National Academic Depository (NAD)

Seventh Annual Groningen Declaration Network Meeting

Paris, France

20th April, 2018
CDSL Group Businesses

**CDSL**

- **Depository Services**
  - 15 million customer accounts
  - 94% PIN codes served
  - 594 Depository Participants operating across 17,473 service locations
  - 10,628 issuing companies

- **Consolidated Account Statement (CAS) services**
  - 1.2 million statements per month

- **E-Voting Services**
  - 4,300+ companies,
  - 17,600+ e-voting instances

- **E-Locker Services** for Investors

- **Go Green Services** for Depository Participants

- **Web and Mobile** applications for Investors

**CDSL VENTURES**

- **National Academic Depository (NAD)**
- **KYC Registration Agency** (Tax ID based KYC)
  - 1st and largest KRA with over 17 million KYCs
  - Holding 65% of the total Tax ID based KYC
- **User Agency for UIDAI** (Unique Citizen ID based eKYC and eSign)
- **Goods and Service Tax Provider (GSP) services**
- **Registrar and Transfer Agents (RTA) services**

**CDSL INSURANCE REPOSITORY**

- **Insurance Repository** facilitates policyholders to hold insurance policies in electronic form
  - Holding 0.35 million, 60% of total eIA accounts

**CDSL COMMODITY REPOSITORY**

- **Commodity Repository** facilitates issuance, holding, deposits, withdrawals and transacting of warehouse receipts
The Eco-System: Stakeholders & Regulatory bodies

National Academic Depository (NAD)
An initiative of Government of India facilitated by Ministry of Human Resource Development

University Grants Commission
Academic Institutions (AI) /Boards/ Assessment Bodies
Students
Verifiers
NAD Stakeholders

Certificates
Eliminates fake/forged certificates
Policy Formulation
Secure
Portability
Green Initiative
WDS
Digital Depository
Transparency
Online
Analytics
Verification
Audit
24X7X365

NAD

CDSL Ventures Limited
... exploring new horizons

Government of India
Ministry of Human Resource Development
Academic Institutions - Functionalities

- Manage Users
- Upload Awards
- Student Registration – Bulk
- MIS / Analytics
- Seed Aadhaar / NAD ID
- Manage Courses / Events
- XML Conversion Utilities
- Digital Signing
Students - Functionalities

- Aadhaar Registration
- Non-Aadhaar Registration
- Attestation/Apostille
- View / Manage Profile
- Autolink Awards
- Consent to Verify Awards
- View Awards
- Student Portability
# NAD Ecosystem and Benefits

<table>
<thead>
<tr>
<th>Benefactors</th>
<th>Awards</th>
<th>Academic Institutions</th>
<th>Students</th>
<th>Verifiers</th>
<th>Governing Bodies</th>
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<tbody>
<tr>
<td></td>
<td>Convocation/ Degree</td>
<td>Central</td>
<td>Higher Education/ Employment in India</td>
<td>VISA/Consulates</td>
<td>Ministry of HRD</td>
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<td>Transcripts</td>
<td>State</td>
<td>Higher Education/ Employment in Abroad</td>
<td>Background Verifiers</td>
<td>Ministry of External Affairs</td>
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<td>Marksheet</td>
<td>Deemed</td>
<td>International Students in India</td>
<td>National/International Higher Education Institutes</td>
<td>Ministries (Central &amp; State)</td>
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<td></td>
<td>Conduct</td>
<td>Private</td>
<td>Domestic and International Recruiters</td>
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<td>Directorates (Central &amp; State)</td>
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<td></td>
<td>Provisionals</td>
<td>IIMs</td>
<td></td>
<td>Banks</td>
<td>councils</td>
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<td></td>
<td>Skilled Certificates</td>
<td>IITs</td>
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<td></td>
<td>Diplomas</td>
<td>INIs</td>
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<td></td>
<td>Trainings</td>
<td>Institutions under GOI Ministries</td>
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<td></td>
<td>Thesis</td>
<td>Boards</td>
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<tr>
<td></td>
<td>Provisionals</td>
<td>Skilled Training Centers</td>
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<td></td>
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<tr>
<td>Benefits</td>
<td>Digitally signed</td>
<td>Reduce Resources</td>
<td>24/7 online access</td>
<td>Direct access to records</td>
<td>Control</td>
</tr>
<tr>
<td></td>
<td>Authenticated</td>
<td>Online Storage</td>
<td>Lifecycle Awards</td>
<td>24/7 online access</td>
<td>MIS / Analytics</td>
</tr>
<tr>
<td></td>
<td>Customizable to common format</td>
<td>One time Issuance</td>
<td>Consent Mandatory - Privacy</td>
<td>Online payment</td>
<td>College Network</td>
</tr>
<tr>
<td></td>
<td>Fraud Elimination</td>
<td>Secured</td>
<td>Permanent and Safe</td>
<td>Minimum TAT for verification</td>
<td>Direct Access</td>
</tr>
<tr>
<td></td>
<td>Process Efficiency</td>
<td>Attestation / Apostille</td>
<td>Electronic verification</td>
<td></td>
<td>Global Reach</td>
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</tbody>
</table>
Verification Process: Conventional vs NAD

