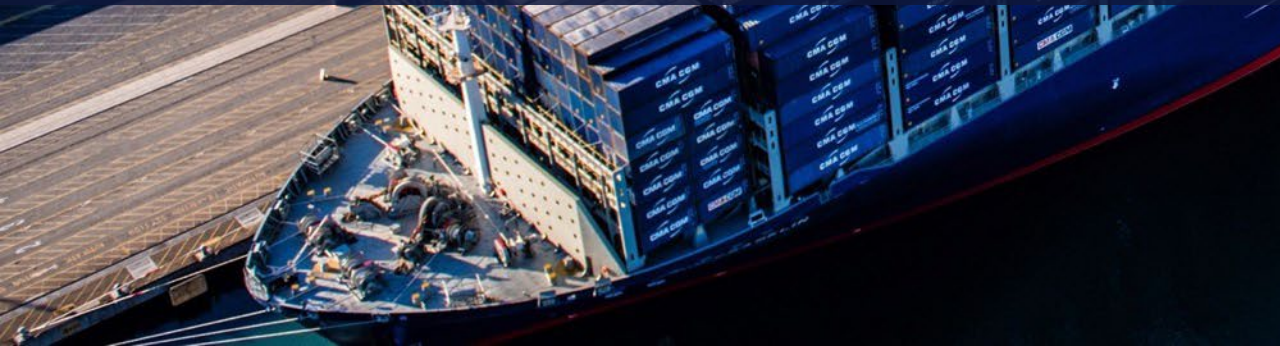




THE PORT
OF LOS ANGELES LA

Digital Twin

Request for Proposals



*Virtual Pre-Proposal Meeting
Monday, February 23, 2026
10:00 am – 11:00 am*

AGENDA



- Welcome and Introductions
- Goals and Objectives
- Scope Overview
- Administrative Requirements
- Key Dates
- Questions and Answers

GOALS AND OBJECTIVES

The Port of Los Angeles is seeking consultants to design, configure, and deploy an integrated platform of applications, dashboards, and analytical tools that enable Port staff and stakeholders to visualize operations in 2D and 3D, analyze scenarios, and improve decision-making.

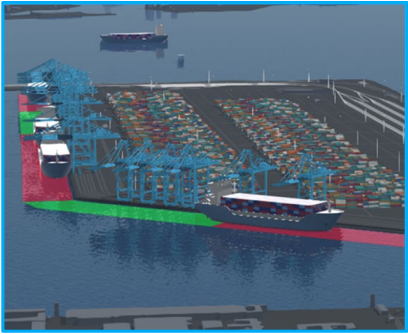
This includes the delivery of ten functional capabilities that together provide enhanced situational awareness, efficiency, safety, and data-driven insight across Port operations.

SCOPE OVERVIEW

- This project includes ten capabilities that collectively form the Port's Digital Twin platform.
- Proposers may bid on one or both scope groups:
 - **Group A, Core Digital Twin Foundation** (Capabilities 1–9)
Must include all nine capabilities when bidding Group A
 - **Group B, Traffic Modeling** (Capability 10)
May be proposed as a standalone scope
- The Port may issue a single award covering Groups A and B; or multiple awards (one for Group A and a separate award for Group B).



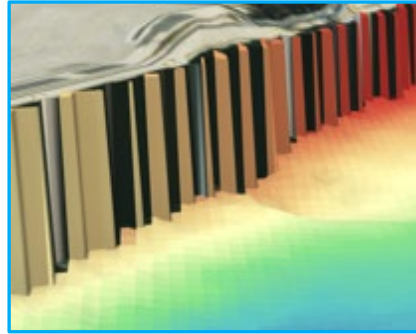
SCOPE OVERVIEW



Port-Wide 3D Basemap

Summary

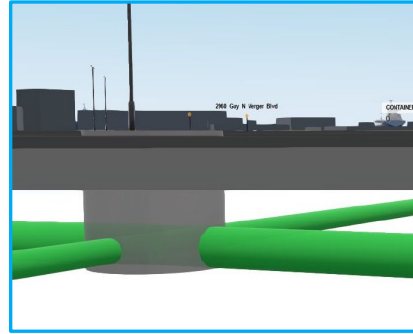
- Produce port wide 3D scene, aligned to GIS control, with defined accuracy tolerances
- Integrate existing reality capture inputs (imagery, LiDAR, mesh) where available, identify gaps
- Deliver publishable 3D web scene layers plus desktop authoring package
- Establish update approach, refresh cadence, and governance for future edits
- Define performance targets (web streaming, level of detail, tiling, caching)



