

# **NSIP Vendor Forum**

EduTech 2018

# Agenda

- Welcome & Introductions
- Learning Services Architecture Roadmap Update
- AU Data Model
- Australian Government Data Collections
- Privacy
- NAPLAN Data

# Learning Services Architecture Update

# The Learning Services Architecture 2018 Roadmap

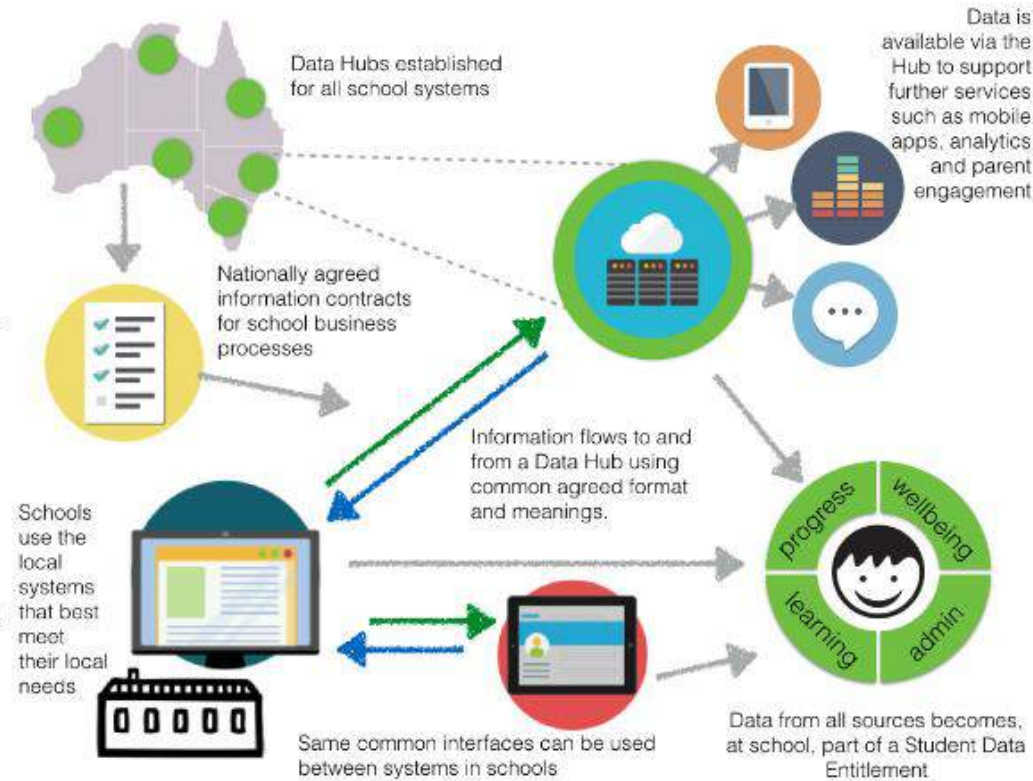
All models of learning improvement need a foundation of accurate, comparable and consistent data.

The LSA is a nationally aligned set of IT practices designed to ensure that critical information about students is available when and where required.

Schools benefit strategically from the creation of portfolios of student information that accompany the learner throughout their education.

Schools benefit tactically from choice of solutions in the marketplace, knowing that critical student data can be shared accurately and securely between systems and organisations.

