BUILDING COASTAL RESILIENCE IN VIRGINIA

~ Project Prioritization

Technical Advisory Committee
October 7th, 2021
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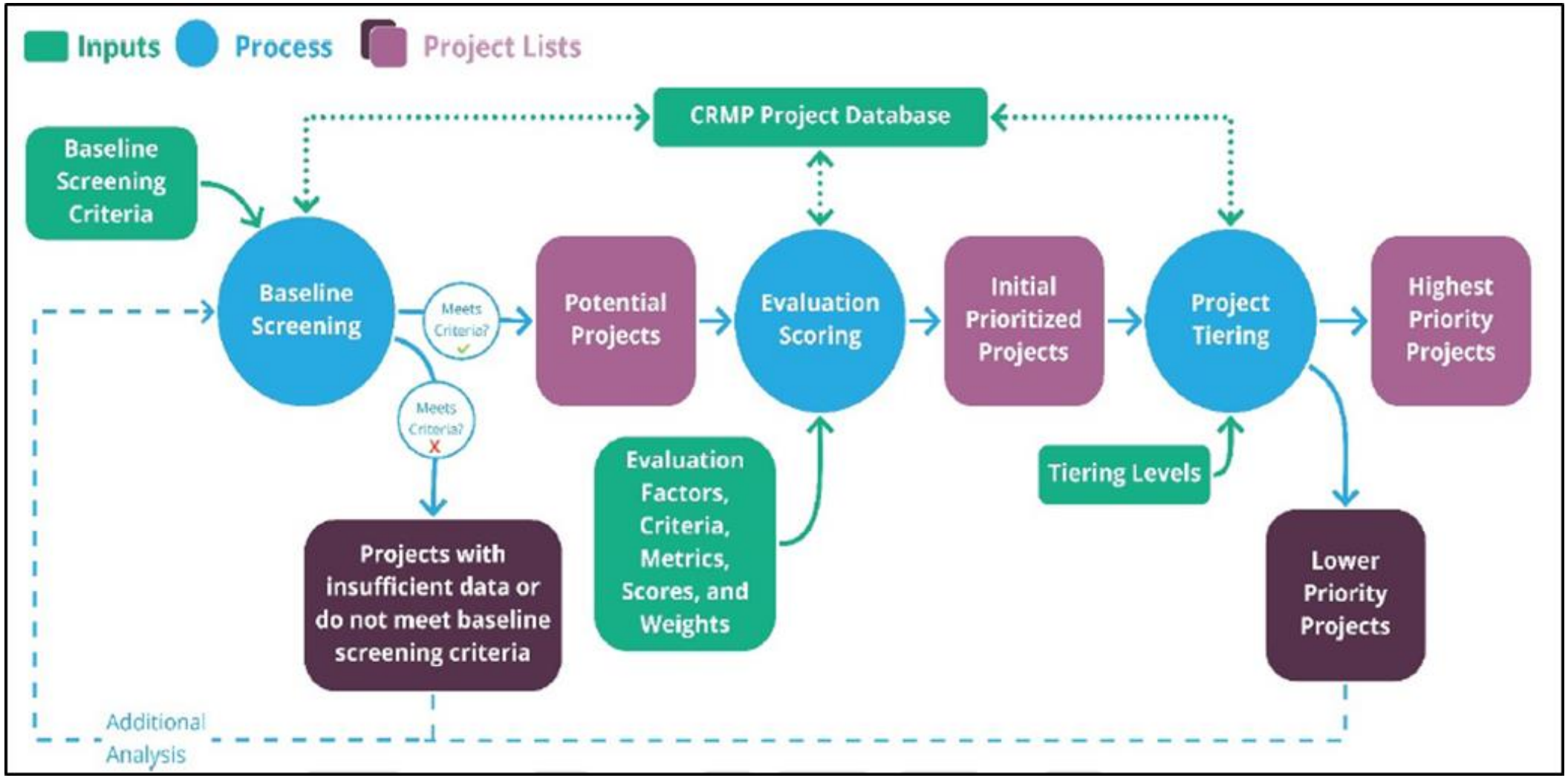
VIRGINIA COASTAL RESILIENCE MASTER PLAN 2021

