This is our story.

Established in 1997 at The National Center for Higher Education

PESC, as a neutral, 501(c)(3) non-profit, membership association, serves its Members and the general public under one common, shared student/learner-centric mission. Optimizing institutional performance, reducing cost and improving data quality and integrity – all benefits of standardization – maximized by PESC’s open, transparent and volunteer-based platform, create a broad, international movement.

Together, we look to advance this mission, expand the global voice, grow and maintain an active and thriving Membership and establish a clear, strategic path for the future.

Join the effort. Join the community. Join PESC.

Leading the establishment & adoption of trusted, open data standards across the education domain

www.PESC.org
All industries have standards bodies.

INTER-STATE TOLL BOOTHs
E-ZPass Interagency Group, a community-based association of states and agencies.

MORTGAGES

CREDIT CARDS
Networks like MasterCard and VISA work with the PCI Data Security Standards Council, a not-for-profit community-based membership association.

Standards Make the World Go ‘Round
“Embrace common standards and data systems so we can know where we stand and how to move forward.”
PESC leads the establishment and adoption of trusted, open data standards across the education domain by serving as an open standards-development and open standards-setting body producing PESC Approved Standards.

PESC envisions complete, global connectivity within and throughout the education domain.

PESC optimizes institutional performance and data quality.

PESC reduces cost and simplifies access.

PESC enables sustainable best practices & innovative solutions that streamline emerging technologies and disparate information systems.

PESC promotes standards-based, lifelong student/learner-centric design & data models, hub & spoke models, federated identity, directory-based services and affiliated open architectures.

PESC Members believe that fostering open, transparent collaboration across educational communities to solve common, industry-shared problems brings much needed clarity and coherence to the education and employment ecosystem.

Established in 1997 at the National Center for Higher Education in Washington, D.C., PESC is Education’s Open Data Standards-Setting Body.

www.PESC.org
With tens of thousands of stakeholders supporting the education eco-system but all at differing levels of technological capacity, standardization is needed throughout as well to ensure interoperability for Access into the eco-system, for the Data and content exchanged and for the Transport method in which content is shared, communicated and exchanged among stakeholders.
Advocacy

1) Data Standards
Adopt, align & implement community-sourced data standards

2) Data Governance
Support an open collaborative, transparent group of stakeholders

3) Data Advocacy
Advocate in policy-maker & IT sectors for high prioritization of data standards

4) Data Usage
Commit to using high quality linked open data across all applications, systems and networks

5) Data Perspective
Ensure a ‘P20W’ (lifelong) & international perspective in all aspects of development

Blueprint for the efficient, secure & successful transition from high school into the higher education & workforce environment.
Organizational Maturation Cycle

**Board of Directors**
Overall governance

**Boards**
Member experts governing standards (CCB, TAB)

**Workgroups**
Standards development by experts (Admissions)

**User Groups**
Organization, development (EdExchange, GEO)

**Task Forces**
Discussion topics of interest and trends (Privacy)
Lead to User Groups and Workgroups
Brand Maturation Cycle

Seal of Approval
PESC’s Premiere Brand

Usage & Implementation
PESC Approved Standards, Technology & Services

Members & Sponsors
Organizations Funding PESC

Participation in PESC
Data Summits, Groups

Awareness of Standardization
Outreach, Events, Conferences, Partnerships
The Evolution of PESC Approved Standards by Technology

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1990</td>
<td>1st EDI Standard: AACRAO, CCSSO, NCES</td>
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<tr>
<td>2001</td>
<td>Education Course Inventory</td>
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<tr>
<td>2009</td>
<td>Admissions Application</td>
</tr>
<tr>
<td>2004</td>
<td>College/High School Transcript</td>
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<tr>
<td>2006</td>
<td>High School Transcript</td>
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<tr>
<td>2009</td>
<td>Admissions Application, IPEDS</td>
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<tr>
<td>2009</td>
<td>Education Test Score Report</td>
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<tr>
<td>2011</td>
<td>1st PESC XML Standard</td>
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<tr>
<td>2011</td>
<td>2nd PESC PDFxml Standard</td>
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<tr>
<td>2013</td>
<td>NLSIS</td>
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<tr>
<td>2013</td>
<td>Student Loan</td>
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<tr>
<td>2015</td>
<td>Education Course Inventory</td>
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<tr>
<td>2016</td>
<td>Academic Portfolio</td>
</tr>
<tr>
<td>2017</td>
<td>Common Credential</td>
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Table 1. The Evolution of PESC Approved Standards by Technology

