Understood areas of ICE PPR SAWG Focus:
• Sensors/Source of Information
• Processing Capabilities
• Info Systems for Storing
• Bathy/Coastline (EWG collects)

Introducing your U.S. SAWG Partners...

U.S. ICE PPR SAWG Delegation

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U.S. ICE-PPR SAWG Points of Discussion

• U.S. ICE-PPR SAWG: A network of networks across U.S. military operations, Defense and Security Research Centers and even the now the likelihood of U.S. National Laboratories.

• Developing a Working Group Term of Reference

• Meeting Quarterly as desired by Danish Lead and strive as a U.S. Delegation to meet at least 1-2 times between quarterly meetings.

• Design of an overall working group framework. Creating “pillars” & “tiers” oriented to either geography, function and/or mission?

• Interconnectedness to other working groups?

• Designing a few examples of Project Agreements?

• Using a web portal to stay connected and facilitate intercessional work?

• Striving for a few quick wins?

• Being good team players...
U.S. ICE-PPR SAWG...a quick look at the Current Team

Included:

• Office of Naval Research
• OPNAV N26
• NAVEUR
• NAVSEA
• NG(I)A
• CRREL
• USCG Pacific Area
• ADAC
• Sandia National Labs (Just added)

What this translates to:

• U.S. Navy’s Fundamental and Applied Research Community
• HQ U.S. Navy Domain Awareness Community...oriented to Information Warfare and Maritime Information Services
• HQ U.S. Navy Europe Domain Awareness Subject Experts
• Naval Sea Systems field activities providing the engineering, scientific, technical and logistical expertise, products and support to the Fleet
• NG(I)A Maritime Community of Practice (MCoP), oriented to the Arctic and Polar Regions & domain awareness
• U.S. Army Corps of Engineering Laboratory supporting the Army cold regions warfighting...and much more.
• Science and support to U.S. Coast Guard in the Polar regions
• DHS S&T University Program Network of Arctic S&T operationally focused researchers
• National Laboratory advancing Arctic S&T research
A discussion on framework in organizing SAWG collaboration

Domain Orientation:
Aggregated existing capabilities matrixed to gaps and needs oriented to “Pillars” aligned to:
• Sea-bed to Ocean Surface
• Surface
• Air
• Space
• Cyber

Collaboration seeks to close the various domain shortfalls and gaps.

Key Missions Tiered Orientation:
Array of defense and security missions matrixed against known/understood shortfalls & gaps...oriented to:
• Mission profile
  • Peacetime missions (SAR/HA/DR)
  • Crisis contingency
  • Conflict/Warfighting
• Operating medium/environment
• Current and anticipated conditions

Collaboration develops a suite of key solutions and associated needs to close the shortfalls & gaps.
A starting point for thinking about Situational Awareness shortfalls and gaps

- Communications
- Sensors/sensing networks...including radar/radar systems
- Undersea terrain/bathymetry
- Characterizing/forecasting weather and the physical operating environment
- User defined operational/spatial awareness
- Information sharing at the “speed of need”
- Understanding the change dynamics, particularly at fine scale
- Understanding/characterizing non cooperative (non-transponding) vessels and platforms
- Knowledge of how to respond in polar regions for maritime missions in comparison to lower latitudes (e.g., marine pollution response in ice laden regions is likely considerably different than non-ice-covered spaces
- Grey Zone activities...what is/is not a threat or concern?

Some aspects to discuss
- Polar over the horizon radars
- High Latitude Comm Studies
- Rising numbers of polar orbiting satellites
- Satellite Derived Bathymetry
- Ice Conditions mariner indexes
How to proceed...perhaps starting with a group wide effort in understanding our “mission”?

- What is our “responsibility” vs our “interest” as a working group?
- What are shared understandings of focus areas...near vs longer term?
- Are there some natural lines of efforts we would want to pursue in subgroups?
- What are some reasonable expectations and goals to consider?
- What are the aspects of sensitivities to be aware of between delegations?
- What mission needs in situational awareness that remain unclassified?
- As a reminder...social networks aid situational awareness as well...what can we learn here?
- In the Arctic region...**what can we learn from indigenous communities and traditional knowledge that aide Situational Awareness?**
  - Co-production of knowledge is normalizing across Arctic Research...and we need to find a way to connect this to our endeavors as workable
What we aim for as the US ICE-PPR SAWG

- Sharing what we are learning across our diverse team with our multi-national partners
  - Grow a bigger tent of trust...
- Gaining insights to what our multi-national partners are learning
- Make it honest and real...and avoid activities that are simply going through the motions
- Look for collaboration, experimentation and multinational opportunities
  - COVID-19 is going to slow things a bit...
- Leverage service training and readiness activities for ‘incidental benefit’ to ICE-PPR
- Draft the SAWG TOR before the Executive’s Meeting in the Fall?
- Establish 1 Project Agreement before Spring 2021?
Ready for discussions