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Global Leadership in Tech-Driven Innovation

Empowering the Future



▶ **Global
Skills
Forum**

The Role of the Private Sector in Skills Development:
Driving Innovation and Impact

Agenda



01. Introduction to the NSDC

Overview of NSDC and the Global Skills Forum 2025



02. Global Perspective

Private sector-led skills development worldwide



03. NSDC Stack & Feature List

NSDC's innovative technology solutions



04. Global Collaboration

Call for partnerships and shared success

I am ..



Vinoo Das

Head of Engineering – NSDC

‘सिद्ध’ SIDH

<https://www.skillindiadigital.gov.in>

Chief Architect
India's first Skilling
Digital Public Infrastructure (DPI)

<https://www.indiastack.global/sidh/>

With **25+** years in global tech firms, I have designed transformative solutions and enterprise architectures that align technology with business goals to drive sustainable growth.

Industry Exposure:



**Skill
Development**



**Health & Life
Sciences**



BFSI



**Retail, Consumer
Goods & Trading**

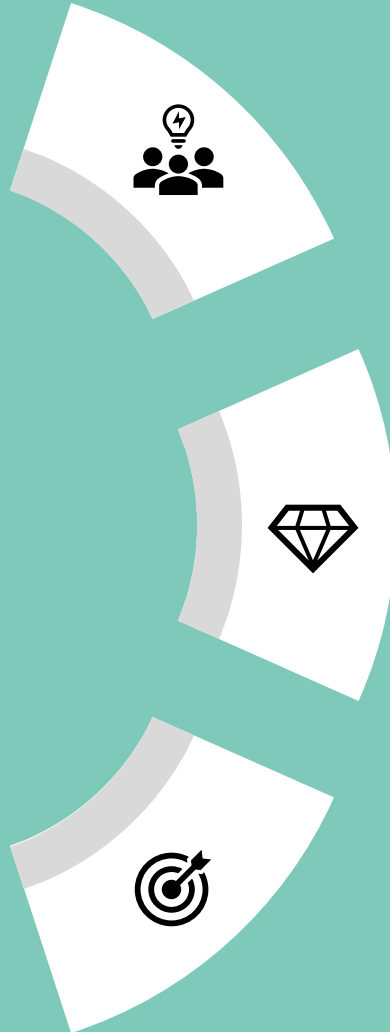


Telecom



Media Monitoring

About NSDC



VISION

To become “World's largest platform for Skills for All, Opportunities for All, Anytime, Anywhere”

CORE VALUES

- **Impact:** Planet, People & Prosperity
- **Integrity:** Trust and Transparency
- **Inclusion:** Access to skilling for 15 Mn disadvantaged socio-economic groups
- **Innovation:** Digital first and Mobile first

MISSION

- Skill/Reskill/Upskill **25 Mn** Individuals
- Skill/Reskill/ Upskill **15 Mn** disadvantaged socio-economic groups.
- Operationalize **50K** skill centres

Evolution of Skilling Ecosystem in India

2008

17 Ministries conducted sector specific TVET Programs

Ministry of Labour & Employment conducted TVET for Industrial Sector



NSDC Established

2014



MSDE Established



National Occupational Standards, Qualifications

SSBs, TVET programs for 36 sectors

Standardized Assessments & Certifications

2020

Network of 15,000+ Training Centers, trained 16 million citizens



Pradhan Mantri Kaushal Vikas Yojana



Skill India Portal

2024

SIDH

Skill India Digital Hub

NCrF for Horizontal | Vertical Mobility
NCF, NSQF, NHEQF

National Education Policy

2025 onwards

Digital Public Infrastructure ecosystem developed to promote Skilling, Employment & Entrepreneurship.

For the people, by the people, and of the people



Success Story

- 10mn+ Registrations
- 5mn+ Course Completions
- 41% Women Learners Enrolled

Global Context & Key Trends

Global Skills Forum 2025

Under Malaysia's ASEAN Chairmanship, addressing the role of private sector in driving innovation and impact in skills development.