As the community adopts a new technology, PESC develops and produces a corresponding PESC Approved Standard in that technology. Data contained in a PESC Approved Standard in one technology is equal to in value and integrity to the same PESC Approved Standard in a different technology. For example, one organization using the PESC Approved College Transcript in EDI can trust another organization using the PESC Approved College Transcript in XML as development and production (through mapping) use the same definitions, taxonomies and code sets.

Glossary of Terms

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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<tbody>
<tr>
<td>AACRAO</td>
<td>American Association of Collegiate Registrars &amp; Admissions Officers</td>
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<tr>
<td>ANSI</td>
<td>American National Standards Institute, US Chamber of Commerce Council of Chief State School Officers</td>
</tr>
<tr>
<td>CCSSO</td>
<td>Council of Chief State School Officers</td>
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<tr>
<td>EDI</td>
<td>Electronic Data Interchange</td>
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<td>IPEDS</td>
<td>Integrated Postsecondary Education Data System</td>
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<tr>
<td>JSON</td>
<td>JavaScript Object Notation</td>
</tr>
<tr>
<td>NLSIS</td>
<td>National Center for Education Statistics, US Dept. of Education National Student Loan Data System</td>
</tr>
<tr>
<td>PDFxml</td>
<td>Portable Data Format XML data embedded XML data enhanced XML Markup Language</td>
</tr>
</tbody>
</table>
**Development Maturation Cycle**
Task Forces Morph to User/Work Groups

**CommIT** (inactive)
Partnered with Internet2

**EdUnify** (inactive)
PESC

**EdExchange** (active)
PESC, Driven by California

**GEO Code** (active)
PESC, Resurrect PESC Single Institution ID

**Competencies & Credentials**
NEW – Launch at Spring 2019 Data Summit
PESC Approved student financial aid XML Standard
- implemented in every U.S. college and university, by US Department of Education and loan servicers*

High School and/or College Transcripts
- used/implemented across Canada & USA –
  - CA, GA, IN, NC, OH, VA and throughout Alberta, BC and Ontario

EdExchange pilots
- California Community Colleges, Parchment, ECE & Digitary – National Student Clearinghouse, Credentials Solutions, University of Phoenix

PESC GEO Code pilot
- in production at University of Southern California – new directory in production test phase
Our Groups

- Academic Credentialing & Experiential Learning Task Force
- Data Privacy & Protection Task Force
- JSON-LD Task Force
- Admissions Workgroup for Standardizing Recruitment Data
- Canadian PESC User Group (CanPESC)
- Board of Directors
- EdExchange User Group & SC
- Global Education Organization (GEO) Code User Group & SC
- Standards Development Forum for Education
  - Change Control Board (CCB) & Technical Advisory Board (TAB)
  - Education Record User Group (ERUG) & AACRAO SPEEDE

Free & Open  Member-Based
PARTNERS:
AACRAO, APEREO, ARUCC, A4L, CEDS, Connecting Credentials, DXtera Institute, EMREX, EWP, GDN, HROS, SHEEO

EXHIBITIONS:
AACRAO, ARUCC, US NCES

SPONSORS:
Credentials Solutions, Digitary, National Student Clearinghouse, Oracle, Parchment, DegreeData, ECE

SPONSORSHIPS/AFFILIATIONS:
AACRAO, AIR, California, GDN, US NCES
Our Events

- **Spring 2019 Data Summit**
  - May 7 – 10, 2019 | DC

- **Fall 2019 Data Summit**
  - October 22 – 25, 2019 | Montreal
State of Technology & Standards in Higher Education

