



# JOINT COMMITTEE ON INFORMATION TECHNOLOGY

*December 15, 2010*

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CIO, Kansas Board of Regents



## Kan-ed is...

- ★ A program administered by the Board of Regents, connects almost 500 Kansas hospitals, libraries, higher education institutions, and K-12 schools with high-speed bandwidth.
- ★ Bringing members together through Interactive Distance Learning and the exchange of data. Members have access to shared databases, video-conferencing, telemedicine, and to content that is otherwise unavailable or available at prohibitive costs.
- ★ A unique public/private partnership:
  - Kan-ed leases 100% of its circuits from over 20 telecom and ISP providers in Kansas.
- ★ Providing our members a connection to one of the most advanced research networks in the world (Internet2).
- ★ A world-class distance learning and video-conferencing network:
  - Dedicated video operation center with worldwide access and scheduling services.
- ★ An aggregator of services:
  - Increasing economies of scale and purchasing power to lower costs for critical databases and services for our members.
- ★ Providing technology equipment grants and connectivity grant assistance for access to Kan-ed and the commercial internet by maximizing funding and the federal E-rate program which has just dramatically changed.



## Kan-ed 2.0

- ★ RFP was completed in 2009 to migrate the network to an advanced virtual private network or AVPN technology statewide network.
- ★ Kan-ed connects with over 20 telephone, cable and internet service provider companies in KANSAS which in turn provide connectivity to the Kan-ed network for Kan-ed members using their local provider of choice.
- ★ Kan-ed provides a T-1 of internet connectivity to all members as “base” level of broadband access. Members pay pro-rated costs at 3mb and 100% of costs above the 3mb level.
- ★ Kan-ed connects directly with both KanWIN (state agency network) and KanREN (University Research Network) so that our joint memberships and agencies can connect and “work” together across the networks.

# KANSAS BOARD OF REGENTS



## Kan-ed Usage Statistics

### Membership & Connectivity:

	Members		Sites	
	Total	Connected	Total	Directly * Connected
Higher Ed. Institutions	53	34	99	50
Hospitals	154	71	212	100
K-12 Schools	339	198	1,961	268
Libraries	338	132	390	151
<b>Total:</b>	<b>884</b>	<b>435</b>	<b>2,662</b>	<b>569</b>

### Video sessions *scheduled*\*\* from September 1st, 2010 through December 31st, 2010:

7,990 Individual **point to point** sessions for a total of **9,193** hours.  
 7,560 Individual **multi-point** (MCU) sessions for a total of **8,972** hours.

### Empowered Desktop hours of usage for the top 5 applications (June 1, 2009 through July 22, 2010):

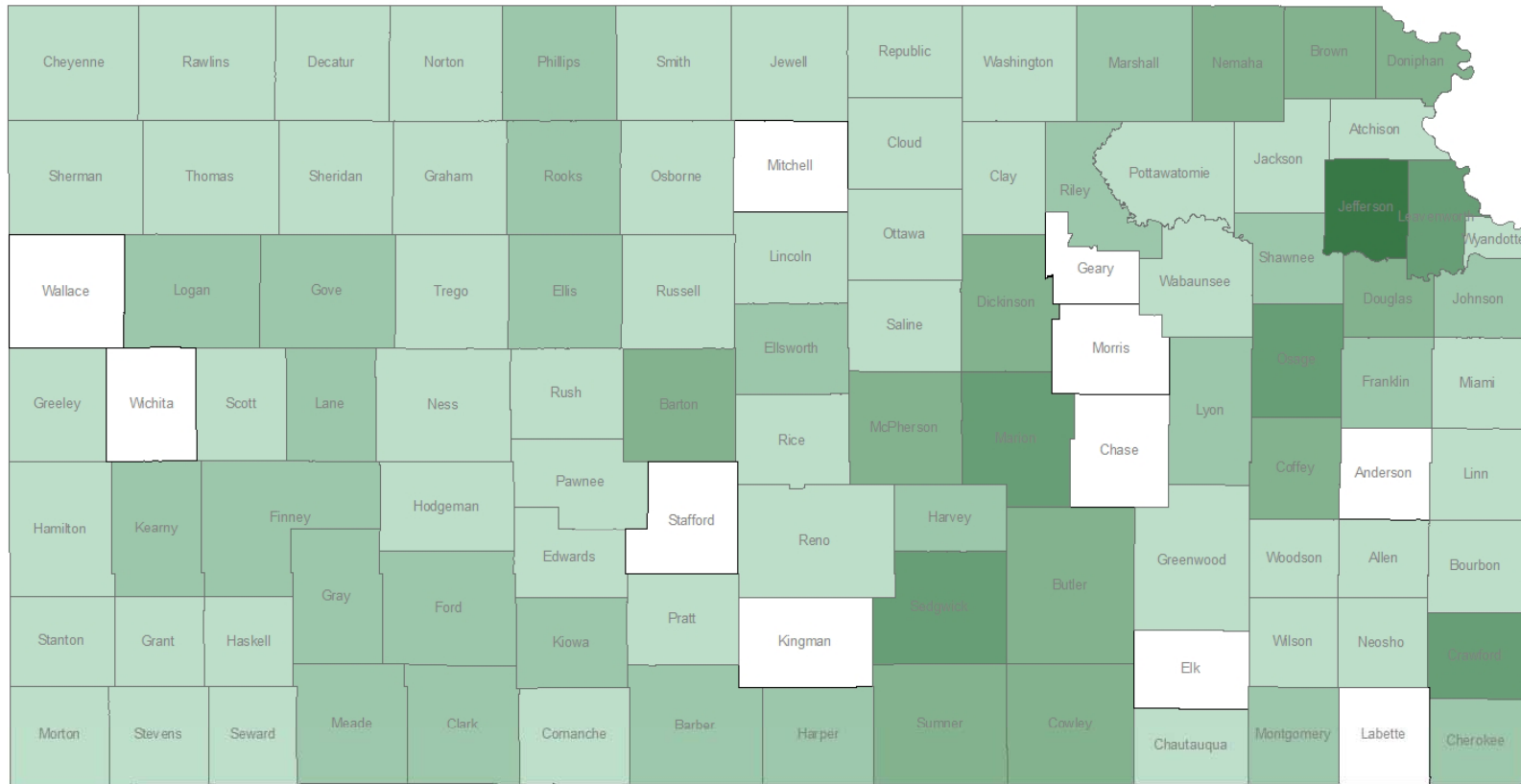
1. LS Test Builder (version 4)	57,306 hours
2. Cengage Learning	15,702 hours
3. WorldBook Kan Ed	13,968 hours
4. Typing Pal	13,233 hours
5. netTrekker d.i. Kan-ed	11,647 hours