Global Challenge

Demographic shifts, digitalization, and green transition affecting worldwide workforce



Revolutionizing Ecosystems

Addressing employability gaps and fostering sustainable growth worldwide



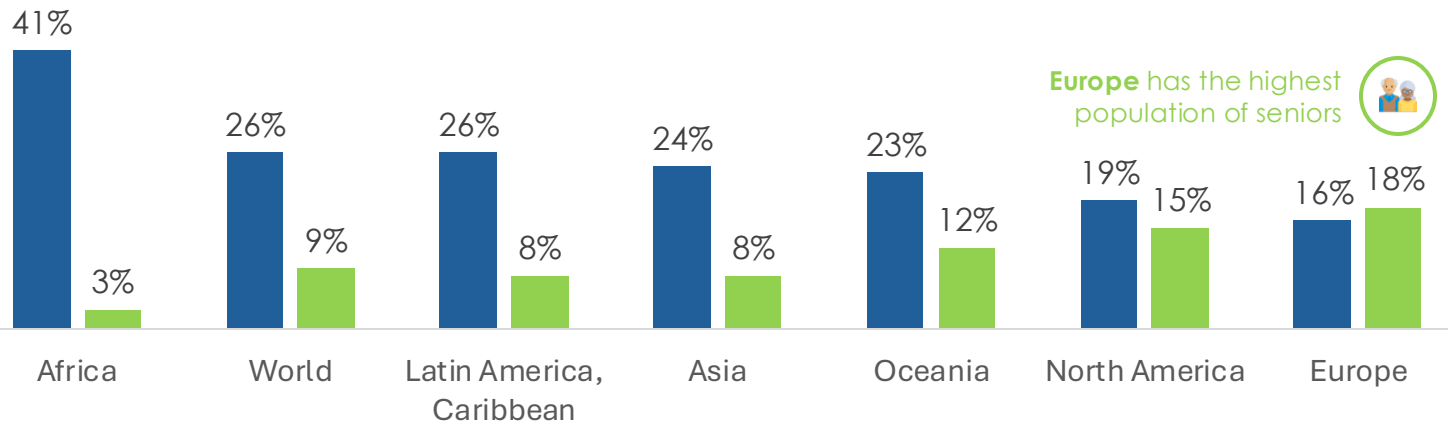
Age Groups by continent



Africa is by far the world's youngest continent

■ Under 15 Years

■ Over 65 Years



Europe has the highest population of seniors



Future of Jobs

- 1 Around **39%** of current skill sets will be transformed or outdated by 2030
- 2 **35%** of top growing jobs are blue-collar roles, with over 1.7 million positions projected by 2032
- 3 **63%** employers cite skill gaps as their main barrier to growth
- 4 **85%** of employers plan to prioritize workforce upskilling over the next five years
- 5 **40%** employers expect to reduce staff where AI automates tasks

Source: [VisualCapitalist.com](https://www.visualcapitalist.com)



Global Skills Forum

The Role of the Private Sector in Skills Development:
Driving Innovation and Impact

Drivers for Global Skill Innovation



82Bn

LMS Market



40%

AR/VR cost
Reduction



647Bn

Gig Economy

Immersive Training

- LMS market growing from **\$27B to \$82B** by 2032 at **17.1% CAGR**
 - Cloud-based scalable digital inclusion
 - Personalized learning pathways
- AR/VR reduces training costs by **40%** while improving engagement
 - 70% organizations use data analytics
 - Platform-based skill verification

Internet Penetration

Africa	~38%
Asia	~69%
South Asia	~53%
Latin America	~75%

Adaptive Solution

"One size fits all" approach is not effective in diverse digital landscapes

- **Countries with high internet penetration** are best positioned to leverage fully online initiatives
- **Countries with moderate internet penetration** benefit most if they combining online and offline models
- **Countries with low internet penetration** should prioritize offline initiatives to ensure impact and inclusion

NSDC's Innovative Product Suite

National-scale **Open Source** for integrated workforce development

SETU
Skilling and Employment Digital Platform
Unified platform transforming skilling and employment journeys

Tejas
Scalable Learning Platform
Enterprise-grade, cloud-agnostic LMS delivering training and certification at scale

InsightForge
Transforming Data into Decisions
Advanced data analytics driving smart, actionable policies for impact.

