The most effective means of support is provision of an integrated set of IT services.

Shifting to integrated services:

Services and encourage faculty research and partnerships

Defining Research Intensity

Research intensity = Total research \$/Student FTE

Low Medium High

Services and infrastructure to partner with researchers on grants

Maturity

Indicators of maturity

LEVERAGE

PROVIDE

SERVICES

STAFFING

Percentage of research computing staff/total IT staff:

High research intensity

Medium research intensity

Low research intensity

EFFECTIVENESS

Perceived effectiveness of research computing practices is low, even among high-research-intensity institutions.

STEPS TO IMPROVEMENT

Videoconferencing services

Management of academic-unit research servers

Provision of data centers to operate academic-unit servers

Consulting/support for storage and data access

Assistance in preparing grant applications

Data management, storage, curation

Review/approval of other technical aspects of research

Review/approval of NSF-required plans

Consulting/support for high-performance computing

High-performance computing services

Research intensity

High Medium Low

Percentage offering service

High Med. Low

Research intensity

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The data from this infographic come from the ECAR report "Research Computing: The Enabling Role of Information Technology". Visit educause.edu/research-computing to view the full report.

Research intensity: Total research $/Student FTE

>440 High

<440 Medium

50 Low

Visit educause.edu/research-computing to view the full report.