



MULTIPLE STAKEHOLDERS. ONE VISION.

POSTSECONDARY ELECTRONIC STANDARDS COUNCIL

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This is PESC.

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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

This is our story.

www.PESC.org



INTER-STATE TOLL BOOTHS

E-ZPass Interagency Group, a community-based association of states and agencies.



MORTGAGES

MISMO - Mortgage Industry Standards Maintenance Organization, a not-for-profit, community-based membership association and subsidiary of the Mortgage Bankers Association.



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

**All industries have
standards bodies.**



**“Embrace common standards
and data systems
so we can know where we stand
and how to move forward.”**

Bill Gates
Bill & Melinda Gates Foundation
National Conference of State Legislatures
July 21, 2009

OUR VALUES



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.

www.PESC.org

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

THREE PILLARS OF PESc



5 GOLDEN PRINCIPLES OF DATA QUALITY & INTEGRITY



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

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

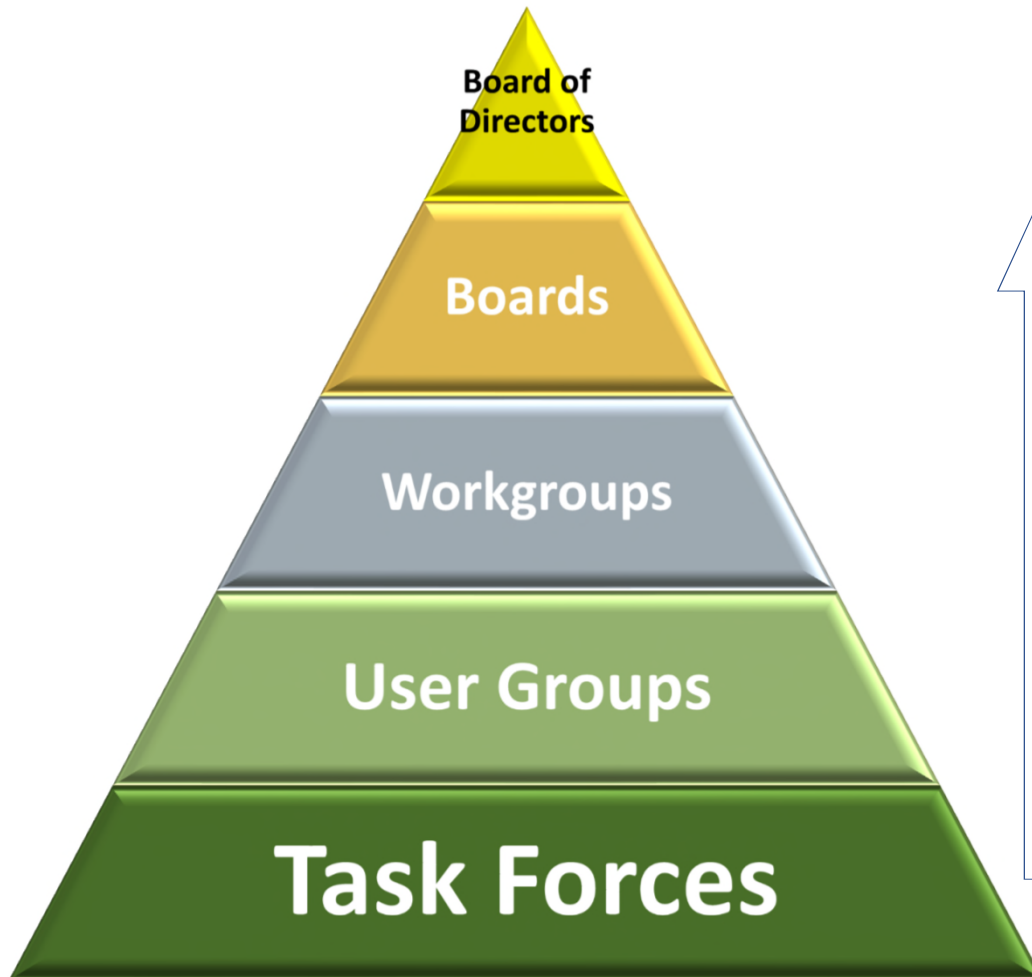
4) Data Usage

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

HOW WE OPERATE



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

OUR FOOTPRINT



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

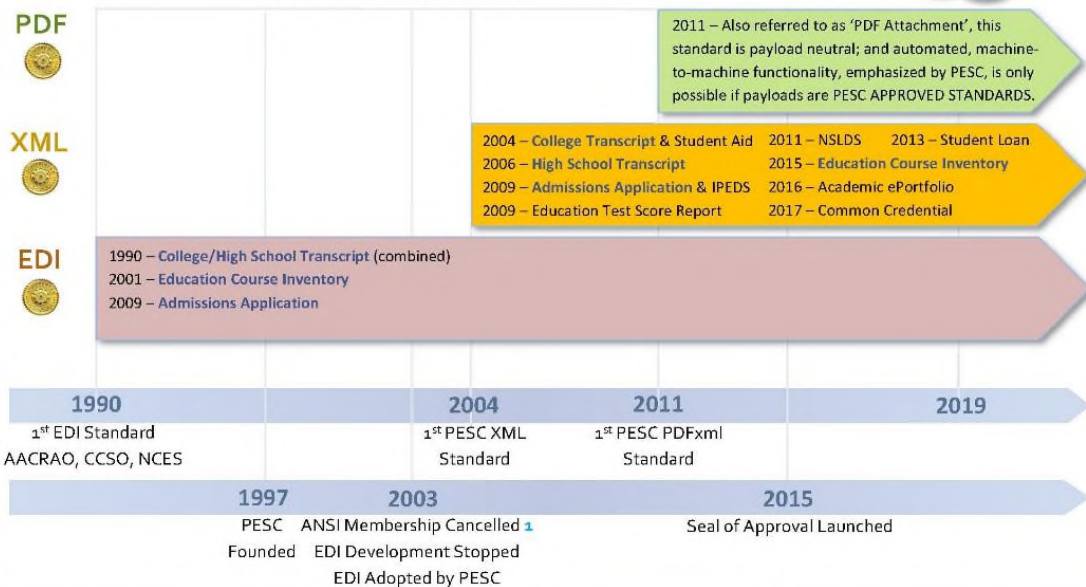


Table 1. *The Evolution of PESC APPROVED STANDARDS by Technology*

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.

