OCTOBER 2024 DATA SUMMIT

Hyatt Regency Orange County, CA

October 16-17, 2024

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MICHAEL FELDSTEIN, 1EDTECH

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STEVE SMITH, A4L COMMUNITY

Data Standards United (DSU): Myths & Movement

WEDNESDAY, OCTOBER 16, 2024

Data Standards are stronger together than apart.

No open, voluntary data standard should be in competition with another- collaborative standardization between standards bodies, agencies, and learning organizations is the path to serving learners through their whole journey from cradle to retirement.

Data Standards United is not a new organization, but a voluntary partnership based on shared values.

We are committed to establishing a sustainable collaborative of Data Standards Development Organizations (SDO) & their stakeholders across education, employment, and training sectors to support the global education & workforce digital ecosystem

Video Interlude

From Jim Ireland, Executive Director of HROS

https://www.dropbox.com/scl/fi/ot7rk75hnbsqoouzyjza3/20241009-HROpenIntro.mp4?rlkey=el70jzcf4i0at0hdzb9qcvlls&dl=0

This session we will have leaders from multiple standards engaging the audience in a conversation for what the myths are around standards and the approaches we can take NOW to collaboratively standardize.

Our Panelists…

DSU’s goals is to establish a "common ground" mechanism and coordinate and align disparate global data standards across systems, platforms, networks, sectors, and industries – while respecting and supporting the underlying standards body’s independence & role

We are also committed to broaden our perspective to customer-centric vs. transactional.

