



Port of Pittsburgh Commission

Mission

- Promote: The commercial use and development of the inland waterway transportation system and
- Integrate: That system into the economic, environmental, recreational and intermodal future of southwestern PA.

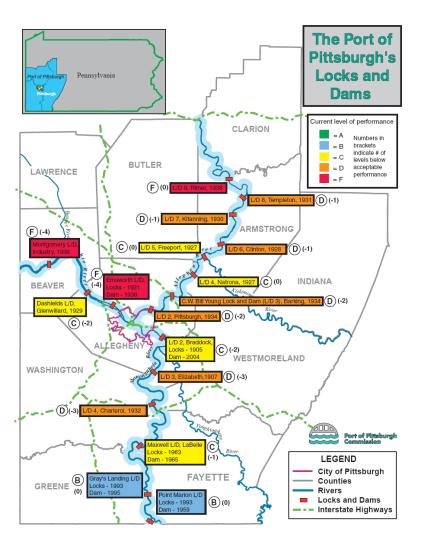
What We Do

- Economic Development
 - > Transportation Assistance
 - River-Site Location Assistance
 - PPC Loans, bonds, grants
 - Grant management for 3rd
 Parties including Port Security,
 Marine Diesel Repowers
- Technology Development
- Public Education Lock and Dam Needs

Does not own or operate facilities



Port of Pittsburgh Locks and Dams





Pittsburgh is 2nd Largest Inland Port in USA



What is the Wireless Waterways?



Wireless-Hybrid Broadband Systems

- Presently covering areas throughout 120 Miles of Pittsburgh 3 Rivers area
- Wireless-Wired Broadband Communications
- Cyber Security harden



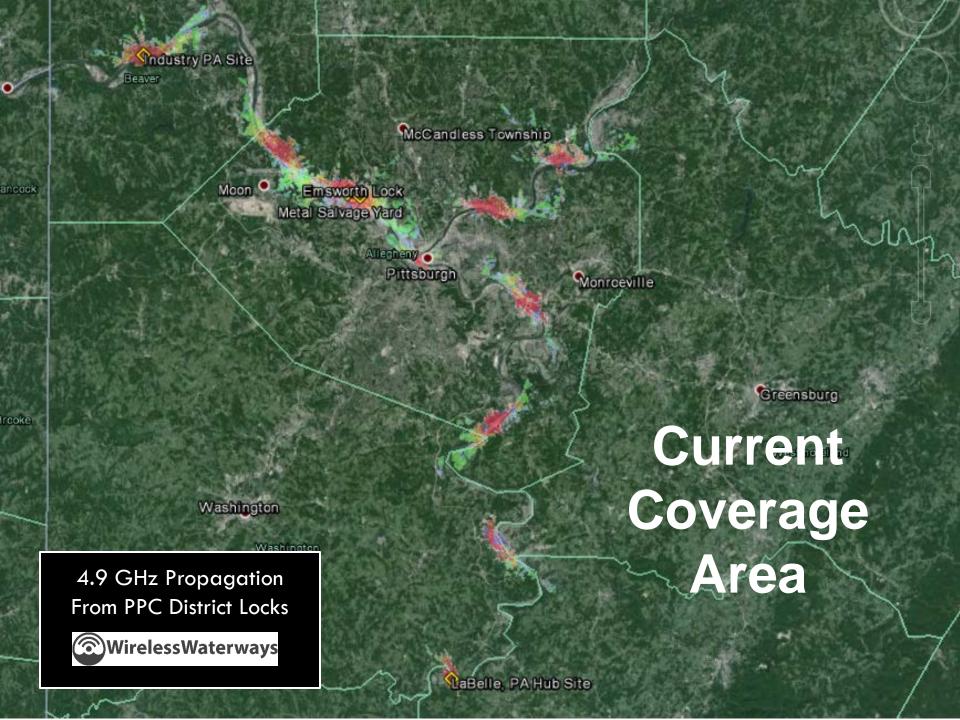
Maritime Situational Awareness Portal (MSAP)

- Track vessel info on Google Earth like display
- Website
- Environmental Info Overlays including weather, depth, water quality info



Wireless Waterway Interoperability Test Bed (WWITB)

 Living laboratory used to test hardware and software technologies and products in a river environment





Birth of the Network

- AMSC recognized the need to bring the MTSA facilities and other critical locations
- Had all sites recognized as critical infrastructure for port area – no way to bring those locations back under an umbrella that could provide safe security data capabilities



Network Needs

- Critical Infrastructure
- Security, Safety, Emergency Response
- Data Gathering
- Navigation, Environmental, University, USACE, Dept.Of environmental Resources.



