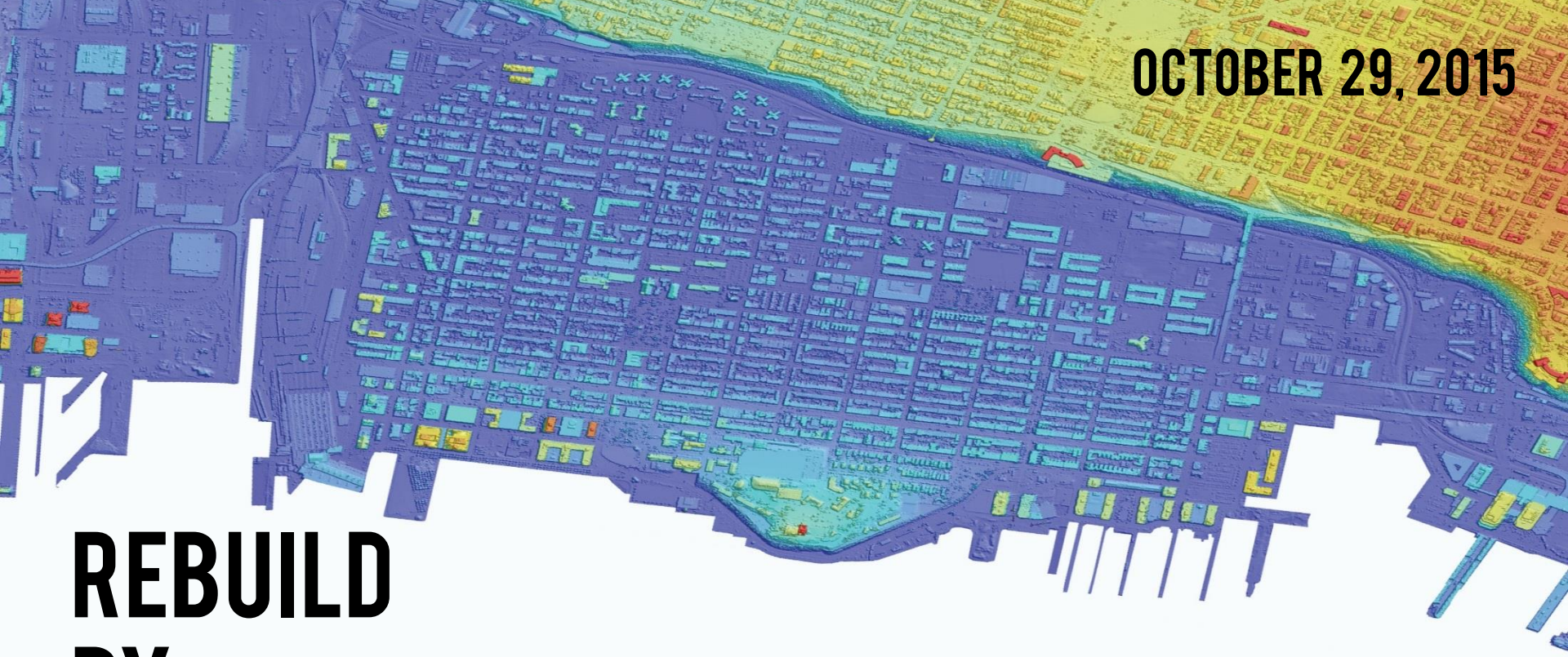


OCTOBER 29, 2015

REBUILD BY DESIGN

▪ RESIST ▪ DELAY ▪ STORE ▪ DISCHARGE ▪

HUDSON RIVER

Hoboken Weehawken Jersey City | New Jersey

CITIZEN ADVISORY GROUP – SCOPING/CRITERIA AND METRICS

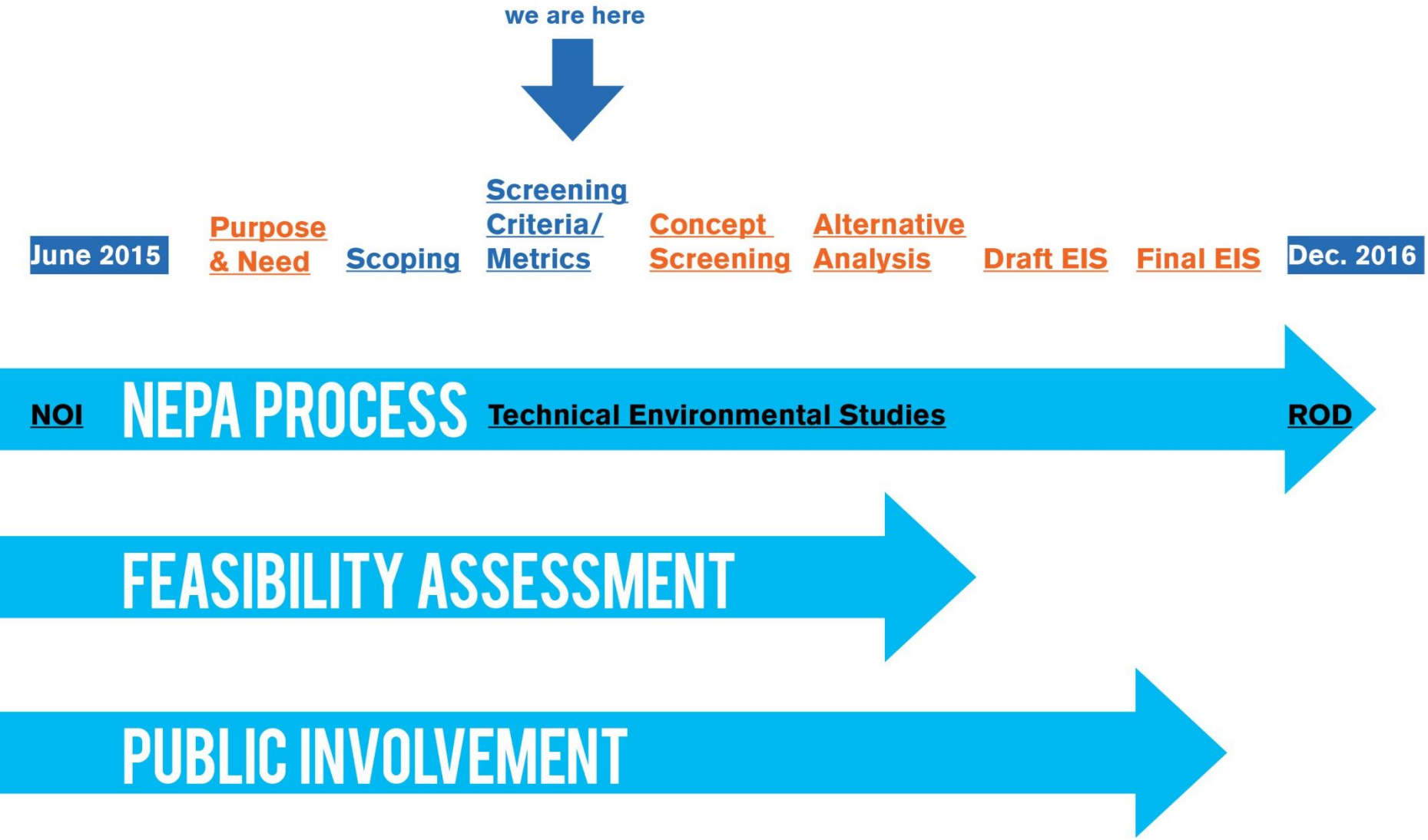
AGENDA

- Housekeeping
- Project Status
- Criteria and Metrics Briefing
  - Brief overview of Concept Screening
  - Define the terms “Criteria” and “Metrics”
  - Brief overview of the current matrix/criteria/metrics developed
- Q&A
- Open House Portion
- SME panel Q & A
- Wrap-up

HOUSEKEEPING

- CAG Communication Frameworks

	Planned	Actual
– 1 DAY after CAG meeting:		
• All material provided at meeting distributed	Oct 9	Oct 13
– 5 DAYS after CAG meeting:		
• Distribution of meeting summary	Oct 15	Oct 15
– 10 DAYS after CAG meeting:		
• CAG comments on meeting summary due	Oct 22	Oct 22
– 2 Days prior to CAG meeting:		
• Finalize meeting summary	Oct 27	Oct 28
• Provide agenda	Oct 27	Oct 27
• Other information regarding meeting content	Oct 27	Oct 27



NOI - Notice of Intent **ROD** - Record of Decision **EIS** - Environmental Impact Statement

Dewberry

State of New Jersey Department of Environmental Protection

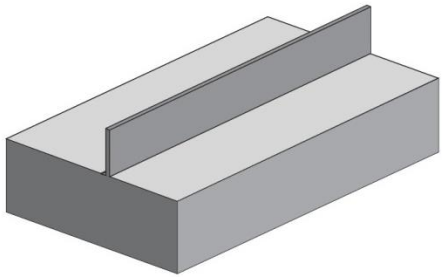
CONCEPT SCREENING CRITERIA AND METRICS

- Criteria are factors that help us evaluate the concepts in terms of:
  - Meeting Purpose and Need
  - Potential Benefits to the Community
  - Potential Impacts to the Natural and Built Environment
- Metrics are how we measure the criteria.

