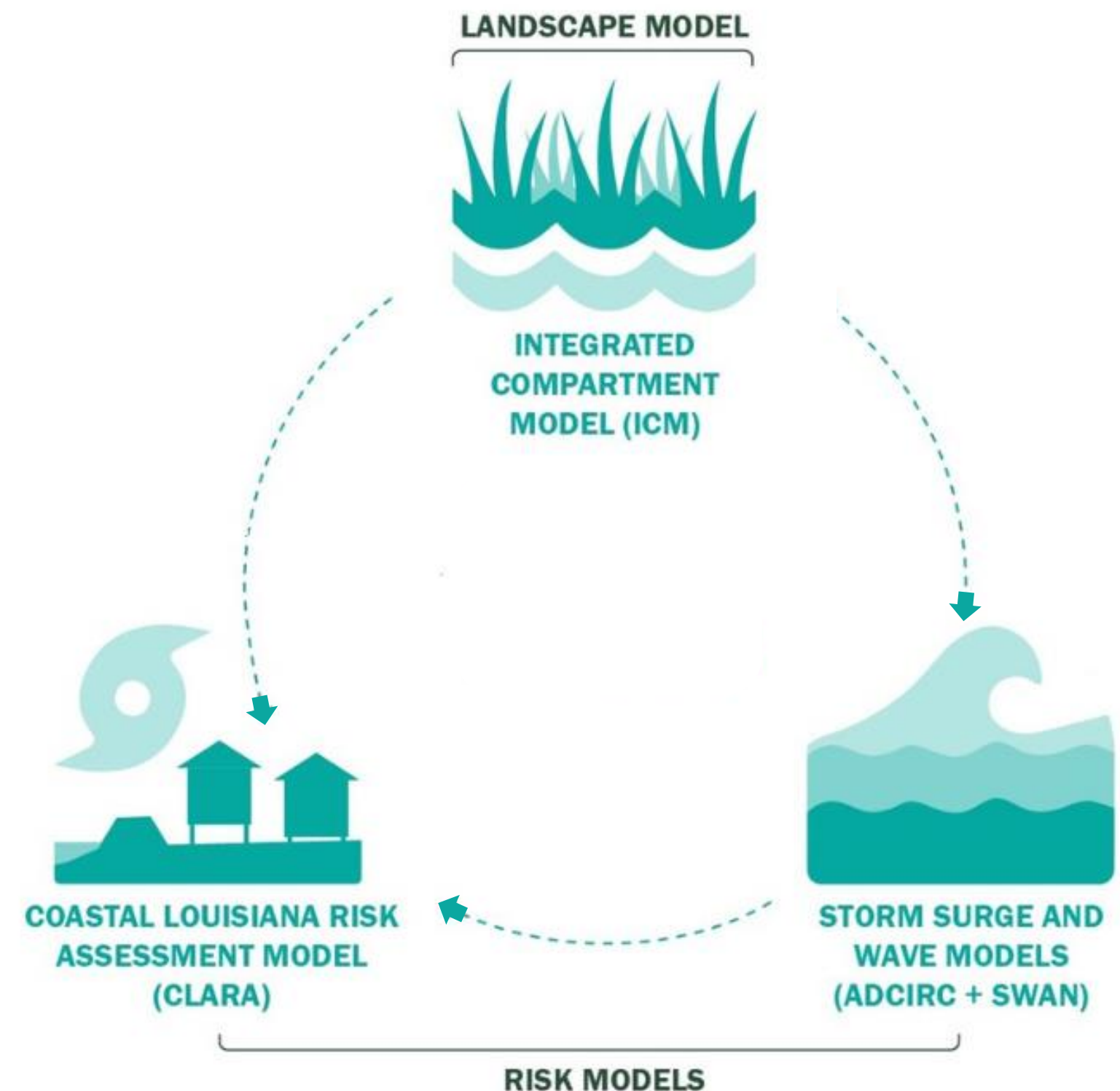
MODEL PREDICTIONS ENABLE LONG-TERM PROJECT EVALUATION

The first step in master plan modeling is simulating a 50-year future without any additional action to restore or protect our coast.



