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2022-12

CLOSING THE TECHNOLOGY GAP: PARTNER FORCE DIGITAL TOOLS FOR INFORMATION ADVANTAGE, PROJECT I-SHAREINFORMATION SHARING, AND HOSTING ADVANCED REMOTE ECOSYSTEM ASSESSMENTS

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NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

ANNEX TO DEFENSE ANALYSIS CAPSTONE REPORT
(1 of 5: Surveys)

CLOSING THE TECHNOLOGY GAP: PARTNER FORCE DIGITAL TOOLS FOR INFORMATION ADVANTAGE, PROJECT I-SHARE–INFORMATION SHARING, AND HOSTING ADVANCED REMOTE ECOSYSTEM ASSESSMENTS

by

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December 2022

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Section A. ISHARE NPS US Survey

Start of Block: Default Question Block

⤭

Consent YN Thank you for participating in a survey to help close the technology gap between US forces and our international allies and partners. (Within the survey, the term ally or partner includes one or both.) A link to our executive summary is found at the end of the survey with more details. If you agree to participate, click "Yes."

○ Yes (1)

Page Break ───

Unclas Unit Coms What unclassified means did <u>your unit</u> have for communication with foreign military and police partners?

☐   APAN (1)

☐   NIPR E-MAIL (2)

☐   Unofficial team Google account (3)

☐   Other (4) _____

Foreign Share w-Tm Did foreign police and military partners have secure communication means to share information with your team?

	Never		Sometimes		Always
	1	2	3	4	5
Police ()			●		
Military ()			●		

DoD Coms Did you use a DOD-provided communications platform to communicate with foreign partners outside of official email services?
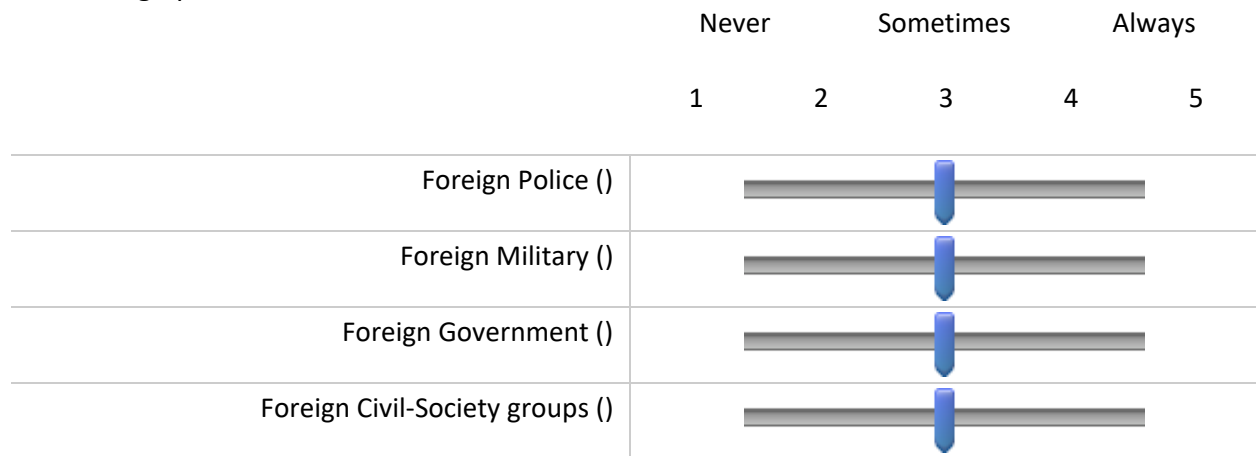
☐   N/A (2)

☐   Yes (3)

☐   No (4)

Skip To: Multiple AOR If Did you use a DOD-provided communications platform to communicate with foreign partners outside o... = N/A

US platform w-allies Did you use a DOD-provided communications platform to communicate with foreign partners outside of official email services?

