RIVERS INFORMATION SERVICES (RIS) BACKGROUND INFORMATION

Our Inland Marine Transportation System (IMTS) is largely an "on demand" system, operated on a component-by-component basis with large gaps in "visibility" of the system's overall operation and performance and no real "system" management.

We believe we can transform how navigation and development in the watersheds is done. Through RIS, both USACE and all watershed users will be able to take full advantage of the characteristics, features and capacities of our Inland Marine Transportation System.

Navigation will be safer and deliver products faster and more reliably. System conditions and transportation planning, interpretation and visualization services will be instantly available in real time.

Watershed decisions will be more readily visualized and consequences visualized with accurate, up to date information on marine transportation and freight flow, environmental and hydraulic conditions, and overall system performance based on new system-scale, multi-use metrics.

We intend to achieve that transformation by providing a suite of "services" based upon "key technologies" that will provide all watershed users with the ability to optimize their use of the watershed and provide the Big Data Evaluation, Predictive Analysis, and Visualization that turns existing data into Actionable Plans and Decisions.

That suite of services is found in PIANC initiative 125 – Rivers Information Services (RIS)

RIS KEY SERVICES
1. Fairway (navigation channel) information services
2. Vessel traffic information services
3. Traffic management
4. Calamity (collision/allision) abatement support
5. Law enforcement information
6. Transport logistics support
7. Statistics
8. Waterway charges and harbour dues (fuel tax calculation & verification?)

RIS KEY TECHNOLOGIES
1. Inland ECDIS (IENC/ENC)
2. Vessel tracking and tracing
3. Notices to Skippers (USACE NTNI & USCG NTM)

4. Electronic Reporting (to USACE and other agencies)
5. Reference Data
6. *Value added services* (Readiness "bubble chart"/Apps, etc.)

USACE RIS Status
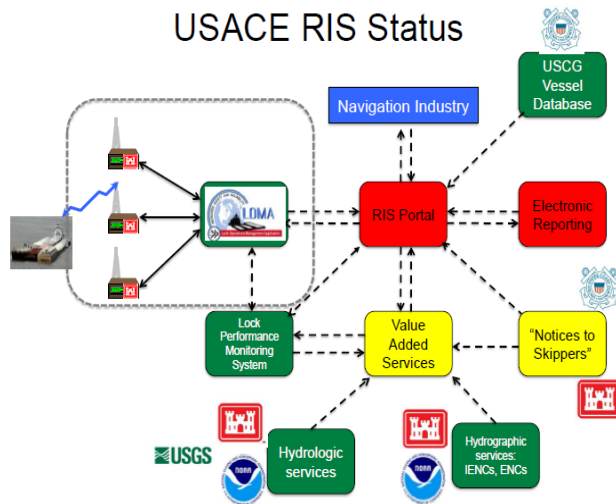
We envision a "Progressive Implementation Pilot Project" where services are identified, prioritized and developed. Following a trial period, the service is exported to all Districts in the IMTS and brought to maturity while another service is identified and developed.

We intend to do this with an RIS Team that consists of two groups, a Key Executive Group that will identify and prioritize RIS Services and a Key Technology and Services Group that does the actual development, test and export and then works with the Districts to mature the service while the next service is being developed.

Both groups will rely heavily on support and input from our stakeholders, other state and federal agencies and our Districts and Divisions, and waterway users.

The project endstate would be a user friendly, internet based suit of services sited and managed from a single location where all partners in the watershed can view shared, "harmonized" data that would go beyond the bounds of just river navigation to provide fully integrated evaluation, analysis, and actionable decisions for optimized, system-scale, water resources management.

RIS LEADERSHIP TEAM:
    Patrick Chambers
    Richard C. Lockwood
    Dennis O. Norris
    Brian Tetreault

Jeff Lillycrop 10/17/2016 9:06 AM
Comment [1]: Not sure we'll cover all aspects and all waters of the US? Can we say ….and actionable decisions for optimized, system-scale, water resources management?

Jeff Lillycrop 10/17/2016 9:11 AM
Comment [2]: Isn't this your IMTS team? Suggest you include more cadre members from across the organization so everyone is included. This is your leadership team.