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# GPN Cyberinfrastructure Services: CI Advisory Committee Report

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GPN Annual Meeting, June 4, 2010



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# From GPN Strategic Plan

## ■ **Mission**

- To support the research and education missions of our members through the use of advanced cyberinfrastructure.

## ■ **Strategic Direction 2:**

- Actively support the development of and provide support to research and education initiatives among the membership that extend or use cyberinfrastructure in novel or unique ways.
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# Additional goals from the GPN Strategic Plan related

## to CI

- 2.1.1 Identify and promote promising areas for CI and research collaboration among members
  - 2.2.1 Facilitate GPN member institutions in developing a regional CI plan for sharing resources and expertise
  - 2.2.2 Facilitate, as appropriate, shared access to GPN member resources and GPN owned resources
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# Background

- Purpose:
  - “...formulating a CI plan to make it possible
    - to achieve [GPN Strategic] objectives and distinguish the role of GPN from that of campus and state members and national organizations, and
    - to partner with these organizations in ways that compliment and advance the mission of GPN members.”

From the Executive Committee approved CI  
Advisory Committee Plan

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# Members

- Mike Abbiatti, AREON
  - Gary Allen, University of Missouri System, MU, GPN Executive Council
  - Guy Almes, Director, Academy for Advanced Telecommunications and Learning Technologies, Texas A & M (external member)
  - James Deaton, ONENET & GPN Executive Council
  - Claude Garelik, SD Board of Regents & GPN Executive Council Chair
  - Del Johnson, SDSU & GPN Representative Council
  - Myron Lowe, UMN & GPN Representative Council
  - Rick McMullen, KU
  - Henry Neeman, OU
  - James Rice, SDSU, SD EPSCoR Director
  - Ron Roeber, UNL
  - Gordon Springer, MU
  - David Swanson, UNL & Holland Computing Center
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# Here's What We've Done

- January 25: First Meeting
  - February: CI Needs Assessment Tool Developed
  - mid-March: CI Needs Assessment Survey Distributed
  - March 31: CI Needs Assessment Survey Completed
  - April: Data from first survey analyzed
  - May: Second survey instrument developed
  - June: Second survey issued
  - August: Report with recommended actions to Executive Committee
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# Survey 1: Respondent Profile, first survey

<b>Arkansas</b>	<b>9</b>
<b>South Dakota</b>	<b>31</b>
<b>Oklahoma</b>	<b>61</b>
<b>GPN</b>	<b>2</b>
<b>Nebraska</b>	<b>30</b>
<b>Iowa</b>	<b>2</b>
<b>Kansas</b>	<b>27</b>
<b>Missouri</b>	<b>231</b>

# Survey 1: Respondent Profile

## Grouped by Campus HPC Use

<b>HPC Campus Users*</b>	<b>55%</b>
<b>HPC Campus Aware*</b>	<b>25%</b>
<b>HPC Campus Not Aware</b>	<b>20%</b>
<b>N</b>	<b>410</b>

## Grouped by Regional/National HPC Use

<b>HPC Regional/National Users*</b>	<b>22%</b>
<b>HPC Regional/National Aware*</b>	<b>35%</b>
<b>HPC Regional/National Not Aware</b>	<b>42%</b>
<b>N</b>	<b>410</b>

# Survey 1: Prioritized Needs (1 of 2)

- Online demonstrations of emerging CI-related technologies.
  - Regular email communication on the latest developments in CI.
  - **\*Inventory of CI resources available across my campus/organization.**
  - **\*Inventory of CI resources available regionally and nationally.**
  - **\*Searchable knowledgebase of CI expertise (people, tools, applications, resources) in my field.**
  - Affinity group of individuals who communicate regularly to discuss developments in CI.
- \* indicates this was considered high priority more often than medium priority by knowledgeable respondents
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# Survey 1: Prioritized Needs (2 of 2)

- **\*Opportunities for collaboration.**
- Assistance in CI resource discovery.
- Assistance in identifying potential collaborators.
- I would like to use CI for classroom teaching?
- Help in promoting my/my campus/my organization's CI work to regional and national organizations.
- Help in promoting my/my campus/my organization's networking work to regional and national organizations.
- **\*Help in identifying possible revenue streams for my/my campus/my organization's CI efforts.**
- **\*Help in identifying cost containment/avoidance strategies for my/my campus/my organization's CI efforts.**

\* indicates this was considered high priority more often than medium priority by knowledgeable respondents

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# Survey 1: Priorities from Open-ended (free text) Responses

- Security
  - Bandwidth
  - Specialized CI tools for research
  - Specialized software
  - Specialized hardware (e.g., visualization)
  - Shared Data Resources
  - Shared computational resources
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# Survey 1: Possible Roles for GPN to support regional CI development and use

- Training materials and video classes
  - Live onsite training
  - Online demonstrations
  - Affinity group formation
  - Collaboration opportunities
  - Source of Documentation (web)
  - Support - (e.g., a centralized help desk model)
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# Next steps

- Develop a list of services based on survey 1
- Implement an internal evaluation of those services by committee members
- Expand that evaluation through a second survey

<https://surveys.ksu.edu/TS?offeringId=160635>

- Issue report with recommendations to GPN  
→ Executive Committee



Executive Committee

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# Revisit the Background

- Purpose:
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    - to partner with these organizations in ways that compliment and advance the mission of GPN members.”

From EC approved CI Advisory Committee  
Plan

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# Some questions...

- What components could be included in the report that will be most helpful to you?
  - We have several major HPC centers in the region. How could GPN work with these centers to better meet regional needs?
  - How can campus CI be built up to better leverage regional resources?
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# More questions...

- Can we bring campuses and regional centers together in a way that emphasizes cooperation based on local/regional expertise?
  - What support services are needed to build up CI on university campuses?
  - Is there a need to provide CI to two- and four-year institutions, and to our K-12 schools?
  - How can we work together at a regional level to fund CI development?
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# Thanks! Questions?

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