	Never		Sometimes		Always
	1	2	3	4	5
Foreign Police ()			●		
Foreign Military ()			●		
Foreign Government ()			●		
Foreign Civil-Society groups ()			●		

Multiple AOR Did you have a platform to communicate with foreign allies or partners that allowed you to work across multiple AORs (Area of Responsibility), or was it specific to your AOR?

○ N/A (1)

○ The platform worked in only one AOR (2)

○ The platform worked in two AORs (3)

○ The platform worked in over two AORs (4)

AOR platform use What AOR was your unit deployed to when you worked with foreign military partners?

	N/A (1)	US CENTCOM (2)	US INDOPACOM (3)	US EUCOM (4)	US AFRICOM (5)	US SOUTHCOM (6)	US NORTHCOM (7)
Most Recent Deployment (1)	○	○	○	○	○	○	○
Second (2nd) Most Recent Deployment (2)	○	○	○	○	○	○	○
Third (3rd) Most Recent Deployment (3)	○	○	○	○	○	○	○

A-P Map Physic What tools did foreign military partners paired with your unit use to depict the PHYSICAL environment and share that with you? (I.E. Bridges, obstacles, etc.) Select all that apply.

☐   N/A (1)

☐   Drawings, notes, sketches (2)

☐   Maps and markers (3)

☐   Google Maps (4)

☐   Tactical Awareness Kit (TAK) Plugin (5)

☐   Palantir-like tool (6)

☐   Other information sharing platform (7)
_____

☐   Other open source map software (8)
_____

A-P Map Social What tools did foreign military allies or partners paired with your unit use to depict the SOCIAL environment and share that with you? (I.E. Demographics, ethnolinguistic

information, relationships between people, activities, and places, crime, etc.) Select all that apply.

☐   N/A (1)

☐   Drawings, notes, sketches (2)

☐   Maps and markers (3)

☐   Google Maps (4)

☐   TAK Plugin (5)

☐   Palantir-like tool (6)

☐   ArcGIS (7)

☐   Analyst Notebook (8)

☐   Other information sharing platform (9)

_____

☐   Other open source software (10)

_____

☐   Google Docs (11)

A-P Map Cyber What tools did foreign military allies or partners paired with your unit use to depict the CYBER environment and share that with you? (I.E. Threat movement, social movement via social media, riots, uprisings, etc.) Select all that apply.

☐ N/A (1)

☐ E-mail (2)

☐ WhatsApp/Signal/Telegram (3)

☐ SMS (4)

☐ Maps and markers (5)

☐ TAK Plugin (6)

☐ Palantir-like tool (7)

☐ Open-source social media scraping tool (8)

☐ Twitter (9)

☐ Other subscription-based software (10)
_____

☐ Other free open-source software (11)
_____

⤨

Continuity method *How* did your team maintain continuity and pass off information from partners with a replacement team?

	Never		Sometimes		Always
	1	2	3	4	5

Unclassified e-mails ()	─────────┃─────────
WhatsApp ()	─────────┃─────────
Signal ()	─────────┃─────────
SMS ()	─────────┃─────────
Phone correspondence ()	─────────┃─────────
Classified e-mails ()	─────────┃─────────
Palantir-like tool ()	─────────┃─────────
Viber ()	─────────┃─────────
SOCOM Database ()	─────────┃─────────
Branch Service Database ()	─────────┃─────────

When stop updates When did foreign partners stop giving updates to your team after deployment?

○ Partners did not update my team ever. (1)

○ Partners did update my team until departure, then 'information flow' stopped. (2)

○ Partners continued to send updates to my team after deployment. (3)

○ Other (explain) (4) _____

Q20 When did foreign partners stop giving updates to your team after deployment? **A measure of 0 indicates N/A; 13 indicates any period of 12+ months.**

Months

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Most Recent Deployment ()														
Second (2nd) Most Recent Deployment ()														
Third (3rd) Most Recent Deployment ()														

AI-ML Systems What systems secured and analyzed information communicated between you and an allied or partner force to be used for artificial intelligence, machine learning, and follow-on missions? Select all that apply.