## Better Data for Better Outcomes



## information contracts

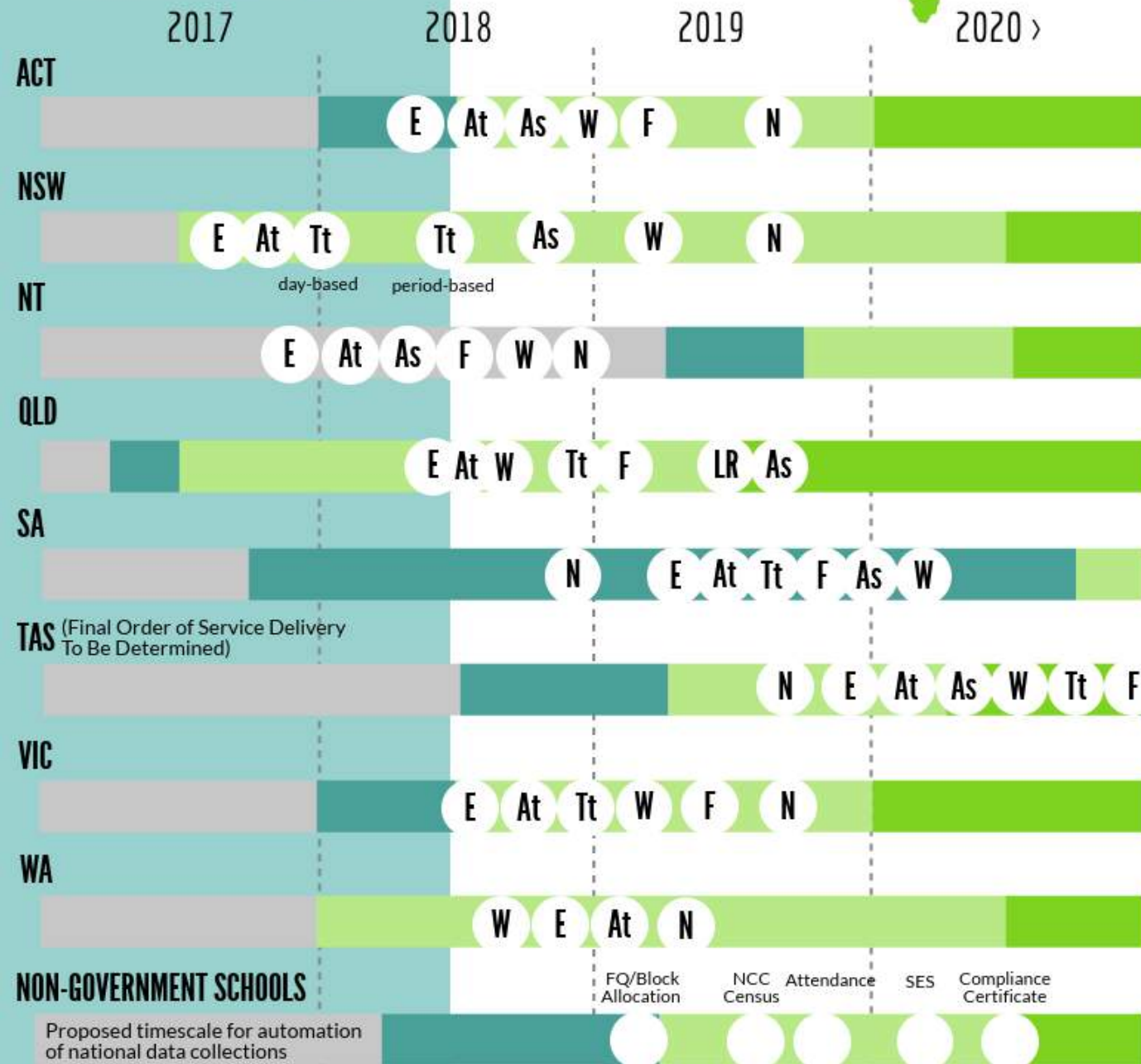
- E** **Enrolment**  
Foundational data about a student: Who they are, what class they are in, who teaches them what, significant relationships, identity information
- At** **Attendance**  
Capturing the roll for classes and whole schools. Used in school, school system and national reporting. Attendance is a lead indicator for early diagnostics of issues that may be affecting student progress
- As** **Assessment**  
Data about how a student is progressing. Multiple sources of formative and summative data that allow better understanding of student progress. Needs to carry curriculum context when appropriate, but be flexible enough to capture ad-hoc and experimental outcomes.
- N** **NAPLAN**  
Registration of students for NAPLAN Online. Rich results data from NAPLAN online: complex adaptive test data, single nationally consistent dataset.
- W** **Wellbeing**  
Events & outcomes in the social aspects of a student's learning, including: records of behaviour, pastoral care records, records of participation and extra-curricular activities and achievements.
- Tt** **Timetable**  
The foundational dataset for understanding the processes of a running school: What is being taught, where, by which teachers and to which students, critical for resource planning and allocation
- F** **Finance**  
Secure, consistent exchange & management of: Purchase Orders, Invoices, Payments and General Ledger transactions.
- LR** **Learning Resources**  
Data from and about third-party learning tools that students & teachers use.



The Learning Services Architecture is supported by all States and Territories and roll-out is underway.

Indicative timescales as at June 2018.  
Roadmap is updated by NSIP if timelines change visit [www.nsip.edu.au](http://www.nsip.edu.au) for updates

timescales



Foundation	Transition	Operation	Elaboration
Needs assessments, business case, requirements gathering, procurement and architecture provisioning. All of the necessary pre-steps to implement LSA-aligned systems.	Core legacy systems are migrated to standards compliant replacements. Key systems interactions & data feeds are aligned to standards. This prepares for migration to full Data Hub offering.	Data Hubs provide and manage information contract based exchanges, unified interface for all 3rd-party integration. Some jurisdictions are able to move directly to Operation.	With Data Hubs in place an ongoing process of implementing more information-contract exchanges in response to user and system needs.