CRITERIA	Flood Risk Reduction	Built Environment	Environmental Impacts	Construction
METRIC	Percentage reduction in flooding	Potential for new amenities created	Number of hazardous waste sites	Degree of difficulty to construct

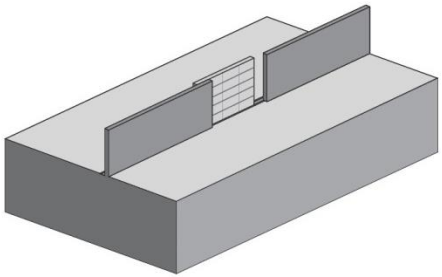
QUALITATIVE METRICS

Criteria are evaluated on a 'Good, Fair, Poor' standard.



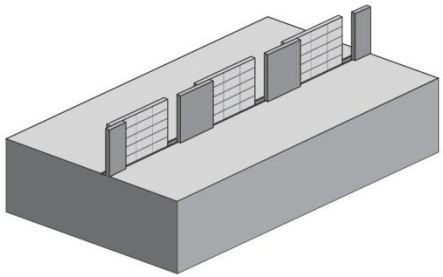
GOOD

Maximum permanent structures with fewer deployable structures. Lower ongoing operation and maintenance costs. Reduced potential for human error.



FAIR

More deployable structures. Moderate ongoing operation and maintenance costs. Moderate potential for human error.

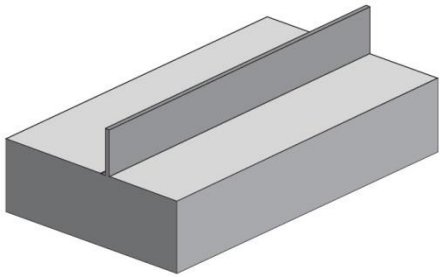


POOR

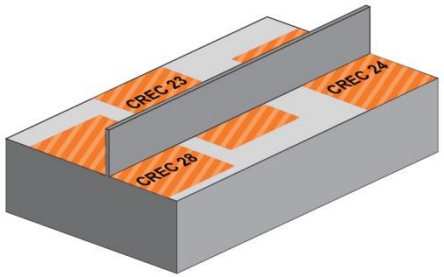
Many deployable structures. High ongoing operation and maintenance costs. Higher potential for human error.

QUANTITATIVE METRICS

Criteria are evaluated numerically.



(0) Sites



(3) Sites

HAZARDOUS WASTE

Number of potentially contaminated sites based on desktop data collection.

CONCEPT SCREENING CRITERIA AND METRICS

FLOOD RISK REDUCTION

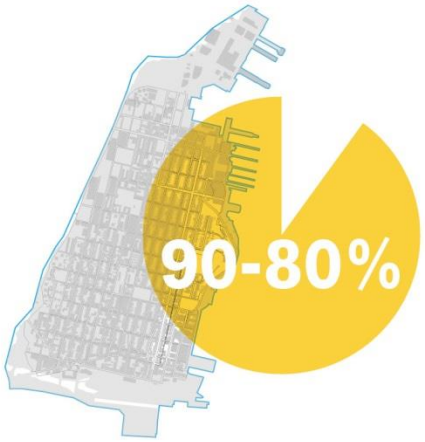
- Coastal Storm Surge
- Potential to adapt to a higher coastal flood event
- Rainfall

FLOOD RISK REDUCTION

Coastal Storm Surge

GOOD

Greater than 90% of existing 100 year floodplain area/parcels achieves coastal storm surge flood risk reduction benefits. Most critical facilities receives flood risk reduction benefits.



FAIR

Between 80% and 90% of existing 100 year floodplain area/parcels achieves coastal storm surge flood risk reduction benefits. Many critical facilities receives flood risk reduction benefits.

POOR

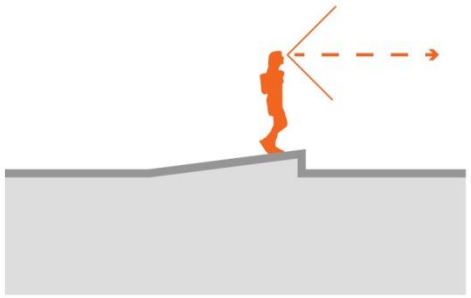
Poor- Less than 80% of existing 100 year floodplain area/parcels achieves coastal storm surge flood risk reduction benefits. Some critical facilities receives flood risk reduction benefits.

BUILT ENVIRONMENT

- View Corridors
- Waterfront Access
- Potential Community Benefits
- Connectivity/Circulation
- Environmental Justice Populations
- Public Health Concerns

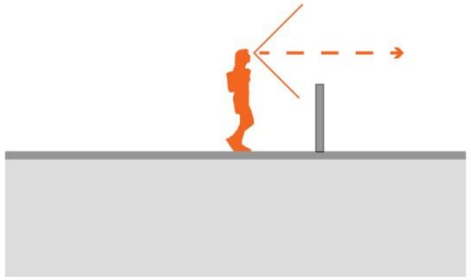
BUILT ENVIRONMENT

View Corridors



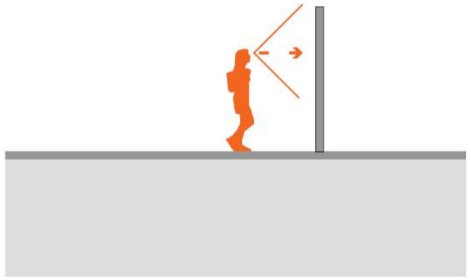
GOOD

Enhanced views from the city to the water (improves/creates additional view corridors); Little to no impact on views from the city to the water.