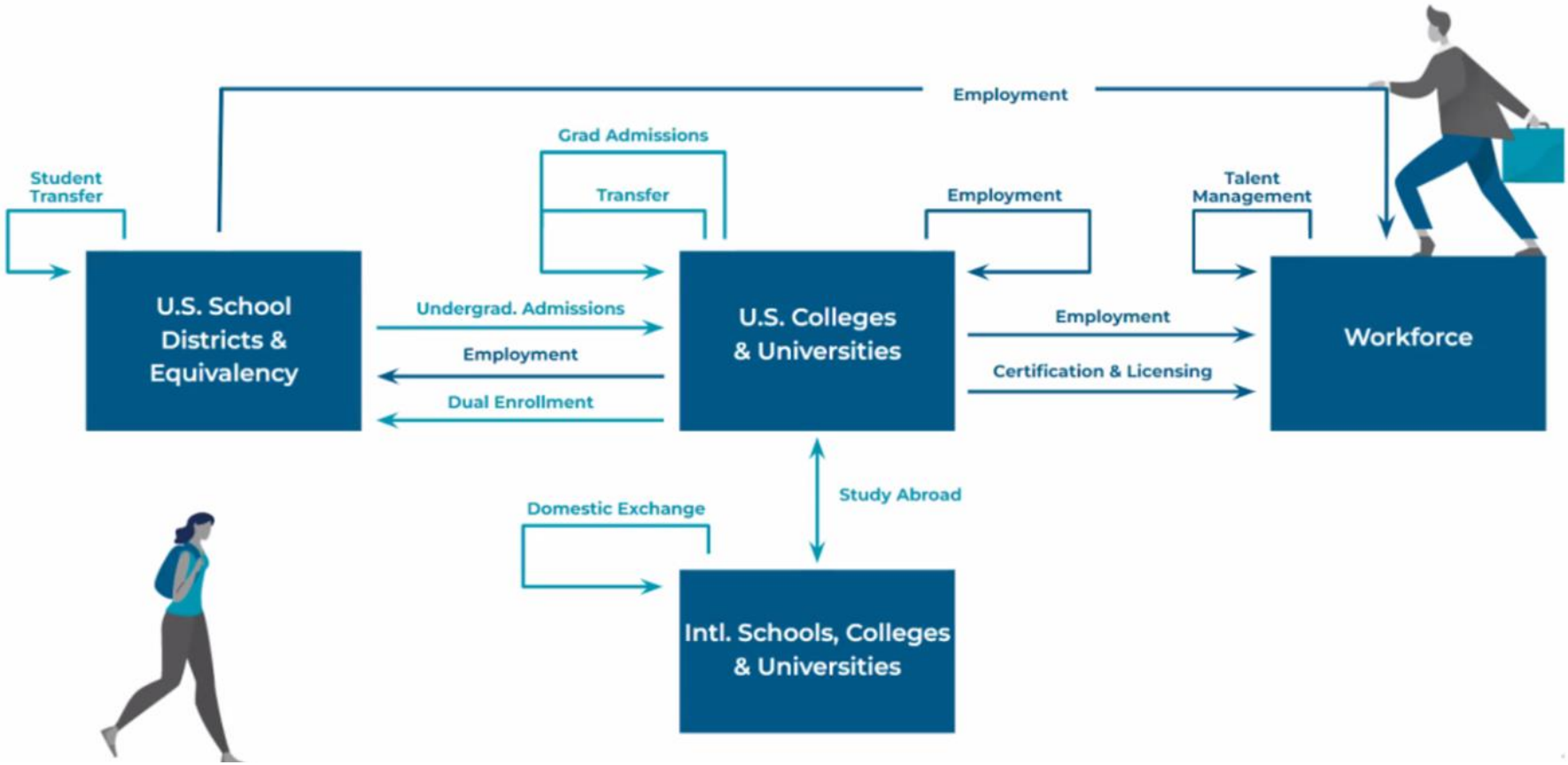
Video Interlude

From Jim Goodell, Chair of the IEEE LTSC Committee

https://www.dropbox.com/scl/fi/i6i3b8nge3ohaznf1be9y/Jim-Goodell-DSU-endorsement-at-PESC-Oct-2024.mp4?rlkey=n1f7loqvmt1td1dizybb6r2bd&dl=0

Everything Is Connected to Everything

parchment



Amanda's Data ('My Lifelong Data')

Business Reasons (Use/Business Cases)

Education PK12 Postsecondary	Military	Workforce & Employment	Health
Citizenry Community Service Leadership	Sports	Government	Accomplishments

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Affiliates to Data Standards United

Advanced Distributed Learning

www.adlnet.gov

Common Education Data Standards

ceds.ed.gov

Credential Engine™

www.credentialengine.org

IEEE

Learning Technology Standards Committee

sagroups.ieee.org/ltsc

T3 INNOVATION NETWORK

The T3 Innovation Network is exploring the emerging technologies and standards in the talent marketplace to create more equitable and effective learning and career pathways.

www.uschamberfoundation/t3-innovation

Types of Interoperability

- Business Case Interoperability
  - wallets, credentials, compliance reporting
- Semantic Interoperability
  - CEDS vocabulary, PESC Transcripts, A4L Unity IEP Data Model, 1EdTech CLR, EdFi Teacher Training Model
- Transport Interoperability
  - SIF Infrastructure, LTI
- Portability
  - LERs, Verified Credentials, CTDL, CASE