# AU Data Model

# NSIP Update – SIF AU Data Model Update



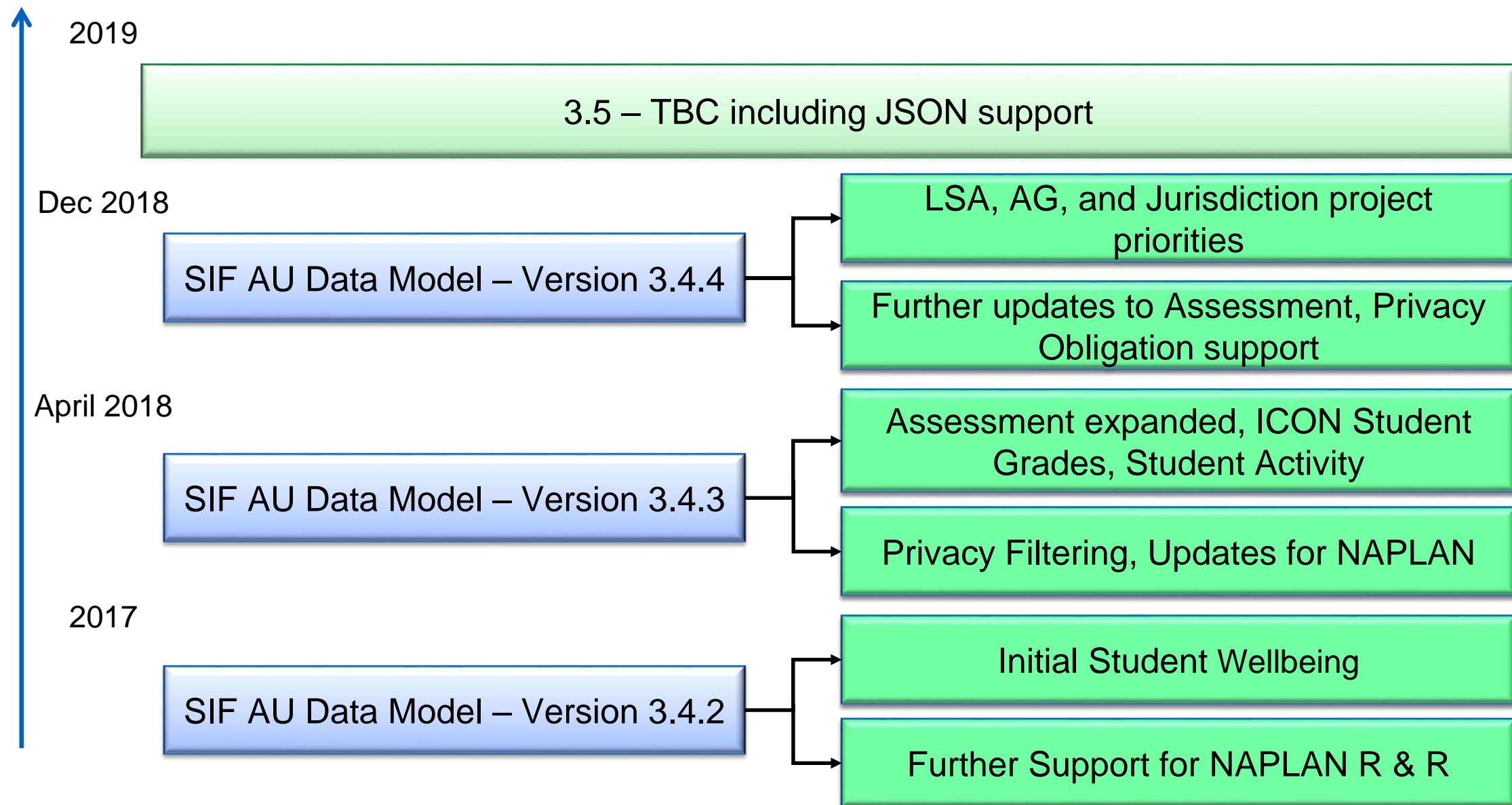






# Draft Release Schedule 18/19

## Namespace remains 3.4 until 3.5 release

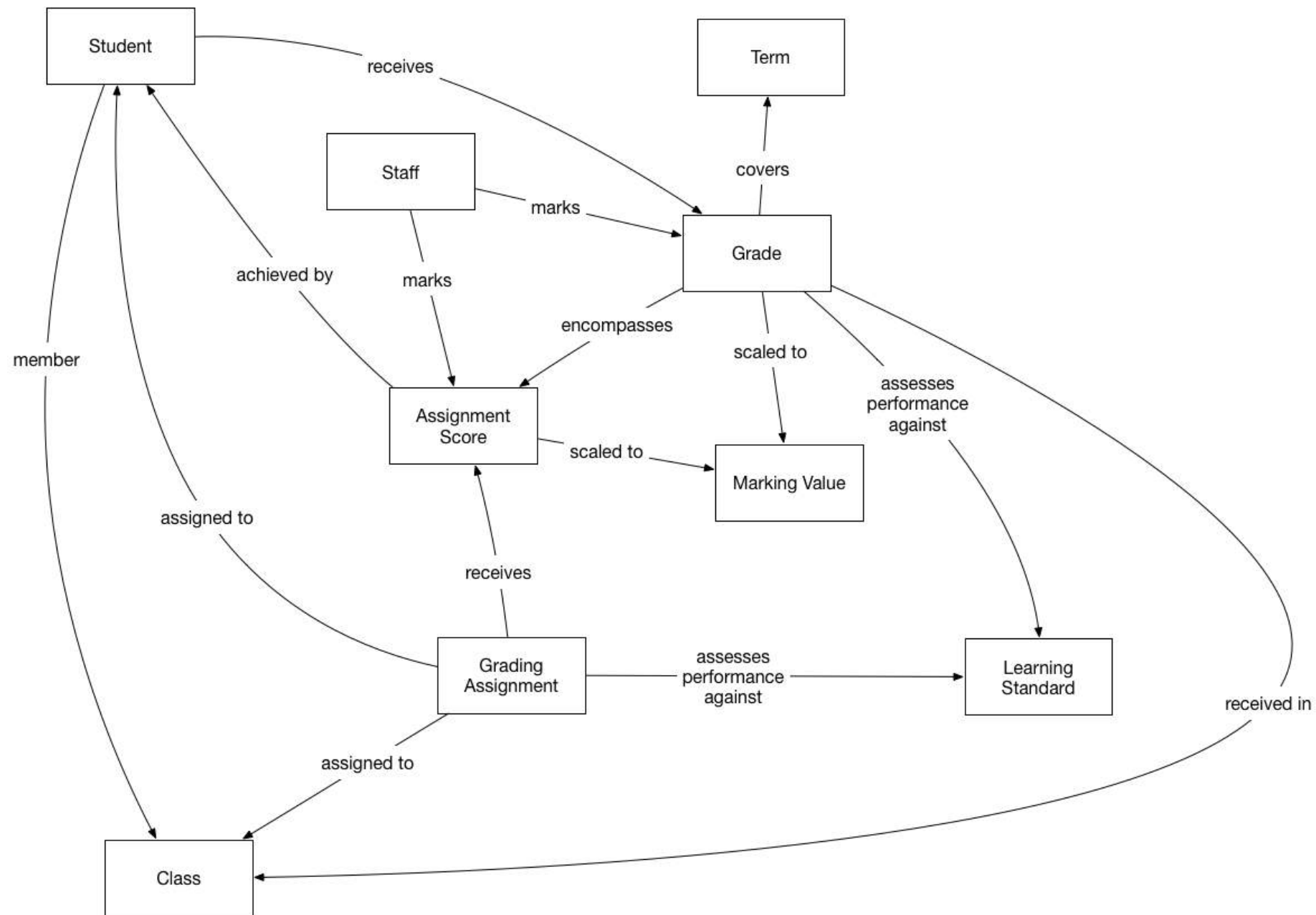


## NSIP Update – SIF AU Data Model

# Data Model Updates 3.4.3

- Released March 2018
- Gradebook Assessment
- Privacy Ratings at Object Level
- NAPLAN Results

# Gradebook Assessment 3.4.3



- Conceptual Model

# Assessment Update

- Gradebook Assessment  
<http://specification.sifassociation.org/Implementation/AU/3.4.3/background/GradeBookAssessment%203.4.3.pdf>
- Assessment documents from workshops and feedback  
[https://github.com/nsip/sif34\\_assessment](https://github.com/nsip/sif34_assessment) (including NZ Achievement documents)
- Further workshops to be held to work through Use Cases
- Further consultations to be held on 'formative assessment'
- Draft Specification to be developed post reviews



Figure 3.2.11-1. StudentSchoolEnrollment

Element/Attribute	Char	Primary Rating	Description	Type
StudentSchoolEnrollment		High	<p>This object defines information related to a student's enrollment. StudentSchoolEnrollment instances must not span multiple school years.