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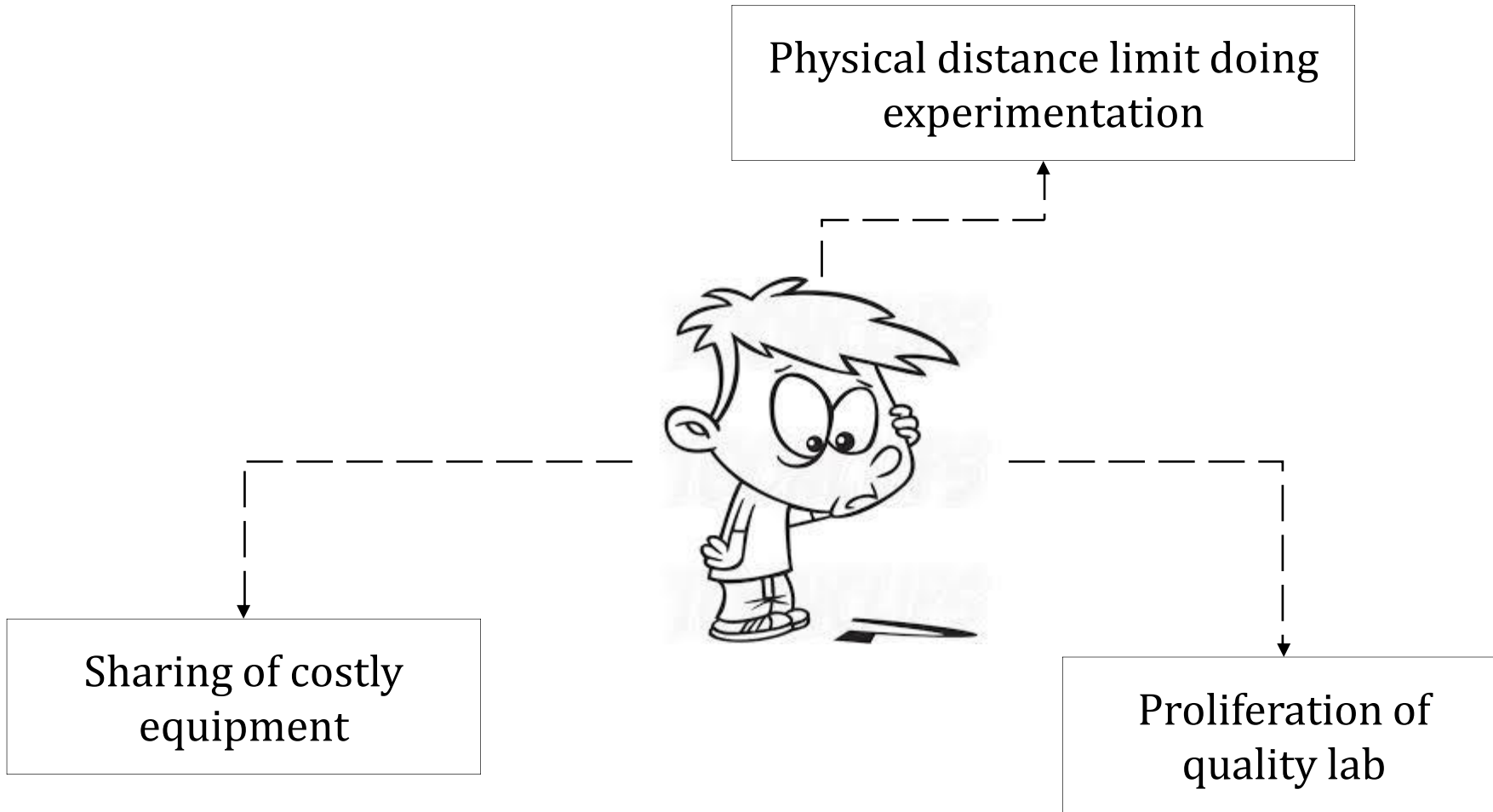
WHAT IS VIRTUAL LAB?