\* Includes only the number of sites *directly connected* to the Kan-ed 2.0 network as of December 13, 2010. More sites may have access to Kan-ed via a member's internal network. For example, most school districts have only one site directly connected to Kan-ed, but then share that connection with all buildings in the district.

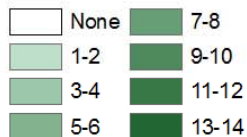
\*\* Only includes video conference sessions that are scheduled through the Renovo Scheduler as of September 16, 2010. This does not represent all video conference sessions that occur on the Kan-ed 2.0 network.

# Members Connected to the Kan-ed Network

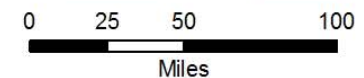
282 Members Connected as of December, 2007



## Members Connected

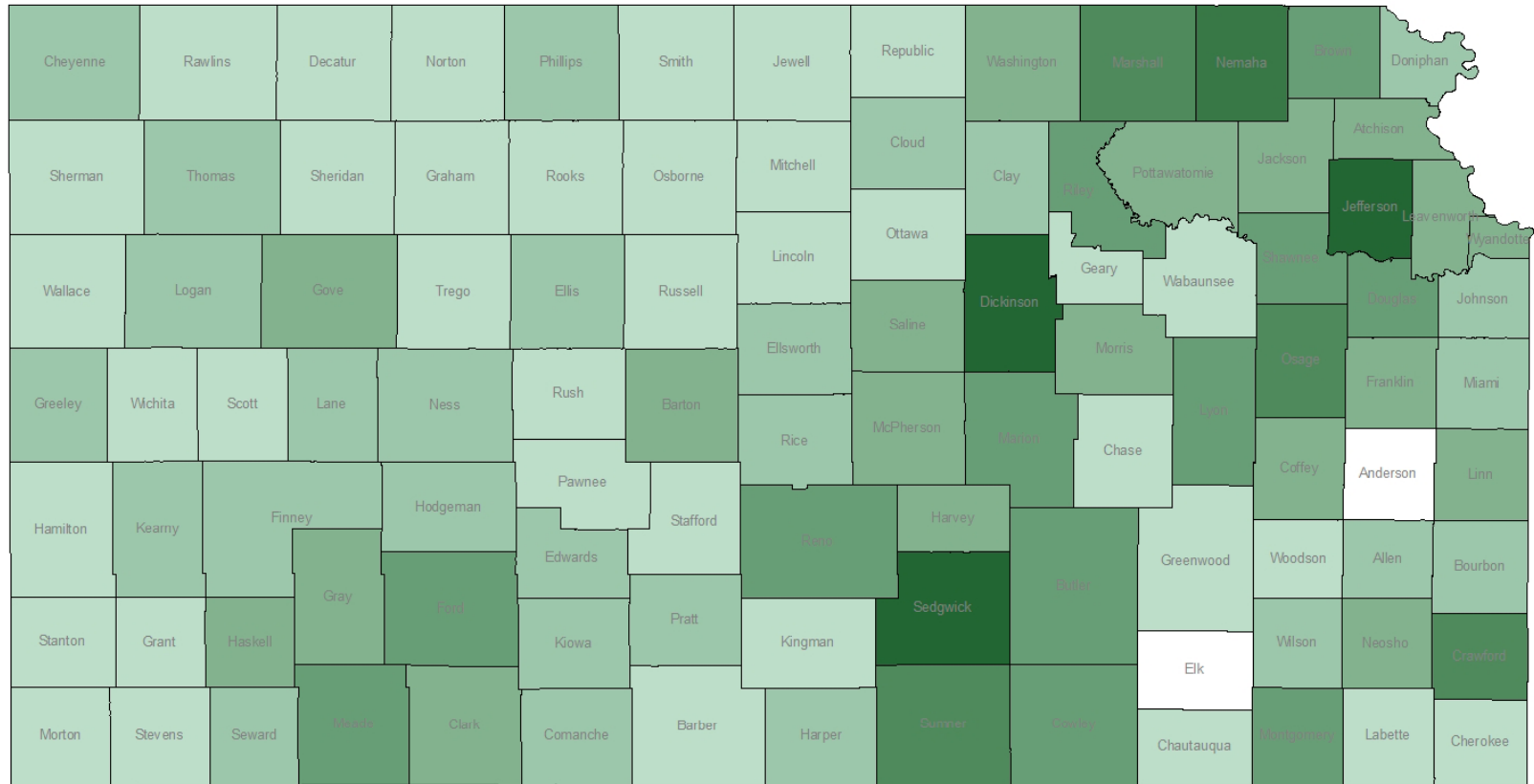


Note: Members may have multiple physical locations connected to the Kan-ed network but are counted here as single entities.

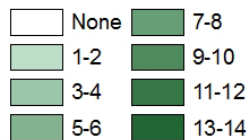


# Members Connected to the Kan-ed Network

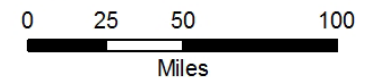
445 Members Connected as of December, 2010



### Members Connected



Note: Members may have multiple physical locations connected to the Kan-ed network but are counted here as single entities.





# Kan-ed Member Services

- ★ Kan-ed Empowered Desktop Authenticated Portal\* (430k subscribers)
  - Kan-ed Portal is “Single Sign-On” so members sign on once for all applications.
- ★ Broadband Equipment Grant Program For Kan-ed Authorized Providers
- ★ Filtered Internet Service (CIPA Compliance) for K-12 and Libraries Available
- ★ EM Resource Emergency Management System
- ★ E-rate 1-800 telephone support
- ★ Multipoint Control Unit (MCU) Access
- ★ Renovo Scheduled Video Conference Services
- ★ Network Operation Center (NOC) Support
- ★ Access to a private, secure network for video and data services
- ★ Access to Internet 2 content and services
- ★ Enhancing Technology Grant Program
- ★ Kan-ed Livetutor.com
  - Formerly called “Homework Kansas.”
  - Kan-ed funds program as a grant which provides one-on-one tutoring for the full K-20 experience and includes GED preparation, career services, citizenship resources and more!



