

NAVIGATION & ECOSYSTEM SUSTAINABILITY PROGRAM UPPER MISSISSIPPI RIVER SYSTEM

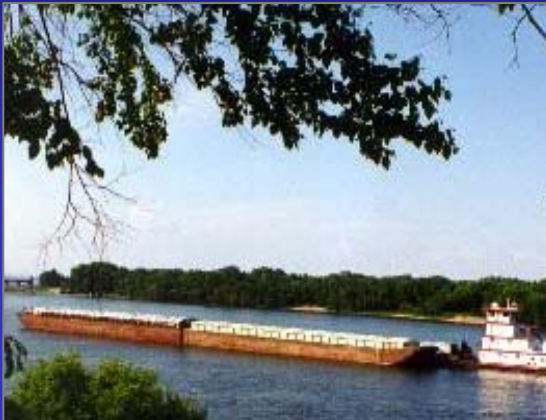
JULY 2005





Upper Mississippi River System

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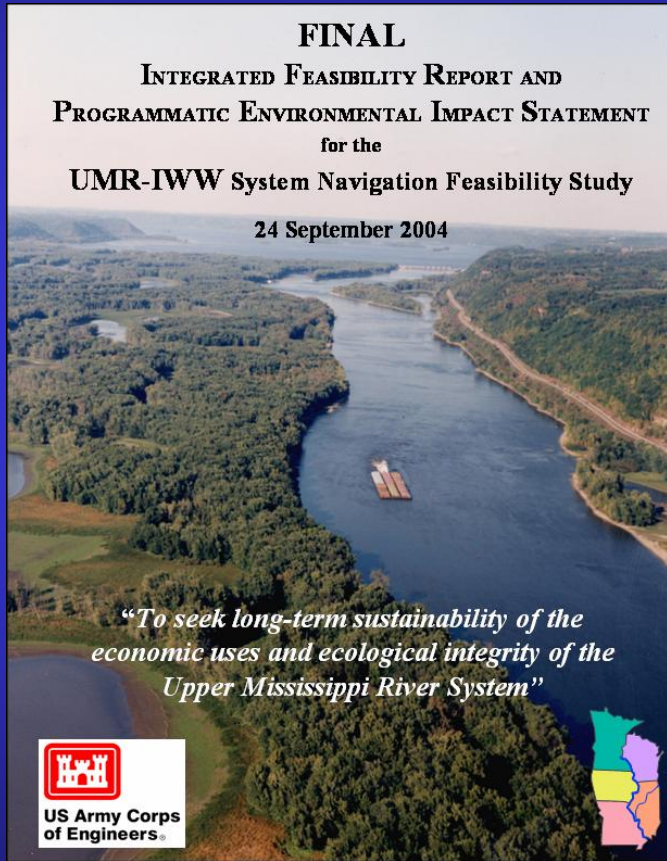
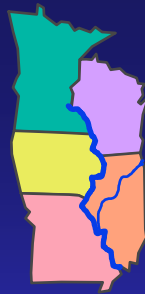
- 1200 miles of river
- 37 lock sites
- 2.7 million acres of Floodplain





