



US Army Corps
of Engineers®
Philadelphia District

FINAL AGENDA

Engineering With Nature and USACE Philadelphia District Collaborative Meeting

Tuesday, June 7, 2016 (8:00 a.m. – 5:00 p.m.)

Dinner – 6:00 p.m. (LaScala)

Wednesday, June 8, 2016 (8:30 a.m. – 5:00 p.m.)

USACE Philadelphia District

100 Penn Square East

Emergency Management Training Conference Room 621

Organizers:

Ken Goldberg, Philadelphia District
Monica Chasten, Philadelphia District
Todd Bridges, ERDC
Cynthia Banks, ERDC

Facilitators: Sarah Thorne and Barb Sauder, Decision Partners

Participants: Participants will include a cross section of people from the Philadelphia District, including those responsible for project management, operations, engineering, planning, regulatory, environmental, etc. Their collective work will represent specific mission areas served by the Philadelphia District. They will be joined by members of the EWN Leadership Team and ERDC subject matter experts.

Meeting Purpose: The purpose of the meeting is to introduce the Philadelphia Team to the principles and practices of EWN and progress to date, then, following the first step of the EWN Implementation Process: a) identify opportunities for EWN-based solutions and b) prepare a detailed Opportunity Discovery for the highest value solutions identified.

The opportunities identified will span the full spectrum of Philadelphia District's missions and projects (i.e. Civil Works -- Navigation, Flood Risk Management and Environment; and Military).

Objectives:

The objectives for the collaborative meeting are to:

1. Provide an overview of the development of EWN, review progress to date and the path forward.
2. Discuss Philadelphia District opportunities and challenges with respect to applying EWN
3. Using tools developed to guide EWN project teams, identify specific EWN-based opportunities
4. Prepare a detailed Opportunity Discovery for the highest value solutions
5. Provide feedback on the use of the implementation tools for the first step in the EWN Implementation Process
6. Discuss requirements for success and next steps, including plans to complete **Step 1: Opportunity Initiation**

Time	Tuesday, June 7, 2016 (Day 1)	
8:00	Registration	
8:30	Welcome and Introductions <ul style="list-style-type: none"> • Welcome • Around the table introductions • Overview of the collaborative meeting purpose and objectives • Implementing EWN in the Philadelphia District – Introducing the challenge and the opportunity 	<ul style="list-style-type: none"> • LTC Michael Bliss • Decision Partners • Ken Goldberg and Monica Chasten
9:00	Overview of EWN and Accomplishments to Date (~15-min briefs) <ul style="list-style-type: none"> • EWN Overview • Coastal Resilient Systems • Marsh Restoration of Coastal New Jersey • Natural and Nature-Based Features • Regional Sediment Management in NAP • Habitat Enhancement of Infrastructure 	<ul style="list-style-type: none"> • Todd Bridges • Julie Rosati • Candice Piercy • Todd Swannack • Monica Chasten • Burton Suedel
10:45	Break	
11:00	Overview of EWN ‘Proving Grounds’ <ul style="list-style-type: none"> • Galveston District • Buffalo District 	<ul style="list-style-type: none"> • Eddie Irigoyen • Tony Friona
12:00	Lunch	
12:45	Opportunity for EWN in the Philadelphia District <ul style="list-style-type: none"> • Overview of the Philadelphia District’s mission areas, issues, challenges and opportunities • List key initiatives • Discussion of pre-meeting assignment • Discussion of the four EWN elements, how to begin implementing them into projects and identifying key stakeholders (emphasis on partners) • Discuss the Breakout Group assignment -- Step 1 – EWN Opportunity Discovery 	<ul style="list-style-type: none"> • Monica Chasten and Team • Decision Partners
1:45	Break – Transition to Breakout Groups	
2:00	Breakout Session - EWN Opportunity Discovery (Assignment #1) <ul style="list-style-type: none"> • Breakout Groups work on Assignment #1 using worksheets <p><i>Task: Identify opportunities, potential EWN demo projects and/or current projects that could/do incorporate EWN principles; prioritize. Develop an Opportunity Statement for the top priority opportunity.</i></p>	<ul style="list-style-type: none"> • Facilitated Discussion

4:00	Plenary – Breakout Groups Present Top Priorities <i>Task:</i> Each group presents its list of the top 5 – 6 priorities identified and their Opportunity Statement for their top priority.	• Facilitated Discussion
4:45	Wrap-Up <ul style="list-style-type: none"> • Comments and questions • Recap accomplishments of Day 1 • Overview of agenda for Day 2 	• Decision Partners
5:00	Adjourn Day 1	
6:00	Optional Dinner	LaScala