☐ None, information between my unit and the ally/partner force was not preserved in a database with a means for exploitation. (1)

☐ A CIP or Common operating picture used employed for targeting (2)

☐ Palantir-type tool (3)

☐ I'm not aware of this capability (4)

☐ Other (5) _____

☐ A communication platform specifically used to develop joint, interagency, intergovernmental, and multinational (JIIM) partnerships (7)

☐ A platform that allowed you to achieve SOF-CF interdependence (8)

☐ A system that improved intelligence collection, analysis, and synthesis; characterization of the human domain (9)

☐ A system that could quickly detect, analyze, and understand new threats (10)

Overlap How <u>frequently</u> during a rotation...

	Never		Sometimes		Always
	1	2		4	5
... did teams from your unit have **overlapping** single or multi-day missions <u>within the same area as foreign military</u> partners? ()					

Threat-Intel How often was...

	Never		Sometimes		Always
	1	2		4	5
...intelligence passed from your unit to partners to confirm threat activity? ()					

Q21 How often was...

	Never		Sometimes		Always
	1	2		4	5
...targeting information passed from your unit to partners to confirm threat activity? ()					

URL This concludes the survey. *Click NEXT* to complete the survey.

 [Click here for Proj. ISHARE Executive Summary](https://nps.box.com/s/suv7n7nxzgogvr8fbqfxr1c203rcs22g) or copy URL and paste in a web browser: https://nps.box.com/s/suv7n7nxzgogvr8fbqfxr1c203rcs22g

End of Block: Default Question Block

Section B. ISHARE NPS Foreign Survey

⤭

Consent YN Thank you for participating in a survey to help close the technology gap between US forces and the distinguished international allies and partners. (Within the survey, the term ally or partner includes one or both.) A link to our executive summary is found at the end of the survey with more details. If you agree to participate, click "Yes."

☐   Yes (1)

E Acct Provided Does your unit/organization provide unique email accounts to personnel?

○ No (5)

○ Yes (1)

Page Break ————————————————————————————————————

Q22 To whom? Select all choices that apply.

☐ Both officer and NCOs (5)

☐ Officers only (1)

☐ Officers, NCOs, and all other organization members (8)

☐ Organizational inboxes (e.g., for the operations, etc.) (9)

☐ Other (explain) (6) _____

Page Break ——————————————————————————————————

Foreign support Has your unit/organization used digital tools that have been provided by a foreign nation or company?

$\bigcirc$ No (1)

$\bigcirc$ Yes (3)

Page Break ——————————————————————————————

Q21 By who? Select all choices that apply.

☐   By a foreign government previously (1)

☐   By a foreign company previously (2)

☐   By a foreign government (4)

☐   By a foreign company (3)

Page Break

Device Provided Has your unit/organization provided digital devices such as computers, laptops, or cell phones to personnel for tactical use?

○ No (5)

○ Yes (2)

Skip To: Secure Internet If Has your unit/organization provided digital devices such as computers, laptops, or cell phones to... = No

Page Break ─────────────────────────────────────

Q24 Which devices? Select all applicable options.

☐ Laptop (2)

☐ Cellphone (3)

☐ Yes, another type of device (list below) (4)

_____

Page Break ————————————————————————————

Secure Internet Does your unit/organization have access to secure internet provided by your Ministry of Defense?

○ No (5)

○ Yes (1)

Page Break

Q23 Does your unit/organization have access to secure internet provided by your Ministry of Defense?

☐　　　Yes, regular internet (1)

☐　　　Yes, encrypted internet (6)

☐　　　Yes, a virtual proxy network (VPN) is provided (2)

☐　　　Yes, both internet, and a virtual proxy network (3)

☐　　　Other (list below) (7) _____

Page Break ───

US Benefit Drawbacks Has there been a benefit from using US networks or technologies for your unit/organization?