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Recap of Feasibility Study

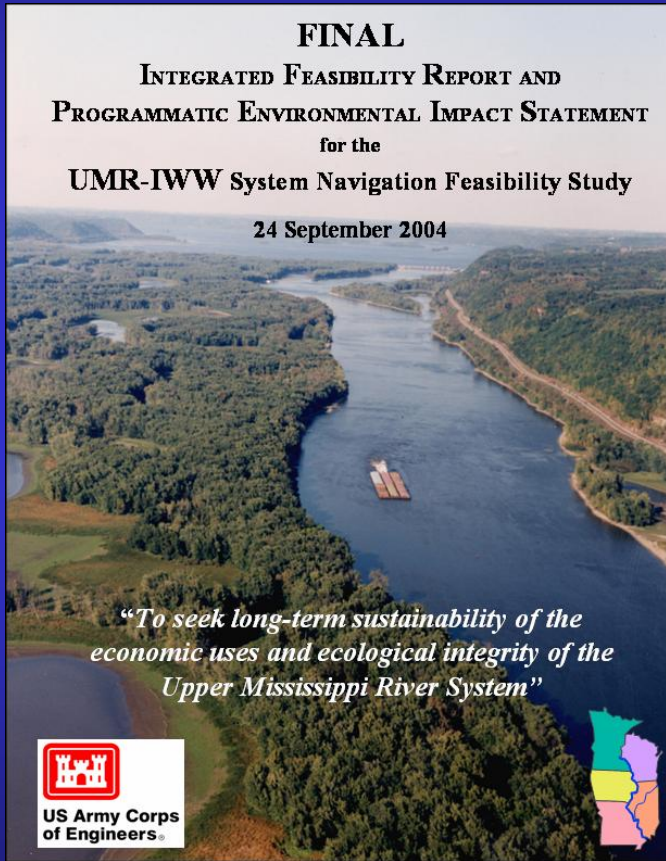
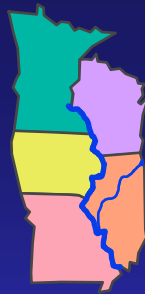


- Feasibility study 1993-2004
- Restructured to include ecosystem restoration in 2001
- Dual purpose recommendation
- Chiefs Report signed Dec 04
- Currently under review by ASA(CW) with Draft ROD



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Recap of Feasibility Study



- FY 05 funding - \$11 million for pre-construction engineering & design (PED)
- Congress considering project authorization



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Dual Purpose Plan Chief's Report



- 50-year framework for navigation efficiency and ecosystem restoration
- Seeking authorization for first increment (15 yr)
 - Ecosystem restoration = \$1.58 billion
 - Navigation efficiency = \$2.03 billion
- Adaptive Implementation with checkpoints at years 3, 7, and 15.



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Navigation Efficiency

\$2.03 billion in first increment



- **Small scale navigation improvements**
 - **Mooring facilities**
 - **Switchboats**
- **Adaptive implementation of 1200' chambers at Locks 20 through 25, La Grange, and Peoria**
- **Mitigation for site specific and system effects**
- **Continued study and monitoring**



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Ecosystem Restoration

\$1.58 billion in first increment



- Fish passage
- Water level control
- Adaptive implementation of 225 small projects of less than \$25 million each
- 35,000 acres of Floodplain Restoration
- Continued study and monitoring



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FY05 Work Plan (PED)

