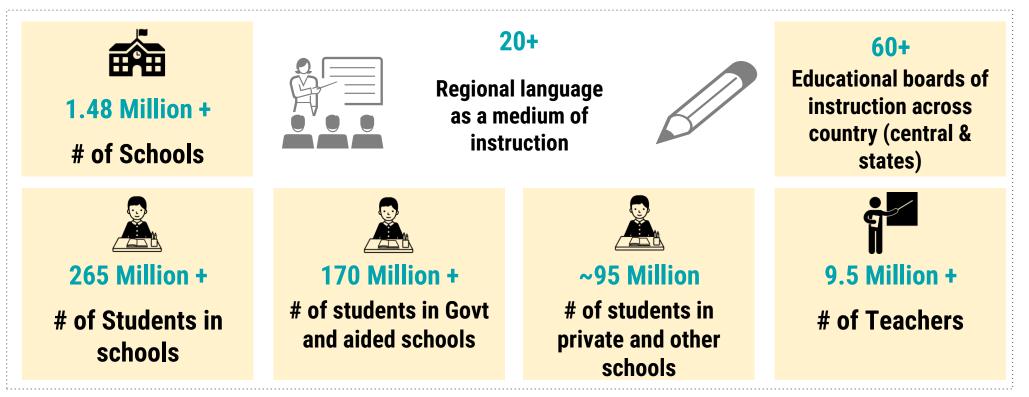


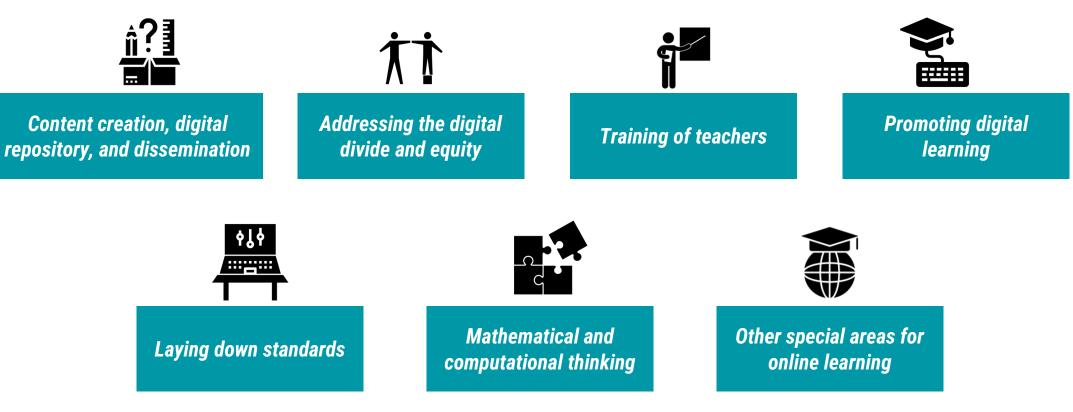
NDEAR - DIKSHA

India K-12 Education System is big, diverse & complex





NEP, 2020 has multiple provisions for inculcating and promoting digital innovations ...



सत्यमेव जयते

dinistry of Educatio

Digital India NDEAR

DIKSHA

To implement these policies, we wanted digital innovations that can work at our scale, diversity & complexity



