

BV Raju Institute of Technology, Medak, Telangana



SOTA Digital Infrastructural Recommendations for the Education Sector

<u>Theme:</u> The future of education, mindset, and skillset.

<u>Subtheme:</u> Emerging educational tools to overcome localized socio-economic barriers (e.g., remote learning, artificial intelligence based tools [e.g. ChatGPT, ChatSonic], learning analytics, robotics support)



Agenda

Context

Education

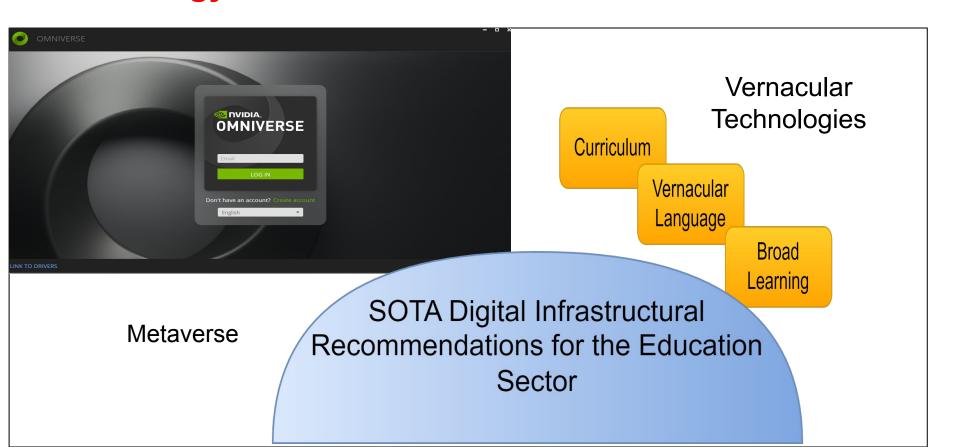
Technology

Product/Service

Diagrammatic Overview

- Latest advancements in technology call for enhanced technical interventions in the education sector.
- Immersive learning can be imparted through various disruptive technologies like Augmented Reality, Virtual Reality, and latest technologies like Metaverse.
- To suit scalability among societies and due to non-zero literacy rates, vernacular medium of education delivery may be suggested.
- The ultimate objective of such measures facilitate the production of more industry-ready and hi-quality individuals.

