## *Velocity* Abstract Submission Form   *Due May 15*

Timeline: May 6, 8, 10 ---- review

Read [*issue #1*](https://bah.dcatalog.com/v/V1-2023-Velocity-by-Booz-Allen/?page=1) and [*issue #2*](https://velocity.boozallen.com/view/776121111/8-9/).

**Instructions**

Please download and complete this form to submit your abstract for issue #3 of *Velocity*. Once finished, upload the file to [this folder](https://boozallen.sharepoint.com/:f:/t/CTOSIGMarketing/EpdhwtO1Ge5AtDlrtHQfnHgBa5QtuSWLOTNZLAAwvS87EA?e=qZr6Ia) and change the file name to your abbreviated proposed topic. Questions? Contact [the *Velocity* editorial team](mailto:craft_kevin@bah.com)*.*

**Editorial guidelines**

*Velocity* aims to be the preeminent source of ideas about how technology can help federal leaders transform critical missions. When writing an abstract, consider the following:

* **Take a position on your topic.** *Velocity* articles should demonstrate original thinking that advances current knowledge and provides a fresh perspective about a specific topic.
* **Include external perspectives.** Weave in perspectives from external thought leaders (e.g., a client, industry leader, academic, mission expert, and/or technical expert); examples of contributions range from a quote to co-authoring a piece with an external thought leader.
* **Keep the audience in mind.** Articles should be written for one or more of the following readers: federal and private sector tech executives (CIOs & CTOs), federal mission leaders, and technical talent.
* **Steer away from sales.** *Velocity* offers insights and perspectives on big topics, not examples of Booz Allen services or capabilities; articles can reference our work IF it’s done in the context of engaging thought leadership or if it helps bring an issue to life through specific examples.
* **Avoid introductory “explainers.”** Our audience is looking for 201-level ideas about how specific technologies are developing and/or how technology can be applied in innovative ways to solve mission-critical challenges.

Clear specifics of what we want to cover.

