

PESC Updates

Rapid-fire!

SESSION MODERATOR



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Principal, Jim Kelly
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Co-Chair 

RAPID-FIRE Agenda

- Standards Forum
- GEO-Code
- JSON-LD Transcript
- CanPESC

Standards Forum

Standards Forums

- Current Iteration of long-standing governance related to technical implementation of standards
- Friendly place to ask questions for definitively correct answer!
- Supports the revision submission and post-submission process
- Meets every Friday morning, includes the PESc Steering committee one First Fridays

GEO-Code

Global Education Organization Code



GEO-Code

- Born in 2016 as a PESC initiative (Revisited)
 - USC + International Credentials Vendor driven solution
- Guiding principles published in 2017
- MPV web services live in 2017
- Most countries and territories are currently indexed
- A view of our Guiding principles, and GEOcode Definitions/scope
 - pesc.org/geo-code.html

GEO-Code

- Current Status of the Project:
 - ECE development continues beyond MVP
 - Technology Refresh w/Azure Devops
 - Increased Reliability, Usability, Security and Future Proofing
 - New Modern UI
 - New and extended RESTful API's
 - Helpful partners/contributors update
 - Creation of a larger PESC environment, now including GEO Codes in new more accessible and updatable environment
 - PESC GEO Codes back end and front end technical updates, user requirement refinements, and documentation plans in progress
 - Project goal of improving ease of GEO Codes data maintenance, updates, search and use.

Other active GEO-Code initiatives

- Native indices options for the directory service
- 5-year country update review in progress
- High School GEOCode active for some countries
- Record Reference features coming soon (links closed, renamed, merged schools)
- Build out of Country Administrator/sub-Country admin capabilities
- Broadening the scope of developers
- Seeking out additional co-chair(s) for consideration by Steering Committee
- Most back- and front-end improvements and enhancements scheduled for completion in early 2024

JSON-LD Transcript

Creating a machine readable, semantic
PESC College Transcript

History/Progress

- Started in 2021 to develop a JSON version of PESC college transcript based on the PESC XML college transcript
- Early work to review JSON vs JSON-LD and determine path
- JSON transcript faster but JSON-LD provides longer term benefits
- Developed initial RDF college transcript model
- Decision to align with other standards
 - CEDS - Common Education Data Standards
 - Credential Engine
 - W3C Verifiable Credentials
 - 1EdTech CLR
- Currently working directly with CEDS to align properties

RDF/JSON-LD

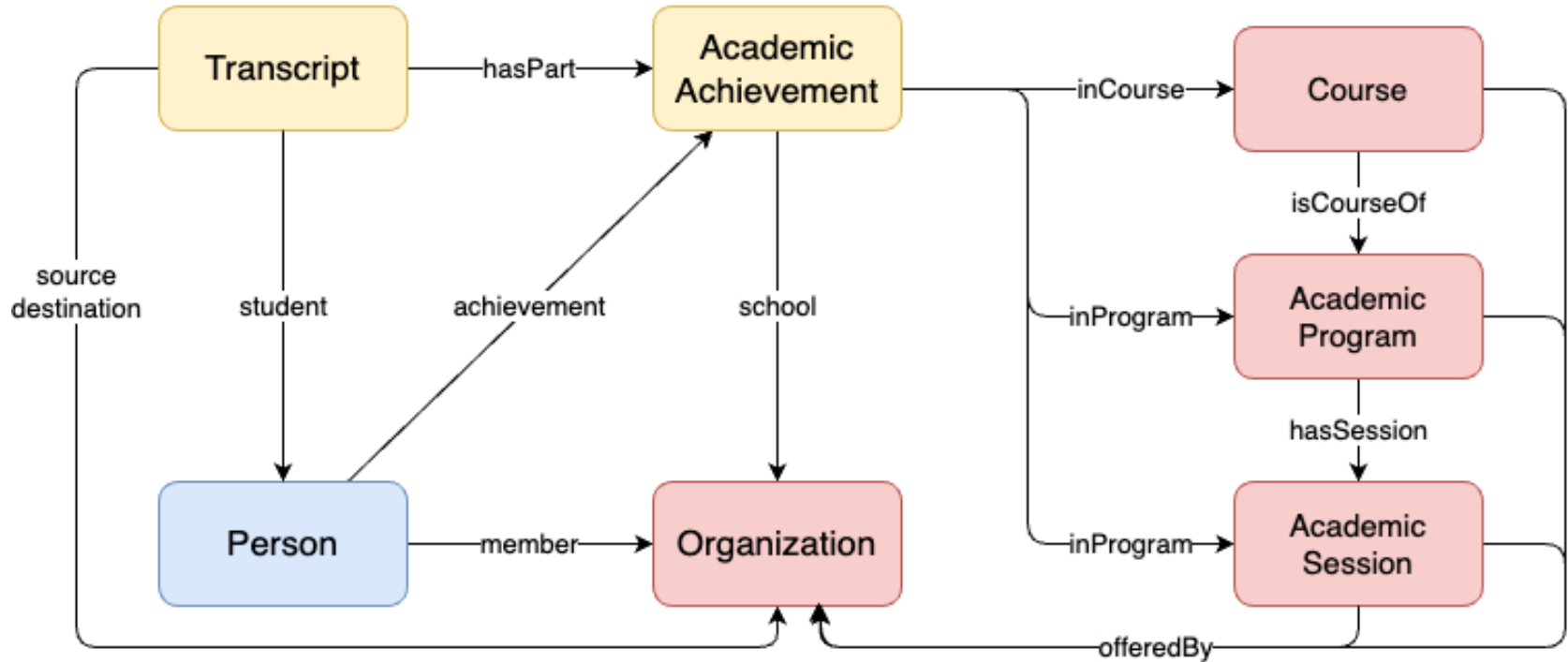
- RDF - Resource Description Framework
- Triple-form linguistic construct
- Subject - Predicate - Object
 - “Transcript XYZ” - student - “John Smith”
 - “John Smith” - member - “Institution X”
- JSON-LD
 - Serialization of RDF
 - Extension of JSON
- Very different design process from JSON
 - JSON is a data structure
 - JSON-LD captures data but also semantically references resources in linked ontologies

