Question #	Day	Question	Answer
1	Wednesday	CLOSING INFO: IMO team will be releasing an RWP for Direct Energy Test or DET and is intending on doing an Industry Day?	We hope to hold this in Feb/Mar, so keep an eye out for more information on this opportunity and event.
2	Wednesday	Trung can you please expand on the gatekeeper criteria later? You mentioned I'm starting a very low TRL. Due to funding type, I believe TRL 3 is the lowest you can start development. Can you confirm and/or clarify?	TRL 3 is the lowest starting point for an effort under EWT's type of funding.
3	Wednesday	On EO Database Tech, are there example input data available that a vendor that provide potential test data? request test input data from which to generate scenes...	For the development of the technology and demonstration, commercial data is fine. As the effort demonstrates maturity towards a prototype, the Gov team will coordinate with end-users for applicable data for a specific test application to demonstrate TRL 6 for the prototype.
4	Wednesday	RF domains-- only airborne / IADS focused or interested in space sensors as well?	EWT is very broad and not limited in IADS or only airborne. Space has a lot of EW systems. Space TTA being set up. There is crossover. EW Space attack and support has direct correlation to EW efforts outlined within this RWP effort.
5	Wednesday	After an analysis of cost, risk and timelines for testing solutions in which the prototype needs to also be subjected to a high G environment, will funding be available to reach TRL-7 for the purpose of this OTA?	It depends. If Topics 5 & 6 in RF Domain then yes. Can start at 6 or 7 and go higher but for the other topics they do not go beyond TRL 6. Based on end-user feedback, may include some robustness into prototype. If it's going to be a stand alone prototype, may be beyond a test prototype to see if it can last for several years outside the lab. If it's a technology that feeds into a current project such as CTEIP, then we would not go much beyond TRL 6; just demonstrate it can do what it is designed to do and transition to that program.
6	Wednesday	Will the details of NEWEG design be available in order to propose solutions that interface to that? Or to improve that?	Details of NEWEG Deisgn will not be made available. Open architecture is key. The Need is open so there are no interface or integration issues. NEWEG team representatives will be involved early on for transition and integration of successful proposals.
7	Wednesday	All these capabilities needed for EW Testing should also be dual use for EMSO (Electromagnetic Spectrum Operations) training. Is T&E coordinating with P&R to capture EMSO Training requirements that match the EW testing requirements?	The primary focus of EWT is to satisfy T&E requirements. If our efforts can provide benefits to the trainning communities, then it's a collateral benefit. The prototypes developed by EWT will transition to a test end-user, not a training end-user.
8	Wednesday	What is the need and/or desire for a capability to emulate or detect threat DE systems?	We currently do not have a requirement for this in EWT.
9	Wednesday	Are the eval criteria in order of importance or will it be "best value" of all three?	Best Value
10	Wednesday	Are multiple awards planned per topic?	Each topic area has the potential for multiple awards. It is dependent upon funding, solutions, need.
11	Wednesday	What security classification level is envisioned for the EWT program?	Projects themselves will be unclassified, but there may be a need to have up to SECRET classification level discussions to execute and transition the work.
12	Wednesday	is there a budget for each topic?	No. Dependent upon solutions that come in. There's an overarching funding profile for EWT.
13	Wednesday	When will the Q&A be posted?	Soon.
14	Wednesday	For RF Topic #1, Trung said that the focus was creating an RF front end using open architecture and mentioned NEWEG. How is this different from the TReX RFGEN SDI project awarded in SEPT 2021?	We have no info on the TReX RFGEN SDI effort. The RF Topic #1 is searching for advanced technologies to push beyond the current capabilities.
17	Wednesday	How long before you envision a decision on path to pursue a topic area and start an award process? E.g. when will the timeline start?	There are many factors that can effect the timeline. It is difficult to predict when the timeline will begin.
18	Wednesday	EW Arena Prototype Technology: Would it be possible to share the specifications of the current capability that you pointed	No. The focus of this topic is on advancing technologies at the subsystem level. Once we can demonstrate that the subsystems can meet/exceed performance to enable the many on many RF environment then we can look at integration/interfacing into the EW Arena.