- An Initiative of **Ministry of Human Resource Development (MHRD)** Under the aegis of The **National Mission on Education through ICT (NMEICT)**

SALIENT FEATURES

- Anytime anywhere lab
- Free to use
- Accessible through internet on any PC / Laptop
- Surprisingly even on your cell phone / tablet
- Developed in self learning mode
- Innovative experimentations
- Over 100 virtual labs have already been developed

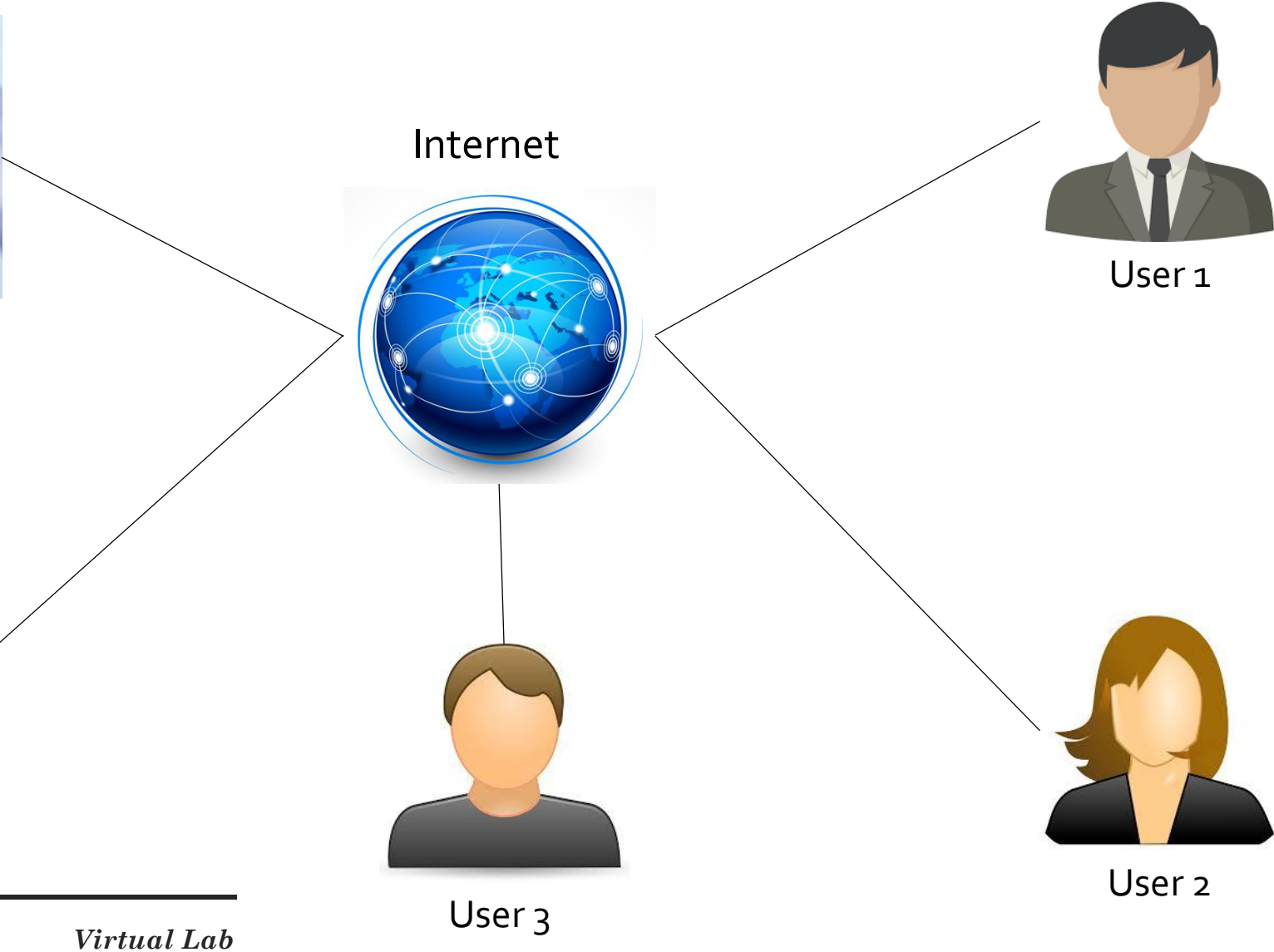
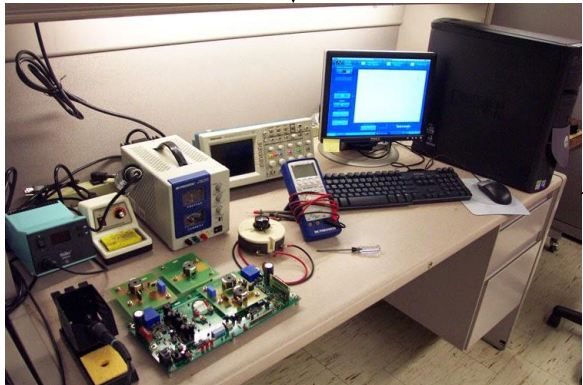
MOTIVATION



