

# KINBER

A Commonwealth of Collaboration

**KINBER**, the Keystone Initiative for Network Based Education and Research, is a trusted technology partner that provides a strategic and competitive advantage to Pennsylvania-based organizations through high-speed broadband connectivity, collaboration, and innovative use of digital technologies.

## GET TO KNOW KINBER

KINBER is a non-profit organization providing broadband connectivity to over 80 organizations in Pennsylvania on PennREN, the commonwealth's only statewide research, education, and community network. Today, KINBER's cyberinfrastructure traverses more than 47 of Pennsylvania's 67 counties, many of which are unserved or underserved in terms of broadband network access. The organizations served include K-12 schools, public and private colleges as well as universities, hospitals, health care organizations, community colleges, libraries, state/local government, and more.

## THE KINBER DIFFERENCE

KINBER works with organizations to identify the most cost-effective network services, including last-mile connectivity, Internet services, Internet2, peering/caching and on-net services such as VoIP, colocation and disaster recovery. By aggregating demand, KINBER provides robust, fully-redundant services, staffed 24x7x365 with quality customer service, expertise and technical leadership. KINBER also provides additional services to its constituents including: Working groups (Collaborative Video, Cybersecurity, PennREN Users Group); education and training opportunities through webinars and in-person workshops; professional services for end-to-end performance and network infrastructure review and design; and support for research projects and grant submissions.

KINBER offers an all-inclusive service delivery model on PennREN including Ethernet Port Service, Commodity Internet, Internet2, KINBER Peering and Caching Services, KINBER Member Exchanges (KMEX), and bandwidth from 250 Mbps to 10 Gbps. Customized service bundles are available as well as dark fiber annual leases and multi-year IRUs as Full Footprint, Segment or Per Mile. Finally, KINBER has last-mile options available for fiber, lit services, and wireless connections.

## NETWORK INVESTMENTS

In 2010, KINBER was awarded \$99.67 million from the American Recovery and Reinvestment Act. Armed with that funding and \$29 million more from in-kind and private support, KINBER built the 1,800-mile PennREN fiber network.

## PennREN SERVICE

PennREN network service packages are available to meet every need and budget from the à la carte menu to our all inclusive PennREN Advantage including commodity internet, Internet2, Peering and Caching, and KINBER Member Exchange (KMEX).



## CORE SERVICES

- Commodity Internet
- Internet2
- KINBER Peering and Caching Services
- KINBER Member Exchange (KMEX)
- Ethernet Point-to-Point
- Colocation Services
- E-Rate Service Provider
- Managed Router Services
- Professional Services



## COMMUNITY SERVICES

- BlueJeans Cloud-Based Videoconferencing
- KINBER Digital Cloud Repository Service
- Webinars, Trainings, and Workshops
- Merit Professional Development
- Grant Assistance

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## TRUSTED TECHNOLOGY PARTNER

KINBER is able to deliver maximum value to a diverse range of members by offering a variety of network and infrastructure services and “above-net” services to help meet their organizational needs and goals.

**CONNECTIVITY:** Access points to PennREN, Commodity Internet, Internet2, KINBER Peering and Caching Services, KINBER Member Exchange (KMEX), Ethernet Point-to-Point, and Dark Fiber.

**COMMUNITY SERVICES:** A range of value-added “above-net” services at discounted rates such as technical training and professional development opportunities, educational programs, grant assistance, and collaboration facilitation and development for our members and the community.

**STRATEGIC PARTNERSHIPS:** Help meet a diverse range of needs and requirements including partnerships with other research and education networks and network consortia as well as strategic partnerships with corporate entities such as TierPoint, Sungard AS, and others.

**TECHNOLOGY INFRASTRUCTURE SOLUTIONS:** Last-mile connectivity options are offered to support the needs of our members, ranging from small health systems to large university settings.

## QUICK FACTS

KINBER has **124 total connections**, including multiple connections for organizations.

At least **32 entities have upgraded their services**, ranging from increasing their speed from 1 Gbps to 10 Gbps, to adding Internet2 connectivity and increasing bandwidth.

The number of **10 Gbps sites doubled** from 13 sites in 2015 to 26 sites in 2016.

Approximately **60% of PennREN’s connections are on-net** while 40% connect to the network via partnerships with last-mile providers.

**Geisinger Health System** was first health organization connected to PennREN.

**University of Pittsburgh** is the first in Pennsylvania to provide 10 Gbps connectivity to all campuses.

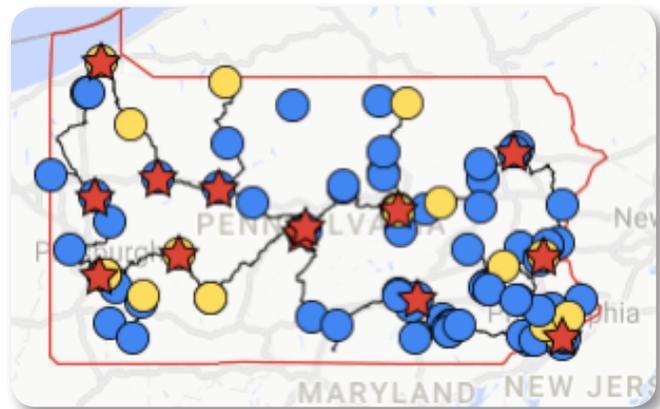
KINBER received a **\$150,000 NSF grant** to strengthen campus cyberinfrastructure.

Fannett-Metal School District is first to receive a grant through **KINBER Resource Pool**.

## LOOKING FORWARD

KINBER’s mission is to provide the highest quality and most innovative services to members. The KINBER Board of Directors has established five strategic goals as the organization continues to mature in operations and services. Over the next three years, KINBER will focus on:

1. Increase value to members
2. Ensure sustainability and diversify revenue sources
3. Expand reach into underserved/unserved areas
4. Build strategic partnerships with service providers
5. Enhance communication and recognition of KINBER brand



*KINBER is the anchor of a technological revolution that can unleash the talented minds of a generation of Pennsylvanians who will push the boundaries of science, business and government ... we must seize this moment in PA and rally around the tremendous foundation already established by the KINBER organization and continue your great work to connect PA to the future.*

The Honorable John T. Yudichak  
State Senator (D-Luzerne/Carbon)