</p> <p>Note there is only one current home enrollment at a time per student. Only one instance of the StudentSchoolEnrollment object must exist for a given student with MembershipType=01 (Home School) and TimeFrame=C (Current) for the time interval between EntryDate and ExitDate, inclusive.</p> <p>A StudentSchoolEnrollment object should be re-published when the TimeFrame attribute changes, regardless of when the data entry is done. This is in addition to the practice of publishing the object at the time the data changes in the corresponding application.</p> <p>When the object is re-published, it must contain all the data in the object that is supported by the publisher.</p>	
RefId	M	Low	The ID (GUID) that uniquely identifies a particular enrollment.	RefIdType
StudentPersonRefId	M	Low	The ID (GUID) of the student to whom this information is linked.	IdRefType
SchoolInfoRefId	M	Low	The ID (GUID) of the school to which this enrollment applies.	IdRefType
MembershipType	M	Low	The type of this enrollment as it relates to the school identified in SchoolInfoRefId.	MCodesSetSchoolEnrollmentTypeType
LocalId	O	Low	The locally-assigned identifier for this student enrollment.	LocalId
TimeFrame	M	Low	The timeframe of the enrollment based on the SIF_Data of last publication. For events, it is determined as of the date the event is generated. For requests and responses, it is calculated based on the date of the request.	MCodesSetEnrollmentTimeFrameType

