**2-3 November, 2023**

**Day 1 – AGENDA**

**Introduction: The Why?**

Planetary scale changes in climate are resulting in rapid arctic environmental change which includes the thawing of large tracts of permafrost soils. Permafrost is a reservoir of mostly uncharacterized microorganisms and viruses several of which carry the potential for pathogenesis through either direct or indirect pathways. Our current knowledge of permafrost-resident microbes is limited and we lack a foundational basis on which to assess risks to operations in polar regions. The Permafrost and Pathogens (PFP) working group brings together military operators, medical professionals, academic scientists and cold regions engineers to establish a knowledge baseline from which the implications for human health and the sustainment of operations in the new Arctic environment can be assessed and developed.

This workshop is an unclassified working forum and will utilize the Chatham House Rule to protect participant identities. ***Discussion may be up to Sensitive but Unclassified (SBU), which includes Law Enforcement Sensitive but should NOT include classified information***. Classified side discussions will be available to cleared individuals.

**Purpose of Day 1:**

* Identify state of current knowledge relevant to DOD operations;
* Identify potential challenges to operations;

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| 0800-0930 | **Registration/Badging/Coffee  *Please account for time to allow badging.*** |  |
| 0930-0950 | **Welcome and Opening Remarks** | Drs. Jill, Lil and Robyn  N/NC Sugeon General Office Rep |
| 0950-1000 | **Logistics** | PNNL |
| 1000-1030 | **PARTICIPANT ORIENTATION**   * Introduction to Leads, Quadrants and Quadrant Moderators. * Methodology of the Workshop (QED What is it?) — Rapid Q and A. * Ensure common understanding of lexicons (refer to Vocabulary Sheet). * Why are we doing this? | Team Leads |
| *1030-1045* | ***Catered Break*** | |

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| **Phase 1 - What is the Status Quo?** | | |
| 1045-1130 | **Call Outs—Collective Brainstorm**  Quadrants to identify:   * Microbial Distribution and Diversity. * Data Repositories: who’s doing the work? * Pathogenesis * BoK Relevance to DOD Operations. | What do we know (Body of Knowledge), what are we worried about, what are our gaps and what are our priorities for closing them?  Team Leads and Quadrant Moderators |
| 1130-1145 | **Summary of Session** | |
| *1145-1245* | ***Working Catered Lunch***  ***During lunch, we will conduct a Pareto/N3 prioritization exercise vis a vis closing knowledge gaps, at the participants leisure.***  **Severity** (impact on operations) – Red (most severe); Orange (moderately severe); Green (least severe).  **Urgency** for Action – Yellow (now); Blue (0-5 years); Brown (5-10 years); Black (10+ years).  **Priority** (Overall): Modified “fish eye” dot – the highest priority to be addressed. | |
| **Phase 2 – Threats to Operations** | | |
| 1245-1345 | **Call Outs—Collective Brainstorm**  Identify specific operations that could be impacted/affected by pathogenic microbes | Team Leads and Quadrant Moderators |
| 1345-1400 | **Summary of Session** | |
| 1400-1500 | **Prioritization for Mitigating Operational Impacts**  **Severity** (impact on operations) – Red (most severe); Orange (moderately severe); Green (least severe).  **Urgency** for Action – Yellow (now); Blue (0-5 years); Brown (5-10 years); Black (10+ years).  **Priority** (Overall): Modified “fish eye” dot – the highest priority to be addressed. | Team Leads and Quadrant Moderators |
| *1500-1515* | ***Catered Break*** | |
| 1515-1545 | Ad hoc issues addressed |  |
| 1545-1645 | **Day 1 Wrap Up** |  |

**Day 2 – AGENDA**

* **Purpose of Day 2:** Prioritize challenges in operations that can drive requirements.

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| 0800-0900 | **Registration/Coffee** |  |
| 0900-0930 | **Summary of Day 1** |  |
| **Phase 3 - Meeting the Challenges** | | |
| 0930-1045 | **Call Outs—Collective Brainstorm**  What are our current, applicable requirements? What our requirement gaps for mitigating operational impacts? | Solutions—do we have them now? If not, how do we get to understanding which ones are needed?  Team Leads and Quadrant Moderators |
| 1045-1100 | **Summary of Session** |  |
| *1100-1115* | ***Catered Break*** | |
| 1115-1215 | **Prioritization of developing and closing requirement gaps.**  **Urgency** for Action – Yellow (now); Blue (0-5 years); Brown (5-10 years); Black (10+ years).  **Priority** (Overall): Modified “fish eye” dot – the highest priority to be addressed. | Team Leads and Quadrant Moderators |
| *1215-1315* | ***Working Catered Lunch*** | |
| **Phase 4 – Use Case** | | |
| 1315-1330 | **Summary of Session** |  |
| 1330-1350 | **Overview and dissusion of workshop results.** | Team Leads and Quadrant Moderators |
| 1350-1400 | **Closing Remarks** |  |