Project Evaluation Process
Master Plan Project Prioritization and Outcomes
Capacity Building Needs

Task 5 : Adaptation Strategies and Prioritization

- **Developed in alignment with the 5 Framework Guiding Principles**
- **Required development of Project definition and Inventory (Consistent with Development of Project and Capacity Building Database and Web Application, part of Task 8, to host both.)**
- **Includes Project Classification Schema (Class, Type, Subtype)**
- **Project Classes:**
  - **Natural and Nature Based**
  - **Hybrid**
  - **Structural**

Screening Process Flow



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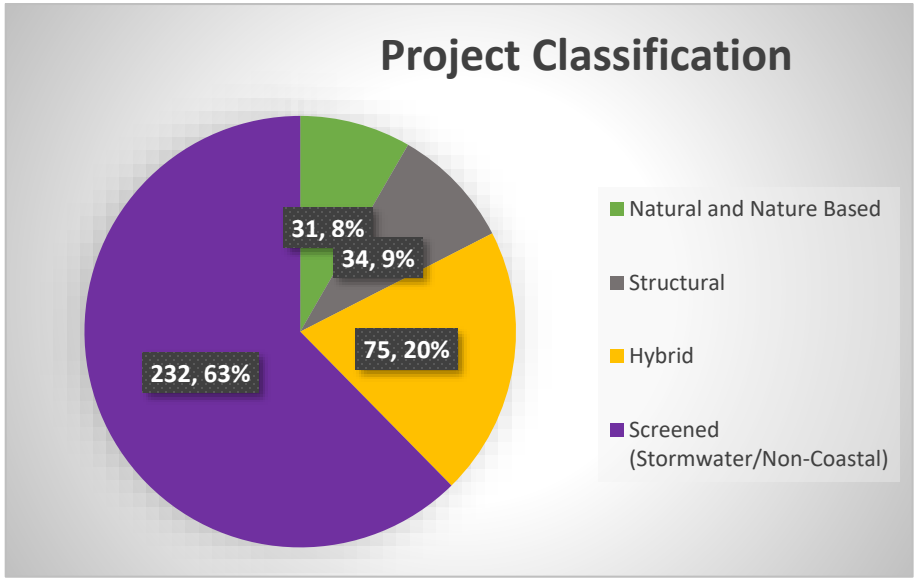
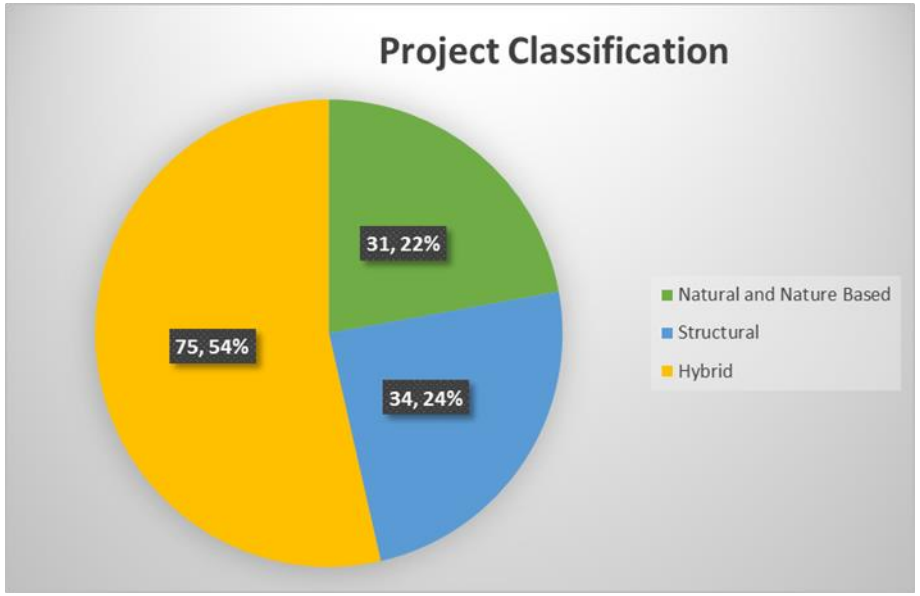
- Screening Criteria / Scoring Criteria / Weighting Criteria
  - Adjusted as results reviewed
- Projects considered based on nine primary screening criteria, and 3 additional secondary criteria
  - Baseline Screening
    - Primary Screening (9 criteria)
    - Secondary Screening (3 criteria)
  - Evaluation Scoring
    - 5 Factors (aligned with Framework Principles) (8 criteria)
  - Project Tiering (% ranking. No mandatory threshold for high priority projects.)
    - 1st Tier (>75%)
    - 2nd Tier (75%-50%)
    - 3rd Tier (50%-25%)
- ***Capacity Building not evaluated***



