

# XPONENTIAL 2023 Call for Presentations

[Contact Information](#) → [Session Details](#) → [Call for Presentations](#)

**Presentation applicants will only be notified if accepted.**

## Is the submission promotional? \*

Are you promoting and product or service?

- No
- Yes

## Solution Union: Enterprise and Government Solutions

IMPORTANT: Proposals that are solutions or product focused will only be considered for inclusion in the Enterprise and Government Solutions Series, which are sponsored sessions. **Please click this link to complete the [Sponsored Session Submission](#)**

\*\*\*For Promotion submission, please do not complete / submit here – Please follow the link to the [Sponsored Session Submission Form](#)\*\*\*

## About the Proposed Speaker

Please ensure all fields are complete and up to date before moving to the next section. Should you be selected, the headshot and biography provided will be used in public distribution (i.e. marketing materials and program development).

### Prefix

### Speaker Name \*

First Name

Last Name

### Speaker Agreement \*

If you are not the speaker do you certify that the person mentioned above has knowledge of this application?

- Yes, the speaker has knowledge of this application
- I am the speaker

### Speaker Job Title \*

### Organization \*

**Address \***

Street Address

Line 2

City

Country

State / Province

Zip / Postal Code

**Speaker Email \***

**Phone \***

**Speaker Bio \***

Provide a brief speaker bio. (Limit 500 characters)

Character count: 0 / 500

**Speaker Headshot \***

Please provide a high-resolution speaker headshot in .bmp, .jpeg, .jpg or .png format. Please include the speaker name in headshot file name.

No file chosen

**Speaker Company Logo**

Please provide a high-resolution company logo in .bmp, .jpeg, .jpg or .png format.

No file chosen

**Speaking Experience**

If applicable, provide any links to recent speaking engagements at professional conferences, seminars or workshops. This may include a links to program agendas, online presentations and/or video clips.

**AUVSI Membership \***

Are you an AUVSI member?

- Yes, my organization is a Corporate Member.
- Yes, I have an individual membership.
- No, I am not yet a member of AUVSI.

**Additional Contact Information**

If you are completing this application on behalf of someone else, please provide your complete contact info below. Or, if you have a speaker assistant or another point of contact that should be included on speaker communications, please provide their contact info below.

The below listed individual will be copied on all official speaker communication.

**Contact First Name**

First Name

**Contact Last Name**

Last Name

**Contact Email**

Email

**Contact Phone**

Phone

[Save](#)[Save and Next](#)**The Blueprint for Autonomy**

It's that time of the year again: the XPONENTIAL 2023 call for presentations is now open! As a community, we are moving beyond the vision-setting phase for autonomy and are drawing up a blueprint to fully operationalize and integrate these systems. And while a collective focus on the same grand design is critical, *how* we work together will determine how smoothly and quickly we achieve full integration and realize the potential of our industry.

That blueprint for autonomy is already being drafted. It includes considerations for design, operationalization, integration, and safeguarding. Its material needs consist of policy and regulations, public engagement, safety and security, data management, testing and certification, among others. So just as an architect's two-dimensional design becomes a three-dimensional reality, we ask that you help our community identify new perspectives, avoid potential incongruities, and keep apace in pursuit of our shared goal.

Share your knowledge and unique perspective on how to address the critical issues that our industry is currently facing and provide insights and solutions that will be necessary for this blueprint to become reality.

Our industry will only go as far as you will take it, so lend your vision, experience, research, and successes to shape the future.

**Proposal Considerations**

Our goal is to educate a broad range of job roles, experience levels and market segments in the advancement of the unmanned and autonomous systems industry. We strive to do this through showcasing and leveraging the incredible talent, vision and expertise that exists within the AUVSI community.

The XPONENTIAL 2023 program will include a variety of learning formats: panel sessions, standalone presentations, fireside chats, workshops, demonstrations, and breakout discussions.

Presentations will be selected based on:

- Speaker credentials and subject matter expertise
- Program balance
- Relevance, timeliness and quality of content

## **Programming Format**

**XPONENTIAL 2023 programming will be offered in a variety of formats:**

### **Spotlight Sessions**

**May 9-11 | 30–60 minutes**

- **Spotlight Sessions** reflect priorities within the industry and apply across domains and sectors

### **Breakout Sessions**

**May 9-11 | 30–60 minutes**

- In **Breakout sessions**, speakers will dive deeper into specific topics or subject areas for more focused conversations
- Interested in sponsoring an educational breakout session track? Sponsoring will position your company logo directly in front of your target audience and end users. As a sponsor you'll receive a list of attendees from every session within your sponsored track. For more information on becoming a sponsor, email [exhibits@auvsi.org](mailto:exhibits@auvsi.org)