Points of Convergence

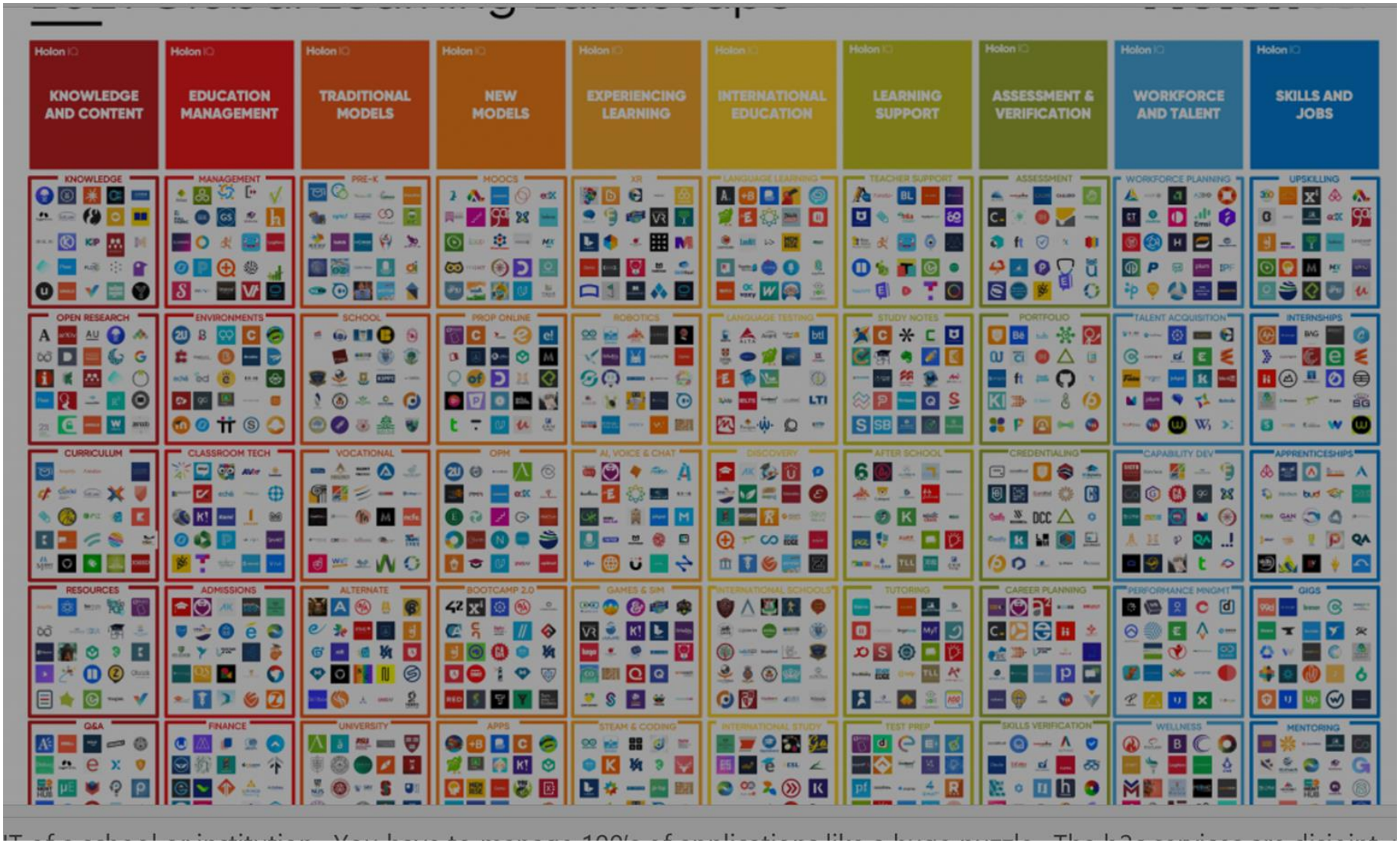
- Vocabulary Alignment
- Aligned Data Models
- Standardized Infrastructure
- Privacy and Security Support
- Bridging Technologies
  - *Wallets / Authoring Tools / RESTful APIs / BLOCKCHAIN / JSON-LD-XML-PDF-RDF / Registries / etc.*

Why Hasn't Collaboration Worked? (I of II)

1. **Personalities**: We are adults - we are working together
2. **Sustainability**: These are hard organizations to keep sustainable and we are all chasing dollars
3. **Friction:** Friction is positive - but good collaboration requires financial support and there is work required
4. **Scaling Adoption -** Sustainability beyond one project

Why Hasn't Collaboration Worked? (II of II)

1. Longevity
2. Marketplaces are difficult to "Control"
3. Lack of Shared Vision of the Landscape, Turf
4. Intent and Alignment of Stakeholders is not easy
5. Process / Getting things done today in isolation (by scope)
6. Technology Challenges
7. Data / Information being disparate
8. Business Cases
9. Turf /Politics
10. Money, resources
11. Trust (Bias, Past Experiences, Fear, Risk avoidance, Loss of Control, Loss of Access)
12. Scope of Vision (Confusion, Noise and Lack of Clarity, Lack of Roadmap, Chaos vs Control)


Holon IQ
KNOWLEDGE AND CONTENT
EDUCATION MANAGEMENT
TRADITIONAL MODELS
NEW MODELS
EXPERIENCING LEARNING
INTERNATIONAL EDUCATION
LEARNING SUPPORT
ASSESSMENT & VERIFICATION
WORKFORCE AND TALENT
SKILLS AND JOBS
KNOWLEDGE
MANAGEMENT
PRE-K
MOOCS
XR
LANGUAGE LEARNING
TEACHER SUPPORT
ASSESSMENT
WORKFORCE PLANNING
UPSKILLING
OPEN RESEARCH
ENVIRONMENTS
SCHOOL
PROP ONLINE
ROBOTICS
LANGUAGE TESTING
STUDY NOTES
PORTFOLIO
TALENT ACQUISITION
INTERNSHIPS
CURRICULUM
CLASSROOM TECH
VOCATIONAL
OPM
AI, VOICE & CHAT
DISCOVERY
AFTER SCHOOL
CREDENTIALING
CAPABILITY DEV
APPRENTICESHIPS
RESOURCES
ADMISSIONS
ALTERNATE
BOOTCAMP 2.0
GAMES & SIM
INTERNATIONAL SCHOOLS
TUTORING
CAREER PLANNING
PERFORMANCE MNGMT
GIGS
Q&A
FINANCE
UNIVERSITY
APPS
STEAM & CODING
INTERNATIONAL STUDY
TEST PREP
SKILLS VERIFICATION
WELLNESS
MENTORING