IN NETWORK CHALLENGES

- Problems and challenges
 - Security vs Accessibility
 - With other problems being borne through cyber intrusions, cyber security an important aspect of network design.
 - Cyber Security Evaluation Program
 - > US Dept. of Homeland Security, Cyber Security Division
 - Blueprint and roadmap for Cyber Security for WW Network



What's Next

- Envisioned Wireless Waterways
- Scalable architecture allows growth to other areas including other port districts
- Network will bring connectivity and services including domain awareness and other applications to areas in need –
- > Ultimate goal is to tie in whole inland river system.





Envisioned Wireless Waterways

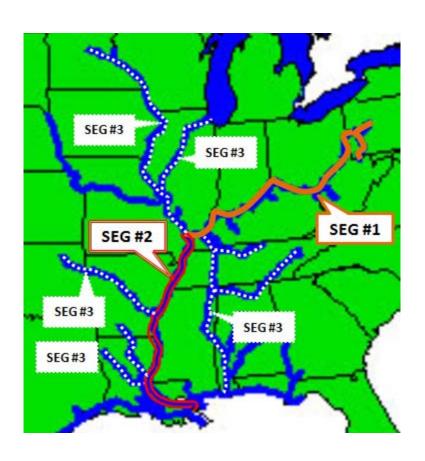
Scalable Basis to be grown to other areas including other port areas

Projection somewhere down road network will bring to those areas in need of connectivity and services including domain awareness and other applications – goal is to tie in whole inland river system.

Network Growth



FUTURE EXPANSION



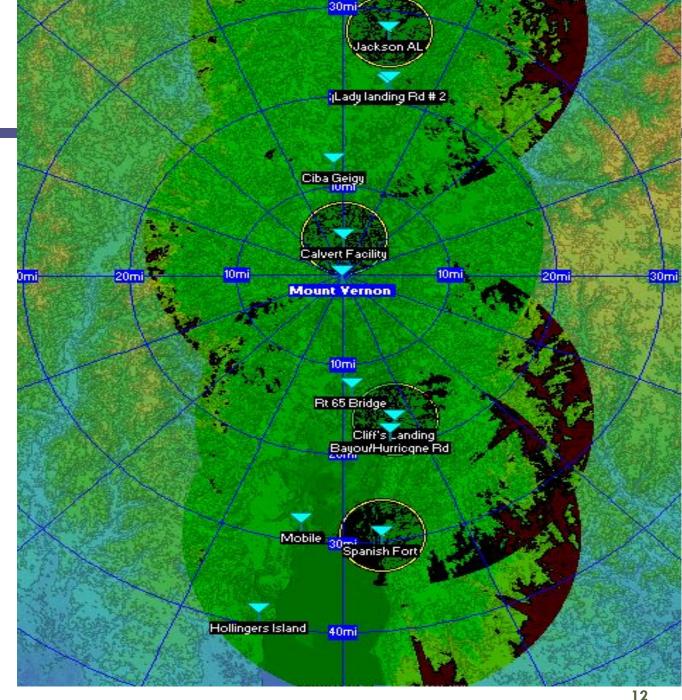
Description	Coverage(mi)	Locks	Site Qty
Segment 1: PPC and Ohio River Only			
PPC Area - Allegheny, Monongahela, PA part of OH,	120	14	
Total PPC Area of Responsibility	120	14	29
Total Ohio River	950	21	137
Total Segment 1	1070	35	166
Segment 2: Lower Mississippi	970	0	
Total Segment 2	970		130
Total Segment 1 and Segement 2	970	35	296
Segment 3: Upper MS, IL and Chicago Rivers			
Upper Mississippi	29	29	29
Illinois River & Chicago River	9	9	9
Red River	5	5	5
Mc-Kerr Arkansas River Nav System	18	18	18
Ouachita and Black Rivers	4	4	4
Old River	1	1	1
Tenessese River	9	9	9
Tennesse-Tombigbee Waterway	10	10	10
Total Segment 3	85	85	85
Entire System Total Segement 1, 2 & 3	2,125	120	381

August 26, 2014



Tennessee -**Tombigbee** River

Jackson to Mobile White Space Coverage



August 26, 2014

QUESTIONS?

CONTACT Info.

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