 \checkmark

DIKSHA

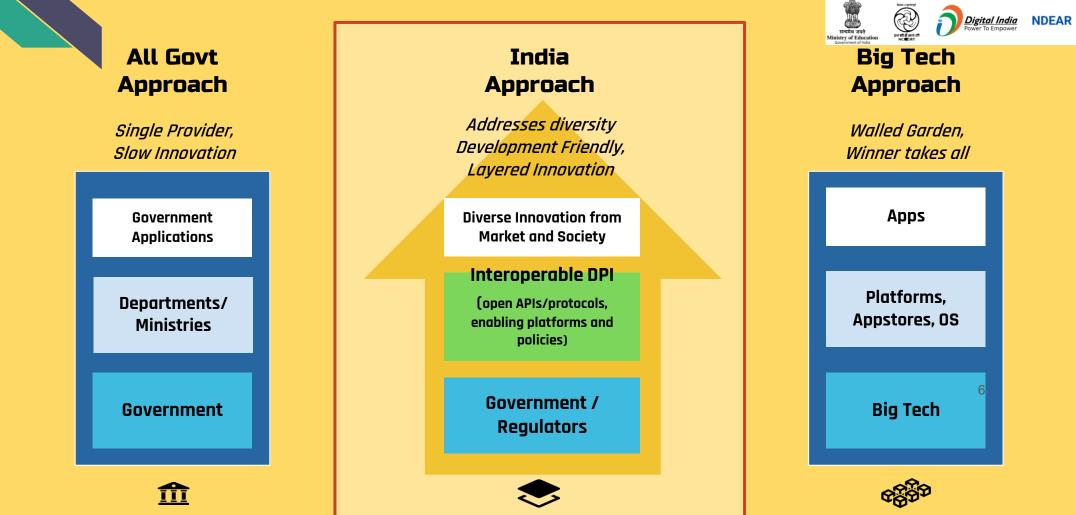
NDEAR

Digital India

We wanted a plug and play digital infrastructure that could work for all of India, and not just a specific solution



Learning	Collaboration	Content	Credentialing
Services	Services	Services	Services
Telemetry	Practice, Sensing &	Registry	Language
Services	Assessment Services	Services	Services



 \checkmark

DIKSHA

India harnessed these 3 successfully

olicy



Connectivity infra ID and Data infra Financial infra Health infra Education & Skilling Infra Commerce Networks

Supporting innovation, market participation rules Interoperability & Portability Funding ecosystem

> Enterprises, Startups Govt depts, Regulated entities Non-profits, Communities

Market

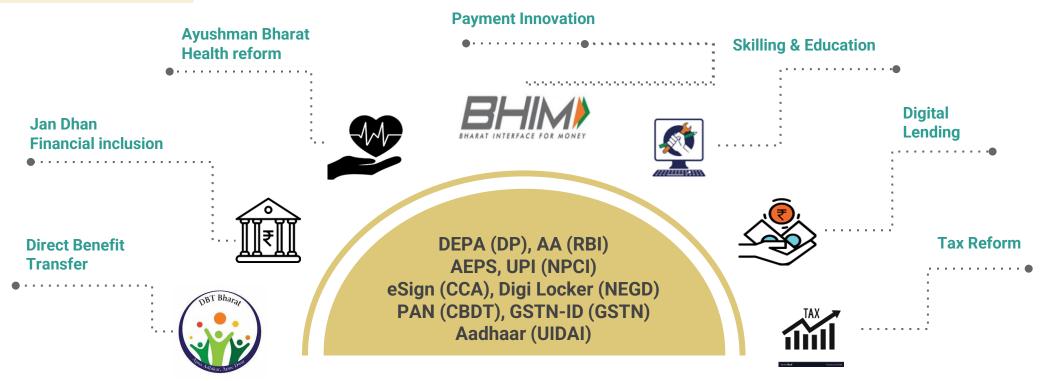
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7

Like Digital Infra with federated building blocks helped India leapfrog

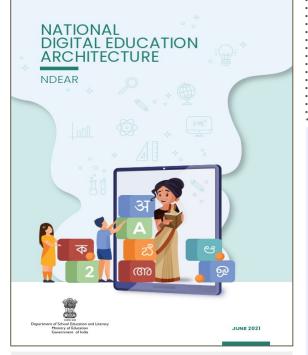


INDIA STACK









Visit : <u>https://www.ndear.gov.in/</u> National Digital Education Architecture (NDEAR) was launched by Hon. Prime Minister of India on 29th July 2021, with a vision to create a Unifying national digital infrastructure to energise and catalyse the education ecosystem.



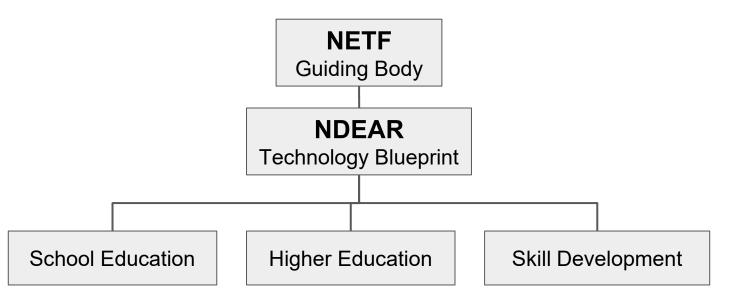
UPI is an ecosystem connector that revolutionised the finance sector. Similarly NDEAR is a key enabler of National Education Policy (NEP 2020) and acts as a super connector to cross leverage ecosystem capabilities and catalyse innovation in skilling & education.

