

Welcome!

Postsecondary Electronic Standards Council proudly presents

SPRING 2019 DATA SUMMIT

STATE OF TECHNOLOGY & STANDARDS IN HIGHER EDUCATION

20TH ANNUAL BEST PRACTICES | MAY 8 – 10, 2019 | WASHINGTON, D.C.



MULTIPLE STAKEHOLDERS. ONE VISION.



MICHAEL D. SESSA
PRESIDENT & CEO
michael.sessa@pesc.org
+1.202.261.6516

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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 PESC.



www.PESC.org



Our Sponsors.

www.PESC.org



1ST PLACE AWARD WINNER

TBA

MAY 8, 2019



**20th Anniversary
Best Practices**

www.PESC.org



- **Spring 2019 Data Summit**
 - May 7 – 10, 2019 | DC
- **Fall 2019 Data Summit**
 - October 22 – 25, 2019 | Montreal

Our Events.

**Congregate.
Collaborate.
Innovate.**

Get Connected!



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 & free 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.



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Our Perspective

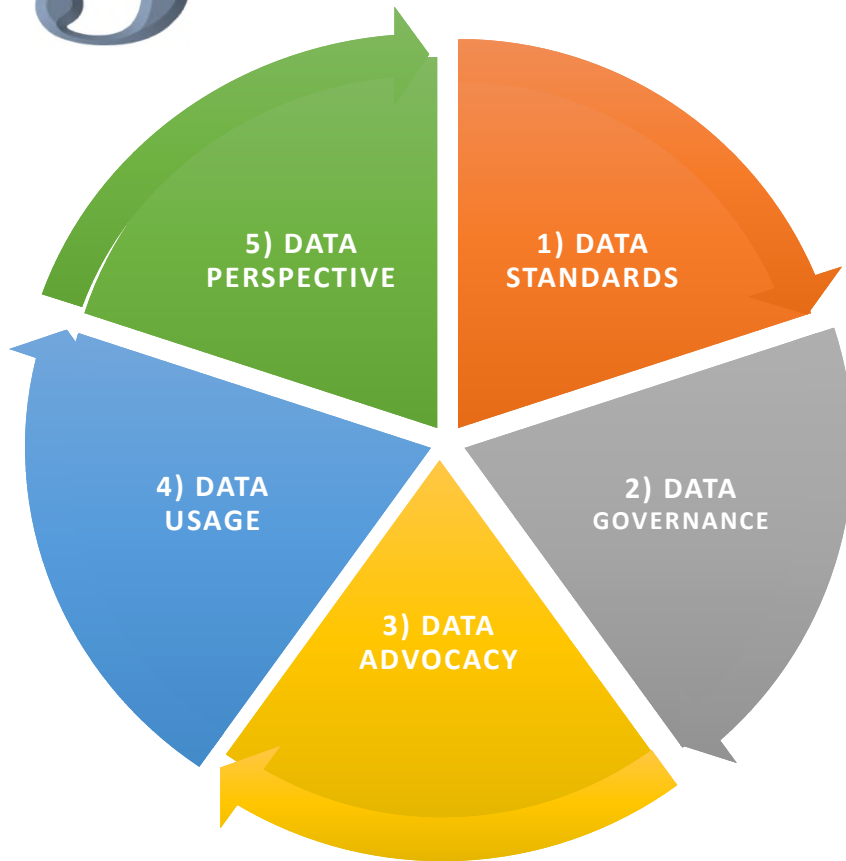
THREE PILLARS OF PESCS



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.

5

Golden Principles of Data Quality & Integrity



Advocacy – Our Voice

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 prioritization of data standards