Bathymetry Underwater Viewing and Analysis

Summary

- Ingest hydrographic survey datasets, define survey sources, metadata, and update frequency
- Build bathymetry surface models and publish 2D and 3D visualization products
- Configure change detection outputs (shoaling hot spots, depth deltas, priority areas)
- Define thresholds for navigational risk and dredging planning views
- Document pipeline for recurring updates and QA validation



Mapping Substructures

Summary

- Inventory available utility datasets (CAD, GIS, as-builts), classify confidence levels
- Create authoritative GIS layers with attribution, lineage, and verification status
- Define field verification workflow (when needed), update process, and audit trail
- Establish data model standards (feature types, symbology, metadata, versioning)
- Address access controls for sensitive infrastructure layers



Asset & Environmental Inspections

Summary

- Configure mobile inspection applications (forms, required fields, photo capture, GPS tagging)
- Define inspection types, routing, offline use, sync behavior, and supervisor dash boards
- Integrate inspection results to asset IDs and location features (workflows and data model)
- Implement role-based access, audit history, and records retention
- Provide UAT, training, and handoff documentation for ongoing form changes



Environmental Sensor Integration

Summary

- Identify sensor sources (air, water, weather, tide), protocols, latency, and data quality rules
- Stand up ingestion pipeline (streaming or scheduled), normalization, & error handling
- Configure real time dashboards, alerts, and threshold rules
- Support historical trending, data export, and governance for calibration updates
- Define security, public sharing boundaries, and uptime monitoring

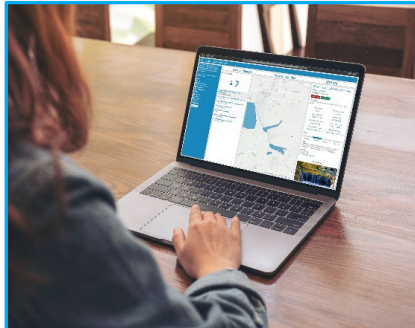
SCOPE OVERVIEW



Port Community System (PCS) Integration

Summary

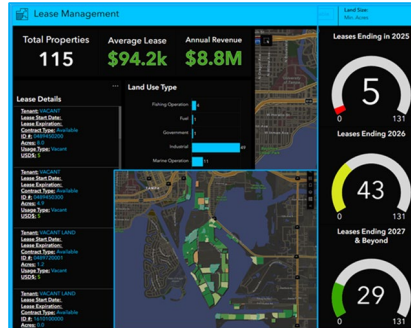
- Define PCS data feeds required (vessel, truck, gate, cargo), refresh rates, and access method
- Implement integration pattern (API, file drop, message bus), including data mapping and QA
- Create shared operational views across functions (who sees what, when)
- Address partner onboarding, data sharing agreements, and data governance
- Include monitoring, failure recovery, and change management for feed revisions



Capital Project Mapping

Summary

- Integrate capital project system data (schedule, budget, status, owner), define source of truth
- Geospatially enable projects (points, lines, polygons), define location rules and accuracy needs
- Configure filters, portfolio views, and map-based reporting for leadership and staff
- Support dependency and conflict visualization (projects overlapping in space and time)
- Define update cycle, ownership model, and acceptance criteria



Profit and Loss by Facility/Parcel

Summary

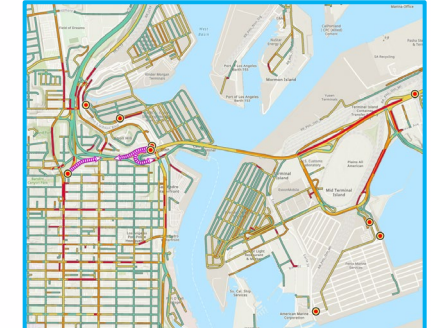
- Integrate financial, lease, and property datasets, define authoritative sources and cadence
- Establish facility and parcel identifiers and data relationships for rollups
- Configure dashboards for revenue, cost, and key drivers by location
- Address data security, role based viewing, and audit requirements
- Define reconciliation approach for mismatched records or incomplete spatial links