Shri Narendra Modi Hon'ble Prime Minister of India National Education Task Force (NETF) has been established

Digital India NDEAR

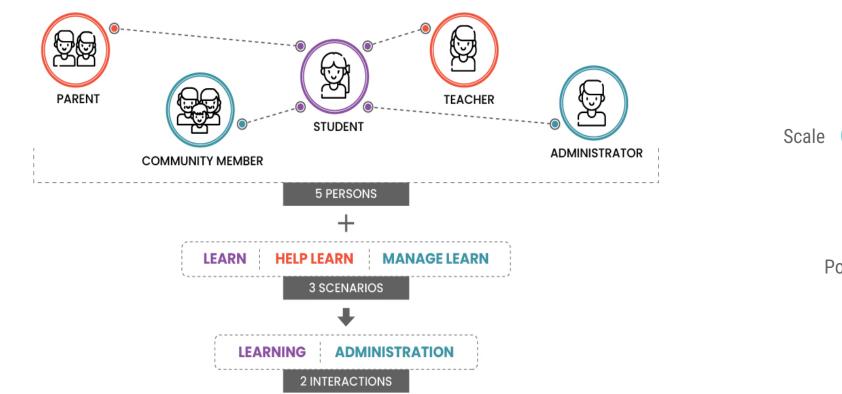
Reference NEP 2020, Section 23.3

.... <u>the National Educational Technology Forum (NETF), will be created to provide for the free</u> <u>exchange of ideas on the use of technology to enhance learning, assessment, planning,</u> <u>administration, and so on, both for school and higher education.</u>



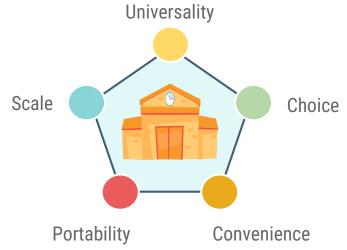
NDEAR enables digital in education across different actors & scenarios

NDEAR caters to...



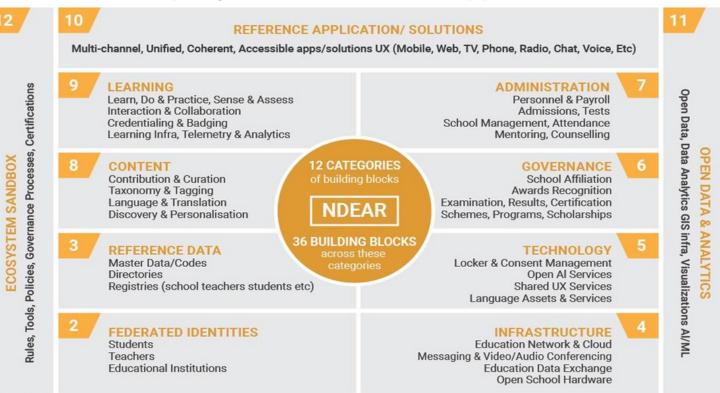
India stati Ministry of Education Generated Holes Commented Holes Ministry of Education Ministry of Education

