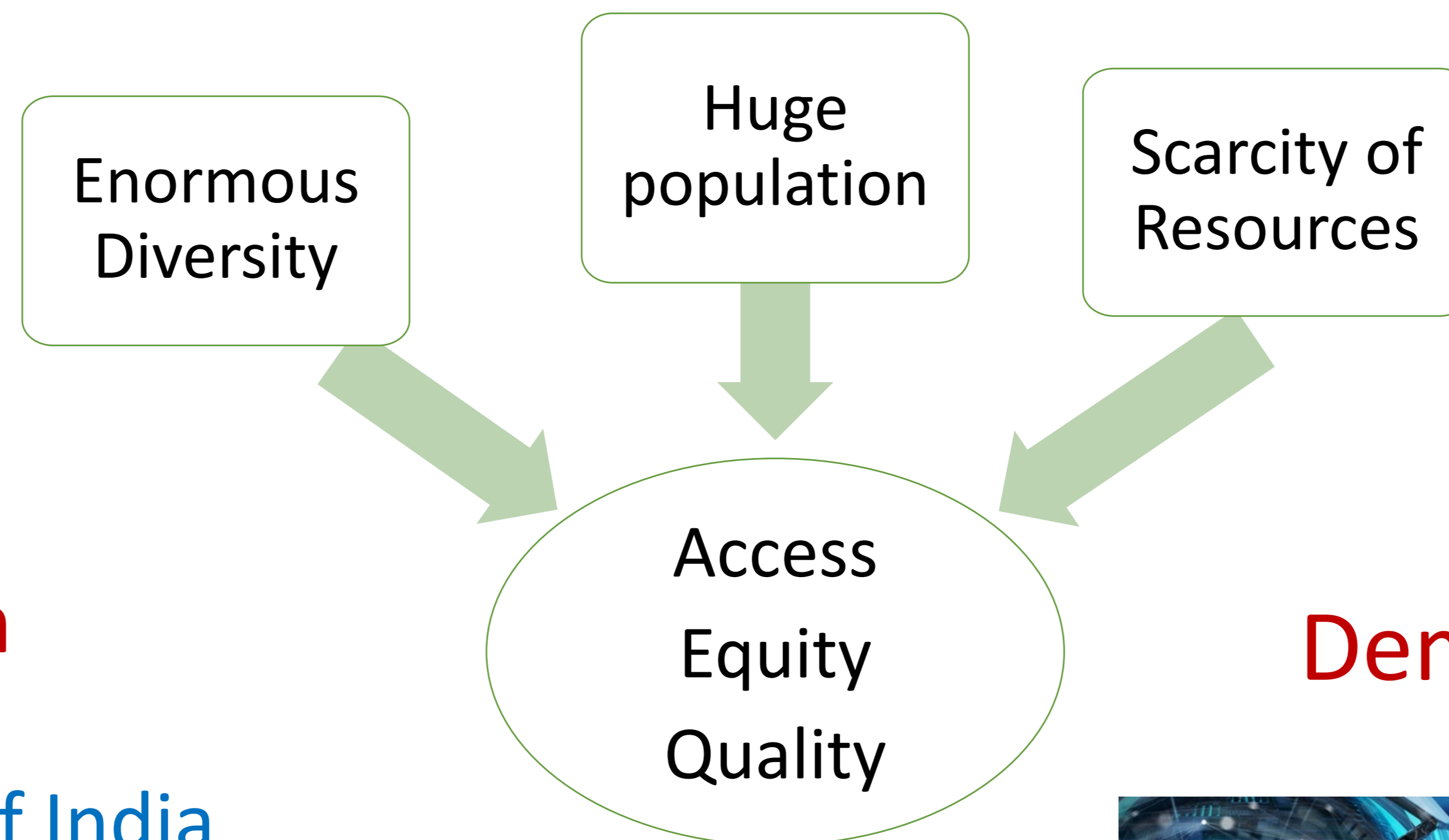


Democratizing Education and Research

Platforms and initiatives from India

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Democratizing Education

National Education Policy of India

- **Digital infrastructure** : Invest in creation of open, interoperable, evolvable, public digital infrastructure in the education sector
- **Content creation**, digital repository, and dissemination:
A digital repository of content including creation of coursework, Learning Games & Simulations, Augmented Reality and Virtual Reality

Platforms to provide a single window access to content

Notable Initiatives



National Digital Library of India Enabling Platform for Access to Educational Content

- A meta-library: a portal connecting users to hundreds of libraries and a vast amount of diverse educational content.
- NDLI indexes educational resources based on educational metadata including subject domain, educational level, and learning resource type.
- National Digital Library of India: An enabling platform
 - Open and Inclusive
 - Single window search/browse facility
- Driving Force for Education, Research, Innovation and Knowledge Economy in India

- **Swayam** provides teaching learning resources to all
- **NPTEL** (National Programme on Technology Enhanced Learning), a venture of IITs and IISc provide high quality MOOC courses with online certifications.
- **E-PG Pathshala** high quality, curriculum-based, interactive e-content in Postgraduate courses

Democratizing Research



Indian Perspective on Open Science Guiding Principles

- Equitable Access to Science for all
- Shift the burden of financing open access away from researchers and consumers of Science
- Maintain high quality of scientific output and combat predatory publishing

Some Highlights

- An all-encompassing Open Science Framework to provide access to scientific data, information, knowledge, and resources to everyone in the country and all partners.
- Open Access: Immediate deposit of accepted manuscripts to repositories
- A dedicated portal, Indian Science and Technology Archive of Research (INDSTA) to provide access, specifically, to the outputs of all publicly-funded research
- A National STI Observatory for all kinds of data related to and generated from the STI ecosystem
- One Nation One Subscription : Negotiate with publishers to provide access to all individuals in India through a centrally negotiated payment

Challenges

- High Article Processing Charges
- Platform for research papers supported by metadata for search and filtering.
- Access to scientific results to non-scientists and scientists of other domains

The Way Forward: Convergence of thoughts and cooperation across nations and dialogues with publishers for sharing content, platforms and best practices for equitable access