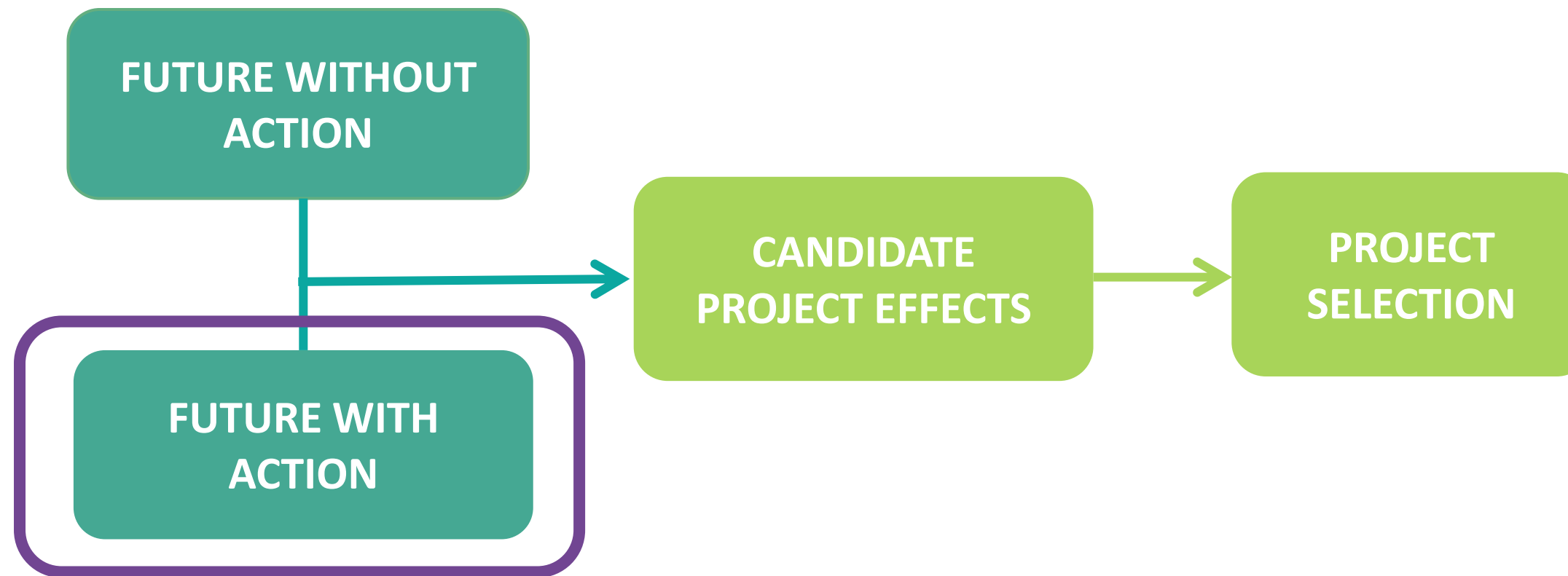
FUTURE WITHOUT ACTION MODELING UNDERWAY

- Landscape model FWOA simulations underway
 - Outputs undergoing QAQC reviews
 - Targeting public release of results in late September/early October 2026
- Storm surge and wave models FWOA simulations will follow
 - Est. completion: Early 2027
- Flood risk assessment/damages model FWOA simulations will be last
 - Est. completion: Early 2027