... and ensures



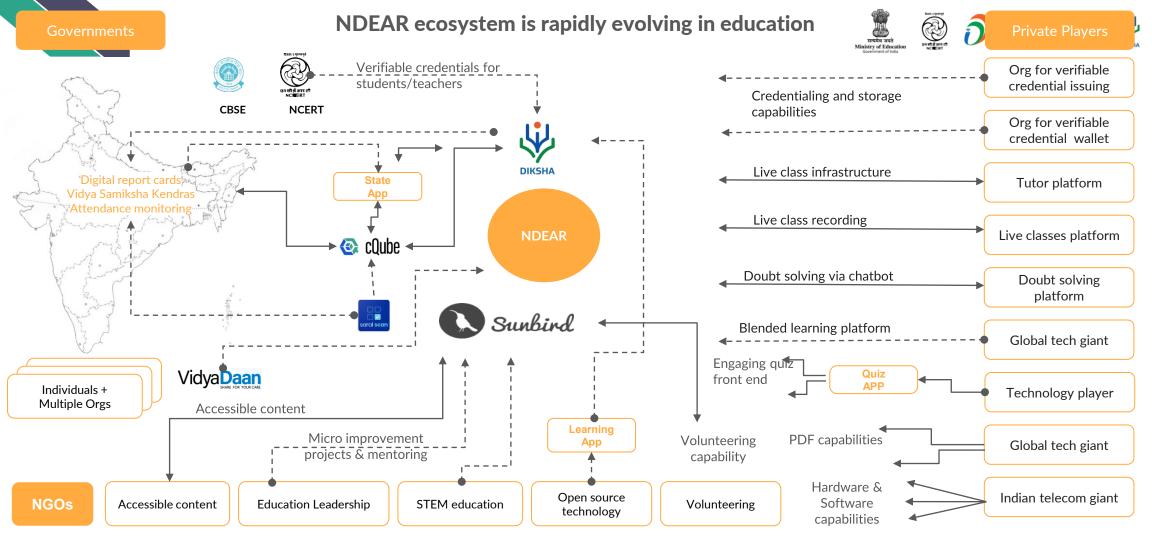
NDEAR has 36 building blocks across 12 categories to enable diverse programs/schemes & applications





OPEN STANDARDS & NDEAR PORTAL

Community driven open standards protocols, specifications, knowledge Made available as open source via NDEAR Portal

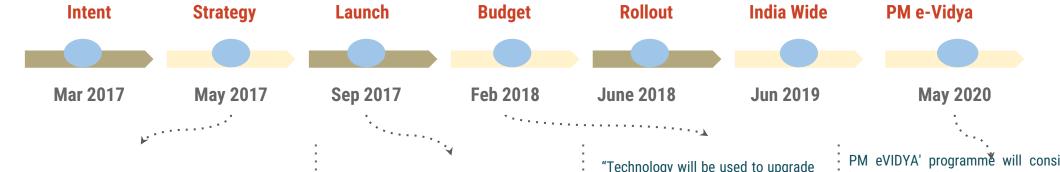






DIKSHA was launched in 2017 by then Hon. Vice President of India, Shri M. Venkaiah Naidu

DIKSHA - Journey so far (1/2)



"DIKSHA is a customizable National Digital Infrastructure that states can use for their respective teacher-centric initiatives. Teachers will be able to use DIKSHA to access and create high quality teaching, learning and assessment resources for all subjects and levels in all Indian languages. DIKSHA aims to strengthen 'Our Teachers, Our Heroes' "



Shri Prakash Javadekar DIKSHA Strategy Paper May 2017 On the occasion of Teacher's day, Hon. Vice President of India, **dedicated DIKSHA, A National digital Infrastructure for Teachers**, to the nation



Shri Venkaiah Naidu National Teacher's Day September 2017 "Technology will be used to upgrade the skills of teachers through the recently launched digital portal DIKSHA"



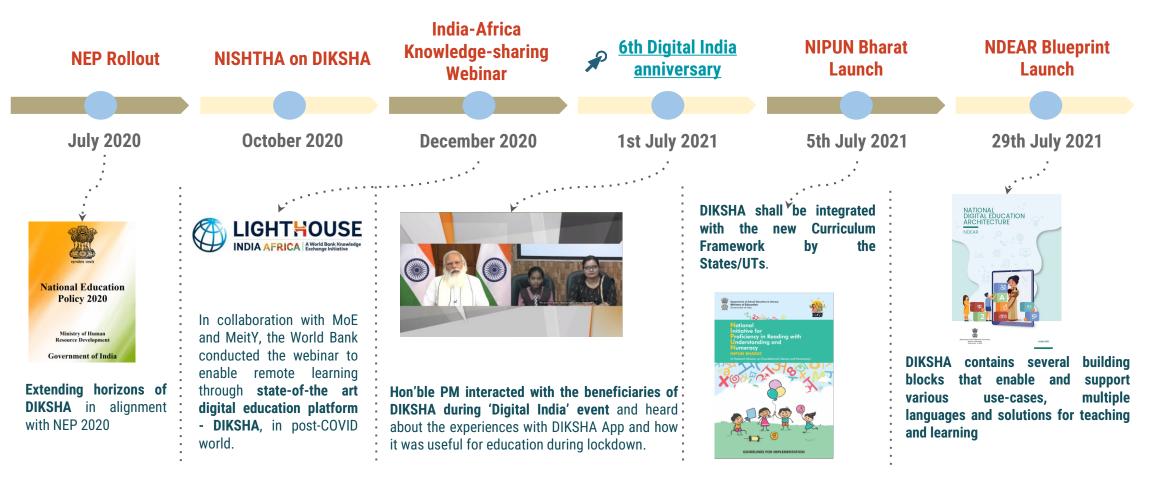
Late Shri Arun Jaitley Budget Speech February 2018

PM eVIDYA' programme will consist of 'DIKSHA' involving e-content and QR coded energized textbooks for all grades and will be called as 'one nation, one digital platform'.