THE BASIC IDEA



Physical Labs



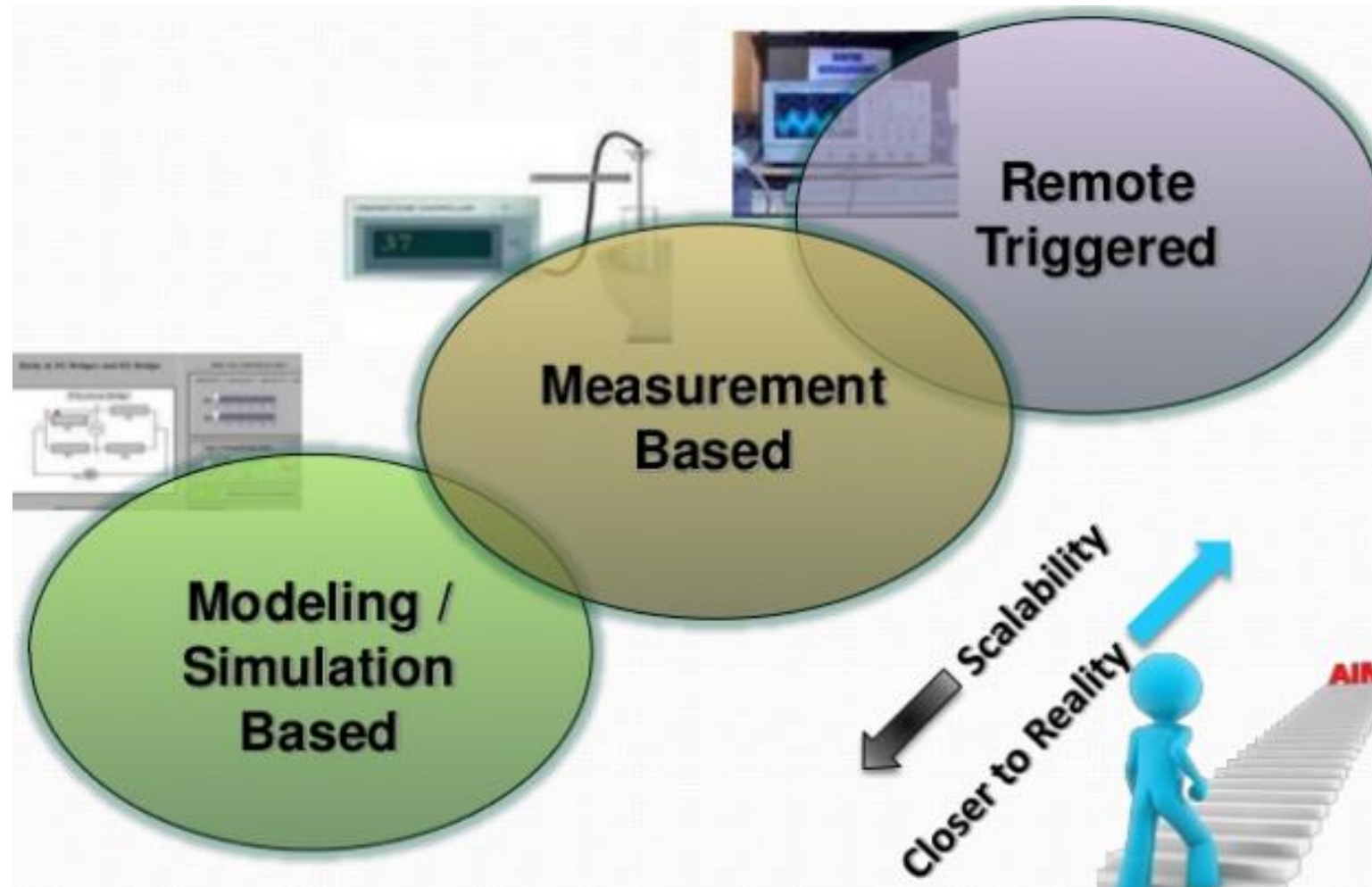
OBJECTIVES

- To provide remote access to labs in various disciplines of science and engineering
- To cater to students at the UG level, PG level as well as to research scholar
- To enable the students to learn at their own pace, and to arouse their curiosity
- To provide a complete Learning Management System that includes web resources, video lectures, animated demonstrations and self evaluation

PHYSICAL LAB VS. VIRTUAL LAB

Factor	Physical Lab	Virtual Lab
Cost	Typically in few Lakh Rupees	Almost Nil (Only your existing PC with internet is needed)
Availability	Limited in time and space	Designed for 24x7 usage
Experimentations	Limited options for innovation	Provides wider & safer options for innovative experimentations