○ Not at all 1 (1)

○ Minimally 2 (5)

○ Somewhat 3 (6)

○ Mostly 4 (7)

○ Entirely 5 (8)

Page Break ——

APR- How share dig How does your unit/organization share images, digital maps, or other digital graphics across units and echelons? Select all choices that apply.

☐   By official email (1)

☐   Through an official government chat application (2)

☐   Unofficial Applications (e.g., Signal, WhatsApp, Viber, Facebook, etc.) (3)

☐   Through commercial email (4)

☐   Through Text-SMS (5)

☐   Other (6) _____

Page Break ————————————————————————————————————

COP types How are your unit organizational digital tools used to understand the operating environment? Select all choices that apply.

☐   N/A (3)

☐   Through a social media analysis tools (e.g., Keyhole, AgoraPulse, Oktopost, etc.) (2)

☐   Through a COP via CKI-TAK, FIST, or other data aggregation tools (8)

☐   Physical transfer through USB drive, SD, SSD Card, etc. (9)

☐   Other (4) _____

Page Break

Level of tools At what level does your unit/organization use digital tools or software? Select all that apply.

☐   National level/Strategic (1)

☐   Operational level (2)

☐   Tactical level (3)

☐   Small Unit/Team level (7)

☐   Other (6) _____

Page Break   ⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺⸺

Messenger type How does your unit/organization communicate between headquarters and units? Select all choices that apply.

- ☐ Official email (2)

- ☐ Phone (3)

- ☐ Text-SMS (5)

- ☐ MS Teams like official chat (4)

- ☐ Unofficial Applications (e.g., Signal, WhatsApp, Viber, Facebook, etc.) (6)

- ☐ Other (1) _____

Page Break —————————————————————————————————————

Digital COP Type How are digital tools used to understand the operating environment? Select all choices that apply.

☐   My unit does not have a platform to understand this (1)

☐   Google (e.g., docs, spreadsheets, etc.) (4)

☐   A data-aggregation tool (e.g., Kestrel-FIST, CKI-TAK, etc.) (5)

☐   Physical transfer through USB drive, SD, SSD Card, etc. (8)

☐   Other (6) _____

Page Break ——————————————————

Identifier Enter a codename you will remember for follow-up participation. (e.g. a username, etc.)

_____

Section C. CKI-TAK Post-Use Survey

Unique code Enter codename from previous survey.

_____

Page Break

Consent YN Thank you for participating in a survey on communication and partner force information sharing. Response is voluntary so please click the arrow to pass any questions you are not comfortable to answer or do not know. If you agree to participate, click "Yes."
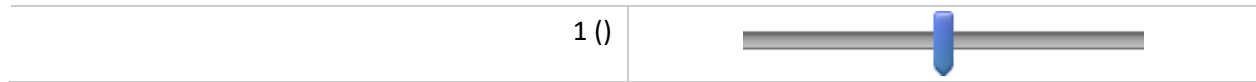
○ Yes (1)

Page Break ——

Meet Op Req Would long-term use of the Civil Knowledge Integration – Team Awareness Kit (CKI-TAK) meet the established operational requirements or needs of units in your organization?

	Never	Rarely	Sometimes	Frequently	Always
	1	2	3	4	5
1 ()					

Page Break

Training time Do current training plans allow time to train personnel on the controls of CKI-TAK?

○ Never 1 (1)

○ Rarely 2 (2)

○ Sometimes 3 (3)

○ Frequently 4 (4)

○ Always 5 (5)

Page Break ——

Connectivity Does the physical terrain where your organization trains and works affect the use of a digital tool that requires Wi-Fi or cellular connectivity?