*Both the spotlight sessions and breakout program will feature:*

- Panel discussions (60 minutes)
- Standalone presentations (30 minutes)

### **Workshops**

**May 8-11 | 90–120 minutes**

- **Workshops** should feature demonstrations/hands-on learning, presentations with breakout discussions, or a blend of different formats

### **STEM Programming**

**May 11 | 20–30 minute presentations to student and education audience**

- Student focused sessions (ages 12-18) should feature hands-on learning, demonstrations, discussions or training on drone safety, use-cases for drones and robotics, skills development, education and career-oriented presentations
- Hands-on (30min) | Demonstration (30min) | Presentation (20 min)

### **Sponsored Sessions**

**May 9-11 | 45 minutes**

- **Sponsored Sessions** allow companies to share their solutions and latest advancements or developments with the community, allowing them to reach new customers and gather leads. There are three investment opportunities for sponsored sessions:
  - Enterprise and Government Solutions (EAGS) – Integrated with the Full Conference Program \$\$
  - Solutions Theatre – XPO Hall Floor \$
  - Learning Lab Theatre: Putting Autonomy to Work – XPO Hall Floor \$

- To submit a sponsored session, click here: [XPONENTIAL 2023 Sponsored Session Presentation Submission Form](#)

\*\*\*For Promotion submission, please do not complete / submit here – Please follow the link to the [Sponsored Session Submission Form](#)\*\*\*

### May 9-11 | 90 minutes

- The **Sandbox** is a space for problem-solving and exploration for industry leaders, researchers, and academic institutions.
- Sandbox sessions should use the XPO community to problem-solve, collaborate, ideate and seek solutions in the field of autonomous systems.

Selected presenters will be contacted by AUVSI staff as early as possible. Due to time and resource limitations, we are only able to contact those speakers who are selected. Presentation selections will be announced January 2023.

#### Track \*

In what broad theme, or Track, does your presentation most closely align? (Select one)

- Designing Autonomy: Data Foundation & Usage
- Designing Autonomy: Technical Development (this track requires a technical paper)
- Operationalizing Autonomy
- Integrating Autonomy: Policy & Regulation
- Integrating Autonomy: Public Engagement & Impact
- Safeguarding Autonomy
- Realizing Autonomy
- Enterprise and Government Solutions

#### Designing Autonomy: Data Foundation & Usage

In the design of autonomy, a strong foundation for data management is necessary. Whether it is the development of data standards, collection techniques, or processing and design for AI / ML, these discussions are paramount.

#### Application Category \*

- Technical
- Industry/Non-Technical

#### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.

- Yes, I agree to submit a technical research paper.

#### Designing Autonomy: Data Foundation & Usage \*

- Data analysis
- Data collection
- Data management
- Data policies and standards
- Data privacy
- Data processing
- Data science
- Data security
- Data sovereignty
- Data standards
- Data storage
- Data taxonomy
- Other

## Designing Autonomy: Technical Development

Technologies are rapidly evolving, and our community needs to share new research and achievements that will propel the industry into a new stage. Topics can include, but are not limited to, computer vision, uncrewed machine interface, sensor capabilities, path planning, software that supports mobility and enhances hardware, and hardware that is reliable and creates new opportunities for improved operations and seamless integration.

### Application Category \*

This track requires a technical research paper. If you will not be providing a technical paper prior to your presentation, please go back a selected another track.

Technical

### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.

Yes, I agree to submit a technical research paper.

### Designing Autonomy: Technical Development \*

- AI / ML
- Batteries
- Blockchain
- Communication tech / 5G
- Design principles
- Design standards
- Ethics
- Hardware
- Propulsion
- R&D
- Sensors
- Software
- Vehicle
- Other

## Operationalizing Autonomy

To operationalize autonomy, we must develop a plan to turn abstract into reality. The key constructs that will allow for operationalization of autonomy include establishment of infrastructure, both digital and physical, as well as testing, certification, and standards development, workforce and training, and identification of measurable and actionable outcomes.

### Application Category \*

Technical

Industry/Non-Technical

### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.

Yes, I agree to submit a technical research paper.

### Operationalizing Autonomy \*

- Charging stations
- DEI
- Digital infrastructure
- Electrification
- Freight docks

- Human – Machine teaming
- Lessons learned
- Physical infrastructure
- Port cities
- Skills gap
- Sky ports
- Testing and Certification
- Training
- Other

### Integrating Autonomy: Policy & Regulation

For the safe and seamless integration of autonomy into society, industry and government stakeholders must work together to develop policies, processes, and frameworks to support the laws that govern these systems and their implementation. Topics will relate to federal, state, and local authorities and the evolving regulatory environment.