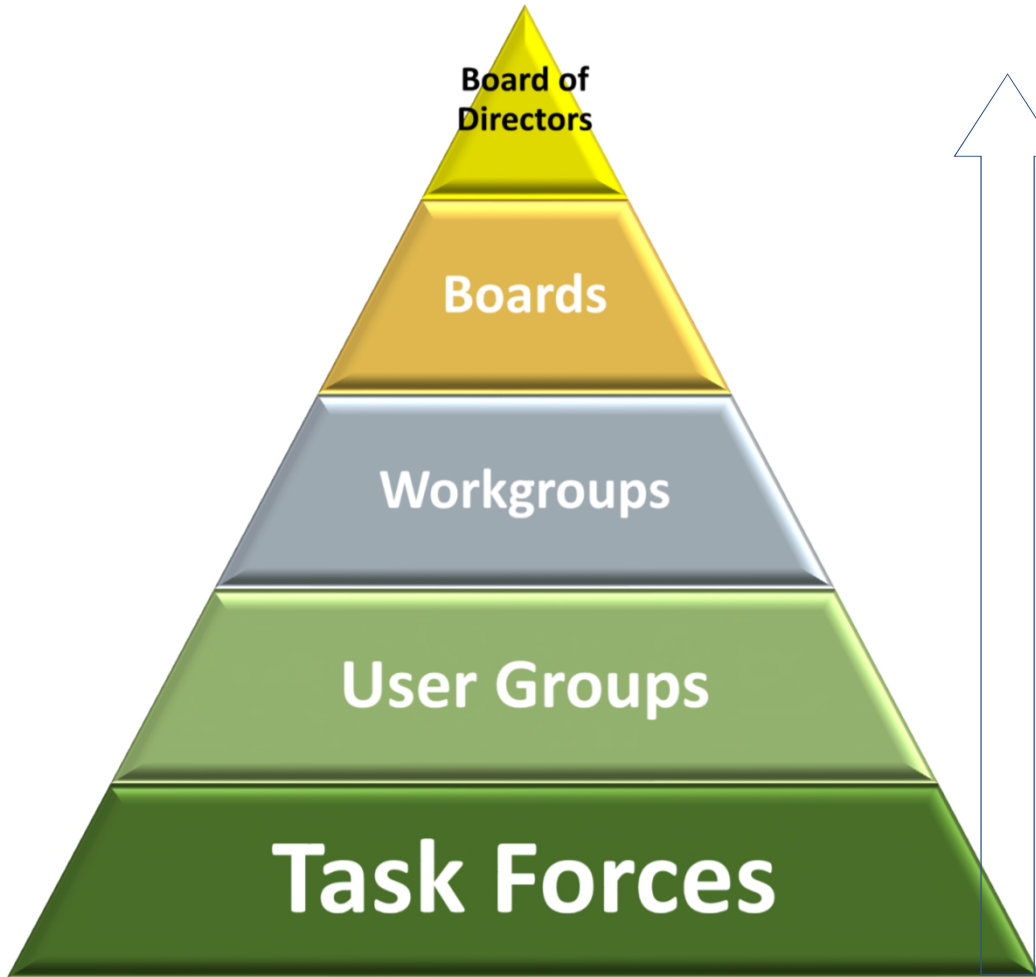
4) Data Usage

Commit to using high quality linked open data across all applications, systems & 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.



How We Operate

Organizational Maturation Cycle

Board of Directors

Overall governance

Boards & Steering Committees

Member experts governing standards & services

Workgroups

Data standards development by experts

User Groups

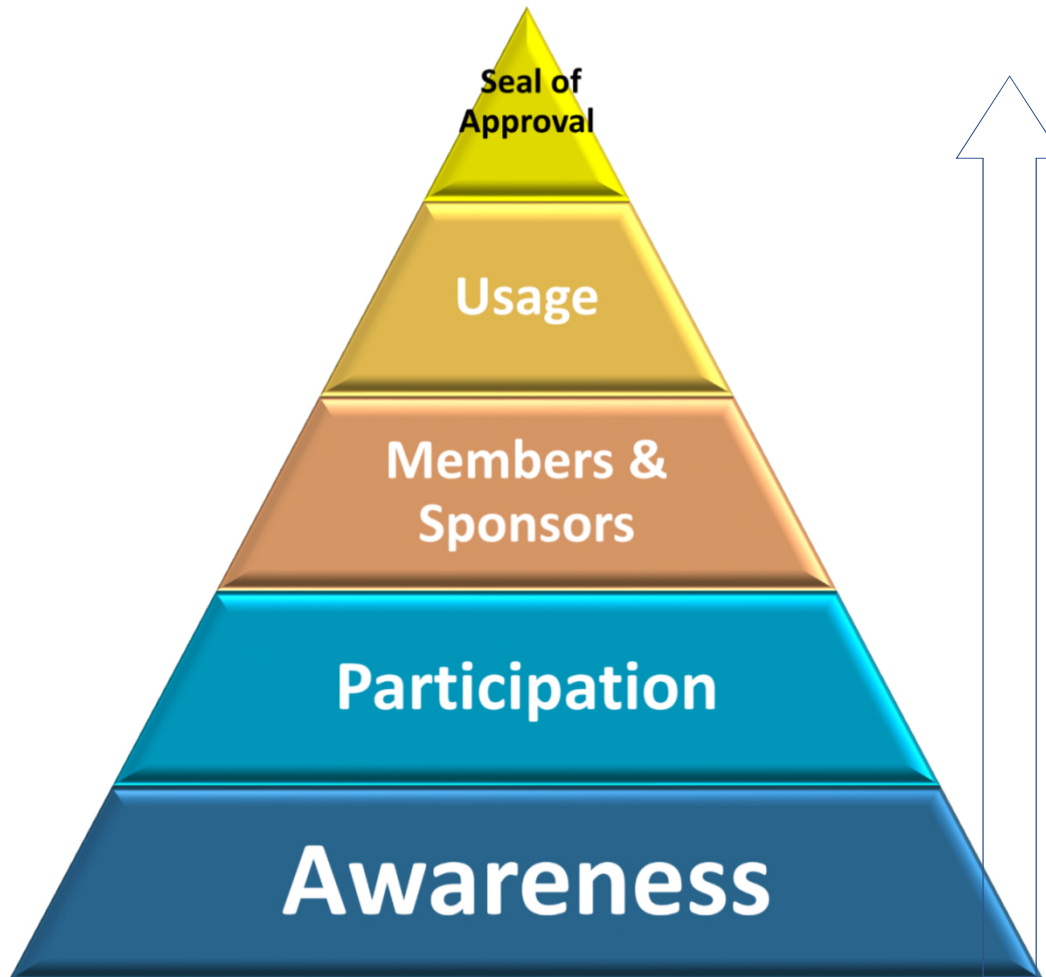
Organization, development of projects & initiatives