Security Operations Dashboard Design

Summary

- Define security data inputs (incidents, assets, sensors), sensitivity levels, and access model
- Produce a blueprint architecture (network segmentation, secure portal options, audit logging)
- Configure common operating picture views, incident workflows, and escalation triggers
- Integrate with public safety systems where feasible, define constraints and dependencies
- Include tabletop scenario validation and operational acceptance criteria



Traffic Modeling

Summary

- Define modeling objectives (closures, detours, scenarios), geographic extent & times
- Identify data inputs (traffic counts, cameras, partner feeds), assumptions, & calibration method
- Configure scenario tools and outputs (impacts, maps, dashboards, reports)
- Define coordination workflows with external agencies and data sharing boundaries
- Establish approach for ongoing model updates, monitoring, and refinement

ADMINISTRATIVE REQUIREMENTS

Felicia Ansley, Contract Administrator

**Assistant Director,
Contracts and Purchasing Division**

fansley@portla.org



**THE PORT
OF LOS ANGELES**



- Effectively, the most important parts of your proposal submission are the administrative requirement documents.
- Proposals that fail even one of the administrative requirements will cause the entire proposal to be deemed non-responsive!



The two most important things to remember when preparing your proposal's administrative documents are:

READ CAREFULLY

and

FOLLOW INSTRUCTIONS

AFFIDAVIT OF COMPANY STATUS AND CONSULTANT DESCRIPTION FORM

(EXHIBIT B)

- Although there is not a mandatory Small Business Enterprise or Very Small Business Enterprise participation requirement for this project, both forms must be completed and submitted in your proposal.
- Complete all the information requested. Do not put the RAMP ID number from the cover page of the RFP when asked to provide your "RAMP ID" on the Consultant Description Form. You must put the number of **your company's account** on RAMP.

LOCAL BUSINESS ENTERPRISE PREFERENCE PROGRAM

(EXHIBIT B)

- Primes who are a Local Business Enterprise (LBE) will receive an 8 point preference on their score. Refer to page two of the Affidavit of Company Status for the criteria of an LBE.
- I will use the forms in Exhibit B, information in your proposal, and your company website to determine if LBE preference points are applicable.
- If the Prime is not an LBE, additional preference points may be applicable for up to 5 additional points through the utilization of an LBE subconsultant. Refer to Exhibit B for more information.

INSURANCE VERIFICATION LETTER

- The insurance requirements for this project are outlined in Section 4.4 of the RFP. We **strongly** recommend that you show this section to your insurance broker or carrier.
- The letter basically serves to attest that either you already have that coverage, or that you'll be able to obtain it if selected for award.
- Companies do not have to have the RFP's stated insurance coverage in place during the proposal stage.
- Do NOT include insurance policy documents, a detailed line item description of your coverage, or the "one sheet" Certificate of Insurance. An insurance verification letter, as described in the RFP, must be in your proposal!

CEC FORMS 50 AND 55

(EXHIBIT F)

- Refer to the RFP for a link to the City Ethics Commission's website. It has both forms in a fillable .pdf format, and detailed instructions on how to complete CEC Form 55.
- Make sure that all the fields are **completed**, on **both** forms (original vs. amended filing, date bid submitted, Schedule Summary, additional Schedule pages attached, etc.)

STANDARD CONTRACT PROVISIONS AND ED 35 ACCEPTANCE LETTER

- Follow the instructions in the RFP about what the letter should state; keep it short and simple.
- Any “exceptions” noted in your acceptance letter will deem the letter non-responsive.
- **If you cannot accept the Standard Contract Provisions exactly as written, do not submit a proposal!**

IRAN CONTRACTING COMPLIANCE AFFIDAVIT

(EXHIBIT G)