#### Application Category \*

- Technical
- Industry/Non-Technical

#### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.  
 Yes, I agree to submit a technical research paper.

### Integrating Autonomy: Policy and Regulation \*

- Defense
- Demonstrations and experimental development
- Federal policy & regulations
- Federal, state, and local agencies
- Grassroot Initiatives
- Policies
- Proof of concepts
- Security standards
- Standards development
- State & local regulations
- Technical standards
- Other

### Integrating Autonomy: Public Engagement & Impact

Community trust in autonomy will stem from exposure and education of the technologies and the opportunities they bring to society. Whether it is government or industry organizations, educational bodies, public safety stakeholders, insurance companies or others, each play a vital role in addressing public concerns and questions about robotics, as well as the social and environmental benefits and broad use cases.

#### Application Category \*

- Technical
- Industry/Non-Technical

#### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.  
 Yes, I agree to submit a technical research paper.



### Integrating Autonomy: Public Engagement & Impact \*

- Community outreach and engagement
- Education
- ESG
- Ethics
- Humanitarian
- Insurance
- Law enforcement
- Media/communications
- Privacy standards and organizations
- Public safety
- Risk calculations
- Social benefits
- Sustainability
- Transparency & trust
- Other

### Safeguarding Autonomy

Concerns about safety and security of autonomous vehicles and robotics must be at the forefront of industry and government conversations. Whether it is a cybersecurity benchmark, spoof proof solutions, data security measures, or the promotion of an open-source concept, topics should address the safety and security, as well as information assurance.

### Application Category \*

- Technical
- Industry/Non-Technical

### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.

- Yes, I agree to submit a technical research paper.

### Safeguarding Autonomy \*

- CISA
- Control and security systems
- Cybersecurity standards
- Data protection and privacy
- Hardware and software malfunction
- Network security
- Security framework
- Spoofing
- Supply chain security
- Tamper-proof AI
- Testing
- Vulnerability assessment
- Other

### Realizing Autonomy

Autonomy creates new opportunities for industries, organizations, and governments alike. Many of the technologies can be used cross-domain and cross-sector, and understanding their applications and advantages helps to increase adoption by end users, thus leading to market growth and increased revenue. Topics include use cases across industries and government sectors, the impact to future mobility and inspections, and investor insight.

### Application Category

- Technical (Clear Selection)
- Industry/Non-Technical

### Technical Submission \*

I acknowledge that a technical research paper must be submitted prior to giving this presentation.

- Yes, I agree to submit a technical research paper.

### Realizing Autonomy

- Conservation / Blue technology
- Delivery
- DoD acquisition
- Drones as a service
- Freight
- Future mobility
- Human-teaming and workflows
- Inspections
- Mapping
- Shipping
- Supply chain and logistics
- Surveying
- Triple bottom line
- Urban air mobility (UAM)
- VC
- Warehouse
- Other

### Sponsored Track

Sponsoring an educational breakout session track will position your company logo directly in front of your target audience and end users. For more information on becoming a sponsor, email [exhibits@auvsi.org](mailto:exhibits@auvsi.org).

### Solution Union: Enterprise and Government Solutions

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**[Sponsored Session Presentation Submission Form](#)**:

\*\*\*For Promotion submission, please do not complete / submit here – Please follow the link to the [Sponsored Session Submission Form](#)\*\*\*

### Presentation Format \*

Select the type of presentation that will be given. (Select one)

- Standalone or fireside chat (1-2 speakers, no moderator, 30 minutes including Q&A)
- Panel (Up to 6 speakers, including a moderator, 60 minutes including Q&A)
- Workshop Session (Demonstration, hands-on learning, presentation with breakout discussions, 90-120 minutes)

### Do you need to add an additional speaker? \*

- Yes
- No

**Speaker Full Name \***

**Speaker Email \***

**Speaker Title \***

**Speaker Company/Organization \***

**Speaker Headshot**

Please provide a high-resolution speaker headshot in .bmp, .jpeg, .jpg or .png format. Please include the speaker name in headshot file name.

No file chosen

**Presentation Title \***

If selected, AUVSI reserves the right to edit the session title as needed for promotional purposes.

**Brief Presentation Description \***

This brief summary (200-word max) will be used as the description for the conference program if you are selected to present. Note, AUVSI reserves the right to edit and update presentation summaries at their discretion.