Smt. Nirmala Sitharaman Union Finance Minister May 2020

DIKSHA - Journey so far (2/2)







Section 2.6 "A national repository of high-quality resources on foundational literacy and numeracy will be made available on the Digital Infrastructure for Knowledge Sharing (DIKSHA)."

Section 15.10 "The use of technology platforms such as SWAYAM/DIKSHA for online training of teachers will be encouraged, so that standardized training programmes can be administered to large numbers of teachers within a short span of time."

Section 23.6 "Teaching-learning e-content will continue to be developed by all States in all regional languages, as well as by the NCERT, CIET, CBSE, NIOS, and other bodies/institutions, and will be uploaded onto the DIKSHA platform. "

Section 24.4 (c) : "Online teaching platform & tools: Appropriate existing e-learning platforms such as SWAYAM, DIKSHA, will be extended to provide teachers with a structured, user-friendly, rich set of assistive tools for monitoring progress of learners."

DIKSHA Infrastructure is based on NDEAR principles and covers 7 NDEAR building block categories enabling diverse programs/schemes



1. Open Standards & NDEAR portal	5. Technology	9. Learning
2. Federated Identities	6. Governance	10. Reference Applications/Solutions
3. Reference Data	7. Administration	11. Open Data & Analytics
4. Infrastructure	8. Content	212. Ecosystem Sandbox

DIKSHA's building blocks were used for multiple use cases with complete sovereign control



1. Energised Textbooks



4. Content Sourcing

7. Content

Consumption





8. Data Tools & Dashboards



3. Question Bank



2. Teacher Professional

Development



9. Chatbot









10. Digital Credentials

11. Collaboration

12. Phygital







Hello Ciao Приве Bonjour

13. cQube

14. Surveys

15. Language Translations



16. Mentoring

17. Sunbird Registry and Credentials



Overview of key programs leveraging DIKSHA

Traditation Wigger Digital India NDEAR



Energised Textbooks : Physical Textbooks to 'Phygital' Textbooks

PM eVidya : Aims to unify all efforts related to digital / online / on-air education to enable equitable multi-mode access to education

Vidya Daan

VidyaDaan : Sourcing high quality content in a controlled manner

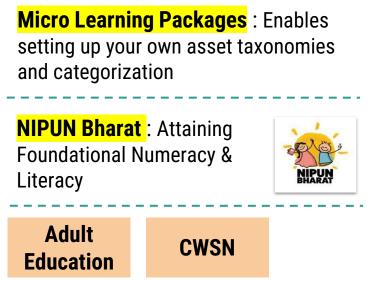
NISHTHA : A nationwide capacity building programme for "Improving Quality of School Education through Integrated Teacher Training"

NISHTHA on DIKSHA

Vidya Amrit

National Quizzes : Interactive & competitive learning

Micro Improvements : Small steps to build great schools. Encourage, recognise & nurture innovations across all schools