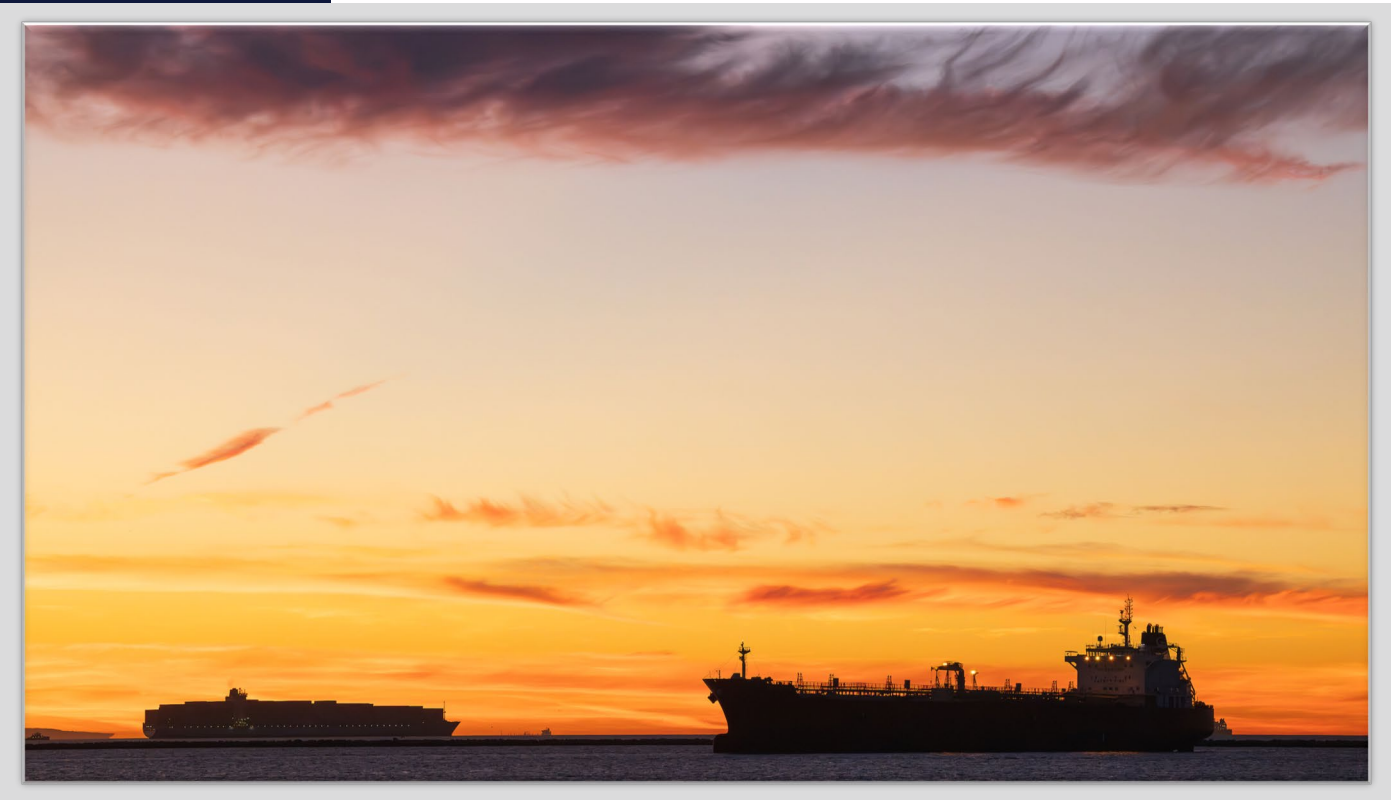
- Read the entire form carefully, and complete the information requested. If your company does not yet have a Business Tax Registration Certificate (BTRC), you may put "N/A" for that field.



AND
LASTLY

- **NOW IS THE TIME** to start working on completing your administrative documents and sending me questions to fansley@portla.org!
- Do **not** wait until right before 3:00 p.m. to e-mail me your proposal. It doesn't matter when you *send* it, it matters when I *receive* it!
- At 3:01 p.m. on the proposal's due date...no exceptions, no excuses!

KEY DATES



Questions Due
February 26 by 3:00 p.m.

Responses Posted
~~March 12~~ March 19

Proposals Due
~~March 25~~ **by 3:00 pm**

April 9

QUESTIONS AND ANSWERS