3-4 sentences or bullets to explain what the piece will likely discuss

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| **Abstract Information to Complete** | | | |
| **Topic** | “Accelerating Human-AI Symbiosis for Security Cooperation Missions”  *Could a new methodology reimagine Mission Interoperability, Resilience and Cooperation to solve problems?* | | |
| **Why is this topic important and timely to our audience?** | 1. The rapid pace and complexity of technological change, in irregular geopolitical landscapes, challenge leaders in government, military, and industry. Traditional centralized, siloed approaches are inadequate against emergent threats that cross borders and domains. 2. A new paradigm for human-machine collaboration is needed to accelerate sustainable solutions, leveraging emerging semantic, collaborative, and interoperable technologies: AI, digital twins, and data fusion to enhance situational awareness, adaptability, and resilience across defense and security ecosystems. The proposed "Human-AI Symbiosis" envisions agile, interoperable networks inspired by biological systems, capable of rapidly sensing, responding, and evolving amidst disruptions. 3. For federal executives, this approach accelerates joint all-domain command and control (JADC2), enabling interoperability and data-sharing across services and coalition partners. For industry leaders, it presents opportunities to develop human-centric AI applications that augment rather than replace human agency. For the technical talent, building these systems, it provides an interoperable framework to create resilient and adaptable solutions to confront evolving threats together. | | |
| **Proposed Booz Allen author(s)** | Author 1:  Name: John Carrola  Title: Lead Technologist - AI Solutions Architect    Author 2  Name: Allison Heiser  Title:   Director/Principal - JDA Security Cooperation  Author 3:  Name: Dan McConnell  Title: Chief Technologist – CTO/Bright Labs  Author 4  Name: Veronica Davila  Title:   Lead Associate – Security/Force Protection SME | | |
| **Proposed external thought leader(s) to contribute to this article**  This could include a client, industry leader, academic, mission expert, and/or technical expert. | *Examples of contributions range from providing a quote to participating as a co-author on this piece.*  Name: Robert McCloud  Title:  Program Manager  Organization: Technical Security Team, Pakistan  Nature of Relationship: Existing Client   * Contributions would include: Operational perspective, how he is working within the Government to drive human-AI resilience in the security cooperation mission   Name: TBD  Title:  TBD  Organization: Unity  Nature of Relationship: Partner Company   * Contributions would include: How Unity powers our Digital Transformation & Digital Twins   *(e.g., existing client, former client, relationship with partner/venture company, relationship with media organization, relationship with academic institution)* | | |
| **What visuals or graphics will you include with your article?** | We have the following visualization ideas to support our topic:   * An illustration contrasting traditional hierarchy with a decentralized symbiotic network, highlighting adaptive information flows and dynamic reconfiguration through human-AI collaboration. * A process sequence depicting the construction of a mission relevant digital twin (e.g., graphs, probabilistic modeling, and co-evolutionary algorithms), from raw data ingestion to multi-modal fusion, predictive simulation, and adaptive replanning. * Metaphorical schematic, mapping human and machine/technology agents' interplay across strategic, operational, and tactical levels; enabling information and intent flow up and down the command chain * An ecosystem map of key partnerships and interfaces for enabling collaborative symbiosis at scale (i.e., government agencies, private sectors, academic institutions, and international allies) | | |
| **Would you be able to source permissions from clients to discuss this topic?**  Client permission and government public affairs office approval are required when publicly discussing client work. | YES | Yes, I can coordinate with clients and government public affairs office to source permissions to discuss this topic. | |
|  | Not applicable, I won’t be discussing client work in relation to this topic. | |
| **Can you commit time or resources to the article development lifecycle?**  Development lifecycle runs from May–July.  This includes 3–5 pages of content, editorial reviews and approvals, and collaboration on graphics or imagery. The *Velocity* editorial team will provide support to help shape articles and associated graphics. |  | Yes | |
| **Key Takeaways** | | | |
| ***What are one to three key takeaways you want to demonstrate to our audience?***   * 1. Confronting modern age complexity requires a human-centric AI approach that combines the best of human and machine intelligence. By emphasizing modularity, interoperability, and co-adaptation, we can develop agile socio-technical systems that navigate uncertainty beyond linear optimization.   2. In symbiotic systems, interoperability, cooperation, and resilience are interconnected. Decentralized architectures and interfaces enable diverse agents to accelerate communication and understanding, facilitating collaboration and adaptability. When local components dynamically align their priorities and efforts with emergent needs, sustainable collective intelligence emerges.   3. Realizing the Human-AI symbiosis methodology will require evolving mindsets, organizational cultures, and governance. To leverage technological disruption for the greater good, we must prioritize human values and agency, measuring success not just by our algorithms' intelligence but by the wisdom and insight they can they enable. | | | |
| **Data and Research** | | | |
| ***Would data and research/analysis could you cite?***   1. Multidisciplinary fields from a literature review on supporting topics and theory, such as:    * Cybernetics and Systems Theory; Collective Behavior; Human-Computer and Human-Data Interaction; Organizational and Social Psychology; Complexity Science; Biological paradigms of Antifragility, Biodiversity, Symbiosis, Ecosystem Interconnectivity 2. Real-world case studies demonstrating symbiotic principles, such as:    * Interoperability as seen in disaster response efforts, and agile industry/government collaborations (e.g., cybersecurity and pandemic resilience) 3. Trends of Request for Proposals (RFPs) for composable adaptable architectures, such as:    * Modular frameworks that allows the easy integration of additional modules via an API or other solution (NATO); Modular approaches in a simulation system by encapsulation of simulation functionality for the later Digital Twin integration (NATO) | | | |
| **Proof Points** | | | |
| ***What client work/case studies could you reference as a proof point?***  Some examples would include:   1. ATLAS Data Fusion and Analysis: ATLAS demonstrates the integration and analysis of multi-modal data streams for real-time situational awareness and decision support, exemplified by its use in installation resilience planning. 2. Use cases showing Digital Twin representations in client work and Industry Innovation Challenges combining human input and AI, to include:    * Applied Human-AI collaboration in client work to establish a continuous security mesh realizing emergent force protection; Proposal of a new digital twin representation (Digital Twin *Hypergraph*) to realize Human-AI symbiosis, as a winning solution to the 2023 NATO Innovation Challenge of Resilient Military Mobility 3. Booz Allen's Digital Transformation: Booz Allen's own transformation into a data-driven digital solutions firm highlights the cooperative benefits of human-AI symbiosis, with investments in upskilling, multidisciplinary fusion, and AI-enabled workforce training, awareness, and planning for all levels of talent and agencies. | | | |
| **If you had the opportunity to write a follow-up piece that goes a level deeper on your topic, what issue/s would you want to explore?** | | | We’d like the opportunity to take a deeper dive into the specific architectural patterns, protocols and governance structures needed to enable mature human-AI symbiosis at scale:   * Exploring the technical components of an operating system for symbiosis * Understanding the organizational and cultural shifts required * Examining implications for talent and training, including evolving skillsets * Investigating the ethical frameworks needed for these symbiotic systems |

**Thank you for submitting your topic to issue #3 of *Velocity*.**