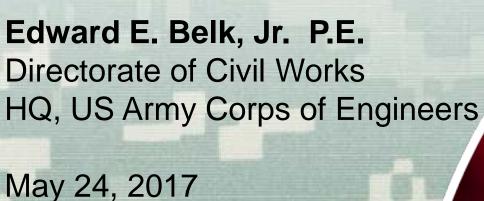
# **USACE Civil Works Update**





US Army Corps of Engineers
BUILDING STRONG®



## Current Political Landscape



The 58th Presidential Election and 45th Change in Administration Experienced by the U.S. Army Corps of Engineers In Our 241-Year History

How does a change in Administration influence USACE operations?

#### IMPACTS on REGIMENT / MIL-MISSIONS

- a. CHANGE is DOD GLOBAL PRESENCE
- b. FORCE STRUCTURE / MODERNIZATION
- c. POTENTIAL ENGR REGIMENT impacts
- d. MILCON / SRM / BRAC impacts
- e. SUSTAINABILITY / ENERGY impacts

#### IMPACTS on CIVIL WORKS PROGRAM

- a. Potential cuts in DISCRETIONARY funding = CW
- b. Potential INFRASTRUCTURE Package
- c. Impacts on EPA / NOAA / DOI policy
- d. Pressure for REGULATORY CHANGE
- e. SIZE of GOV'T / REGULATION impacts





## Securing Our Nation's Future Through Water



#### Navigation - Commerce, Intn'l Markets, Trade

USACE Operates 24,000 miles of Commercial Waterways; Generates \$18 B / 500,000 Jobs Annually; Supports 20% of US Jobs, 1/3 of GDP; Transportation = Decisive US Competitive Advantage

#### Flood and Disaster Risk Reduction

USACE Prevents > \$8 in Flood Damages per \$1 Invested; 14,700 Miles Levee → 12,700 Miles = Local O&M; 700 USACE Dams vs 87,000 National Inventory of Dams

#### Hydropower - Inexpensive, Sustainable

USACE is the Nation's Largest Renewable Energy Producer 25% of US Hydropower, 3% of Total US Electricity

#### **Drinking Water**

USACE Produces 6.5 Billion Gallons per Day

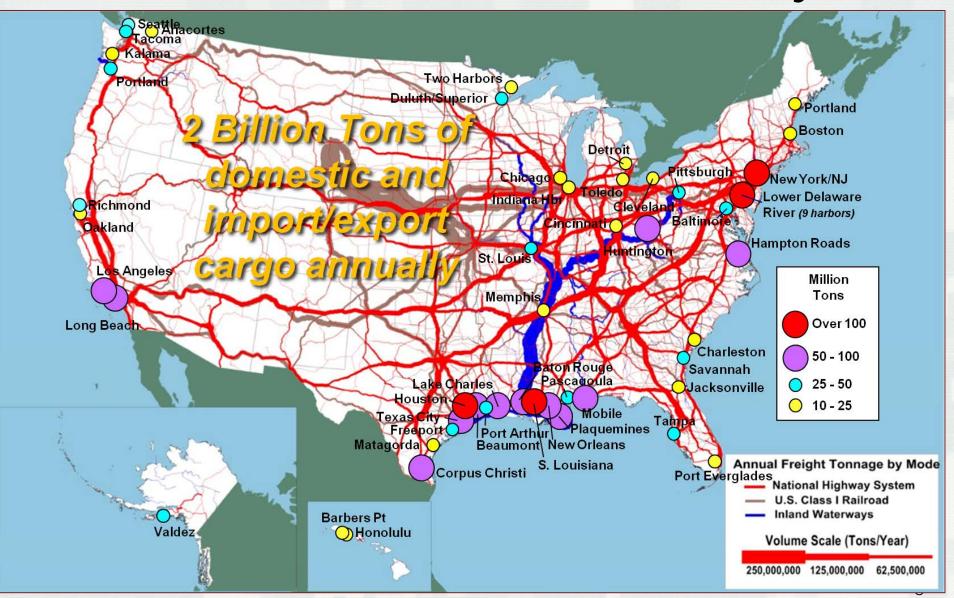
#### Quality of Life – Local Economic Engines

USACE is the No. 1 Federal Provider of Outdoor Recreation, Contributing > \$16 B to Local Economies