## NSIP Update – SIF AU Data Model

# Data Model Updates 3.4.4

- Release scheduled for Dec. 2018
- Assessment - Enhanced
- AGDC – Collection Reporting Objects
- Privacy Obligations
- JSON Support

# JSON Support

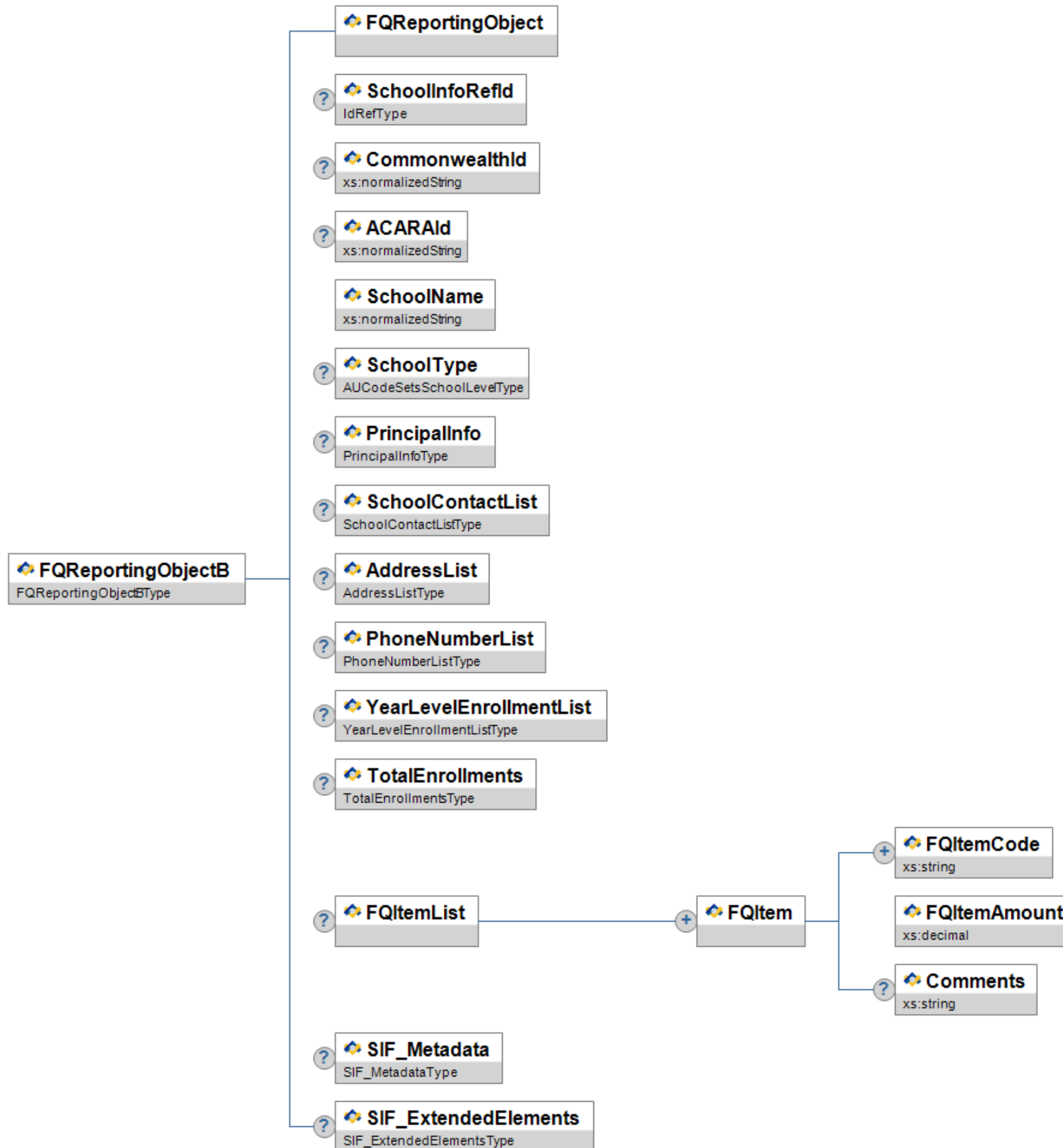
- A4L Community is work with PESC
- PESC – Post-secondary Electronic Standards Council
- A Task force has been formed between PESC and A4L
- Remit is to “mature JSON usage in open standards”  
<https://www.a4l.org/news/386775/A4L-Community--PESC-join-forces-to-mature-JSON-usage-in-open-standards.htm>
- Intent is do adopt representations into the SIF Data Model

# FQ Reporting Object

- Objects being developed to support AG Collections
- First candidate is FQ Reporting Object