	Never	Rarely	Sometimes	Frequently	Always
	1	2	3	4	5

1 ()
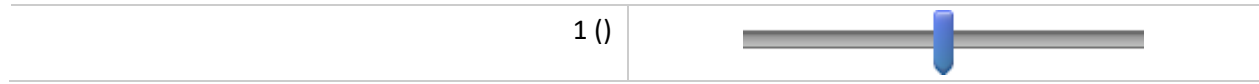
Page Break

Training Time Does your unit have reporting timeline requirements and would the CKI-TAK platform allow users in your organization to meet that timeline in the appropriate language and format?

	Strongly Disagree	Somewhat Disagree	Neither Agree nor Disagree	Somewhat Agree	Strongly Agree
	1	2	3	4	5
Platform would allow users to meet timeline requirements ()			▮		
Appropriate Language ()			▮		
Appropriate format ()			▮		

- -

Page Break ——

Meet Req Based on your units' evaluation criteria, how would CKI-TAK impact your unit's ability to meet established requirements to gain situational understanding of the environment of the area of operations?

○ Very negatively 1 (1)

○ Somewhat negatively2 (2)

○ Neutral3 (3)

○ Somewhat positively 4 (4)

○ Very positively 5 (5)

Page Break ————————————————————————————————

med capes How would the use of the CKI-TAK platform improve your units' medical evacuation plans and capabilities?

○ Very negatively 1 (1)

○ Somewhat negatively2 (2)

○ Neutral3 (3)

○ Somewhat positively 4 (4)

○ Very positively 5 (5)

Page Break ————————————————————————————————

Op require The CKI-TAK platform meets established or projected operational requirements of your unit to share data and information....

	Not at all	Minimally	Partially	Mostly	Entirely
	1	2	3	4	5
...with the unit and headquarters. ()					
...with non-governmental organizations ()					

Page Break

Op Info The use of a data and information sharing platforms such as CKI-TAK would increase your units' ability to share operational information?

○ Never 1 (1)

○ Rarely 2 (2)

○ Sometimes 3 (3)

○ Frequently 4 (4)

○ Always5 (5)

Page Break ───

Reliance Would the use of CKI-TAK by your unit and US partners reduce use of non-secure communication platforms (e.g., Signal, WhatsApp, Viber, Facebook Messenger, Gmail, etc.) for work purposes in your unit?

○ Strongly disagree 1 (1)

○ Somewhat disagree 2 (2)

○ Neutral 3 (3)

○ Somewhat agree 4 (4)

○ Strongly agree 5 (5)

Page Break ─────────────────────────────

Op requirements How would the use of CKI-TAK meet your units needs or requirements to effectively share operational information to...

	Not at all 1 (1)	Minimally 2 (2)	Partially 3 (3)	Mostly 4 (4)	Entirely 5 (5)
Meet **needs** to share with other units or non-military organizations (1)	○	○	○	○	○
Meet **requirements** to share with other units non-military organizations (4)	○	○	○	○	○

Page Break

Bilat Your unit would accept communication from US military personnel using the CKI-TAK platform during bilateral training and exercises. Select the most appropriate response.

○ Never 1 (1)

○ Almost never 2 (2)

○ Sometimes 3 (3)

○ Almost always 4 (4)

○ Always 5 (5)

End of Block: Default Question Block

Section D. FIST Post-Use Survey

Unique code Enter codename from previous survey.

_____

Consent YN Thank you for participating in a survey on communication and partner force information sharing. Response is voluntary so please click the arrow to pass any questions you are not comfortable to answer or do not know. If you agree to participate, click "Yes."
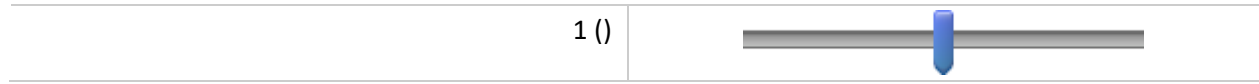
○ Yes (1)

Page Break ———

Meet Op Req Would long-term use of the Field Information Support Tool™ (FIST™) meet the established operational requirements or needs of units in your organization?