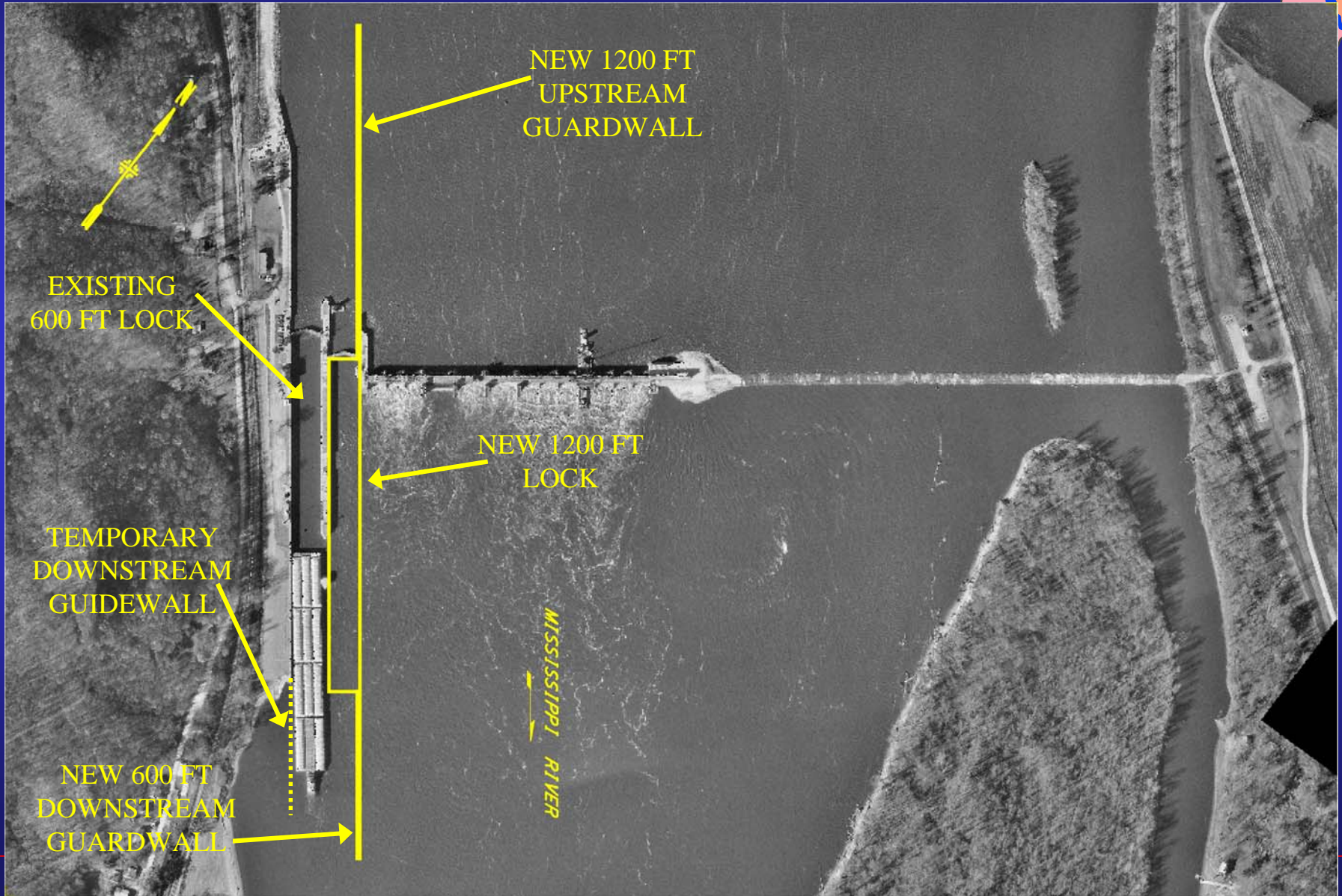
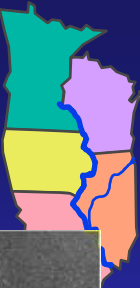


- **FY05 work allowance - \$11.3 M**
- **FY05 work plan - 32 new projects**
- **5 - programmatic projects**
- **8 - navigation efficiency projects**
- **19 - ecosystem restoration projects**
- **Primary activities:**
 - **Site specific planning, engineering, & design**
 - **Collection of pre-project monitoring data**
 - **Site specific evaluations**