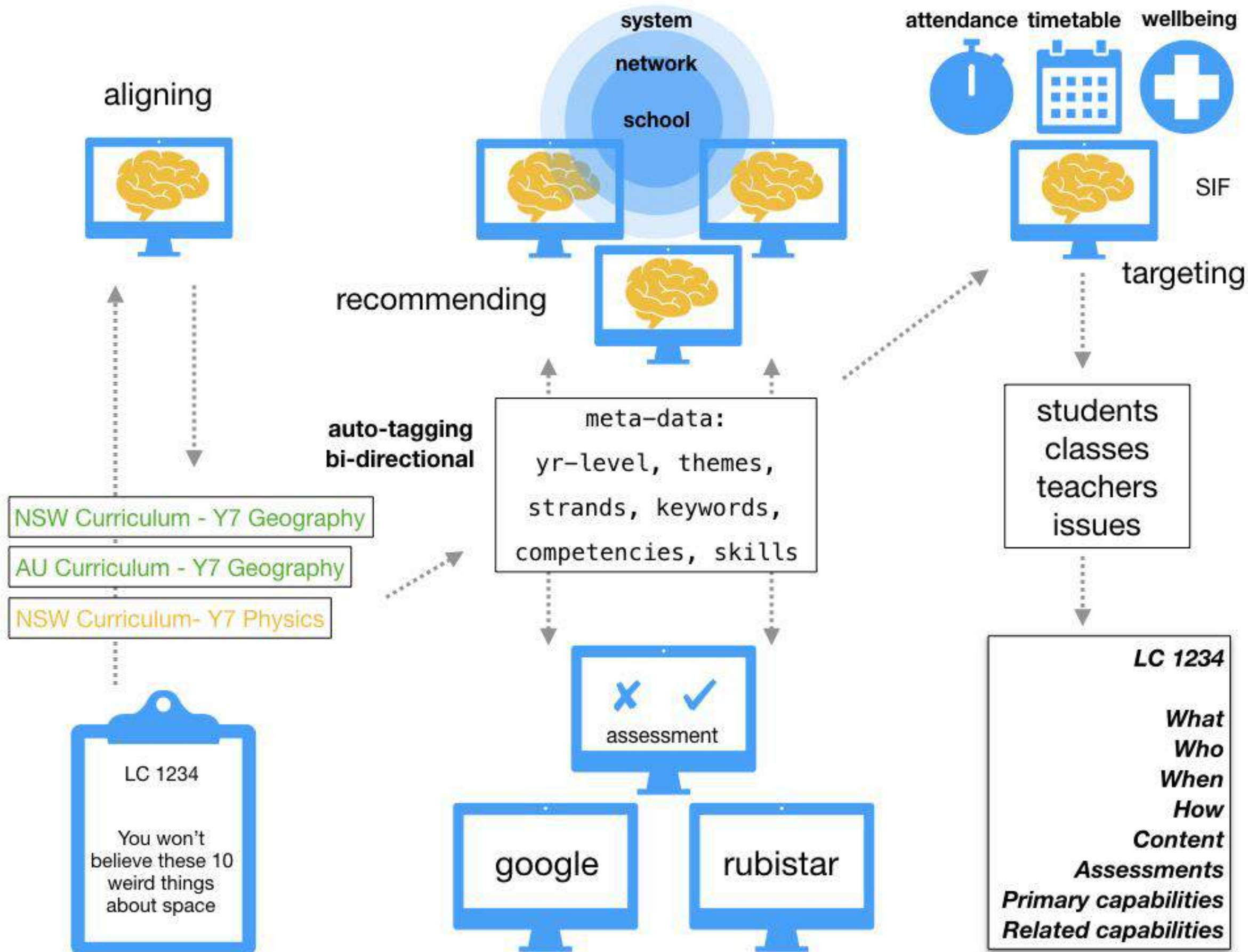


# FQ



# Australian Government Data Collections

# NSW Digital Classroom



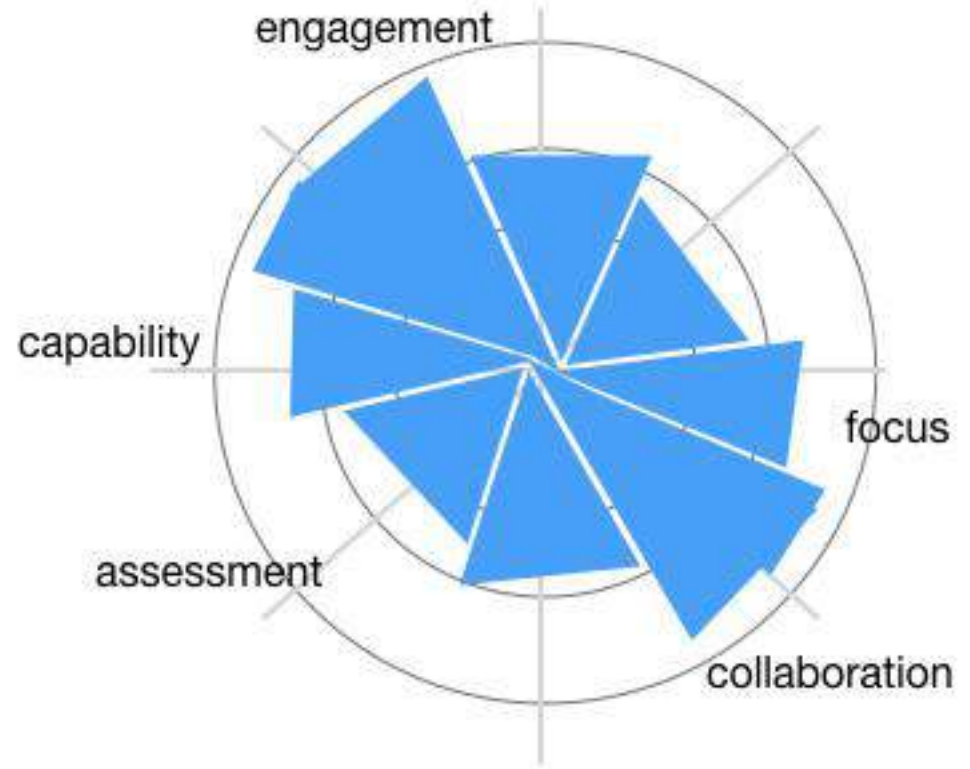
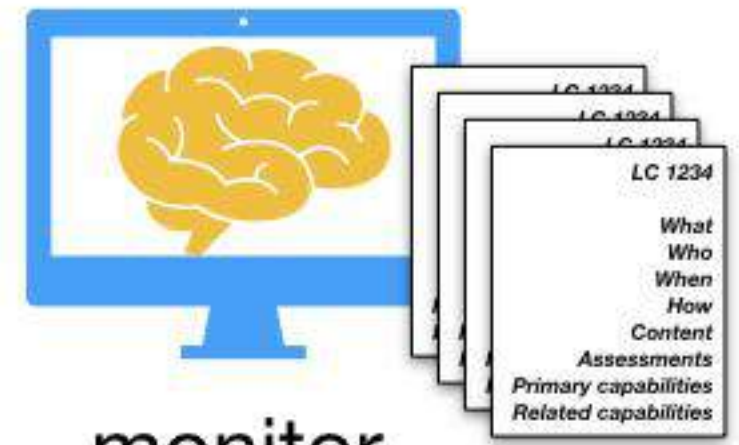


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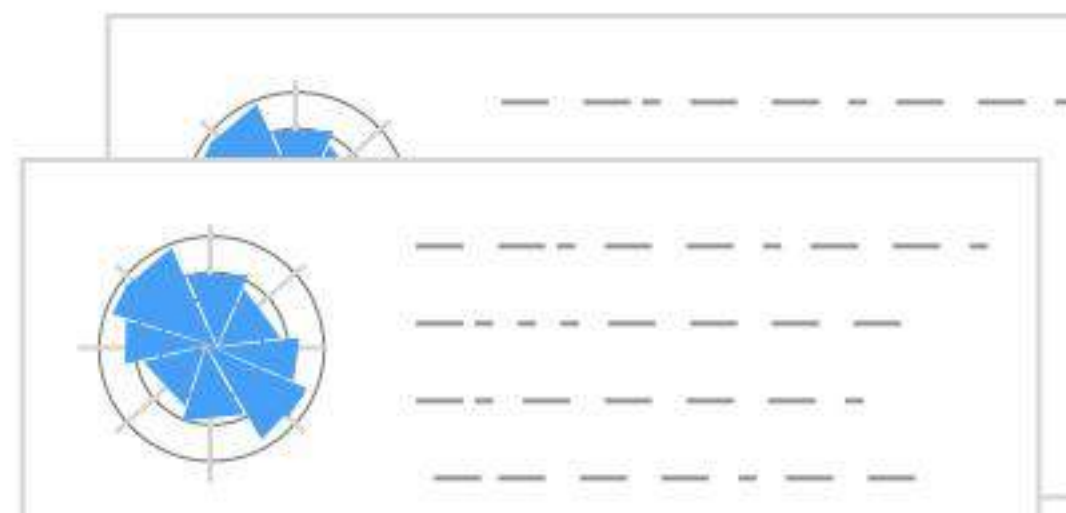
What  
Who  
When  
How  
Content  
Assessments  
Primary capabilities  
Related capabilities

### xAPI learning profile

- xapi: I completed the task
- xapi: I read the content
- xapi: I worked with X
- xapi: I enjoyed this task
- xapi: I gave this grade
- xapi: rubric level 5
- xapi: I saw this change



report / share



# Privacy

# Contract for Australian Privacy in Education (CAPE)

- Establish a standardised privacy contract
- Used between vendors and Education Departments, Sector Authorities, Schools
- Covers exchanges, processing and storage of broad range of education data (inc. personal, sensitive and health information)
- Focus on Commonwealth APPs, QLD & VIC



# Benefits for vendors

- Standardised privacy agreement with core obligations
- Reduced time/effort/cost in reviewing lengthy agreements between States and Private sector
- Lowers the barrier to entry
- Includes default privacy policy and data storage policy
- Sits alongside procurement agreement
- Provides foundation for additional value-add services eg contract/vendor publication & search, badging



