Universal# higher education in 25 years

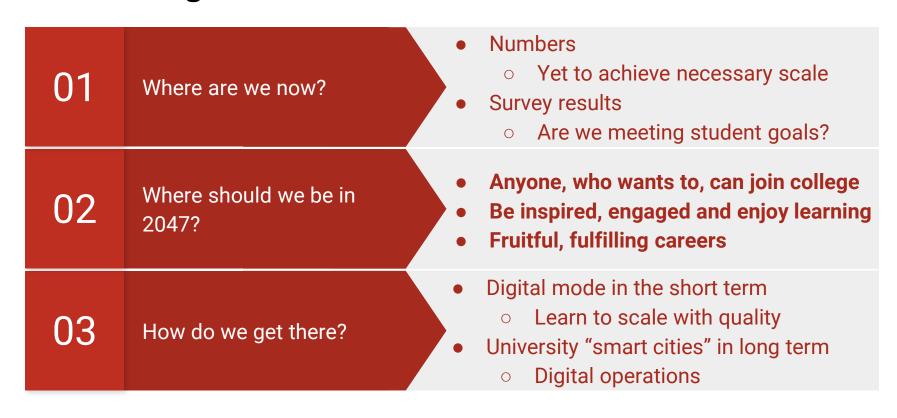
Vision 2047

Andrew Thangaraj

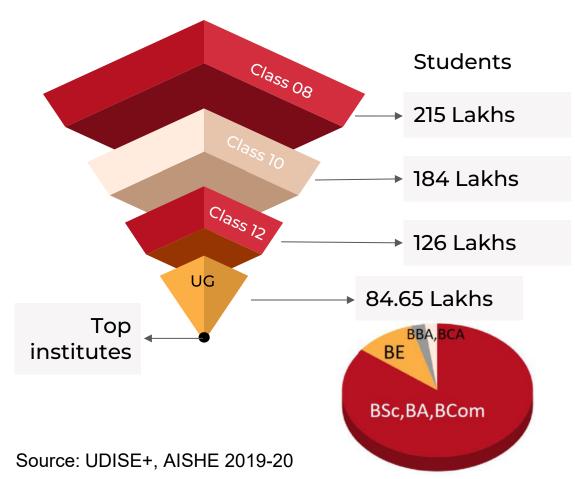
Professor, Electrical Engineering, IIT Madras
Coordinator, NPTEL, IIT Madras & National MOOCS Coordinator,
SWAYAM

Coordinator, IIT Madras BSc in Programming & Data Science

Higher Education in India: Vision 2047



Higher Education Landscape: Now





Issues:

Extreme competition for top institutions, High costs of quality private institutions, Low employability, Low GER



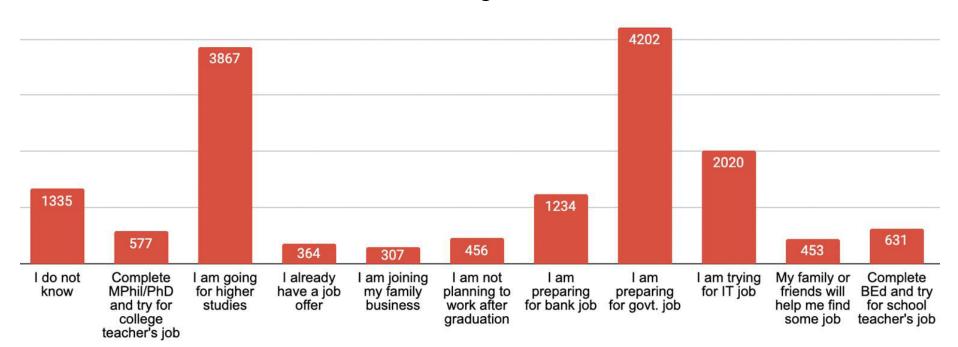
Needed:

A reimagination of the bachelor's degree

Employment-oriented, High quality, Large scale

Survey of 11000+ arts/science students: Mar 2022

Plans after graduation



Targets for 2047

70% GER "Universal

About 210 lakh to enter higher education every year

- Is mere enrolment sufficient?
- How to ensure a wide variety of students benefit from higher education?

Happy learners

Engaged and eager to learn

- Students should study in areas of their liking
- Degrees should play a role in career

Skilled graduates

Highly employable, wellprepared for higher studies

- Companies should eagerly hire graduates
- Those going for PG to shine in research

Digital Education Landscape: Now

SWAYAM: Nearly 1000 courses every semester from 100+ organizations





3.5



25

lakh+

enrol and

learn for free

lakh+ write in-person exams 2

lakh+ credit transfer into degree programs

UG DEGREES

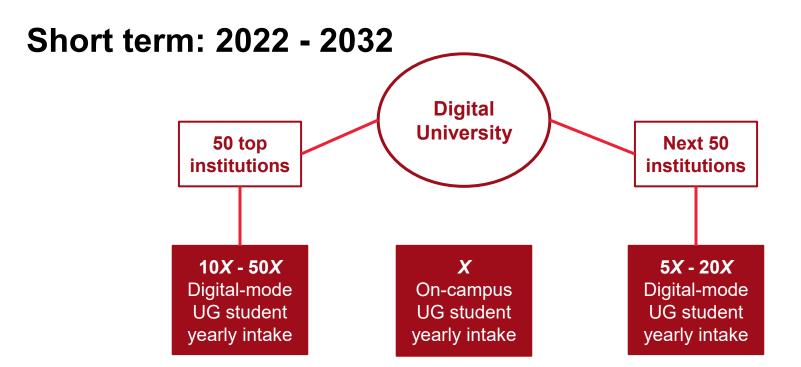


Large scale:
IIT Madras BSc
in Programming and
Data Science
(12000+ in 1 year)



Smaller scale: Few universities through UGC's online degree regulations and other means

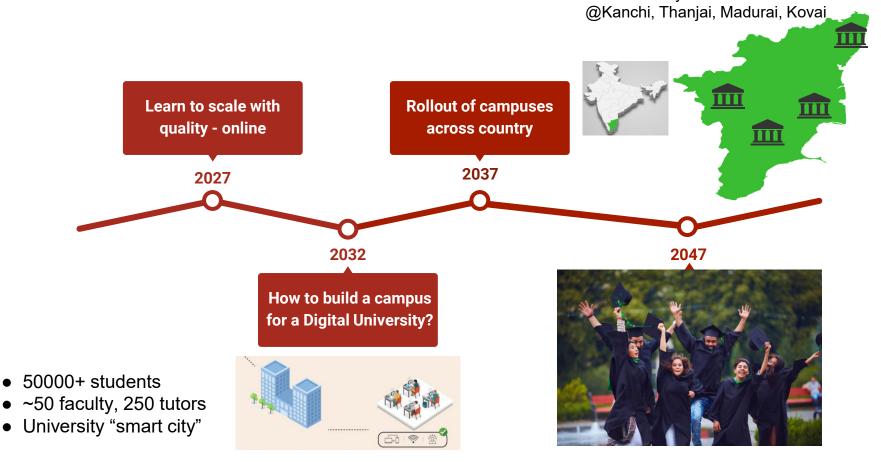
We know digital-mode teaching/learning at scale now, but we need to master it!



- Self-financed, digital-mode programs, job-oriented
 - Online instruction, In-person exams
 - 1 or 2 Faculty + many Instructors/Tutors per course
 - Scaling with quality and rigour
- Co-exist with traditional system
 - Existing colleges can affiliate to digital-mode offerings

"Digital University" can formulate and confer multi-institutional degrees

Long term: 2022 - 2047



Large state schools

Ex: University of TamilNadu