



*“BdREN is connected to several international research communities in Asia Pacific, Europe and North America, via the Trans-Eurasia Information Network 3 (TEIN3) and Internet2. The connectivity coverage includes Malaysia, China, South Korea, Japan, Thailand, Vietnam, Philippines, Singapore, Indonesia, Australia, Europe and the United States”*

## *Challenge was to Connect Institutions*

Academic and Research Institutions were lacking a common network through which they can be interconnected and can communicate each other to share their views and information. They had their own isolated but not a shared one.

BdREN project has enabled access to research bandwidth and connectivity to World Wide Research Education network. By ensuring reachability of dedicated transmission node to each institutes at their door step. This included deployment of advance network equipment's at each institutes and establishment of MPLS transmission backbone country wide.

## **Achievements Through Hard Work**

**C**onnected both public and private academic institutes across the country under a single robust platform

**E**ducational Institutes started getting access to research bandwidth via this platform.

**T**hey can now communicate and collaborate with other both within and beyond national boundary.

**T**heir access to the Data Center Cloud Platform resources increased their productivity.

**E**ducational Institutes can boost up research and development by getting. Access to interactive online teaching will boost up these institution's research and development.

## **Solutions That Made It Happen**

- ▶ Triple play network architecture
- ▶ MPLS backbone
- ▶ Enable seamless communication service to education institutes countrywide via dedicated transmission backbone
- ▶ Provide research bandwidth to educational institutes
- ▶ Central MCU server for Video end points
- ▶ Content server for streaming recorded session to user
- ▶ Central Call Manager server for handling voice call session
- ▶ Application to host online meeting with foreign education institutes

- ▶ Ensure integration of Wireless Access Point to connect Video Conferencing system
- ▶ Integration of Cloud Computing Platform with the Data Network
- ▶ Deploy Network Monitoring System to monitor both data and transmission network

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