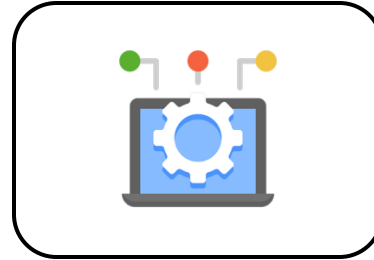
NSDC Stack

Skill Commerce
On-Demand Skills Marketplace
On-demand commerce connecting verified talent with local opportunities

Drishti
Immersive AR/VR Content Development
Cutting-edge AR/VR immersive simulations revolutionizing experiential skill learning.

Trust
Verifiable Credentials for individuals & businesses
Robust, secure verifiable credentials enabling trusted, privacy-first identity management.

SETU - Skill and Employment Technology Unifier



Centralized digital platform for candidate's skill discovery, enrollment, and journey management with mobile-first design and real-time analytics.



Multi-Channel

Web & Mobile Application with **seamless** user experience across all devices



Lifecycle Management

End to end **skilling lifecycle management** from enrollment to certification to employability



Anytime-Anywhere Learning

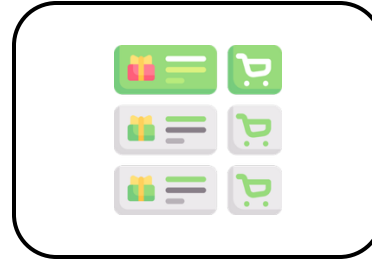
Online, Instructor Led, Blended, Offline



Real-Time Progress Tracking

Live monitoring of learning journey and milestones for candidates and providers

Skill Commerce – Marketplace



Platform where the skill providers are discovered based on certified and verified skills and location by consumers in real-time.



Financial Empowerment

Empowering gig workers through earning opportunities (**Financial Inclusion**)



Discoverability

Intelligent discovery system connecting consumers to providers based on **time**, **location** and **skill**



Verified Skills Marketplace

Trusted platform showcasing **validated** capabilities of skill providers



Tracking

Real-time progress of engagement

Tejas LMS – Scalable Learning Management System



Cloud-Agnostic, scalable SaaS & PaaS. LMS delivering personalized learning experiences with adaptive pathways.



Mobile-Friendly Interface

Responsive design ensuring **accessibility** across all devices



Adaptive Pathway

Personalized learning routes based on individual **progress and goals** as defined by Tenant



Blended Learning Formats

Combination of online, offline, and interactive learning methods



Tenant-Aligned Content

Learning materials specifically served based on Tenants

InsightForge - Transforming Data into Decisions



Powerful analytics platform extracting insights from transactions, trainings, discoverability and performance data for strategic decision-making.



Evidence-Based Decisions
Data-driven insights for strategic policy and planning



Skills Gap Analysis
Comprehensive identification of skill deficiencies



ROI Measurement
Quantifiable metrics demonstrating program and transaction effectiveness



Recommendations
Insight based suggestions using **telemetry**

Trust – Verifiable and Portable Credentials



Secure, tamper-proof digital credentialing system



Instant Verification

Real-time credential validation using encrypted technology



Automation for Management

Streamlined processes for managing external partners



Risk Mitigation

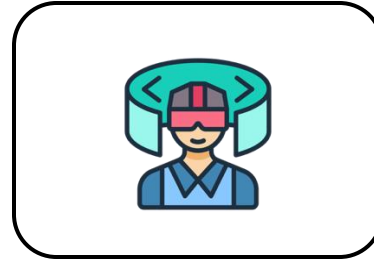
Reduced risks through verified credentials of stakeholders



Compliance Assurance

Automated compliance tracking and regulatory adherence

Drishti – Immersive Content Development Service



Creation and deployment of immersive, interactive, multilingual AR-VR learning content powered by AI.



AI-Driven Content

Intelligent content generation tailored to learning preferences



Interactive & Immersive

Engaging multimedia experiences including AR-VR elements



Multilingual Support

Content available in multiple languages for global workforce



Industry Trend Alignment

Content continuously updated to reflect latest industry developments

Partnering with NSDC for Shared Success

01

Global Collaboration

Invitation to governments, enterprises, and organizations for co-creating scalable solutions for Skilling ecosystem

Shared digital prototyping ground for new skilling tech and approaches across ASEAN countries

Skills Innovation Sandbox Network

02

03

Interoperability

1. Credentials, Taxonomy, Learning Interoperability within ASEAN partners
2. Interoperable via Skill Protocols

Thank You

www.nsdcindia.org

For queries, please email me at:
vinoo.das@nsdcindia.org