QUESTIONS / COMMENTS?

Video Interlude

From Duane Brown, of CEDS

https://www.dropbox.com/scl/fi/4yzgvsvj5s6kg0li5ecjx/Meeting-20241002_134517-Meeting-Recording.mp4?rlkey=p7u3bssxveobg3fpiws3d42kv&dl=0

Examples of Successful Collaboration

1. Iowa Transcripts
2. AIF
3. CEDS-A4L
4. MA Data Hub
5. T3 LER Wrapper (VC, CLR,) - catalyzing
6. 1EdTech-HROS LER-RS
7. JEDx

We want to partner in a way that's going to help the standards community…

and we also need to do it in a way that isn't going to leave us under resourced to provide the support we would be committing to

Video Interlude

From Jason Tyzco, Executive Vice-President of the US Chamber Foundation

https://www.dropbox.com/scl/fi/caok3yyhv6gv5mfhawphn/USChamber_video1962656561.mp4?rlkey=s0gclypeugvgckwc8e5599hkw&dl=0

QUESTIONS / COMMENTS?

NEXT STEPS….

The Digital Freeway Strategy

1. Establish a Unified Vision and Goals
2. Create a Collaborative Framework
3. Standardize Data Exchange Protocols
4. Develop or Consolidate Shared Resources and Tools
5. Foster Innovation Through Challenges, Grants, and Awards
6. Educational and Training Programs
7. Pilot Projects
8. Feedback and Iteration
9. Advocacy and Communication

Possible Participants

1. 1EdTech (Signatory)
2. ADL (Affiliate)
3. A4L (Signatory)*
4. CEDS (Affiliate)*
5. CCSSO (Not Yet Engaged)
6. Credential Engine (Affiliate)*
7. ED3 (Signatory) *
8. EdFi (Not Yet Engaged)
9. GDN (Affiliate)
10. HR Open (Signatory)*
10. IEEE LTSC (Affiliate)*
11. Internet 2 (Not Yet Engaged)
12. Medbiquitous (Signatory)*
13. PESC (Signatory)*
14. T3 Innovation Network (Affiliate)*
15. W3C (Not Yet Engaged)

The Digital Freeway Lighthouse Projects

1. Harmonize Data Model and Shared Vocabulary
2. Shared Infrastructure
3. Privacy Support
4. Organizational Harmonization

Lighthouse Project 1:

Harmonize Data Model and Shared Vocabulary

- All DSU Standards work together
- Model their key objects and specifications into the CEDS Ontology
- Develop relationships using Credential Transparency Description Language (CTDL)
  - CTDL is a W3C Resource Description Framework (RDF) standard for data interchange
- Incorporate the new model back into all of our Standards

Lighthouse Project 2: Shared Infrastructure

- All DSU Standards work together
- Utilize JEDx Work and SIF Infrastructure
- Separate Transport and Content,
- Built in Privacy Support
- Establish Shared Registries and Utility Services
- Test Harness, Implementation Guides, and User Groups
- SDKs in multiple languages

Lighthouse Project 3: Privacy Support

- Privacy Obligation Documents (PODs)
- SPDC Registry
- Expanding to PK20W+

Lighthouse Project 4: Organizational Harmonization

- Joint Venture Agreements (like PESC-A4L)
- Defined Areas of Expertise and Coordination
- Process Defined for Collaboration and Cross-Segment Change Management
- Outreach and Expansion

QUESTIONS / COMMENTS?