Focus

- Near term - Data Exchange
- Longer term - Transcript in a learner's lifelong educational record
 - Verifiable Credentials

PESC JSON-LD Transcript

Model in development, names of things may change.





Who we are, where we've been and
where we're heading, eh!

About CanPESC

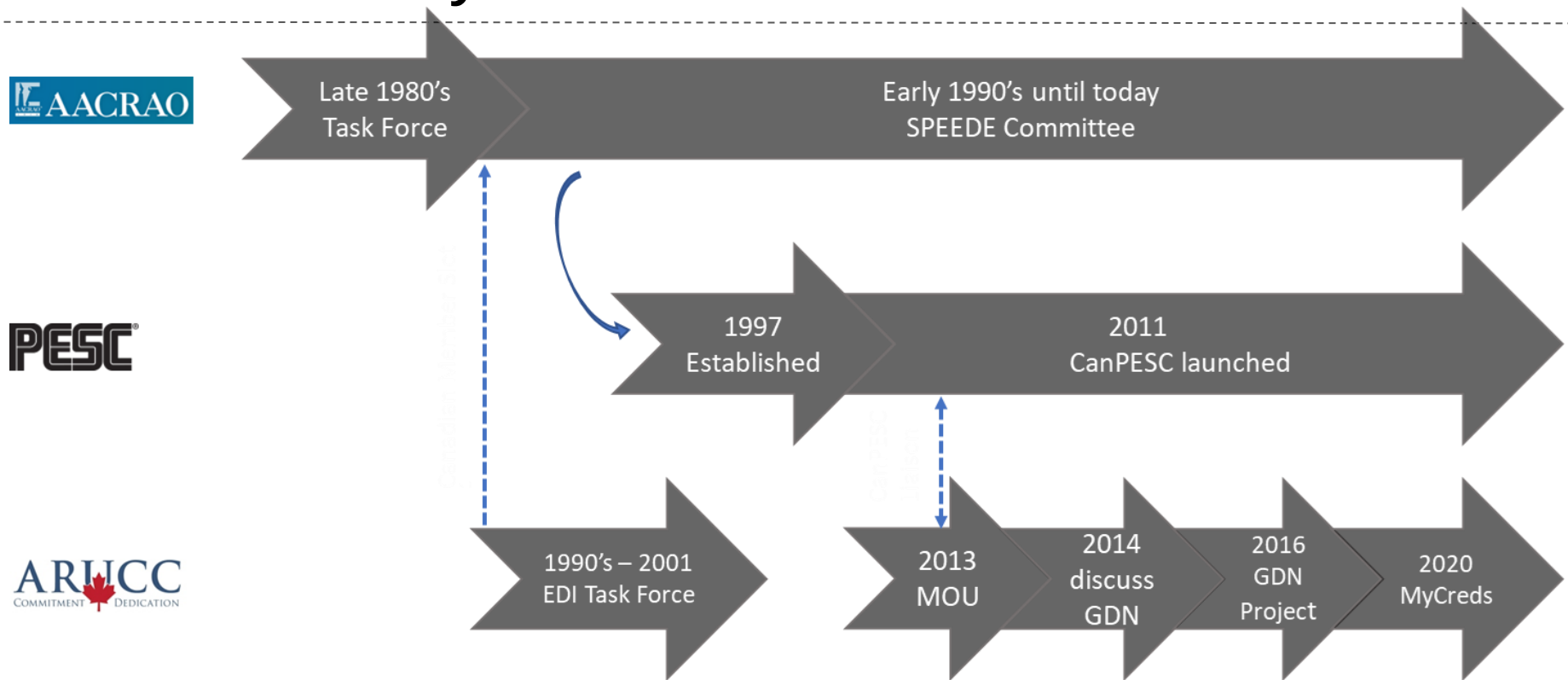
- ❖ Canadian PESC User Group

<https://www.pesc.org/canadian-pesc-user-group-1.html>

- ❖ Open, volunteer PESC user group

- Members from Canadian PSIs, hubs, government, vendors
- Discuss, promote, coordinate and liaise between [PESC](#) and [ARUCC](#)
- Ensure PESC's mission and deliverables, including approved standards, supports and incorporates the needs and interests of Canadian stakeholders

A brief history of CanPESC



Recent initiatives and accomplishments

- ❖ Standards of Practice: “Tip Sheet” ([v1.0](#))
- ❖ Common Digital Layout (CDL): Operational - both PSI and HS!
 - [White paper](#)
 - Tool/methodology, technical resources ([GitHub](#))
- ❖ GEO Code: ~66% PSI and ~50% HS in Canada are codified!

An aside: Communication of information changes – or, does it?

Then ...



Now ...



Acknowledgement: Sheetal Patel, Stanford

Future directions

- ❖ CDL: French labels/headings for printed fields
- ❖ Standards Upgrade Pathway: White Paper
- ❖ GEO Code: Additional HS and PSI types

QUESTIONS??

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