

sUAS Vehicle Autonomy Questionnaire

<i>Respondent Contact Info</i>	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
Name of Group/Company:		<input type="checkbox"/>	<input type="checkbox"/>
Name of Business Unit Responding to the RFI (if applicable):		<input type="checkbox"/>	<input type="checkbox"/>
Designated Point of Contact (provide <u>one</u> contact) Name: Phone Number: Email Address:		<input type="checkbox"/>	<input type="checkbox"/>
Respondent Address:		<input type="checkbox"/>	<input type="checkbox"/>
Corporate/Group Website URL:		<input type="checkbox"/>	<input type="checkbox"/>

1. <u>Technology</u> Description	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
What is the technology and generally how does it work?		<input type="checkbox"/>	<input type="checkbox"/>
What problem or issue is being solved/addressed by this technology?		<input type="checkbox"/>	<input type="checkbox"/>
What are the expected benefits over current state-of-the-art or other approaches to solving the same problem?		<input type="checkbox"/>	<input type="checkbox"/>
How does this specific technology enable or benefit the mission applications listed above?		<input type="checkbox"/>	<input type="checkbox"/>
Is the technology commercially available and what is the cost?		<input type="checkbox"/>	<input type="checkbox"/>
What is the size, weight and power (SWAP) of your technology?		<input type="checkbox"/>	<input type="checkbox"/>
Do you currently have plans to miniaturize your technology? If so, what is the timeframe for this to occur?		<input type="checkbox"/>	<input type="checkbox"/>

2. Applications & Operations	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
What are the specific mission applications and/or NAS operations which would benefit from intelligent autonomy and what technology shortfalls are preventing those applications from being performed today?		<input type="checkbox"/>	<input type="checkbox"/>
What Phase of Flight will your technology assist autonomous operations? The seven phases to consider are: 1) Surface Operations, 2) Take-off, 3) Climb, 4) Transit to/from mission execution location, 5) Mission Execution, 6) Descent, 7) Landing.		<input type="checkbox"/>	<input type="checkbox"/>
What type of aircraft (i.e. rotorcraft, fixed wing, lighter-than-air) is your technology designed to operate with? Has it already been demonstrated with this type of aircraft? If so, please describe.		<input type="checkbox"/>	<input type="checkbox"/>

3. Required Supporting Technologies	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
What is required to support the technology?		<input type="checkbox"/>	<input type="checkbox"/>
What are the computational hardware/resource requirements for this technology? (e.g. do they require a Supercomputer, FPGA, PC/workstation, smartphone, embedded or microcontroller, etc.?)		<input type="checkbox"/>	<input type="checkbox"/>

What external information or sensors are required as input for this technology to work? (E.g. ADS-B, EO/IR, radar, etc.).		<input type="checkbox"/>	<input type="checkbox"/>
Is this an on-board technology for a small UAS or does it reside in the GCS and how does a lost-link impact the technology?		<input type="checkbox"/>	<input type="checkbox"/>

4. Maturity level of Technology	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
What is the Technology Readiness Level of the technology?		<input type="checkbox"/>	<input type="checkbox"/>
What testing or validation has been done in what type of environment? (Simulation only, flight tested, etc.)		<input type="checkbox"/>	<input type="checkbox"/>

5. Technology Availability	<i>Response</i>	<i>Publish</i>	<i>Protect</i>
If NASA wishes to bring or help bring this technology to the community, what is the current availability of the technology – (Open or Open-source, Fair Reasonable and Non-Discriminatory (FRND) licensing, proprietary):		<input type="checkbox"/>	<input type="checkbox"/>

<p>How will developer work with NASA to bring the technology to the sUAS community?</p>		<input type="checkbox"/>	<input type="checkbox"/>
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<p>6. Collaboration & Tech Transfer</p>	<p><i>Response</i></p>	<p><i>Publish</i></p>	<p><i>Protect</i></p>
<p>Would the Respondent be willing to work in a collaborative fashion with NASA?</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>Does the respondent need NASA's help in maturing the technology and/or bringing the technology to the community?</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>Would the respondent be willing to provide intellectual property rights to NASA?</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p>How would the respondent work with NASA to bring the technology to the sUAS community?</p>		<input type="checkbox"/>	<input type="checkbox"/>