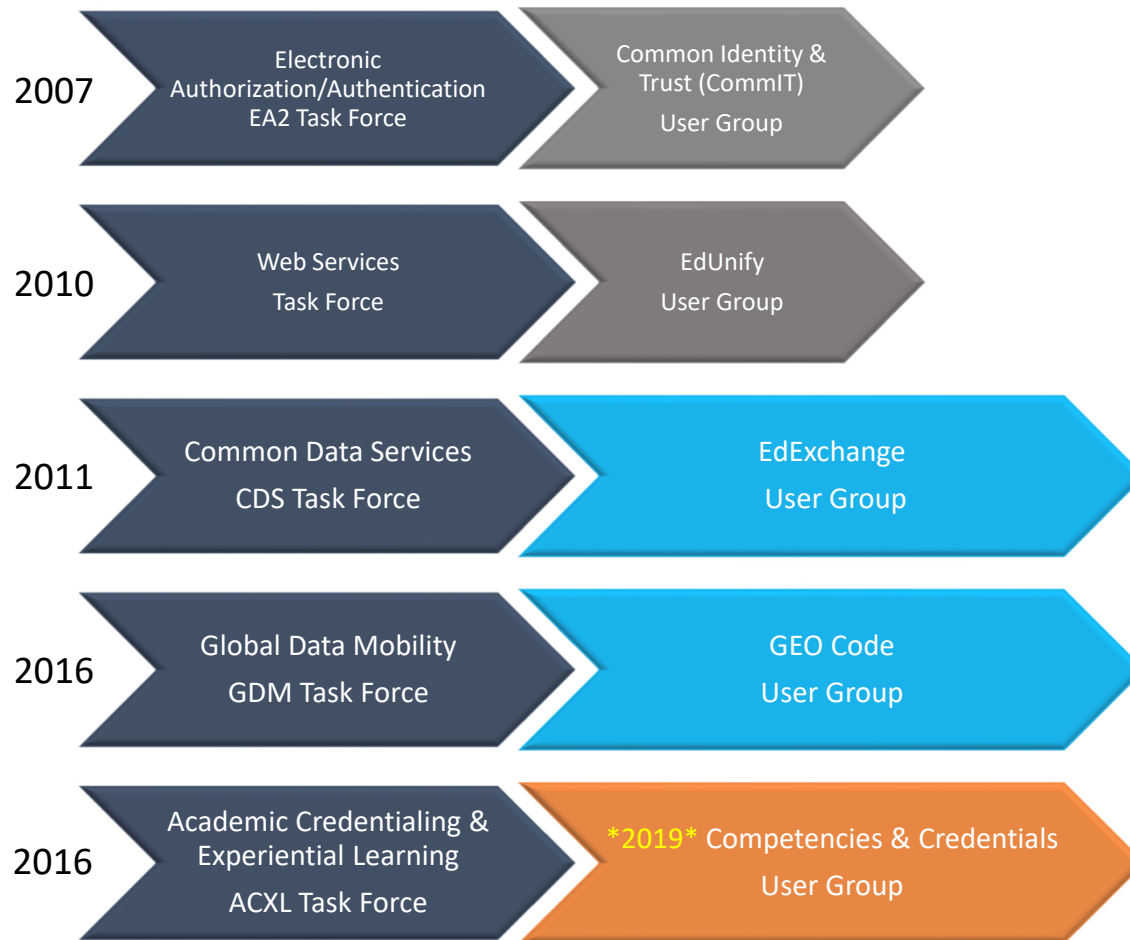
GLOSSARY OF TERMS

AACRAO	American Association of Collegiate Registrars & Admissions Officers	JSON	JavaScript Object Notation JSON - LD (Linked Data)
ANSI	American National Standards Institute, US Chamber of Commerce	NCES	National Center for Education Statistics, US Dept. of Education
CCSSO	Council of Chief State School Officers	NSLDS	National Student Loan Data System
EDI	Electronic Data Interchange	PDFxml	Portable Data Format XML data embedded
IPEDS	Integrated Postsecondary Education Data System	XML	eXtensible Markup Language

Evolution of Data Standards Development

Voluntary Consensus Standardization & Adoption

OUR PUBLIC PURPOSE



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 Footprint



- **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

Our Groups



➤ **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 Outreach





➤ **Spring 2019 Data Summit**

➤ May 7 – 10, 2019 | DC

➤ **Fall 2019 Data Summit**

➤ October 22 – 25, 2019 | Montreal

Our Events

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) **Victoriano 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) **Ken Sauer**, Ph.D., Associate Commissioner and Chief Academic Officer, Indiana Commission for Higher Education
- 27) **Tom Green**, Ph.D., Associate Executive Director, AACRAO
- 28) **Mark Leuba**, Vice President, Product Management, IMS Global
- 29) **Michael Sessa**, President & CEO, PESCS





**Fall 2019 Data Summit
October 22 – 25, 2019
Montreal**



2019+

OUR PLANS

- 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



Anne Valentine, President & CEO, DegreeData
functional standards based on real-world business models.



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