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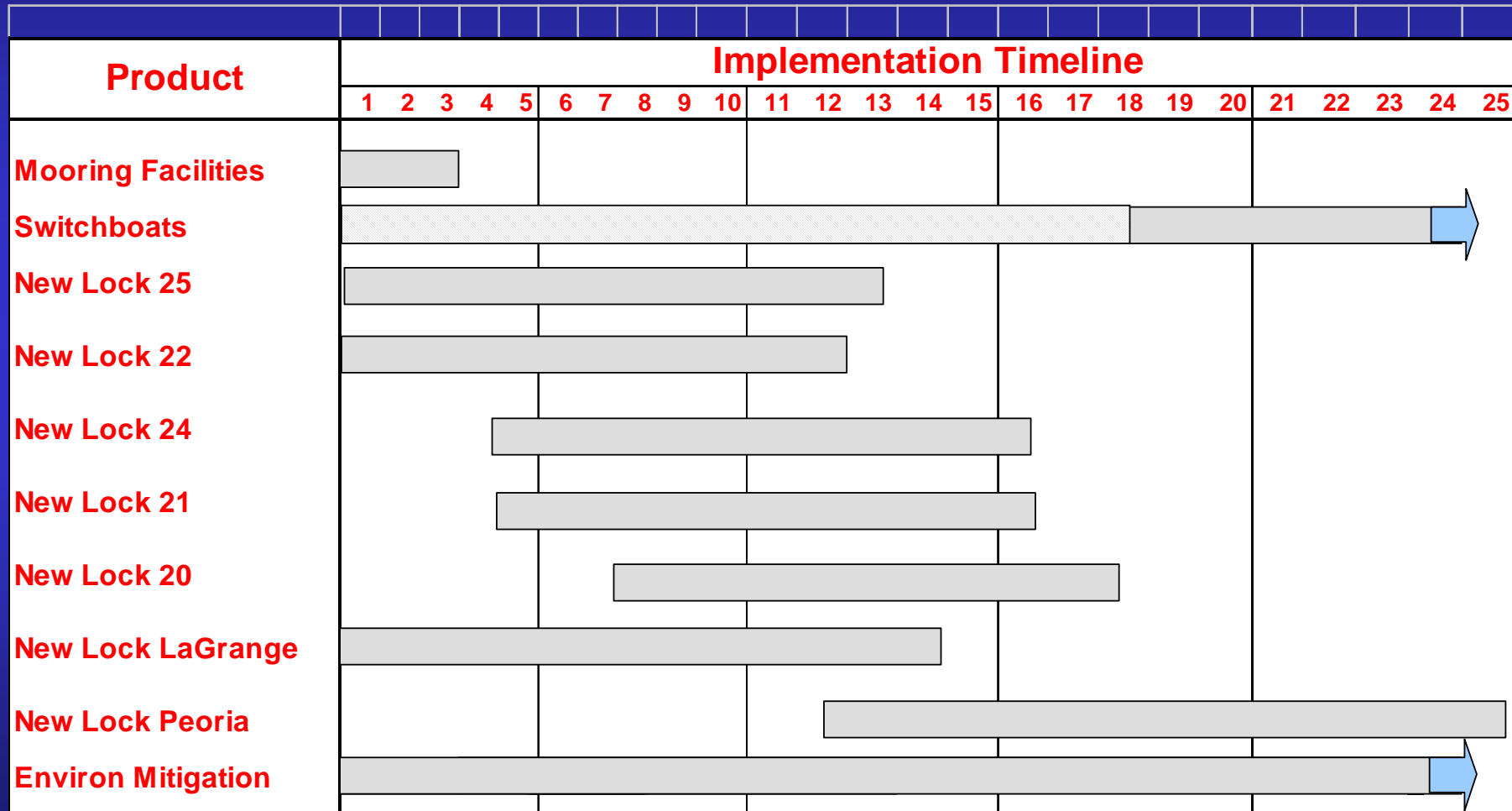
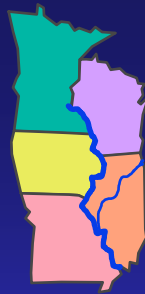
LD 22 – New 1200-ft Lock





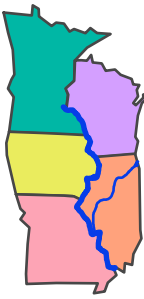
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IMPLEMENTATION TIMELINE