Time	Wednesday, June 8, 2016 (Day 2)	
8:30	Overview of Day 2 <ul style="list-style-type: none"> • Address comments and questions from Day 1 • Review agenda and desired outcomes for Day 2 • Discuss Breakout Group assignment for the next segment 	• Decision Partners
8:50	Break – Transition to Breakout Groups	
9:00	Breakout Session - EWN Opportunity Discovery Opportunity #1: <ul style="list-style-type: none"> • Breakout Groups complete Assignment #2 for their top EWN opportunity <i>Task:</i> Use the worksheets provided to develop their top priority EWN Opportunity	• Facilitated Discussion
11:00	Plenary – Breakout Groups Share Opportunity #1 <ul style="list-style-type: none"> • Each group presents their top priority Opportunity (15 minutes each) 	• Facilitated Discussion
12:00	Lunch	
12:30	Breakout Session - EWN Opportunity Discovery Opportunity #2: <ul style="list-style-type: none"> • Breakout teams develop their Opportunity Statement for Opportunity #2 then complete Assignment #2 using worksheets <i>Task:</i> Work up a detailed Opportunity Discovery for the second highest priority identified in Assignment #1 <ul style="list-style-type: none"> • Breakout Groups complete Assignment #2 for their second highest EWN opportunity <i>Task:</i> Use the worksheets provided to develop their second highest priority identified in Assignment #1.	• Facilitated Discussion
2:45	Break	

3:00	Plenary – Breakout Groups Share EWN Opportunity Discovery <ul style="list-style-type: none"> • Each Breakout Group presents their second highest Opportunity (15 minutes) • Plenary discussion • Summary discussion of collaborative meeting results 	<ul style="list-style-type: none"> • Facilitated Discussion
4:15	Wrap-Up <ul style="list-style-type: none"> • Discussion of path forward, next steps on the opportunities identified • Feedback on the meeting • Closing Thoughts 	<ul style="list-style-type: none"> • Decision Partners • Ken Goldberg • Monica Chasten • Todd Bridges
5:00	Adjourn Day 2	

Pre-Meeting Assignment:

1. Review the 'Introduction to EWN' (shown below).
2. Bring at least one idea to the meeting to collect, review, and distill into a general set for group discussion on where/why/when/how we might be able to act on EWN opportunities.

Introduction to EWN:

Pursuing the objective of sustainable development of water resources infrastructure poses both challenges and opportunities for the U.S. Army Corps of Engineers (USACE). Advancing our practices involves identifying the practical actions that can be taken to better align and integrate engineering and natural systems to produce more socially acceptable, economically viable and environmentally sustainable projects.

The USACE Engineering With Nature (EWN) Program supports more sustainable practices, projects, and outcomes by working to *intentionally align natural and engineering processes to efficiently and sustainably deliver economic, environmental and social benefits through collaborative processes* (www.engineeringwithnature.org). EWN's focus on developing practical methods provides an achievable path toward an ecosystem approach to infrastructure development and operations. Consequently, EWN principles and practices can and are being applied across multiple USACE missions and business lines.

There are four elements critical to the success of EWN projects:

- 1) Advancing sound science and engineering to improve operational efficiency;
- 2) Using natural systems and processes to maximize the benefits;
- 3) Broadening the benefits of the project – economic, environmental and social; and
- 4) Using collaborative processes to engage stakeholders throughout the project.

USACE has a long history of implementing some of the elements of EWN in its projects. Today, the EWN Leadership Team is focusing attention on these successes and enabling expansion of this approach to challenges and opportunities across the USACE. The USACE and its partners are looking for opportunities to draw together leading practices while expanding and leveraging those practices to seek a broader range of opportunities to apply EWN. With the support of LTC Michael Bliss and DPM Ken Goldberg, the Philadelphia District committed to serve as a “proving ground” as we expand EWN across the USACE, EWN principles and practices within its projects and programs.

Our strategy for the first five years was to expand the application of EWN principles and practices across USACE business lines and mission areas by first engaging internal leaders and early adopters and then reaching out to our external partners and stakeholders and effectively collaborating with them to establish and achieve common goals. We drew on leading practices in science-based strategic risk communication¹ along with other leading social science practices to do so.

Building on the success of the first five years, our Vision for EWN over the next five years is:

- To systematically integrate EWN principles and practices into USACE culture by continuing to expand its application across our mission areas, while actively demonstrating and communicating its value.
- To broaden and deepen engagement, participation and collaboration with colleagues across USACE mission areas and divisions, and with key agency partners and stakeholders.
- To formally engage with other organizations on EWN-focused R&D, training and education.

¹ Strategic Risk Communication is a purposeful process of skillful interaction with stakeholders supported by appropriate information. It is an essential component of integrated risk management. Strategic Risk Communications helps decision- makers and stakeholders make well-informed decisions and take appropriate actions.