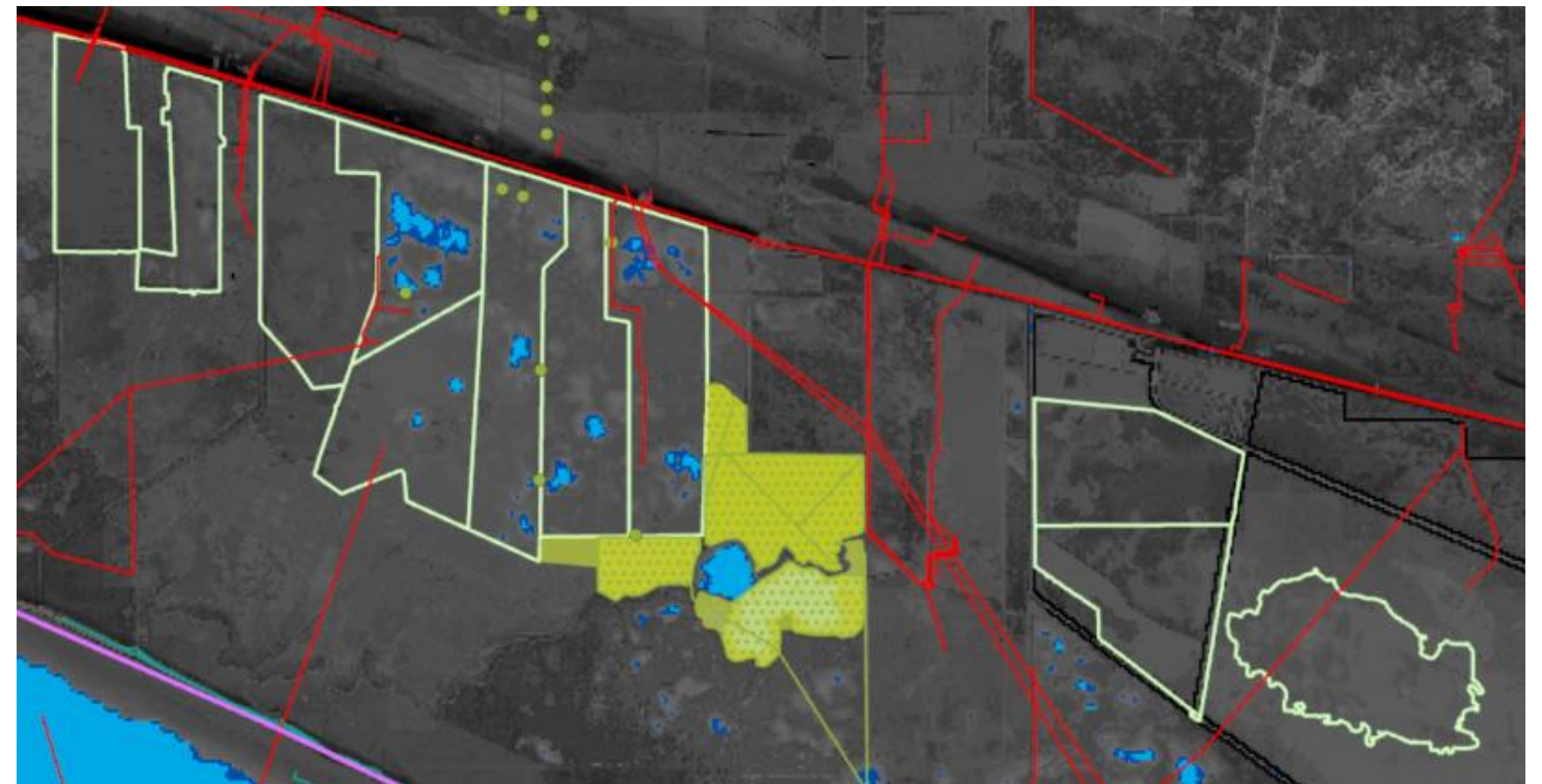
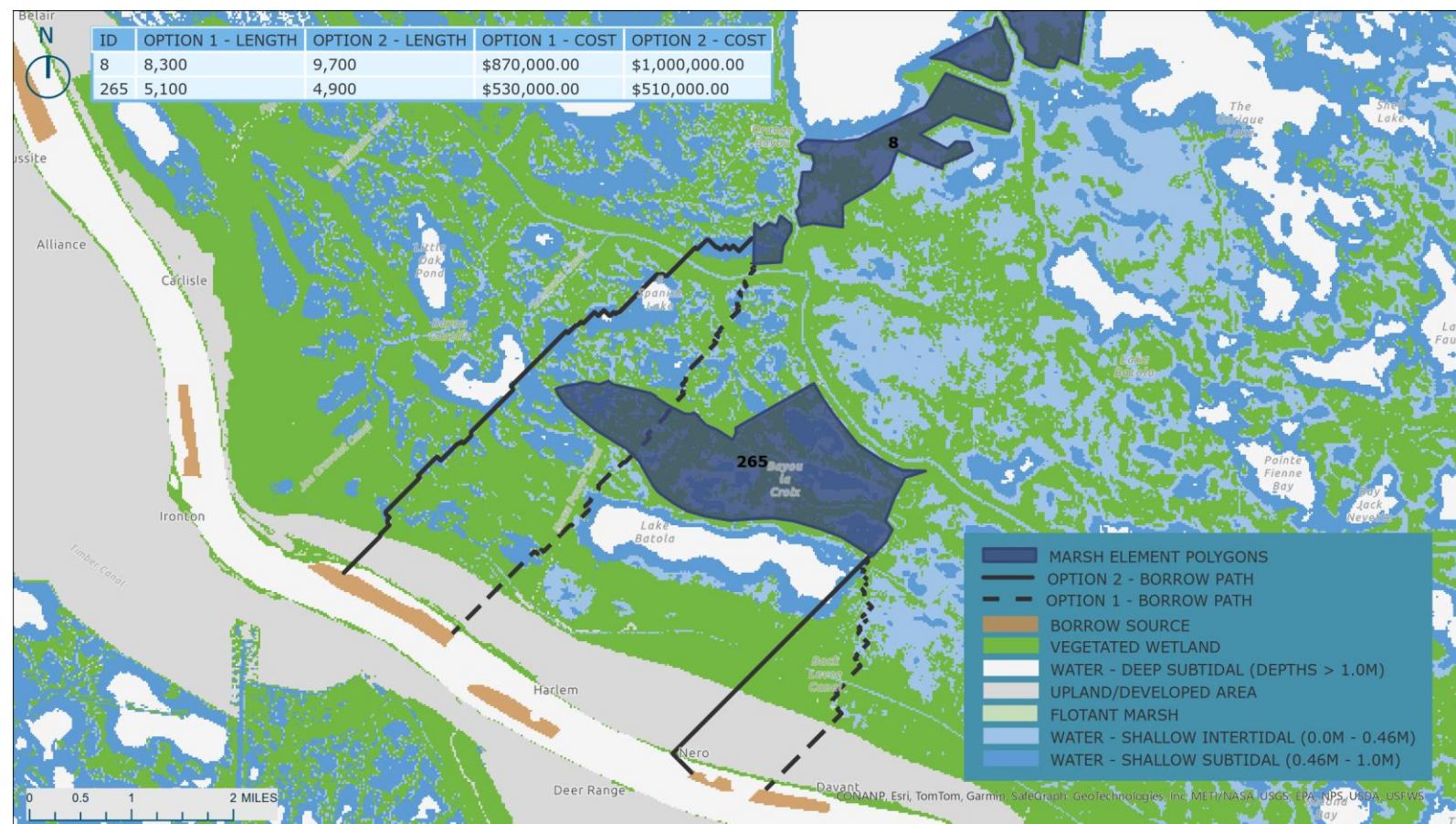
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PREPARING FOR FUTURE WITH ACTION RUNS

