**Appendix 1: Response Form**

This form helps the Alliance assess each site’s technical, operational, and infrastructure capabilities in relation to the needs of the national grid. Please provide responses to the sections below, adhering to the specified page limits.

1. **Organization Information**
	1. Name of institution
	2. Address
	3. Type of Organization

☐ University, college, or research hospital in Canada with active or potential research capacity

☐ Not-for-profit organization in Canada conducting or capable of conducting research

☐ Institution or not-for-profit organization in Canada supporting Canada’s digital research infrastructure

* 1. Primary contact name
	2. Contact title
	3. Contact email
	4. Contact phone
1. **Preferred Hosting Role (½ page)**

Please indicate your preference and ability to host equipment for one or both of the following models. If the site is able to host both models, then please identify which model is being addressed in the sections below.
☐ multi-site cluster (part of a three-site geo-distributed cluster operating as one logical cluster)
☐ single-site cluster (self-contained cluster at one data centre)

1. **Rack Capacity (½ page)**
The basic building block is two racks. For redundancy and balance, the Alliance expects each site to host up to six racks.
	1. How many racks could you host today?
	2. What is the maximum number of racks you could host within the Pilot window?
2. **Power and Cooling Infrastructure (2 pages)**
	1. Describe the power supply and capacity for the proposed footprint.
	2. Include the UPS system and capacity details (if available) and estimate how long the UPS can power the rack(s) at the proposed load.
	3. If a diesel generator is available, indicate whether the rack(s) are on generator-backed circuits and state its availability.
	4. Are any upgrades required to provide power to the rack(s)?

☐ Yes. If yes, outline the scope and lead time.
☐ No.

1. **Data centre management (1 page)**

Please describe the on-site operations team and their availability. Ie) 7x24 on-site or call in? Availability for emergencies? Etc.

1. **Cybersecurity and physical security (1 page)**

What are the cyber and physical security features available in the data centre? For instance, the availability of firewalls, and the software being used to monitor network traffic.

1. **Change management (½ page)**
	1. Describe your data-centre change management process.
	2. How will the Alliance Grid Operations Centre be notified of planned changes or maintenance that could affect the Pilot (lead time, channels, approval points, maintenance windows)?
2. **Incident management (½ page)**
	1. Describe your incident management process, including classification and escalation.
	2. How will the Alliance Grid Operations Centre be notified of unplanned outages or security events (notification method and target response times)?
3. **Monitoring (1 page)**
	1. Describe the monitoring systems in place for power, cooling, environment, racks, and network.
	2. Can your systems share telemetry or alerts with the Alliance Grid Operations Centre? Specify interfaces or methods for sharing (for example, APIs, SNMP, syslog).
4. **Tape facility (1 page)**
	1. Can you provide access to a tape library?

☐ Yes.
☐ No.

* 1. If yes, provide details.
* Is a tape librarian or equivalent support available?
* What management software is used, and can it be made available for backup and archive of inactive data?
* Would additional drives or media be required? Include estimates.
1. **Network connectivity (1 page)**
	1. Describe the current cross-connect to CANARIE/NREN, including port speeds and redundancy, and the bandwidth you can commit to the Pilot racks.
	2. For inter-site operation of a distributed Ceph cluster, can you provide 100 Gbps cross-connect capacity to an upgraded or new NREN/RAN connection? If not, state the maximum available capacity and any upgrades that would be required, including lead times.
	3. Describe any commercial internet connectivity that would be used, and any required cross-connects.