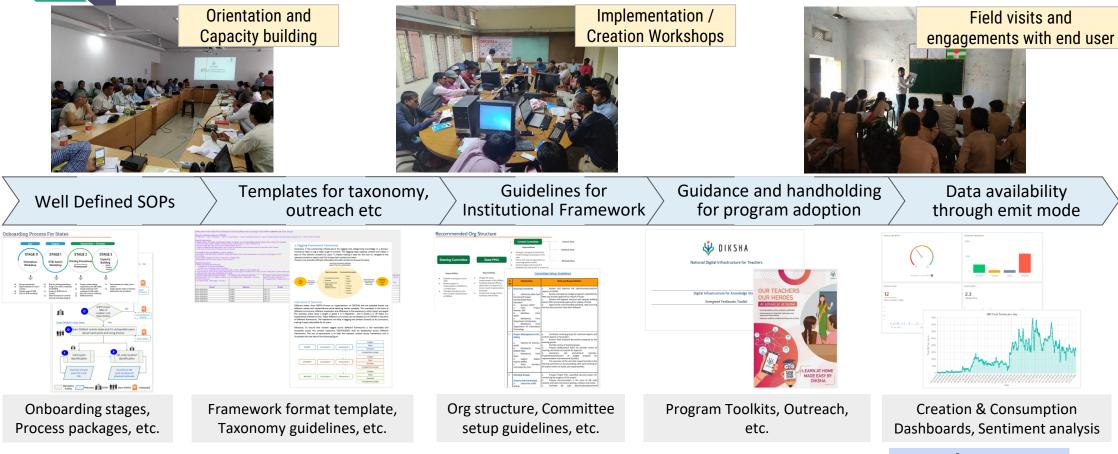


VocationalVirtualEducationLabs

... and other priorities as per NEP 2020

How we achieved success as national scale





Leading to unparalleled usage of the world's largest, most diverse school education platform

5.11 Billion +

Learning Sessions

60 Billion +

Learning Minutes



Events and the second of training of the second of the sec

39 Billion + Page Hits

> 33+ Languages

> > Source: diksha.gov.in

Data as on 14th November 2022



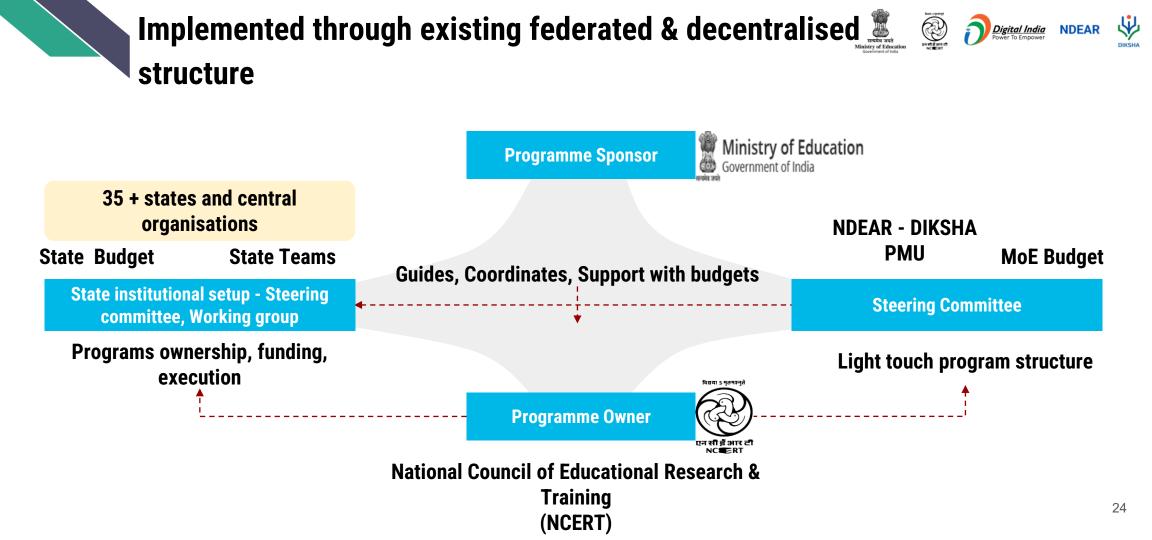


DIKSHA is built on free & open source platform "SUNBIRD" 'Made in India', 'Made for the World'



sunbird.org

github.com/project-sunbird docs.sunbird.org



Vidya Samiksha Kendra : helping us see & monitor policy implementation and drive reforms



Make Sense' of data

efforts

Digital India

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DIKSH

NDEAR

The UNESCO King Hamad Bin Isa Al-Khalifa Prize for the Use of Information and Communication



And Commenced in Territoria



The UNESCO King Hamad Bin Isa Al-Khalifa Prize for the Use of Information and Communication Technologies in Education