- 20th Annual Best Practices Competition
- Featured Speakers & Panelists
- Pre-Summit Training Workshops
- Breakouts
- Continental Breakfast & Breaks
- Lunches & Reception
- PESC Annual Member Meeting
- Elections for PESC Board of Directors
Featured Speakers – Spring 2019 Data Summit

1. **Matt Bemis**, Associate Registrar, University of Southern California
2. **Jerry Bracken**, Software Engineer, Office of Information Technology, Brigham Young University
3. **Doug Holmes**, Acting Manager, eTranscripts, Ontario Universities' Application Centre (OUAC)
4. **Alex Jackl**, President & CEO, Bardic Systems
5. **Mary Chapin**, Chief Legal Officer, VP & Corporate Secretary, National Student Clearinghouse
6. **Doug Falk**, CIO & VP, National Student Clearinghouse
7. **Julia Funaki**, Associate Director, AACRAO
8. **Rick Skeel**, Director of Product Management, Ellucian
9. **Bert van der Geest**, Project Director, Ministry of Education, British Columbia
10. **Viktoriano Giralt**, CIO, University of Malaga, Founding President, Groningen Declaration Network
11. **Cathy van Soest**, Manager, EducationPlannerBC Transcript Services
12. **Matthew Pittinsky**, Ph.D., CEO, Parchment
13. **Joellen Shendy**, Product Strategy Director, Workday
14. **Rick Torres**, President & CEO, National Student Clearinghouse
15. **Scott Cheney**, Executive Director, Credential Engine
16. **Bob Sheets**, Ph.D., Research Professor, George Washington Institute for Public Policy (GWIPP)
17. **Natasha Jankowski**, Ph.D., Director, Education Policy, Organization and Leadership, National Institute for Learning Outcomes Assessment (NILOA)
18. **Jason Tyszko**, Vice President Center for Education & Workforce, US Chamber of Commerce Foundation (USCCF)
19. **Sylvia Brunet-Jones**, Technical Program Manager, Michael & Susan Dell Foundation
20. **Tom Black**, Assistant Vice Provost & University Registrar, Johns Hopkins University
21. **Takis Diakoumis**, Chief Technology Officer, Digitary
22. **James Kelly**, Senior Director of Technology, Educational Credential Evaluators (ECE)
23. **Kirsten Schroeder**, Global Business Services Partner, Education, EPA, OPM, Congressional Offices, IBM
24. **Megan Coval**, Vice President, Policy & Federal Relations, National Association of Student Financial Aid Administrators (NASFAA)
25. **Jason Weaver**, Head of Product, Parchment
26. **Bob Sheets**, Ph.D., Research Professor, George Washington Institute for Public Policy (GWIPP)
27. **Ken Sauer**, Ph.D., Associate Commissioner and Chief Academic Officer, Indiana Commission for Higher Education
28. **Tom Green**, Ph.D., Associate Executive Director, AACRAO
29. **Mark Leuba**, Vice President, Product Management, IMS Global
30. **Michael Sessa**, President & CEO, PESC
2019+

- ANZ User Group (Australia/New Zealand)
- State-Based Task Force
- Competencies & Credentials User Group
- ‘Badge’ for Seal of Approval
- Research
  - Spring 2019 – DC
  - Fall 2019 – Montreal
  - Spring 2020 – DC
  - Fall 2020 – NYC
  - Spring 2021 – DC
  - Fall 2021 – Vancouver
"The success of the Indiana e-Transcript Program would be impossible...without PESC’s XML e-transcript schema."
Ken Sauer, Ph.D., Sr. Associate Commissioner & Chief Academic Officer
Indiana Commission for Higher Education

"PESC is the best place to learn about industry initiatives and join others driving the learning and credential marketplace."
David K. Moldoff, CEO & Founder, AcademyOne

"PESC is more than a think-tank for creative minds and more than the standards it publishes. PESC is the platform for innovative, problem-solving dialogue, which results in functional standards based on real-world business models."
Anne Valentine, President & CEO, DegreeData