

Promoting Equitable Participation and Sustainable Productivity in Educational and Research Institutions: A Comprehensive Study on the Impact of Virtualized Labs and Digital Governance



Accops HyLabs: Revolutionizing ICT Labs for Educational Institutes



Flow of the presentation



What is the Problem we are trying to solve?



Why is the problem relevant . Virtual Labs?



What are the new possibilities open to the nation?



In What form the solution occurs? (Implementation)





Current Challenges Faced by Labs in Educational Institutes

- Limited Impact on Ranking
- Inflexible Learning Environment
- Infrastructure Constraints and Costly Maintenance
- Leveraging inter-departmental
 Infrastructure



Virtual labs impacts 42.5% of national ranking parameters



0.30*35% + 0.30*15% + 0.20*35% + 0.10*100% + 0.10*100% = 42.5%

Derived Impact





Inflexible Learning Environment

High Lab resources utilization

Resources sharing between department/ campuses is possible. 24X7 availability not restricted by Time and Space.

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Anytime Anywhere Learning

Seamless learning to learn from anywhere is delivered. Online course are backed by hand on experience on software. Students have collaborative & self-paced learning



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Infrastructure Constraints and Costly Maintenance

Optimized Capex & Opex

Virtual ICT lab reduce the upfront capex and opex cost, also reduce the space and construction cost.



Enhanced ROI and visibility

Department wise financial budget allocation based on data. End user authentication and attendance monitoring.



Overall impact

Inclusivity for all students, ensuring equal opportunities

Enhanced employability of learners

Increase in research outcomes

Better talent pool of students



ACCOPS SYSTEMS



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Virtualization Solutions Tailored for Educational Institutes



Thin Client & BYOD vs Traditional PC Single Campus Scenario – Multiple Lab



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Hybrid Lab vs Traditional PC Multiple Campus Scenario – Multiple Lab



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Traditional ICT Lab Architecture



Virtualized ICT Lab Architecture



ACCOPS SYSTEMS



Enhanced Learning Experience

for Students and Faculty.

Improved University Rankings.



ACCOPS SYSTEMS

Enhanced Control and Flexibility in Lab Management



Access to Labs from Any Device, Anywhere



Seamless Integration Process with Minimal Disruption





Case study Kyoto University

Japan's second oldest and highly ranked university, with 35,000 students across three campuses.

Diverse undergraduate degrees in integrated human studies, law, and medicine.

18 graduate schools offering master's, doctoral, and professional programs.



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Kyoto University: Feedback

"At Kyoto University we are reinventing the education terminal procurement, ownership and maintenance. The 10th generation of educational computer system is based on fact that University wants to own less of computer system while providing improved digital learning experience. VDI is at the core of our strategy, and we wanted a partner who can cater to our transition from traditional ICT labs to more digital and dynamic ICT labs.

We found Accops to be a highly flexible and mature platforms to base our VDI infrastructure. Accops delivered a unique solution which enabled us to cater to different department needs while sharing having a shared infrastructure. Accops responds very fast to our needs and their support has been excellent. "

Prof. Shoji Kajita, PH.D Researcher, practitioner and entrepreneur on CSPD Currently, working for IIMC&ACCMS Kyoto University as Professor. <u>https://members.educause.edu/shoji-kajita</u> https://about.me/shojikajita



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Abstract

- 1. Introduction
- 2. Need of the study
- 3.Time period
- 4. Justification
- 5. Background
- 6. Review of literature
- 7. Research gaps
- 8. Objectives
- 9. Hypotheses
- 10. A case study- data Accops Analysis of data
- 11. Findings and Suggestions
- 12. Conclusion