Task Forces

Discussion topics of interest and trends

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*

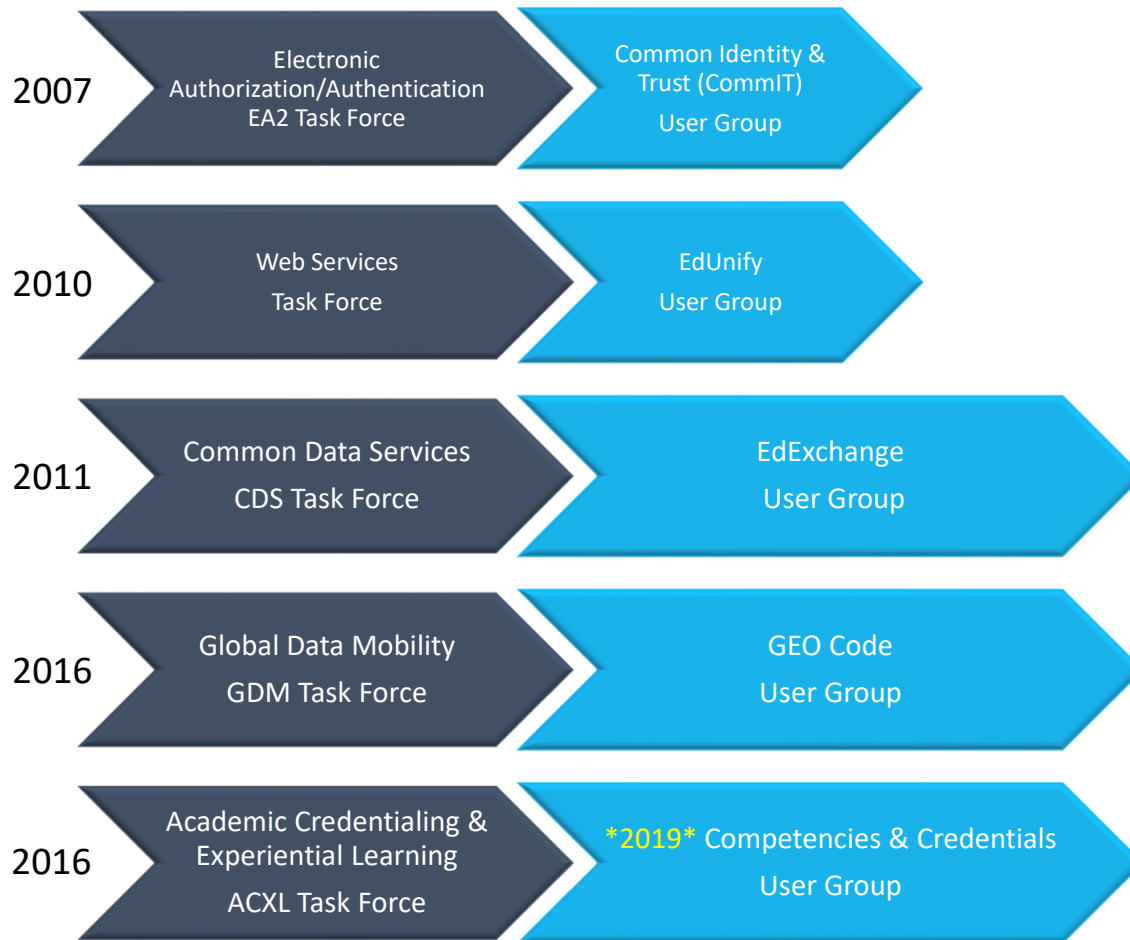
As the community adopts a new technology, PESC develops and produces a corresponding PESC APPROVED STANDARD in that technology. Data contained in a PESC APPROVED STANDARD in one technology is equal in value and integrity to the same PESC APPROVED STANDARD in a different technology. For example, one organization 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

Public/Private, Free/Member-Based

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.