FAIR

Little to moderate impact on views from the city to the water (few barriers over 5' in height).



POOR

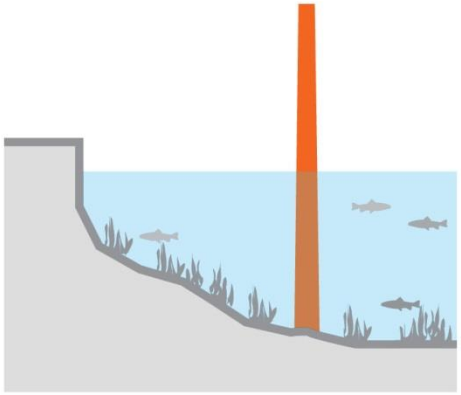
Many views from the city to the water are blocked (many barriers over 5' tall); visual impact on the city skyline (barriers are visible from NY side of the river).

ENVIRONMENTAL IMPACTS

- Hazardous Waste
- Wetlands
- Essential Fish Habitat
- Threatened and Endangered Species
- Army Corp. Permits
- Historic Properties
- Archaeological Resources

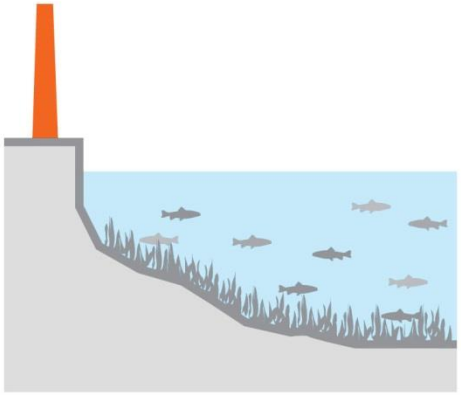
ENVIRONMENTAL IMPACTS

Essential Fish Habitat



YES

Essential Fish Habitat will be impacted by the concept



NO

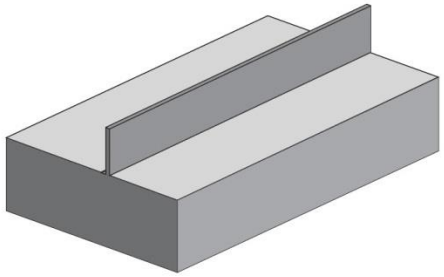
Essential Fish Habitat will not be impacted by the concept

CONSTRUCTION/MAINTENANCE AND OPERATIONS/BENEFIT-COST ANALYSIS

- Construction
  - Constructability
  - Construction Duration
- Maintenance and Operation for Overall System
- Benefit/Cost Analysis
  - Benefits
  - Costs
  - Benefit/Cost Ratio

CONSTRUCTION/MAINTENANCE AND OPERATIONS/BENEFIT-COST ANALYSIS

Maintenance and Operation for Overall System



GOOD

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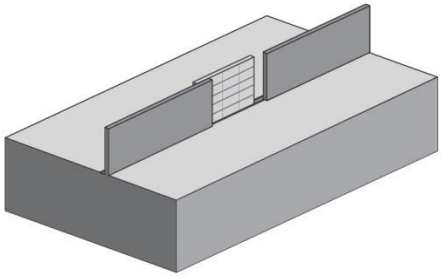
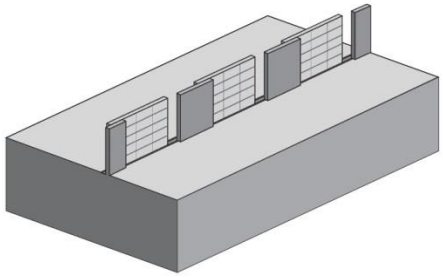


FAIR

More deployable structures. Moderate ongoing operation and maintenance costs. Moderate potential for human error.



POOR

Many deployable structures. High ongoing operation and maintenance costs. Higher potential for human error.

CONCEPT SCREENING – NEXT STEPS

- **Comments on Screening Criteria by 11/9/2015**
- Workshop with the CAG in November
  - Present the 5 concepts to the CAG
  - CAG will review and provide feedback on the 5 Concepts
- Concept Screening Public Meeting in December
  - Concepts will be presented to public
  - Public will provide additional comment and input
  - Time/Location will be published at least 15 days in advance

Q&A AND COMMENTS

OCTOBER 29, 2015