Word count: 0 / 200

**Detailed Presentation Abstract \***

Please provide a 4,000 character or less description of the content you would plan to present at XPONENTIAL. The description will be used by the XPONENTIAL Proposal Review Team and AUVSI staff to make presenter selections for the conference.

In your presentation abstract, be sure to address the following elements that will be used to score all submissions:

- Topic/research proposed is innovative and pertinent to current or upcoming industry interests/needs
- Topic/research highlights significant new accomplishments for the industry
- The overall topic proposed relates to the theme of assured autonomy
- The proposal would bring value across multiple markets
- The proposal would bring value across domains (air, ground and/or maritime)

Character count: 0 / 4000

**Additional Panel Speakers**

List moderator and all panelists, including name and title/affiliations. Please enter up to five (5) additional speakers. If your additional speakers are unconfirmed, please mark N/A in the below fields.

**Speaker 2 Details**

**Speaker Full Name \***

**Speaker Email \***

**Speaker Title \***

**Speaker Company/Organization \***

**Speaker Headshot**

Please provide a high-resolution speaker headshot in .bmp, .jpeg, .jpg or .png format. Please include the speaker name in headshot file name.

No file chosen

**Speaker Role \***

- Moderator
- Panelist

**Do you need to add additional speakers? \***

- Yes
- No

\*\*\*You'll be able to add up to 6 total speakers, including a moderator for a panel.\*\*\*

**Presentation Title \***

If selected, AUVSI reserves the right to edit the session title as needed for promotional purposes.

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- The proposal would bring value across domains (air, ground and/or maritime)

Character count: 0 / 4000

**Workshop: Format Description \***

Please share a logistical overview of your proposed workshop session, outlining how you will engage the audience (demonstration, breakout tables, hands-on learning, etc.)

**Workshop: Agenda \***

Outline how you will use the 90-minute time allotment

**Workshop Learning Objectives \***

Outline the goals of the workshop

**Do you need to add additional speakers? \***

Yes

No

\*\*\*You'll be able to add up to 6 total speakers, including a moderator for a workshop.\*\*\*

**Presentation Title \***

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**Brief Presentation Description \***

This brief summary (200-word max) will be used as the description for the conference program if you are selected to present. Note, AUVSI reserves the right to edit and update presentation summaries at their discretion.

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- The proposal would bring value across multiple markets
- The proposal would bring value across domains (air, ground and/or maritime)

Character count: 0 / 4000

**All tracks require the following:**

**Topics/Tags \***

Select all the topics/tags that align with your presentation.

- |   |  |
|---|--|
| <input type="checkbox"/> Agriculture          | <input type="checkbox"/> Content/Media                             |
| <input type="checkbox"/> AI/Machine Learning  | <input type="checkbox"/> Counter UAS                               |
| <input type="checkbox"/> Air                  | <input type="checkbox"/> Customer Value                            |
| <input type="checkbox"/> Airspace Integration | <input type="checkbox"/> Cybersecurity                             |
| <input type="checkbox"/> Algorithms           | <input type="checkbox"/> Defense                                   |
| <input type="checkbox"/> Automated Vehicles   | <input type="checkbox"/> Defense/Security                          |
| <input type="checkbox"/> Autonomy             | <input type="checkbox"/> Driverless Cars/Trucks/Automated Vehicles |
| <input type="checkbox"/> Batteries            | <input type="checkbox"/> Edge Computing                            |
| <input type="checkbox"/> Big Data             | <input type="checkbox"/> Education/ Training & Operations Safety   |
| <input type="checkbox"/> Blockchain           | <input type="checkbox"/> Energy/Power/Utilities                    |
| <input type="checkbox"/> Bootcamp             | <input type="checkbox"/> Environmental                             |
| <input type="checkbox"/> Business             | <input type="checkbox"/> Ethics                                    |
| <input type="checkbox"/> BVLOS                | <input type="checkbox"/> Expanded UAS Operations                   |
| <input type="checkbox"/> Certification        | <input type="checkbox"/> Geo-spatial                               |
| <input type="checkbox"/> Cinematography       | <input type="checkbox"/> Government                                |
| <input type="checkbox"/> Construction/Mining  | <input type="checkbox"/> Ground                                    |
| <input type="checkbox"/> Consumer/Hobbyist    | <input type="checkbox"/> Healthcare                                |