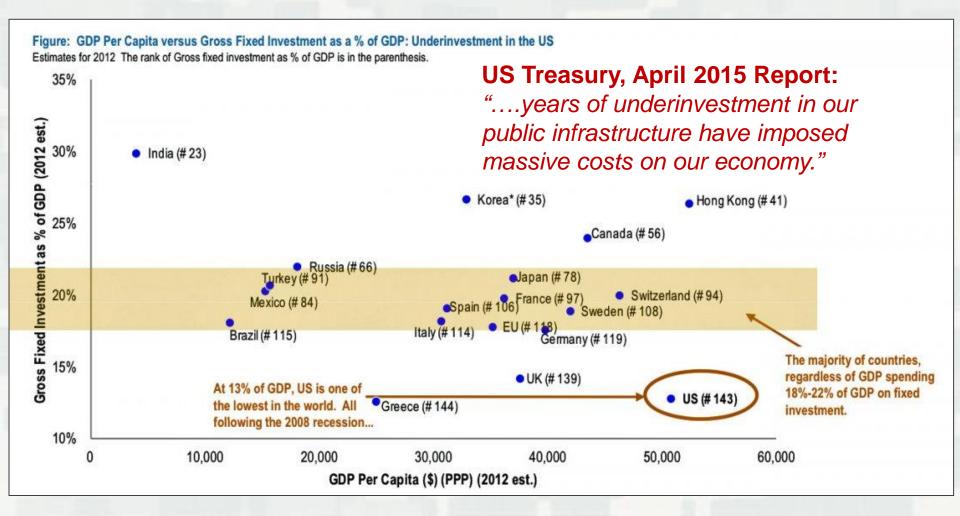




# U.S. Ports and Inland Waterways: Vital to our National Economy



## United States Relative to Other Nations





## Low Investment in Infrastructure



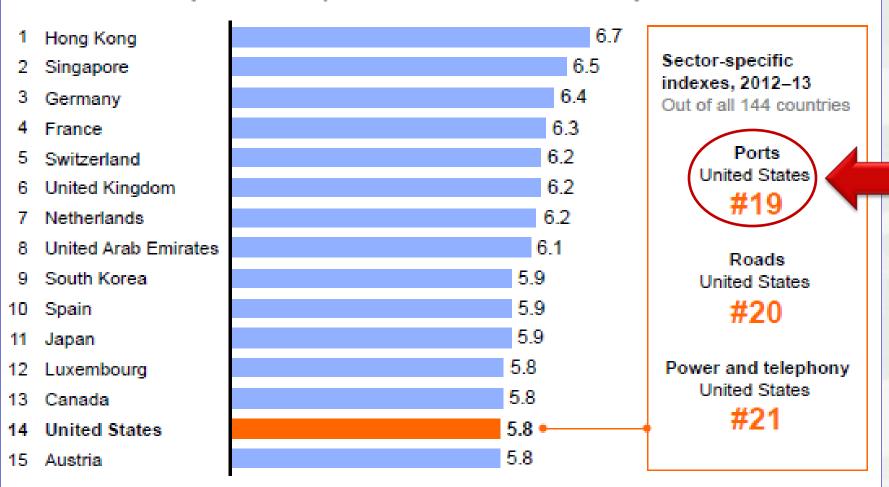
# Relative Quality of US Infrastructure

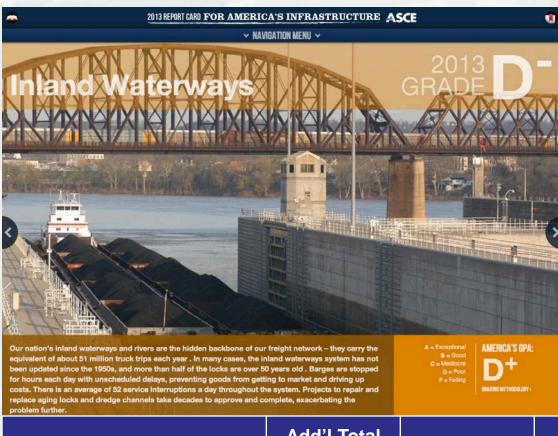
The World Economic Forum ranks US infrastructure behind that of most other comparable advanced nations

Overall infrastructure quality index, 2012–13 Top 15 of 144 countries

SOURCE: World Economic Forum; McKinsey Global Institute analysis

Scale: 1 = Extremely underdeveloped; 7 = Extensive and efficient by international standards





\$846B

Roads



877,000

\$930B

	Add'l Total Investment by 2020	Protects \$B in Exports	Protects \$B in GDP	Protects Jobs	Protects Personal Income
Waterwaye	\$16B	\$270B	\$697B	738 000	\$872B

	by 2020	III Exports		0003	Income
Waterways	\$16B	\$270B	\$697B	738,000	\$872B
Airporte	\$30B	\$54B	\$313B	350 000	\$361B