User experience	Best	Second best

TYPES OF VIRTUAL LABS



INTENDED USERS

- **College students** who do not have access to good lab facilities
- **High school students** whose inquisitiveness will be triggered, possible motivating them to take up higher studies
- **Different engineering colleges** who can benefit from the content and related teaching resources
- **Researchers in different institutes** who can share collaborate equipment and resources

PARTICIPATING INSTITUTES

- IIT Delhi
- IIT Bombay
- IIT Kanpur
- IIT Kharagpur
- IIT Madras
- IIT Roorkee

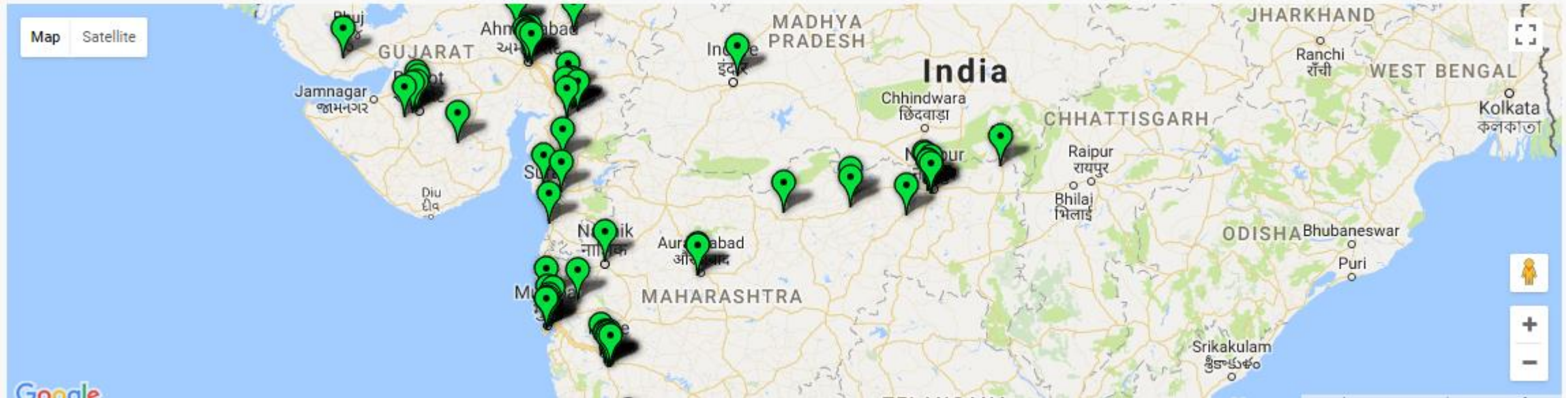


- IIT Guwahati
- IIT Hyderabad
- Amrita University
- Dayabagh University
- NITK Surathkal
- COE Pune