19	Wednesday	The current NEWEG system is called out in recent sole source awards as being a proprietary Northrup Grumman design. How will the government address the need for open architecture solutions when the underpinning system is not open? Has the government directed NGC to provide a non-proprietary TDP for the NEWEG system?	NEWEG is government-owned, and multiple vendors are delivering NEWEG components.
20	Wednesday	For Topics 5 and 6....is the focus primarily on the RF physical layer, or does it also extend to 5G (or LTE/3G) network layers...?	Yes. Includes everything. Specifically calls out 5G b/c this is where the funding comes from, but does have ability to extend to other network layers as not all adversary countries are running a 5G network. Therefore these legacy networks still need to be accounted for and considered with development efforts.
21	Wednesday	For topic 2 - Rapid Eo Database tech, what is the ideal trl level? It works for the commercial environment however, for DoD, it will take some adjustments	To finish the development, it would be at TRL 6. May need to visit specific cases. If it's standalone technology then will consider going to TRL 6+ to make sure it is robust enough to support tests without end user needing to spend dollars to make it robust for long-term use.
22	Wednesday	Who should we talk to learn more about the IR Scene Projector requirements?	The topic in the RWP has the details with performance specification goals as well as examples of use cases.
23	Wednesday	Reference the need for real-time, high-fidelity, high-density RF Signal Generation: How is RF signal generation currently done and what are the main limitations? Please provide information on expected types and densities of targets in a typical RF scene. What frequencies and bandwidths are needed? What is your definition of "High-Fidelity"? How do you desire the solution to interface with your existing simulation framework?	The current Topic provides a list of specifications to judge new technology proposals. There is no need to rehash current state of the art. The vendor should propose the signal types and densities their technology enables.The vendor should propose what frequencies and bandwidths their technology enables. The vendor should provide interfaces their technology supports.
24	Wednesday	Will individual technology or domain RFIs be posted with defined requirements or statement of work of what's being sought?	The current Topics provides a list of specifications to judge new technology proposals.
25	Wednesday	Are you looking for capabilities that can deter/disrupt adversarial operations through radio communications? If so, are you only looking for solutions in operations or are you looking for solutions for training and exercises? And which topic would that fall under?	Gate keeper criteria is T&E and looking for solutions to test those capabilities. Invest in the T&E of those capabilities.
26	Wednesday	What is the total available funding the for portfolio?	$10-18M/yr
27	Wednesday	Are there some topics more critical than others for EWT?	There are priorities driven by need timeline and/or program seeking the test technology. The number associated to the criteria/tech areas are not referencing rank.
28	Wednesday	Outside of the Gov. reviewers, who has access to the white papers'? Can the submission team restrict access to Government employees only?	White papers are evaluated by Government employees and contractor subject matter experts with appropriate NDAs.
29	Wednesday	Does EWT facilitate transition to an adopting agency for transition to TRL-7 or higher?	EWT supports transition at TRL-6, and other funding lines may mature the technology beyond TRL-6.
30	Wednesday	good question about transition S&T to TRL 7 and above. Trung needs to re-emphasize the customer base (MRTFB) and the process on how the DoD T&E community makes those decisions.	The customer base includes MRTFB, but also other test centers. Transition partners are involved early in projects, and each have their own criteria for transition.
31	Wednesday	I did not hear much on AI/ML and effect of T&E contribution requirements, or gap areas. Is there any collateral on those topic areas as related to RF T&E? Or is that out of scope? (was not part of the 8 RF topic areas).	AI/ML as it relates to different topics is not out of scope, especially if the offeror demonstrates in their proposal that AI/ML are required for maturing technology for applications.
32	Wednesday	FOCI: If a company is Canadian and in the process of getting their JCP and clearance to work with the US government, can they still submit a solution?	Yes.
33	Wednesday	Are there any topics that FOCI can be removed as a requirement?	An offeror can submit a solution and make the request, but the particular government response to relaxing FOCI requirements will be detremined on a case by case basis.

34	Wednesday	EW Arena Prototype TA: for the upgraded architecture will there be any additional interface requirements or is this something you want industry to propose in the WP?	Industry should propose any interfaces for the upgraded architecture.
35	Wednesday	What are your major issues in meeting the needs of the warfighter?	The topics are the validated needs from the services in support of the warfighter.