Conventional Process: Average Time – 15 to 30 Days

NAD Process: Average Time – Instant to 24 hrs
NAD – Value Proposition

Digitally Signed Academic Awards for Verification

- Web based System
- Ease of Verification
- Data Privacy
- Cost Effective
- Authentic & Timely Data
- Safe storage & retrieval
- Global Access: Anytime, Anywhere
- Trusted Source

Build
Trust

Maintain
Data Privacy

Enable
Learner’s Mobility

Trusted  Digital  Verifiable  Convenient
Verifiers Functionality in NAD

- Verification of Academic awards post student consent

- Web service / API based model for Verification.

- Bulk Student Award Verification

- Integration with Ministry of External Affairs (India) for Apostille / Attestation process of Student Awards required by Foreign AI’s or Verifiers.

- Payment gateway Integration with Foreign currency transaction capability

- Transparent Tariff structure for Verifiers

- Verification Reports/MIS
# CVL NAD Journey from GDN Melbourne to Paris

<table>
<thead>
<tr>
<th>Description</th>
<th>Melbourne 2017</th>
<th>Paris 2018</th>
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</thead>
<tbody>
<tr>
<td>Academic Institution Registration</td>
<td>10+</td>
<td>270+</td>
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<tr>
<td>Student Registration</td>
<td>500+</td>
<td>23,000+</td>
</tr>
<tr>
<td>Verifier Registration</td>
<td>10+</td>
<td>100+</td>
</tr>
<tr>
<td>Academic Awards Uploaded</td>
<td>150,000+</td>
<td>3,000,000+</td>
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</table>
India Higher Education System

- One of the largest Education Systems in the World
- Steady increase in higher education Gross Enrollment Ratio or GER

2016
- 789 Universities
- 38,498 Colleges

2018
- 864 Universities
- 42,322 Colleges

SANNAM S4 study 2018
Indian Student - Mobility

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>206,708</td>
</tr>
<tr>
<td>Canada</td>
<td>100,000</td>
</tr>
<tr>
<td>Australia</td>
<td>63,283</td>
</tr>
<tr>
<td>New Zealand</td>
<td>30,000</td>
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<tr>
<td>Bahrain</td>
<td>27,000</td>
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<tr>
<td>China</td>
<td>18,171</td>
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<tr>
<td>United Kingdom</td>
<td>14,830</td>
</tr>
<tr>
<td>Germany</td>
<td>13,740</td>
</tr>
<tr>
<td>Philippines</td>
<td>8,500</td>
</tr>
<tr>
<td>Russian Federation</td>
<td>8,000</td>
</tr>
<tr>
<td>Ukraine</td>
<td>8,000</td>
</tr>
<tr>
<td>France</td>
<td>5,000</td>
</tr>
<tr>
<td>Kyrgyzstan</td>
<td>4,686</td>
</tr>
<tr>
<td>Nepal</td>
<td>3,000</td>
</tr>
<tr>
<td>Oman</td>
<td>3,000</td>
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</tbody>
</table>

505,918 Indian Students Studying outside India
CVL NAD – Key Takeaways

One Stop Academic Depository for Academic Institutions, Students & Verifiers

Life time record keeping destination for Academic Institutions

MIS / Data Analytics
Enhances Transparency
Reduces reputational risk
Policy formulation

Green Initiative
Savings in resources and costs
Reduces service delivery times
No Attestation

Eliminates fake/forged certificates
Verification - Anytime, Anywhere
Duplicate Award issuance
The Honourable President of India inaugurating NAD

<table>
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<tr>
<th>Date</th>
<th>Media Release/Coverage</th>
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</thead>
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<tr>
<td>01-01-2018</td>
<td>Banking Frontiers magazine: NAD is now operational</td>
</tr>
<tr>
<td>24-11-2017</td>
<td>CIO: CDSL to safeguard marksheets</td>
</tr>
<tr>
<td>01-11-2017</td>
<td>Case Study: National Academic Depository</td>
</tr>
<tr>
<td>25-09-2017</td>
<td>Express Computer: Digitization of student awards</td>
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<tr>
<td>07-09-2017</td>
<td>Mint Newspaper: A digital database for academic degrees</td>
</tr>
<tr>
<td>09-07-2017</td>
<td>Media Release: NAD launched by Honourable President of India</td>
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</table>
Thank You!

Register as Verifier

@ CVL National Academic Depository

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