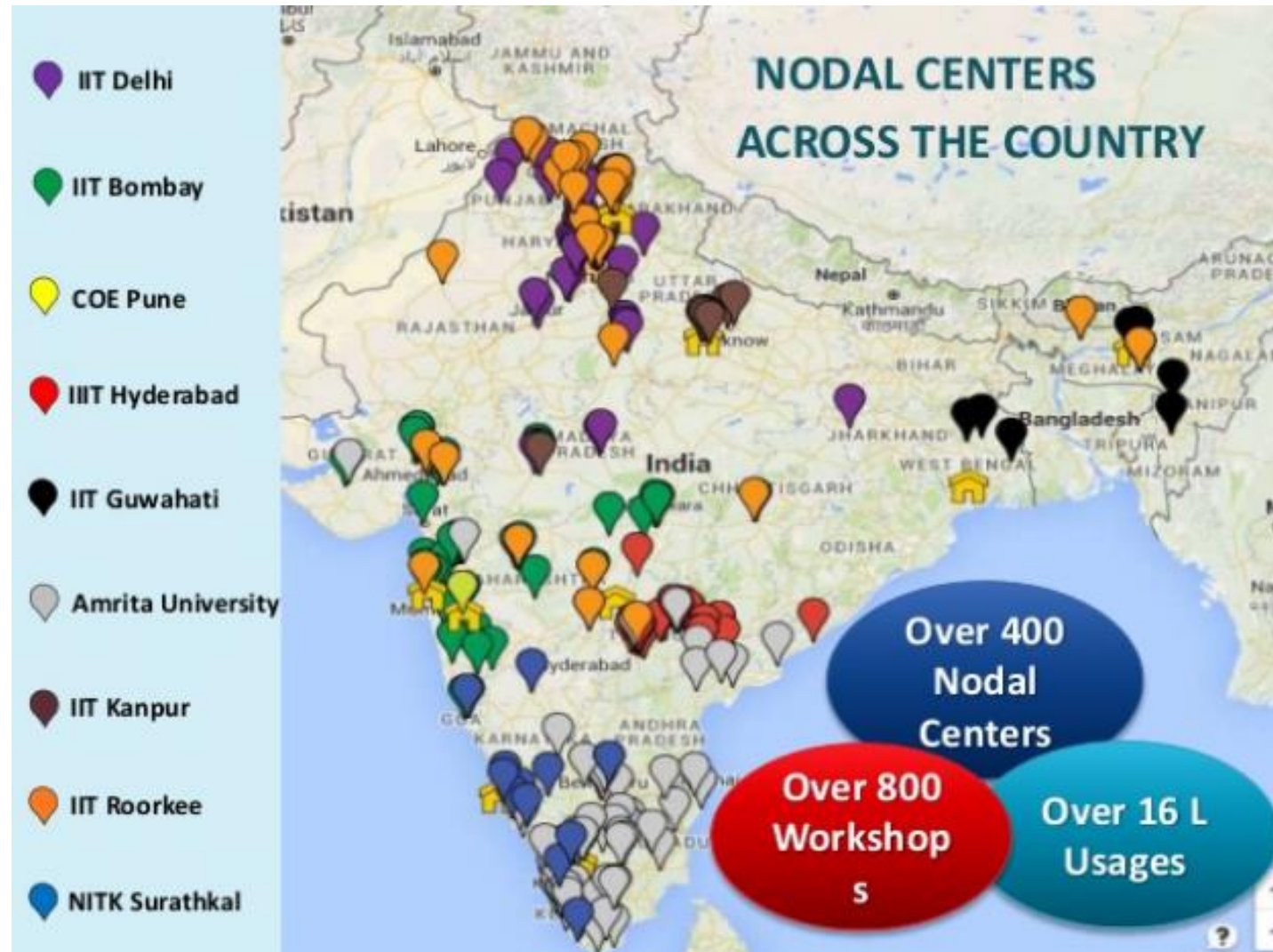
BROAD AREAS FOR VIRTUAL LAB

- Electronics and Communication Engineering
- Computer Science and Engineering
- Electrical Engineering
- Mechanical Engineering
- Civil Engineering
- Chemical Engineering
- Chemical Science
- Physical Science