All Projects in Database



Coastal Projects - Post Screening

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Evaluation Criteria Aligned with Framework Guiding Principles

Factors	Evaluation Criteria
Factor 1: Resilience Planning and Design *Relevant CRMP Framework Guiding Principle: **#1***	**Criteria 1a:** The project incorporates future conditions scenarios including sea level rise and precipitation. **Criteria 1b**: The project is needed to address both existing and future coastal flood exposure. **Criteria 1c**: The project addresses coastal hazards and compounding stressors that exacerbate coastal hazards.
Factor 2: Equity Considerations *Relevant CRMP Framework Guiding Principle: **#2***	**Criteria 2a**: The project provides benefits to communities with a lack of economic resources and capacity to address current and future increases in flooding. **Criteria 2b**: The project has the potential to add resilience to socially vulnerable communities.
Factor 3: Natural-Based Approaches *Relevant CRMP Framework Guiding Principle: **#3***	**Criteria 3:** The project recognizes the importance of protecting and enhancing green infrastructure like natural coastal barriers and fish and wildlife habitat by prioritizing nature-based solutions.
Factor 4: Regional Adaptation Priorities *Relevant CRMP Framework Guiding Principle: **#4***	**Criteria 4:** The project has potential to benefit regional priority areas for community resources, critical assets, or natural assets that are at risk of flooding.
Factor 5: Project Benefits *Relevant CRMP Framework Guiding Principle: **#5***	**Criteria 5**: The project maximizes the benefits it is intended to provide. Benefits depend on the project type: • Flood Risk Reduction Structures: The project is expected to reduce existing and future coastal flood risk. • Nature-Based Features and Structural Shoreline Stabilization: The project is expected to reduce shoreline erosion. • Natural Features; Nature-Based Features; Conservation and Adaptation: The project is expected to protect and/or enhance natural systems critical for flood resilience, natural habitat and ecosystem diversity, agriculture and forestry preservation, and water quality improvements. • Community Infrastructure: The project is expected to provide community-scale benefits to the populated area surrounding the project.

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The Outcome : Project Database and Screening Criteria Developed!

The Challenges:

- **Natural hazard impact only coastal flood hazard**
- **Inconsistent Functional results**
- **Project tiering order**
- **Align Capacity building needs**
- **Grouped (Community or locality scale) projects scattered through tiering process**
- **Project maturity varies**
- **Benefit / Cost ??**
- **Project Benefit Area estimated**

Comments: Next Steps:

- **Project Eval Subcommittee Considerations**
- **Other Subcommittee Considerations**
- **Considerations / Next Steps**
  - **Re – categorize prioritization – focus on classes of projects**
  - **Broaden Tiering groups**
  - **Consider Capacity Building needs**
  - **TAC Technical expert review**
  - **Timeline Considerations**
  - **Near and Long Term process development milestones**

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