

RFQ ID: 2023-Smartport

RFP Questions and Answers Document

06/21/2023

- 1. Can you provide a detailed description of the resilience goals and objectives that the dashboard should support?**

To address the traditional natural hazards, but also incorporate social and economic resilience considerations needed to prevent, prepare for, and respond to shocks like COVID-19.

- 2. What specific data sources or APIs should be integrated into the dashboard to gather resilience metrics?**

Objective of the dashboard would be providing contextual environmental information that will be useful to port resilience planning, response, and recovery. Data sources will be drawn from readily available public information and sources. Examples may include: way finding, sea level rise extents (<https://coast.noaa.gov/digitalcoast/tools/slr.html>), coastal flood frequency (https://coast.noaa.gov/arcgis/rest/services/dc_slr/Flood_Frequency/MapServer), FEMA GIS Data Feeds (<https://coast.noaa.gov/digitalcoast/data/flood.html>), or Historical Hurricane Tracks (<https://coast.noaa.gov/digitalcoast/data/hurricanes.html>).

- 3. What options or technologies would be available for remote monitoring and control of barge hardware through the web-based dashboard?**

Not applicable.

- 4. Are there any additional integrations or interfaces required for communicating with barge hardware or other external systems? If yes, please provide details on the desired metrics and technical specifications.**

No.

- 5. Is there any expectation that the dashboard will need to be locked away from public consumption? If it needs to be private, will it be a single shared login or user accounts created? If user accounts need to be created will users be able to sign up or request registration?**

Individual user accounts via registration request (not for public consumption).

6. Describe the different user types envisioned by the Institute.

Lower Mississippi River Port employees or contractors as viewers of the information (not editors of the information).

7. Describe the number, location, and volume of data sources.

Specificity will be determined after award.

8. Provide any mockups that may have been developed. Understanding these may not represent the final deliverable.

Not applicable.

9. Describe different stakeholders that will benefit from the dashboards.

Lower Mississippi River Port operation and leadership staff.

10. Describe any security considerations.

Individual user accounts via registration request (not open to the public).

11. Describe any external milestones, commitments, grants, etc. depending on the dashboards.

Prime contract ends 6/5/2024. All work must be completed by this date.

12. Describe any dynamic resilience plans that will impact the dashboards.

The plans are based on a Lower Mississippi River Comprehensive Port Resilience Index (LMRCPRI) developed to help ports assess their overall resilience and prepare and/or update resiliency plans to respond to future challenges such as the COVID-19 pandemic. Based upon an extensive analytical review of existing literature and socioeconomic data (including resilience strategies and Continuity of Operations Plans), the Institute identified a suite of possible social and economic resilience indicators addressing multiple risks and hazards including extreme weather events, implications of consistently longer and larger high river events that adversely impact the port/navigation sector, and impacts of health crises such as COVID-19 on the port's workforce. Starting with the initial LMRCPRI score, the Institute worked with the ports to characterize the likelihood and consequences for each identified risk. A tailored probability/consequence risk matrix and corresponding prioritized plan of action will be generated for each port.

13. Describe any algorithms that have been created for forecasting or analytics.

Not applicable.

14. Are you expecting the provider to create or devise any forecasting or prediction schemes or algorithms?

No.

15. Are you expecting the dashboards to be hosted by the provider?

Dashboards will be hosted by The Water Institute.

16. Describe the number and types of discovery/workshops the Institute expects during requirement gathering. Can these sessions be done virtually?

Specificity will be determined after award.

17. If the solution will be deployed to Institute infrastructure, will the provider be expected to provide ongoing support of the solution? If so, for how long?

Support is expected for duration of contact agreed to.

18. What is the forecast of the dashboard traffic from internal users and the public?

Individual user accounts via registration request (not open to the public). Anticipate traffic to be limited.

19. Does the Institute expect any training sessions to be delivered? If so, how many sessions and users are expected?

Specificity will be determined after award.

20. What level of documentation is expected as a part of the delivery?

Specificity will be determined after award.

21. Describe the required process on how the users would use the system to self-score their progress towards their resilience goals.

Self-scoring is already complete. Users will be viewing the self-scoring results.

22. Could you provide more details on the specific functionalities you envision for the resilience dashboard?

Specificity will be determined after award.

23. Could you provide more information about the intended user base of this dashboard?

Lower Mississippi River Port employees or contractors.

24. Is there a specific timeline or deadline by which the dashboard needs to be developed and launched?

Prime contract ends 6/5/2024. All work must be completed by this date.

25. Could you provide more details about the geospatial mapping component and what kind of data needs to be displayed?

See Question 2.

26. Could you provide a link to or an addendum with the article referenced: (Whitlock et al., 2018).

Whitlock, S. and R. Baldauf. Inland Port Community Resilience Roadmap. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-18/083, 2018.

https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=349878&Lab=CEMM&keyword=&acttype=&timstype=+&timssubtypeid=&deid=&epanumber=&ntisid=&archivestatus=Both&ombcat=Any&datebeginpublishedpresented=&dateendpublishedpresented=&datebeginupdated=&dateendupdated=&personid=22158&role=Any&journalid=&publisherid=&sortby=FY&count=25

27. Could you provide more information on how the port operators will self-score their progress?

Self-scoring is already complete. Users will be viewing the self-scoring results.

28. How do you envision the collaboration between the Institute and the service provider during the design and development process?

Initial direction setting followed by iterative rapid prototyping.

29. The RFQ mentions that the development effort is expected to take around 1,000 hours. Is this an estimate for the complete project, or only for specific components? Could you share how you developed this estimate?

Effort estimates are anticipated to be developed post award, reflecting consultant rate tables.

30. Could you share more information about the resilience plans that the dashboard will present?

See Question 12.

31. Is it your preference that the service provider will host the dashboard?

Dashboards will be hosted by The Water Institute.

32. Are there any specific maintenance or support requirements for the dashboard after it is launched?

Support is expected for duration of contact agreed to.

33. How will the success of the dashboard's implementation be evaluated?

Requirements will be covered post award.

34. Will there be a dedicated point of contact or team at the Institute to liaise with the service provider during the project?

Yes.