REACH

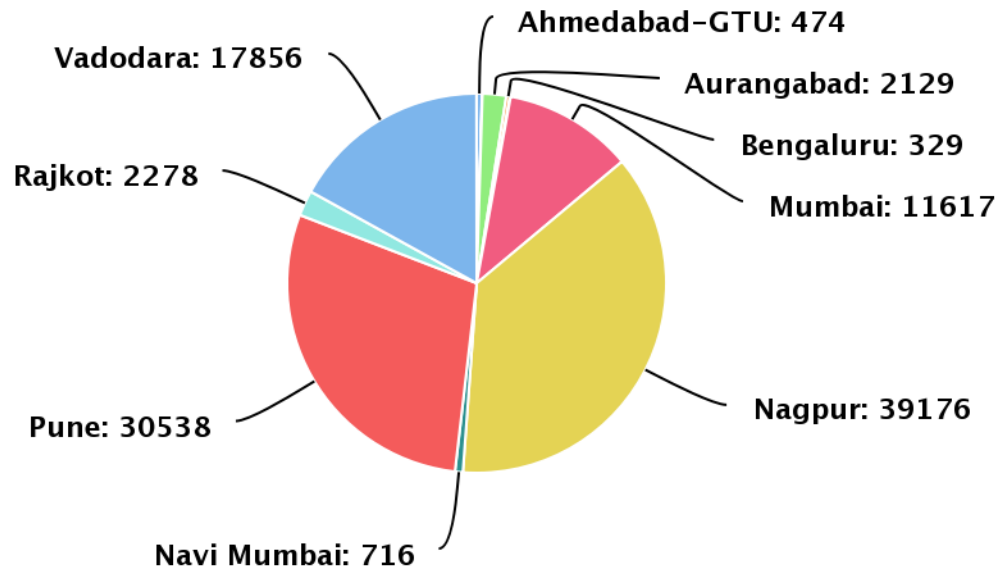


NODAL CENTERS

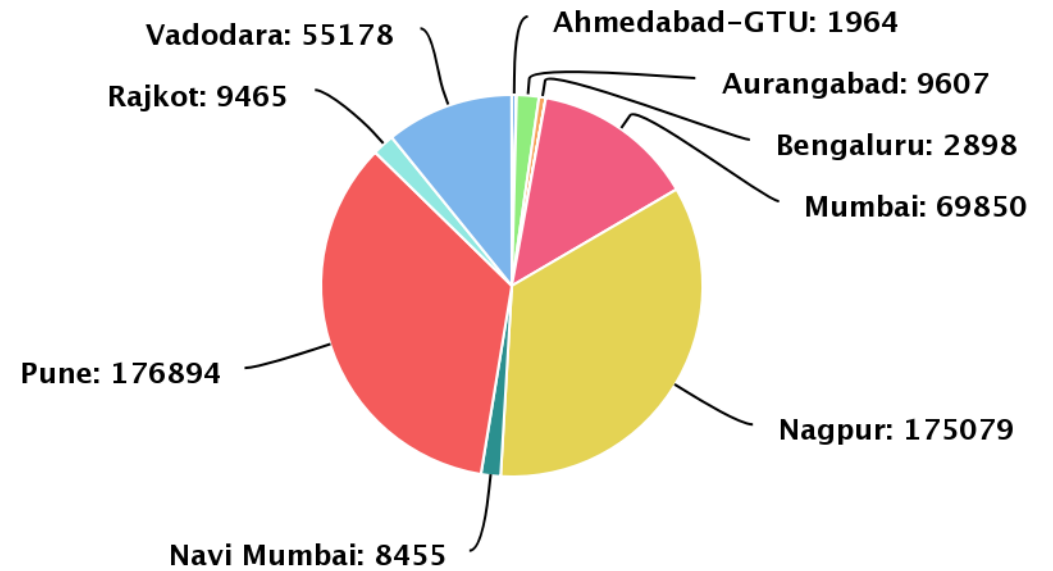


STATS

Region Wise Total Users Trained



Region Wise Total Usage



WEB SITES

- Information: www.vlab.co.in
- Access Virtual Lab: <http://vlabs.iitb.ac.in/vlab/>
- Feedback: <http://vlabs.iitb.ac.in/feedback/>
- Outreach: <http://vlabs.iitb.ac.in/outreachportal/>



USAGE REPORT

- [Daily Report](#)
- [User Report](#)

FOR EFFECTIVENESS



Flipping books will
not make you learn

Reading it will !



Just clicking through virtual lab experiments will not make you learn... Doing it will !

USAGE REPORT

- [Daily Report](#)
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