36	Wednesday	What are your short comings with regards to these TAs?	Primarily focused to address need for EWT. potential challenge is that they receive WPs that are not T&E focused. Must be T&E solution as it pertains to S&T most beginning at under at TRL 6 maturing to a TRL 6. Must meet those gate keeper criteria.
37	Wednesday	Real-time RF: What's the minimum acceptable signals that meet the requirement? How many modulations are expected in a single scenario?	IMO is in search of advanced tech solutions, so propose what they believe they can do. No specific answer. Purposefully left out to foster submission of advanced technological solutions.
38	Wednesday	Real-Time RF: Of the current systems, what are the key gaps during test?	Can't elaborate on the current gap because this is about advanced technology solutions. Not looking to solve a specific gap or problem; looking for next-gen technology solutions. This topic is geared toward improving and increasing capability for the NEWEG capability.
39	Wednesday	Topic 4 EW Arena: Is there doc on the EW architecture? If so, how do they get a copy of it? Is it open source SW?	There is no additional information available. Submittors should focus on proposing their advanced technology solutions. Successful bidders will be awarded projects, and transition partners will be involved.
40	Wednesday	Is there a design constraint to the 1 GHz requirement? What's the normal operating bandwidth?	It's on a case-by-case basis. 1 GHz is on the upper side of what they would like to do
41	Wednesday	For Topic 1 and 4: Is NEWEG applicable to both of these areas?	Yes. It's one of the modules that will plug into the EW Arena to generate the threat signal. #1 is definitely associated and with #4 the EW Arena, it's a component but not the arena itself.
42	Wednesday	5G Congested and Contested and mitigation: They have current capabilities today. #1 provider for network and user emulation. What are you looking for in how to incorporate 5G into traditional T&E solutions?	These topics are intentionally broad to get industry's perspective to mitigate open air and increasing capabilities within the lab. Another related areas is the ability of the test ranges to simulate and replicate a cell network or even 3&4G.
43	Wednesday	Topic 4 EW Arena: Digitally combining the RF output. Does this mean whatever system you provide will output analog and they need to convert? 5th bullet of topic 4	Digital accommodation.
44	Wednesday	Is the 300 frequency required? That level of frequency would require a lot of development work to get there.	You don't need the 300GHz requirement right now, but a solution to get there. Write to your approach to getting there through the S&T approach
45	Wednesday	Will vendors have access to imagery sets either pre-award or post-award ?	Vendors should use commercial imagery sources.
46	Thursday	(Topic Area RF 4) "The EW Arena prototype environment must be capable of digitally combining, foreach RF output, propagated RF signals from all transmitters and reflectors in the environment before converting back to analog RF and providing to the system under test or threat simulator connected to that output."	Must consider the latency from input to output.
47	Thursday	What areas most important topic areas to address (priority)?	For topic areas RRF 1-4 all the requirements come from other services, cannot share the exact priorities. For topic areas RF 5&6 (Mitigating 5G Impact on Electronic Warfare (EW) Testing at Military Laboratories and Ranges) will have funds to fully support effort.
48	Thursday	How do we have a classified discussion?	Prototypes topic areas are currently unclassified.
49	Thursday	LM has capabilities to provide a surrogate environment as well as testing in the frequency bands that have been noted as a concern during Industry Day, is this of interest to the Gov't?	The government doesn't have simulators for certain aspects and they need a proposal for how much it would cost to get those into the laboratory.
50	Friday	Is there a specific frequency band that's of concern?	There are no specific band that's of concern.
51	Friday	Do you have budget for the for the 5G project?	The budget is healthy. The solution is part of the determining factor. Don't hesitate to price your proposals accordingly.
52	Friday	Is there any interest in building a cooperative target detection system?	There's no need to detect because we control exactly where the target is.

53	Friday	(Topic Area RF 1 & 3) What is the Gov'ts expectation for maximum signal density (signal /hr)?	What signal density (pulse/sec) can your technology provide? (This is strictly a RADAR topic)
54	Friday	(Topic area RF 5 & 6) Is this prototype a propagation model or actual HW?	The gov't wants the ability to replicate the range test in a secure lab environment.
55	Friday	What are the gates & milestones that are tied to off-ramps?	Suggest milestones and off-ramps in the white paper.