Closing Video Interlude

From Nancy Copa, Director of the Common Education Data Standards

https://www.dropbox.com/scl/fi/6452q6263t8cq0utimqrm/CEDS-2024-10-16.mp4?rlkey=axp5b55bm5lrli5traqgmq2pb&dl=0

Closing Remarks…

If you are interested in having a "what could it be" conversation around these projects across sectors:

Alex Jackl, Bardic Systems CEO, DSU Chair
alex@bardicsystems.com

David Moldoff, AcademyOne , PESC Board Chair
ben.silberglitt@cedarlabs.com

Steve Smith, A4L, Executive Director
ssmith@a4l.org

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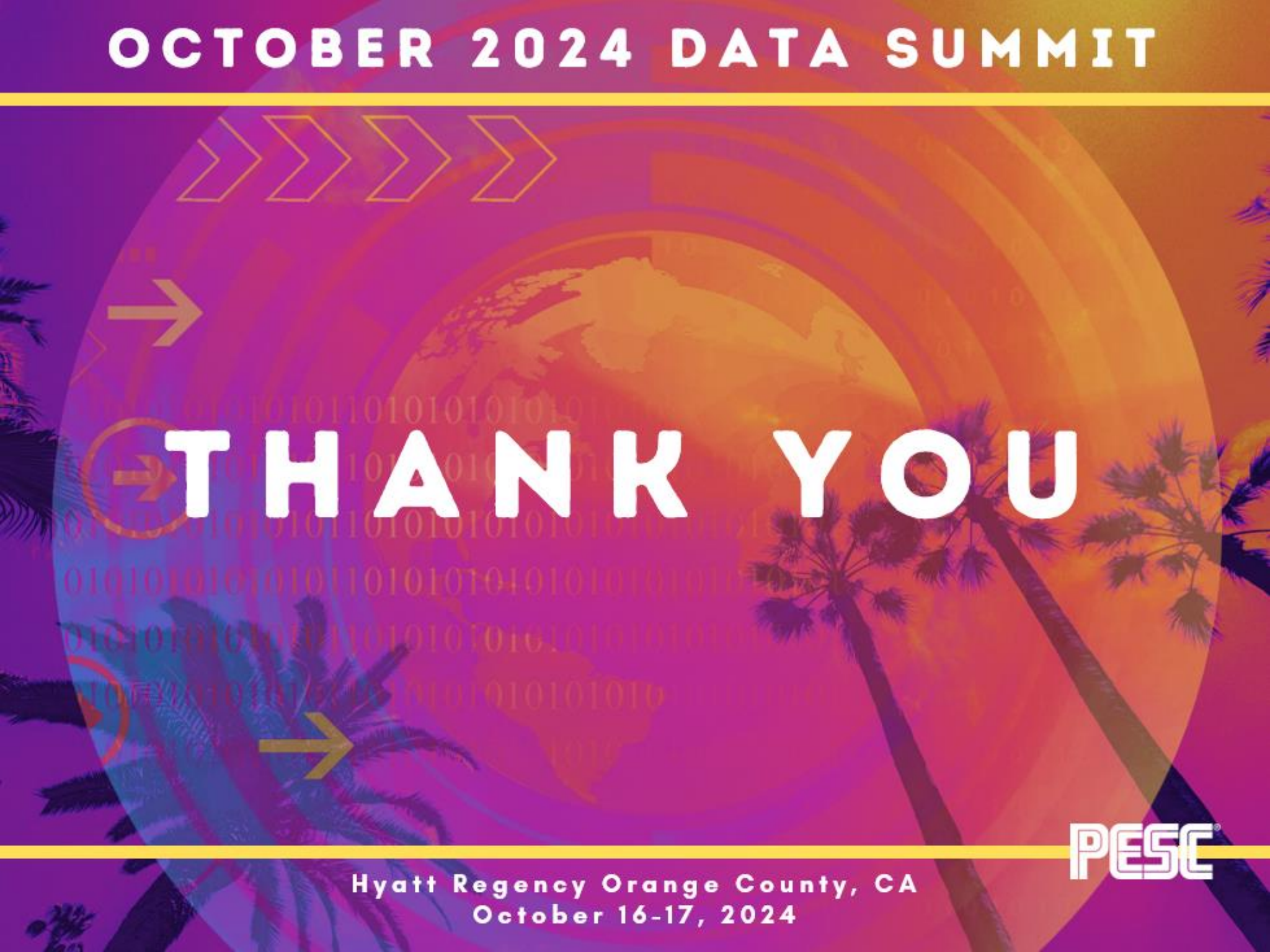

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