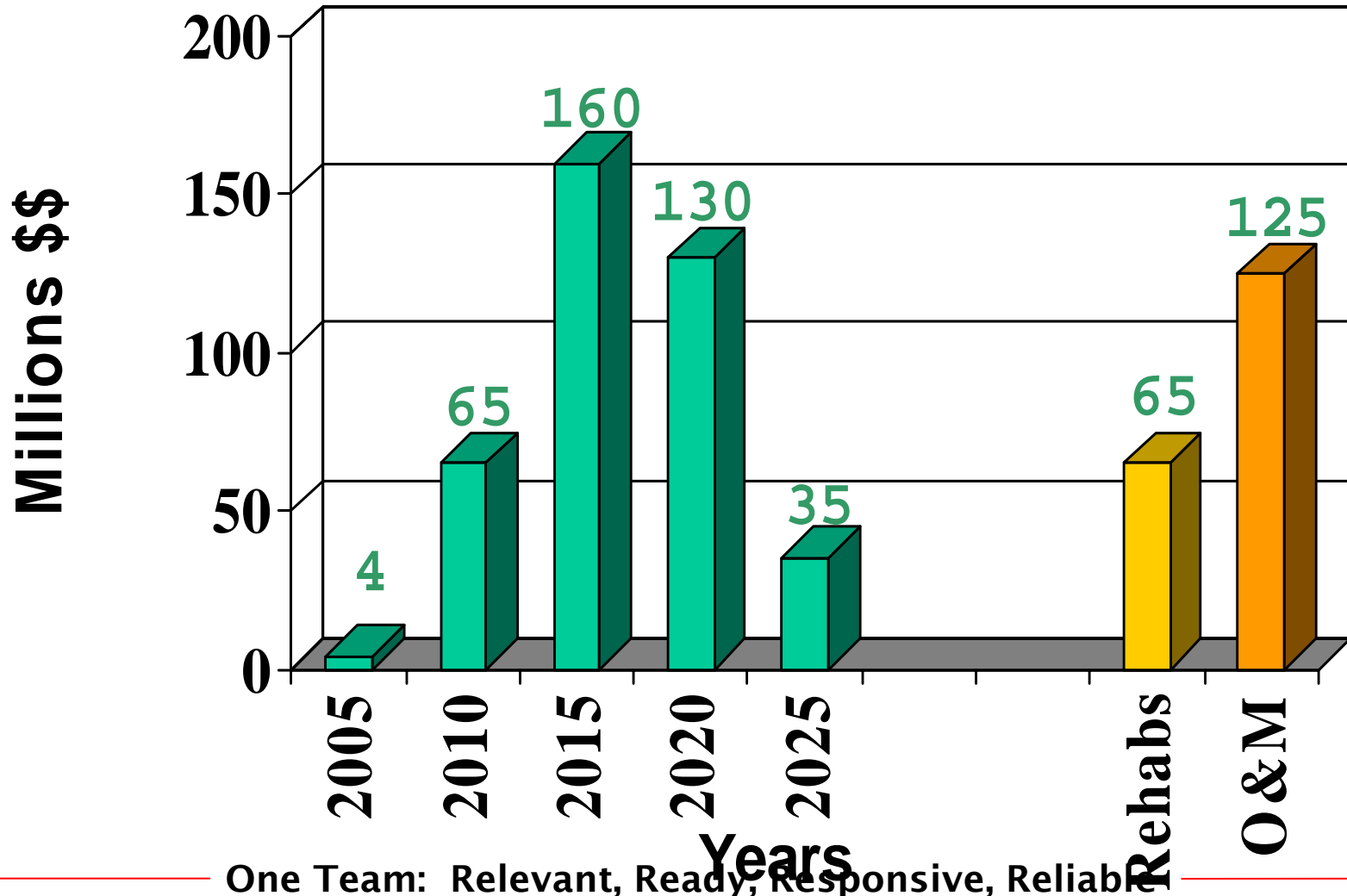


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Challenge: Funding Stream

Navigation Program Costs



One Team: Relevant, Ready, Responsive, Reliable



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Navigation Economic Technologies (NETS)



- **Goal:** Develop state-of-the-art tools and techniques for economic modeling and analysis
- **Team:** Representatives from seven universities, ORNL, TVA, Corps Centers of Expertise, IWR and US Naval Academy
- **Activities:** Modeling, data collection, knowledge base, peer review, and communications



***To seek long-term
sustainability of the economic
uses and ecological integrity
of the Upper Mississippi River
System***