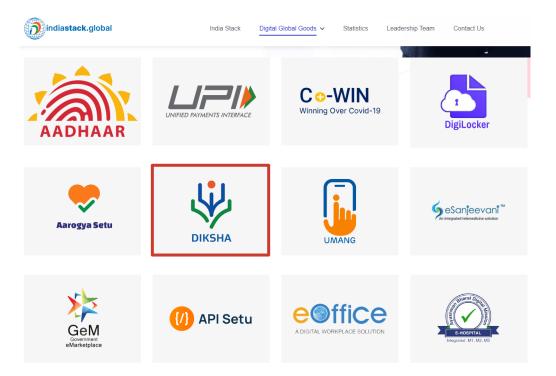
is hereby awarded to the Central Institute of Educational Technology, National Council for Educational Research and Training

India for its project Initiatives for Inclusive and Accessible Education being being Path, 24 June 2022 Path, 24 June 2022



Awarded to CIET-NCERT for "Initiatives for Inclusive and Accessible Education" through PM-eVidya & DIKSHA

DIKSHA Infrastructure has been identified as a Digital Ministry of Educatio **Global Good by the Govt. of India**



https://www.indiastack.global/diksha/



Nirmala Sitharaman 🤡 @nsitharaman

राजापेत जगरे

"India's digital platform... DIKSHA...one of the 12 Digital Global Goods... is now in public domain...India became the first country in the world to provide QR coded textbooks to elementary school children through this platform." @WorldBank pib.gov.in/PressReleasePa...

5:40 pm · 15 Oct 2022 · Twitter for iPhone

Digital India

...

NDEAR

World Bank Group has been propagating the 'DIKSHA model' internationally as well...



World Bank India

#DIKSHA is a unified digital platform for education 2 is bringing together countries across continents. cc @EduMinOfIndia @Gol_MeitY @WBG_Education @WorldBank @WorldBankAfrica @NandanNilekani @JUNAIDWBG

Watch to learn more about India-Africa knowledge exchange.



World Bank India @ @WorldBankIndia · Dec 20, 2020
 ICYMI
 IDIXSHA is an integrated national digital platform that can ensure continuity
 of school education in post #COVID19 environment in an inclusive and
 resilient manner.
 Watch a #LighthouseIndia initiative:

Ministry of Education <

...

Under #PMeVidya, #DIKSHA has impacted millions of Indian learners & #teachers. It's potential has now wowed the world leaders at The World Bank's knowledge exchange forum between India & the African nations, including Malawi, Togo, Tunisia, Uganda, Tanzania. 7:11 PM · 21 Dec 20 · Twitter for Android





1:53

World Bank India @ @WorldBankIndia

DIKSHA - the big leap in Indian school education – now a step towards bringing nations together #IndiaAfricaFriendship. Read more: wrld.bg/ZqHy50COV47 #DIKSHA #LighthouseIndia cc @WBG_Education @WorldBankAfrica





World Bank India @ @WorldBankIndia · 2d ~ #COVID19 has transformed the #education sector. Digital tools and technologies are playing a central role in educating children. Diksha or Digital Infrastructure for Knowledge Sharing is one such initiative by the @EduMinOfIndia and @Gol_MeitY #LighthouseIndia.



Hon'ble Finance Minister offered DIKSHA to all interested countries : Meeting held at World Bank, Washington DC office on 14th October, 2022



The Finance Minister states further that India's digital platform, DIKSHA, which has been identified as one of the 12 Digital Global Goods by India, is now in public domain. Last year, Smt. Sitharaman said, India became the first country in the world to provide QR coded textbooks to elementary school children through this platform. The Finance Minister also offered DIKSHA to all interested countries and stated the world Bank can consider this opportunity to scale up digital education globally.