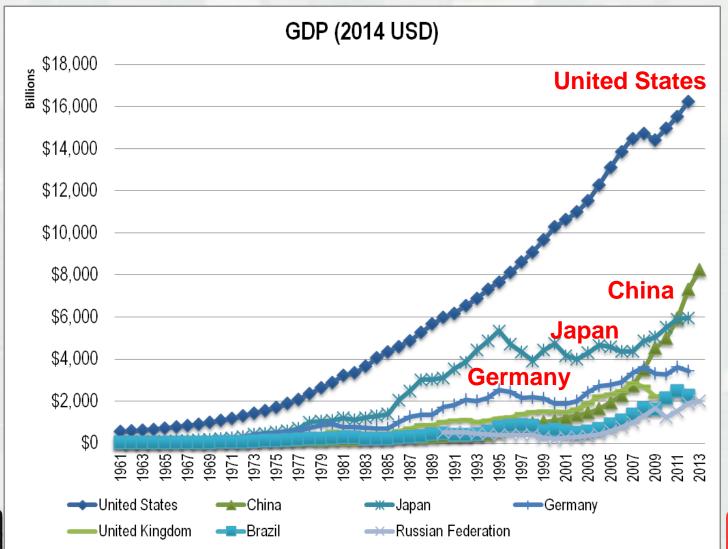
	Investment by 2020	in Exports	in GDP	Jobs	Personal Income
Waterways	\$16B	\$270B	\$697B	738,000	\$872B
Airports	\$39B	\$54B	\$313B	350,000	\$361B
Electricity	\$107B	\$51B	\$496B	529,000	\$656B

	by 2020	in Exports	in GDP	Jobs	Income
Waterways	\$16B	\$270B	\$697B	738,000	\$872B
Airports	\$39B	\$54B	\$313B	350,000	\$361B
Electricity	\$107B	\$51B	\$496B	529,000	\$656B
Water/Wastewater	\$84B	\$20B	\$416B	669,000	\$541B

\$114B

\$897B

# Comparison of Gross Domestic Product







# Challenges and Opportunities

- Infrastructure Investment = Global Challenge
- Corps Civil Works Portfolio: 3,000+ Operational Projects, with Replacement Value of Approx \$268B
- **Corps Civil Works Asset Classes are Diverse** 

  - Coastal and Inland Harbors Water Storage
  - Inland Waterways
  - Hydropower
- Flood & Coastal Storm Damage Dam & Levee Safety Programs

  - Aquatic Ecosystems
    - Water-Based Recreation
- **Demands for CW Infrastructure Maintenance,** Operations, and Capital Investment are Expanding
  - Civil Works New Construction Backlog → \$ 60B
  - ASCE: Dams, Levees, IWW's = "D" → \$140B
- **CW Infrastructure Systems Aging, Experiencing Negative Performance Trends Across Portfolio** (Serviced by ~\$4.6B Annual Budget Nationally....)









## Federal P3/P4 Challenges

## Payment Mechanisms, Availability Payments

► Inability to Make Commitments on Future Appropriations

## Budget Scoring

Scores Full Federal Project Cost Up Front in First Year

## Revenue Generation and Ring-Fencing

► Ability to Collect, Retain and Reinvest Fees/Charges

### Budgetability

 Prioritization of Projects Within Current Budget Policy (Benefit-Cost Ratio)

# Future Opportunities & Demands

- U.S. Population Projected to Increase by 110M in 30 Years
- Over 50% of US Population Located within 50 Miles of Coastline...Plus "Center Coast"...Flood Risk Management Implications
- U.S. Imports and Exports Projected to Increase Significantly
- Panama Canal New Locks Now Opening Worldwide Fleet of Post-Panamax Vessels to Increase
- Opportunities for Economically Justified Port Expansions
- Improving Grain Yield Trends and Improved Panama Canal Efficiencies → Increased Grain Exports
- Environmental Mitigation Activities Likely Significant
- Future Alternative Financing Opportunities,
   Where They Make Sense





# Closing Thoughts

- Addressing the Nation's Infrastructure Investment Gap is a Shared Federal, State and Local Responsibility
- The Corps Doesn't Deliver Anything by Itself... Critical that We Not Lose Focus on Our <u>Partners</u> and Our <u>Commitments</u>
- Navigation <u>Investment</u> is Essential for the Nation's Global Trade and International Competiveness
- Economically Justified FRM <u>Investment</u> Reduces Risk to Economic Activity, Lives, Livelihoods and Quality of Life
- Infrast <u>Investment</u>: Financial (and Generational...) Challenge
- Elevated Priority Afforded to Infrastructure Investment?



What are **YOUR** ideas?