- Updated project cost estimating tool with recent bid tab data
- Building Candidate Projects from PS#1 into the models



WHAT'S NEXT

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Mid-MP sharing of FWOA results and Public Solicitation Period #2

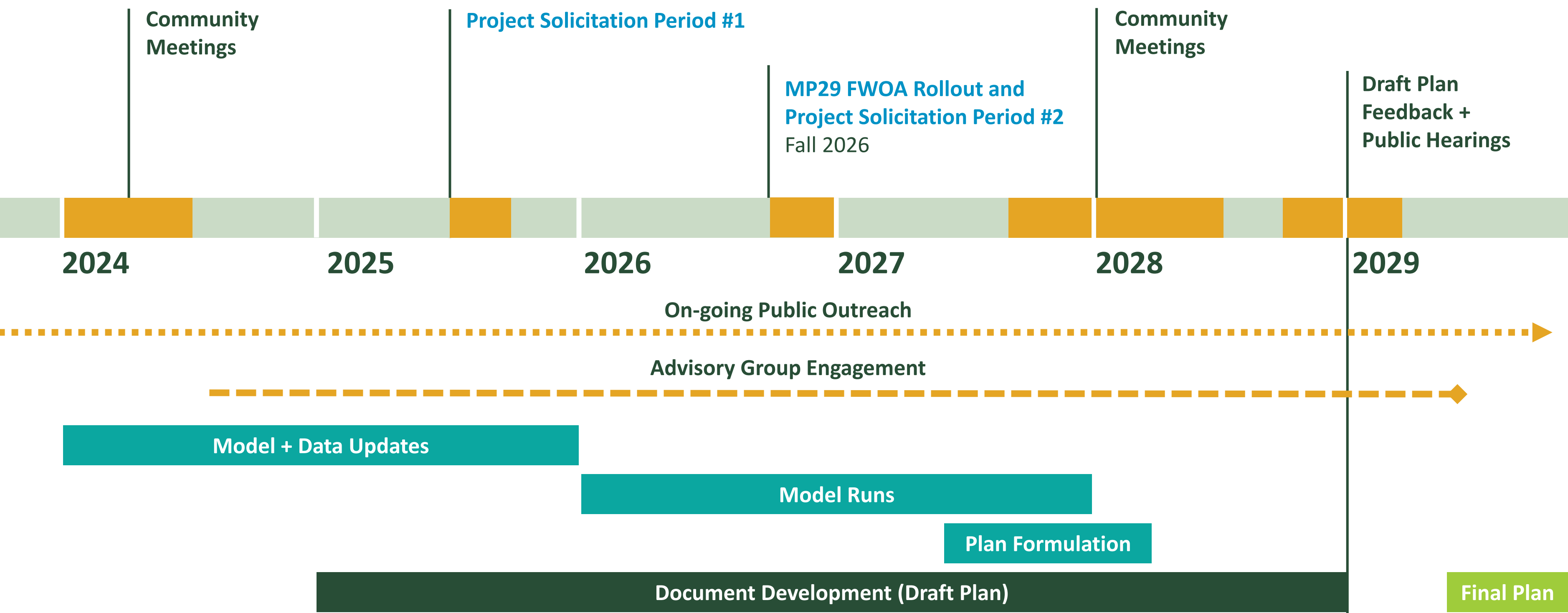
- FWOA Website
- Webinar and virtual office hours
- Presentations at meetings around the coast
- Web-based coastal challenge and project idea submissions

Next up on modeling

- FWOA risk modeling
- Future with action model runs



KEY ENGAGEMENT POINTS & MASTER PLAN FORMATION



THANK YOU!

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