Technology Interventions-Products or Services



Proposals

- Immersive
 Learning using
 NVIDIA Omniverse
- Augmented reality

 can be used to
 augment artificial

 objects to real
 environment
- Simple AR-enabled glasses being invented

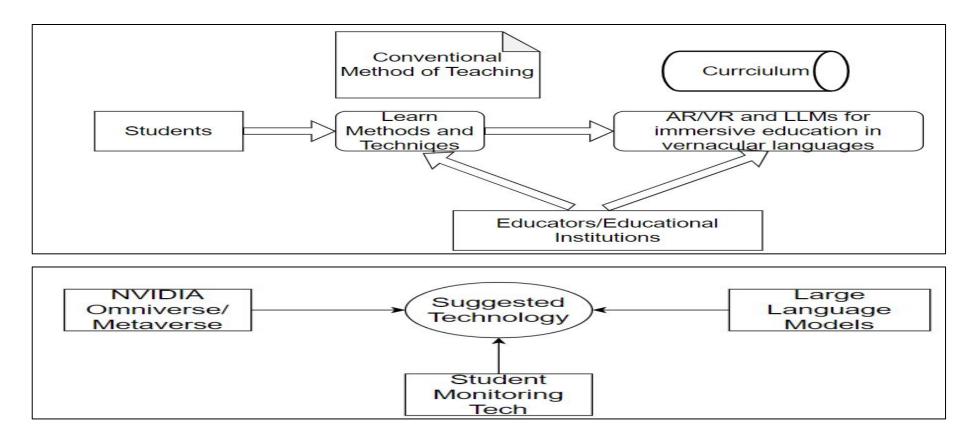


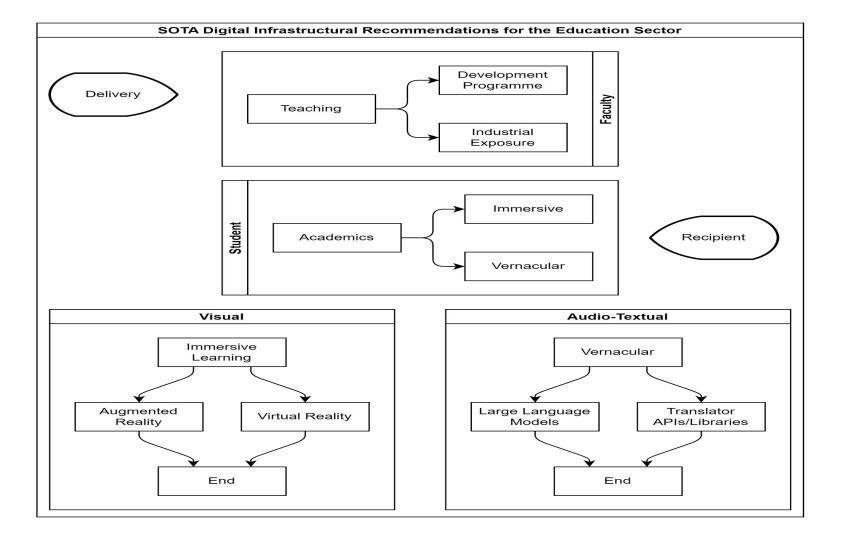
- Students are 90% more productive while dealing with Immersive Learning
- Practical applications can be displayed by showing dynamics of objects using the relevant capabilities of Omniverse

Example Use-Cases

- Space demonstrations
- Dangerous Scientific
 Demonstrations
- Large industrial processes
- Societal issues animations
- Physics dynamics and modelling

Diagrammatic overview







Imaginating the Ideas



Fundamental guidance

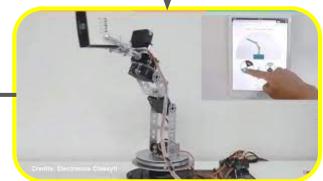


Self learning through practical application

Encouraging the young minds



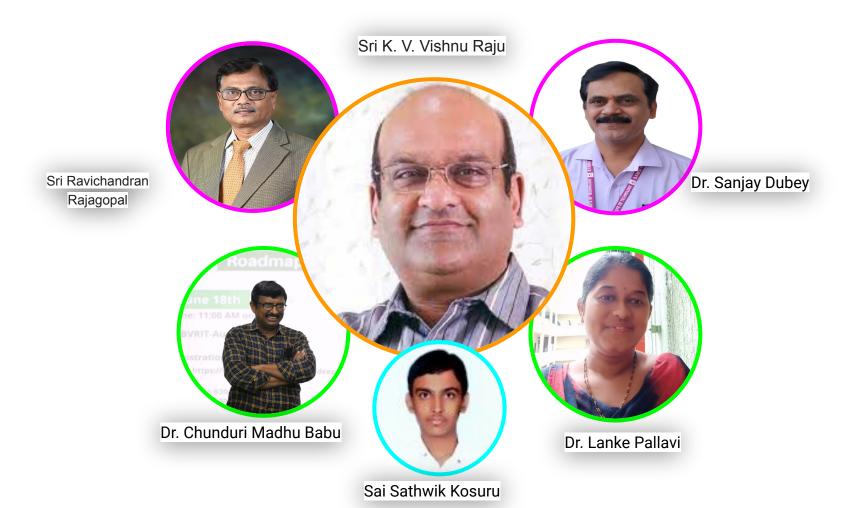
Real world applications



Implementation and Development

Conclusion

- Technology interventions are critical to the all-around development of student communities in modern days.
- Immersive Learning and Vernacular medium of instruction may be seen as crucial factors in the current proposal
- Technologies like AR/VR and LLMs are mostly economical and are scalable.
- These technologies act as valid contributions to the proposed State-of-the-art technology-enabled education ecosystem.









Thank You