Smt. Nirmala Sitharaman Union Finance Minister October 2022





Several Ministries / Departments in India are leveraging DIKSHA infrastructure





Department of Personnel & Training

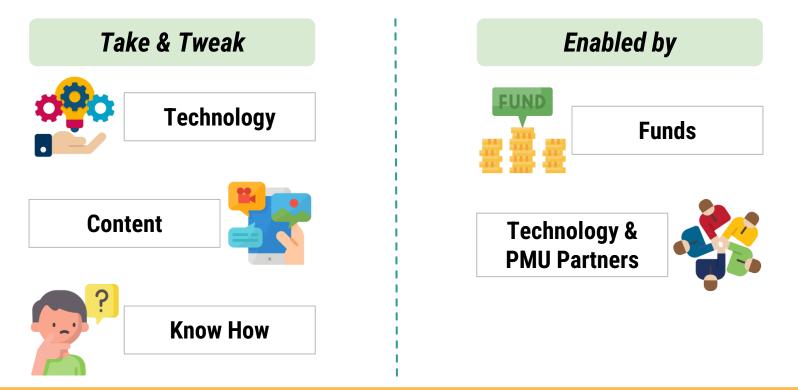


Department of Agriculture - Agri Digital Learning Platform

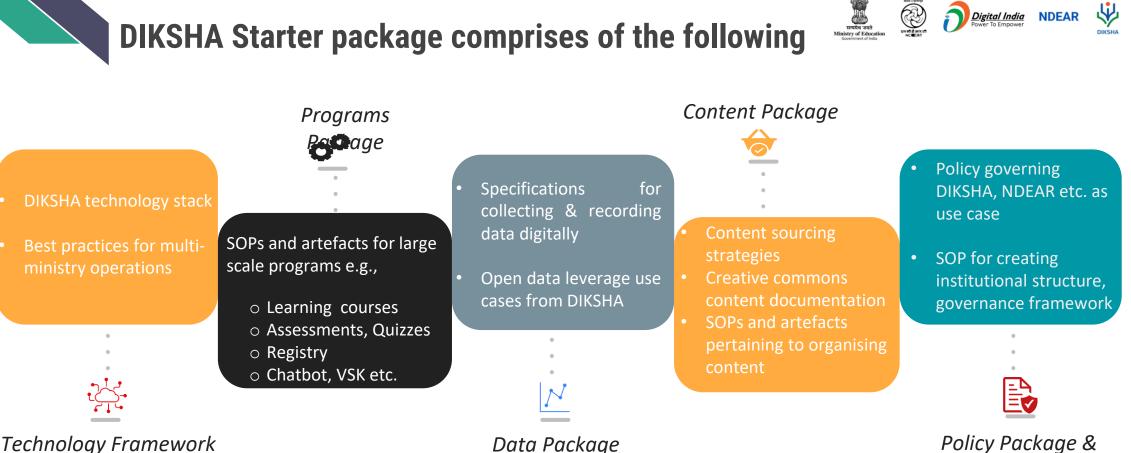
... And interest expressed by many more Ministries / departments

What it takes to adopt & implement DIKSHA like national scale education infrastructure





The DIKSHA starter package eases the adoption and implementation



& Operations Package

Institutionalisation

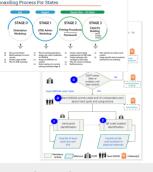
Framework

Some of the components of the starter package



Sunbird	Q Search or enter QR code Search	Skip to Main Content Streen Reader Access Site Map A A A I O
	🕅 Home 🛞 Explore 🛄 Digital textbooks 🔄 Courses	⊠ [™]
	which drew 1100 participants. The forum took stock of the fac Conference on Education for Al The participants agreed on the	rnational community met again at the World Education Forum in Dakar, Senegal, an event t that many countries were far from having reached the goals established at the World in 1990. Dakar Framework for Action which re-affirmed their commitment to achieving Education for edd six key measurable education goals which aim to meet the learning needs of all children,
atured Articles	View	Announcements View All
		An excellent polish restaurant, quick delivery and hearty, filling meals.
Enrollment info for life skill training	Polytechnics information june 2017	Exam Date Announced Ask Tara An excellent polish restaurant, quick delivery and hearty, filling meals.

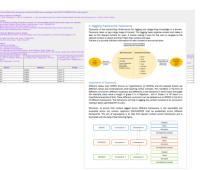
Demo instance for Mauritius



Onboarding stages, Process packages, etc.



Org structure, Committee setup guidelines, etc.



Framework format template, Taxonomy guidelines, etc.



Program Toolkits, <u>Outreach</u>, etc.

Engagement Models

The envisioned Models for countries to leverage the DPGs and establish their Digital Education initiatives

The interested country can implement their digital education initiatives by themselves leveraging the starter pack shared by the Government of India

DIY



Interested countries can sign MoU with GOI for taking advisory support on:

- 1. Adopting Starter package
- 2. Leveraging Best practices
- 3. Budget allocation

Advisory



Digital India NDEAR

GOI partners with organisations like World Bank, ADB, UN etc. to set up projects in interested countries by

- 1. leveraging starter pack
- 2. Allocating funds

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IFIs can support implementation, maintenance and support

Partner led





Thank you