# Drivers of Kan-ed 2.0 Network Growth

- ★ Enhancements in technologies:
  - H.323 - High-Definition (HD) Video Conferencing at reduced cost
  - “Cloud” based service offerings (Kan-ed 2.0 Network as a Service (NaaS))
- ★ K-20 utilizing worldwide learning experiences
- ★ Colleges and universities meeting the growing demands of non-traditional, adult learners and students with advanced technical knowledge and requirements
- ★ Libraries becoming the “hub” for advanced communications in their communities
- ★ Hospitals needing to perform secure data transfers, training and telemedicine
- ★ Kan-ed is leading the charge with leadership roles in broadband state policy and health information technology state initiatives.



# 2011 Legislative Proposal

- ★ Approved for introduction by LEPC in November.
- ★ Updates older statutory language.
- ★ Adds “Health Information Providers” to the network.
- ★ Allows connections to and from “Community Based Technology Networks.”
- ★ Allows connections to and from “Community Anchor Institutions.”
- ★ Allows Kan-ed to partner with DISC to utilize other state assets (fiber, space, etc.).



## In Closing...

- ★ Kan-ed will continue to support education technology, health information technology, statewide broadband initiatives and research efforts by:
  - Working with the private industry and government leaders to remove barriers to high-speed broadband access in Kansas.
  - Providing access to collaborative opportunities among our membership groups and state network partners.
  - Bringing technological resources to K-12 schools, Libraries, Higher Education and Hospitals.
  - Leveraging existing resources to demonstrate commitment and efficiencies of scale for the benefit of our State and membership.
  - Maximizing our members ability to apply for federal and state funding programs related to E-Rate, Federal broadband programs, Rural Utilities Service Grants (RUS), Health Information Technology Grant Programs and other technology programs that are made available to the State of Kansas.