- |  |   |
|--|---|
| <input type="checkbox"/> Humanitarian                | <input type="checkbox"/> Property                     |
| <input type="checkbox"/> Human-Machine Teaming       | <input type="checkbox"/> Public Acceptance & Trust    |
| <input type="checkbox"/> Implementation              | <input type="checkbox"/> Public Safety                |
| <input type="checkbox"/> Industry                    | <input type="checkbox"/> R & D                        |
| <input type="checkbox"/> Infrastructure              | <input type="checkbox"/> Real Estate                  |
| <input type="checkbox"/> Inspections                 | <input type="checkbox"/> Remote ID                    |
| <input type="checkbox"/> LiDAR                       | <input type="checkbox"/> Robotics                     |
| <input type="checkbox"/> Mapping/Surveying           | <input type="checkbox"/> Safety                       |
| <input type="checkbox"/> Maritime                    | <input type="checkbox"/> Security                     |
| <input type="checkbox"/> Modeling & Simulation       | <input type="checkbox"/> Sensors & Payloads           |
| <input type="checkbox"/> Natural Resource Management | <input type="checkbox"/> Software                     |
| <input type="checkbox"/> Navigation                  | <input type="checkbox"/> Standards                    |
| <input type="checkbox"/> Networks                    | <input type="checkbox"/> Swarming                     |
| <input type="checkbox"/> Noise                       | <input type="checkbox"/> Telecom/Wireless             |
| <input type="checkbox"/> Oil/Gas                     | <input type="checkbox"/> Test and Evaluation          |
| <input type="checkbox"/> Photography                 | <input type="checkbox"/> UAM/AAM                      |
| <input type="checkbox"/> Policy                      | <input type="checkbox"/> Virtual Reality              |
| <input type="checkbox"/> Power Grid                  | <input type="checkbox"/> Warehouse/Delivery/Logistics |
| <input type="checkbox"/> Profits                     | <input type="checkbox"/> Weather                      |
|  | <input type="checkbox"/> Wireless and 5G Connectivity |
|  | <input type="checkbox"/> Other [Please specify]       |

**Proposal Domain \***

Select the domain that is most applicable to your area of interest, noting preference will be given to cross-domain content.

- Air
- Ground (includes robotics and automated vehicles)
- Maritime – Surface operations
- Maritime – Underwater operations
- Cross-domain / Enabling

**Audience \***

Select your target audience (select all the apply):

- Analyst
- Assessment/Claims Adjuster
- Business Development/Sales
- C-Level Executive
- Consultant
- Educator/Instructor
- Engineering/Technical
- Government/Policy/Regulatory
- Investment/Finance
- Journalist
- Legal
- Management
- Marketing/Communications

- Remote Pilot/Operator
- Research & Development
- Student
- Trainer
- Other (please specify)

### Past Presentation \*

Have you delivered this presentation at another conference or event?

- Yes
- No

Please list the event name, location, and date of the past presentation.

### Product/Service \*

Are you promoting a product or service in this presentation?

- Yes
- No

### Solution Union: Enterprise and Government Solutions

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### Speaker Agreement \*

If selected, through my participation as a program presenter at XPONENTIAL 2023, I agree to abide by the terms of this Speaker Agreement.

If presentation is delivered as part of XPONENTIAL 2023, I will not engage in any type of promotional marketing or selling of any product or service, unless approved by AUVSI. I will not disparage AUVSI in any way in connection with my participation as a program presenter at XPONENTIAL 2023.

If presentation is delivered as part of XPONENTIAL 2023, I grant to AUVSI a royalty-free, perpetual, irrevocable, transferable license to use, reproduce, publish, modify, and distribute in print, electronically, online, or in any other format, now or hereafter existing, my presentation (including all handouts, digital slide presentations, and all written and electronic materials provided in connection with the presentation) in whole or in part, for commercial or non-commercial purposes, with appropriate attribution to me. Further, I grant AUVSI permission to use, reproduce and distribute a summary of my presentation, with appropriate attribution. I **understand that this license does not change the fact that I retain copyright ownership of my presentation, and does not prohibit me from using my presentation in any way or from allowing others to use it.**

I warrant and represent, to the best of my knowledge, that my presentation does not violate any proprietary or personal rights of others (including any copyright, trademark and privacy rights), is factually accurate, and contains nothing defamatory or otherwise unlawful, and that I have the full authority to enter into this agreement and have obtained all necessary permissions or licenses from any individuals or organizations whose material is included or used in my presentation. I agree to indemnify and hold harmless AUVSI, its affiliates and sublicensees, and their respective officers, directors, employees, and agents, from any and all breaches of these representations and warranties.

I authorize AUVSI to use my name, photograph, and biographical data in connection with the use and promotion of the program.

- Yes - I agree to the terms
- No - I do not agree to the terms and my proposal will not be considered

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