



**Corps of Engineers
Civil Works
Mission**

Civil Works Mission

- **Planning, Designing, Construction and the Operation and Maintenance of authorized Water Resource Development projects through partnerships with stakeholders.**
- **Value to the Nation**
- **Environmentally Sustainable**
- **Economically Feasible (+ Net Benefits)**
- **Technically Sound (Quality)**

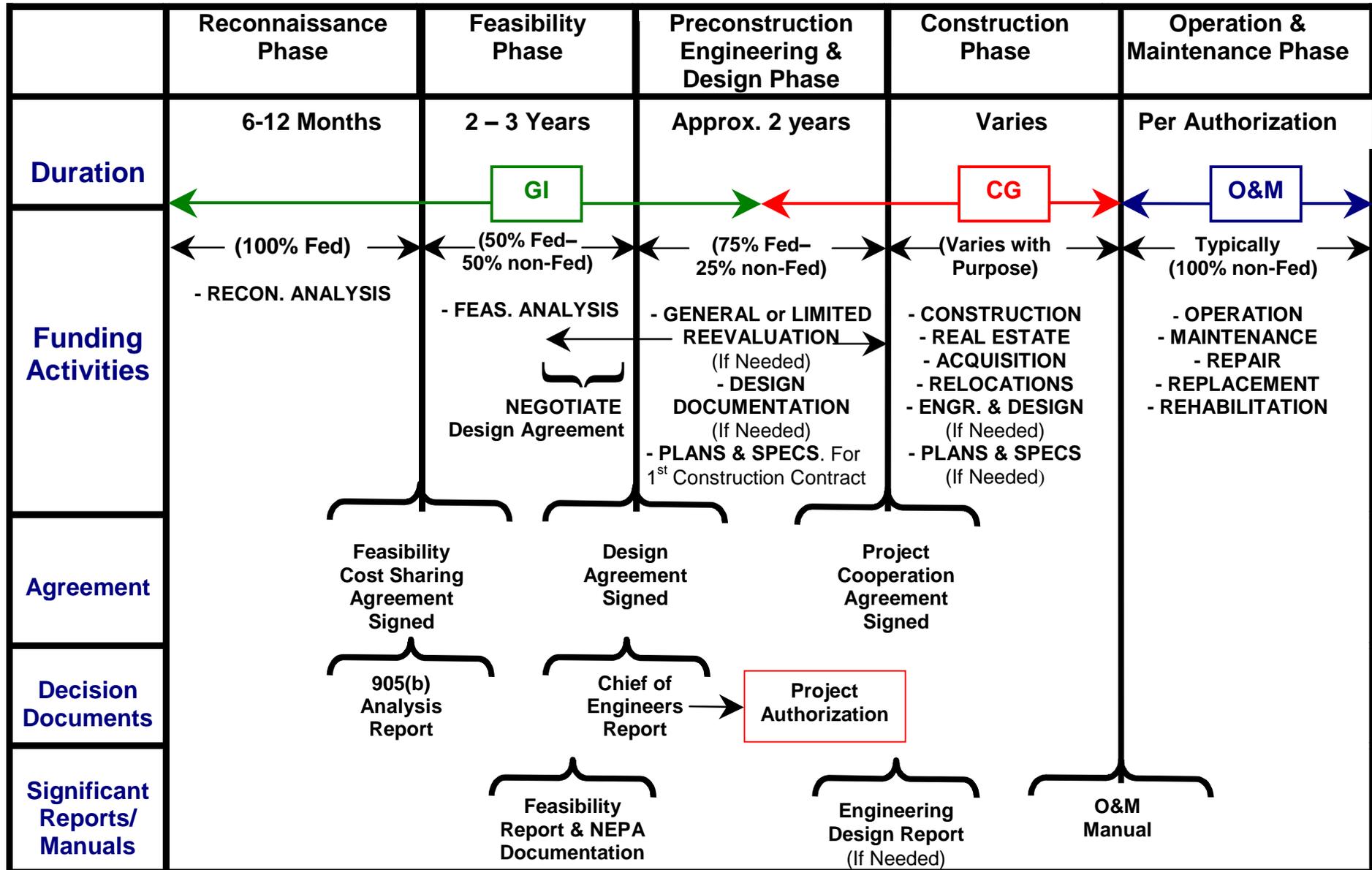
The Big 3 Missions

- **Commercial Navigation**
 - **Deep Draft Harbors (e.g. Charleston, Miami, New York)**
 - **Shallow Draft Harbors (e.g. Murrell's Inlet, Manteo)**
 - **Inland Waterways (e.g. AIWW, Ohio River, Mississippi River)**
- **Flood and Storm Damage Reduction**
 - **Reservoirs**
 - **Levees**
 - **Beach Nourishment**
- **Aquatic Ecosystem Restoration**

Civil Works Projects

- **Involve Multiple Stakeholders**
 - **Sponsor: Local Community, County, State**
 - **Environmental: EPA, F&WS, NMFS, MMS, State Resource Agencies**
 - **Government: Congressional Delegation, State, Local, and Federal**
 - **Other: Native American Tribes, Local Businesses, Land Owners**
- **Unique in scope, schedule, costs, and issues**

Project Development Phases



What Happens in Reconnaissance Phase?

- **Goal of Reconnaissance Phase – Determine Federal Interest, Identify Sponsor, Prepare Project Management Plan**
- **Outlines problem, potential solutions, potential costs and benefits, and potential environmental issues**
- **100% Federal funds (Typically \$100,000)**
- **Sign cost share agreement with sponsor**
- **Final Product: 905b report documenting Federal interest and expected benefits**

What Happens in Feasibility Phase?

- **Cost shared with Sponsor (Typically 50-50)**
- **Fully describes the problem and the proposed solution (including in-depth look at full array of alternatives)**
- **NEPA documents are developed**
- **Preliminary designs developed (including borrow site investigation)**

What Happens in Feasibility Phase (cont'd)?

- **Costs & benefits determined**
- **Sign PED agreement with Sponsor**
- **Final Product: Feasibility Report with National Economic Development Plan identified**

NEPA During Feasibility Phase

- **EA or EIS prepared**
- **Must address all environmental issues**
 - **Cultural Resources (shipwrecks, gravesites, structures, etc)**
 - **Impact to fisheries and other aquatic, terrestrial, and benthic communities**
 - **Endangered Species Act compliance**
 - **Water quality and coastal zone impacts**
 - **Secondary and cumulative impacts**
- **Public meetings/hearing held if necessary**

NEPA During Feasibility Phase (cont'd)

- **Draft and final documents circulated to all resource agencies and public for review**
- **All comments received are addressed**
- **FONSI or ROD signed and attached to completed Feasibility Report**
- **NEPA document covers the entire 50 year project life including future nourishments**
 - **If conditions change substantially, additional NEPA documents will be prepared to support renourishment cycles**

What Happens in PED Phase?

- **Project designs completed and ready to advertise**
- **Project Partnership Agreement (PPA) developed and signed with Sponsor**
- **Sponsor can begin real estate acquisition (at own risk)**
- **Sponsor negotiates lease with MMS**

What Happens in Construction Phase?

- **Sponsor acquires all real estate needed (easements, in fee, etc)**
- **Contract advertised and awarded**
- **Project constructed**
- **QA oversight provided by the Corps during construction**
- **O&M Manual completed and given to Sponsor at completion of construction**

The background of the slide is a photograph of a vast blue ocean meeting a bright blue sky with wispy white clouds. The horizon line is visible in the middle of the frame. The text 'QUESTIONS??' is centered in the middle of the image.

QUESTIONS??