STATE OF TECHNOLOGY & STANDARDS IN HIGHER EDUCATION | SPRING 2019 DATA SUMMIT

– PROGRAM AT A GLANCE –

	TUESDAY MAY 7, 2019	WEDNESDAY MAY 8, 2019	THURSDAY MAY 9, 2019	FRIDAY MAY 10, 2019	
7.30am 8.30-10.00am		CONTINENTAL BREAKFAST & DATA SUMMIT REGISTRATION			
		GLOVER PARK 8.30-9.00 Welcome & Introductions - Michael Sessa, PESC 9.00-10.00 Learner-Centric, Hub-Spoke Models - Bert van der Geest, BC Ministry of Education - Cathy van Soest, EducationplannerBC - Victoriano Giralt, University of Malaga	GLOVER PARK 8.30-9.00 Integration & Implementation - Kirsten Schroeder, IBM 9.00-9.30 - Rachel Kruse/Susan Williams, National Forum 9.30-10.00 - Megan Coval, NASFAA	GLOVER PARK Credential Engine))))	GEORGETOWN Data Privacy & Protection Task Force))))
10.00-10.30am 10.30am-Noon		BREAK			
		Digitalization: Evolution or Revolution? 10.30-Noon - Scott Cheney, Credential Engine - Matthew Pittinsky, Parchment - Joellen Shendy, Workday - Rick Torres, National Student Clearinghouse	Integration & Implementation 10.30-11.00 - Ken Sauer, Indiana Commission - Jason Weaver, Parchment 11.00 – 11.30 - Tom Green, AACRAO 11.30-Noon - Mark Leuba, IMS Global	GLOVER PARK Academic Credentialing Task Force))))	GEORGETOWN AACRAO SPEEDE Committee))))
Noon-1.30pm	PRE-SUMMIT REGISTRATION GEORGETOWN	GLOVER PARK 20th Annual Best Practices & Awards	LUNCH GLOVER PARK It's All About the Data – History of Standards - Michael Sessa, PESC	ADJOURN GLOVER PARK Competencies & Credentials User Group* Lunch & Launch	
1.30-3.00pm	Pre-Summit Training Workshop Development & Production Digital Data 101: EDI, PDF, XML & JSON - Matt Bemis, USC - Jerry Bracken, BYU - Doug Holmes, OUAC - Alex Jackl, Bardic Systems	1.30-3.00 Reshaping the Ecosystem Panel - Bob Sheets, GWIPP - Sylvia Brunet-Jones, MSDF - Natasha Jankowski, NILOA - Jason Tysko, USCCF	GLOVER PARK USCCF JDX & T3 Innovation Network (by USCCF invite)))))	GEORGETOWN EdPlan Standards Workgroup))))	KALORAMA Standards Development Forum Change Control Board Technical Advisory Board
3.00-3.30pm		BREAK			
3.30-5.00pm	Pre-Summit Training Workshop Development & Production Data Privacy & Protection 101 - Mary Chapin, NSC - Doug Falk, NSC - Julia Funaki, AACRAO - Rick Skeeel, Ellucian	Portability & Scalability 3.30-4.00 - Tom Black, Johns Hopkins University 4.00-4.30 - Takis Diakoumis, Digitary - James Kelly, ECE 4.30-5.30 - Blockchain & PESC Compatibility	GLOVER PARK JSON-LD Task Force))))	GEORGETOWN Canadian PESC User Group CanPESC))))	KALORAMA EdExchange User Group
5.00-6.00pm	PESC Board of Directors		Annual PESC Member Meeting		
6.30-7.30pm		Annual Spring Reception			

All General & Breakout Sessions and events are opened to all registrants, unless otherwise noted.))))) Webinar/Teleconference. *PESC Member-Based. [Spring 2019 Data Summit](#) [Dupont Circle Hotel](#)

Program At A Glance.



PESC SEAL OF APPROVAL VALID
THROUGH AUGUST 31, 2019

**XML COLLEGE
TRANSCRIPT**

PESC SEAL OF APPROVAL VALID
THROUGH AUGUST 31, 2019

**XML
REQUEST/RESPONSE
OF COLLEGE
TRANSCRIPT**



PESC SEAL OF APPROVAL VALID
THROUGH JANUARY 31, 2020

**XML HIGH SCHOOL
TRANSCRIPT**

PESC SEAL OF APPROVAL VALID
THROUGH JANUARY 31, 2020

**XML COLLEGE
TRANSCRIPT**

Seal of Approval.





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