	Never	Rarely	Sometimes	Frequently	Always
	1	2	3	4	5

1 ()

Page Break

Training time Do current training plans allow time to train personnel on the controls of FIST™?

○ Never 1 (1)

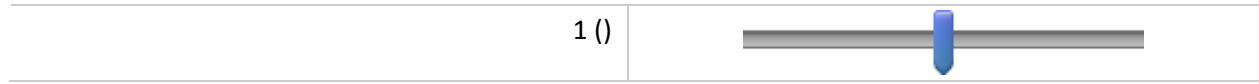○ Rarely 2 (2)

○ Sometimes 3 (3)

○ Frequently 4 (4)

○ Always 5 (5)

Page Break ————————————————————————————

Connectivity Does the physical terrain where your organization trains and works affect the use of a digital tool that requires Wi-Fi or cellular connectivity?

	Never	Rarely	Sometimes	Frequently	Always
	1	2	3	4	5

1 ()

Page Break

Training Time Does your unit have reporting timeline requirements and would the FIST™ platform allow users in your organization to meet that timeline in the appropriate language and format?

	Strongly Disagree	Somewhat Disagree	Neither Agree nor Disagree	Somewhat Agree	Strongly Agree
	1	2	3	4	5
Platform would allow users to meet timeline requirements ()			●		
Appropriate Language ()			●		
Appropriate format ()			●		

Page Break

Meet Req Based on your units' evaluation criteria, how would FIST™ impact your unit's ability to meet established requirements to gain situational understanding of the environment of the area of operations?

○ Very negatively 1 (1)

○ Somewhat negatively2 (2)

○ Neutral3 (3)

○ Somewhat positively 4 (4)

○ Very positively 5 (5)

Page Break

med capes How would the use of the FIST™ platform improve your units' medical evacuation plans and capabilities?

○ Very negatively 1 (1)

○ Somewhat negatively2 (2)

○ Neutral3 (3)

○ Somewhat positively 4 (4)

○ Very positively 5 (5)

Page Break ———————————————————————————————

Op require The FIST™ platform meets established or projected operational requirements of your unit to share data and information....

	Not at all	Minimally	Partially	Mostly	Entirely
	1	2	3	4	5
...with the unit and headquarters. ()			■		
...with non-governmental organizations ()			■		

Page Break ——————————————————————————————

Op Info The use of a data and information sharing platforms such as FIST™ would increase your units' ability to share operational information?

○ Never 1 (1)

○ Rarely 2 (2)

○ Sometimes 3 (3)

○ Frequently 4 (4)

○ Always5 (5)

Page Break —————————————————————————————————

Reliance Would the use of FIST™ by your unit and US partners reduce use of non-secure communication platforms (e.g., Signal, WhatsApp, Viber, Facebook Messenger, Gmail, etc.) for work purposes in your unit?

○ Strongly disagree 1 (1)

○ Somewhat disagree 2 (2)

○ Neutral 3 (3)

○ Somewhat agree 4 (4)

○ Strongly agree 5 (5)

Page Break ————————————————————————————————————

Op requirements How would the use of FIST™ meet your units needs or requirements to effectively share operational information to...

	Not at all 1 (1)	Minimally 2 (2)	Partially 3 (3)	Mostly 4 (4)	Entirely 5 (5)
Meet **needs** to share with other units or non-military organizations (1)	○	○	○	○	○
Meet **requirements** to share with other units non-military organizations (4)	○	○	○	○	○

Page Break

Bilat Your unit would accept communication from US military personnel using the
FIST™ platform during bilateral training and exercises. Select the most appropriate response.

○ Never 1 (1)

○ Almost never 2 (2)

○ Sometimes 3 (3)

○ Almost always 4 (4)

○ Always 5 (5)

End of Block: Default Question Block