# Global Education Privacy Standard

**School / Department of Education**  
(Data Controller)

**Vendor**  
(Data Processor)

Written Contract  
Provision 1 (Clause)  
Provision 2 (Clause)

**Example provision**  
*Article IV, Section 5. Disposition of Data. Provider shall dispose or delete all Student Data obtained under the Service Agreement when it is no longer needed for the purpose for which it was obtained.*

Privacy Object (POD)  
Obligation 1 (Clause)  
Obligation 2 (Clause)  
(XML)

**Example 'Deletion' obligation**  
*Data deleted when no longer required? Y/N  
Data retention duration (days)  
Data deletion standard – [www.a4l.geps.deletev1](http://www.a4l.geps.deletev1)*

Other standards

NIST

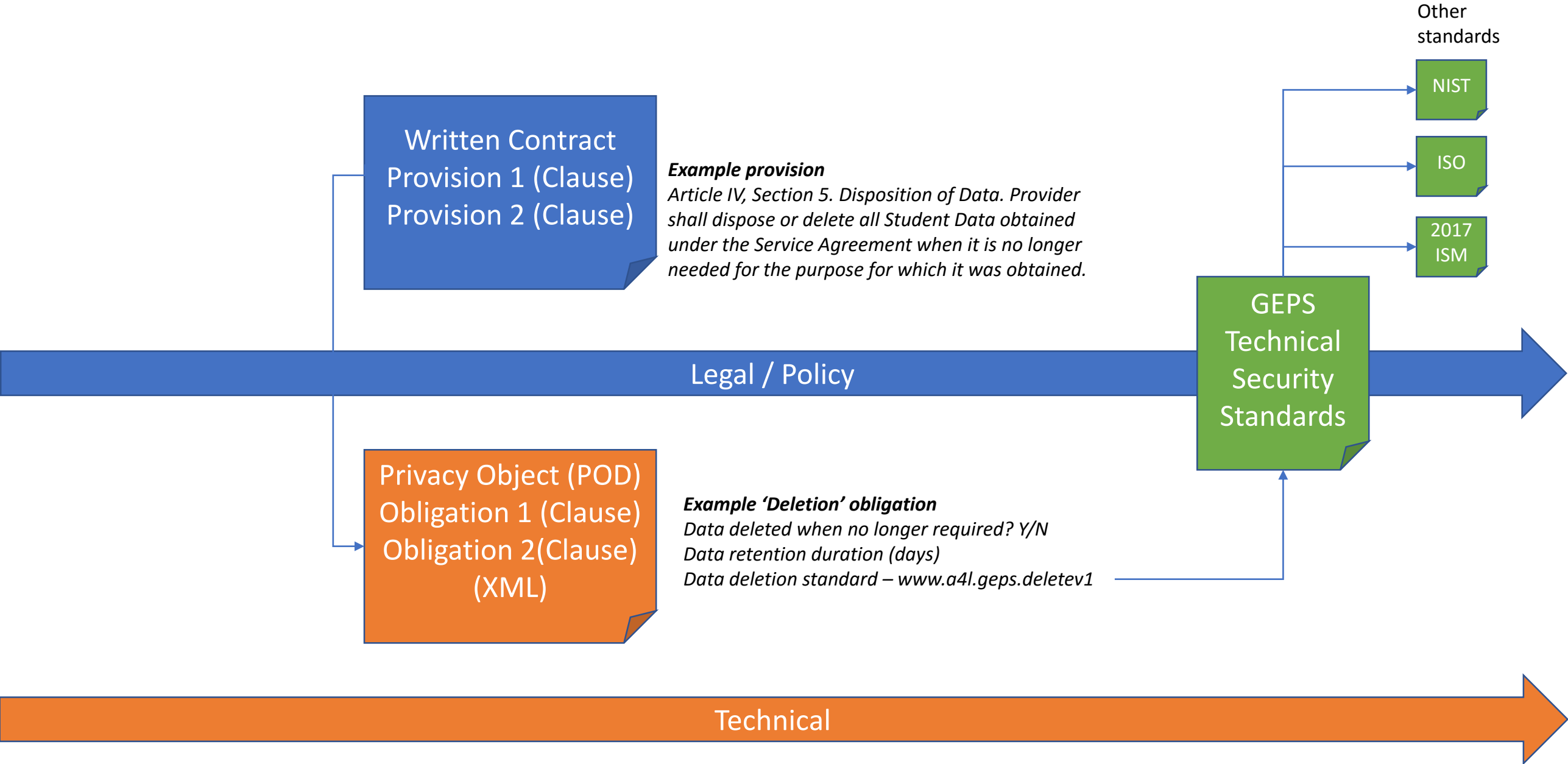
ISO

2017 ISM

GEPS  
Technical  
Security  
Standards

Legal / Policy

Technical



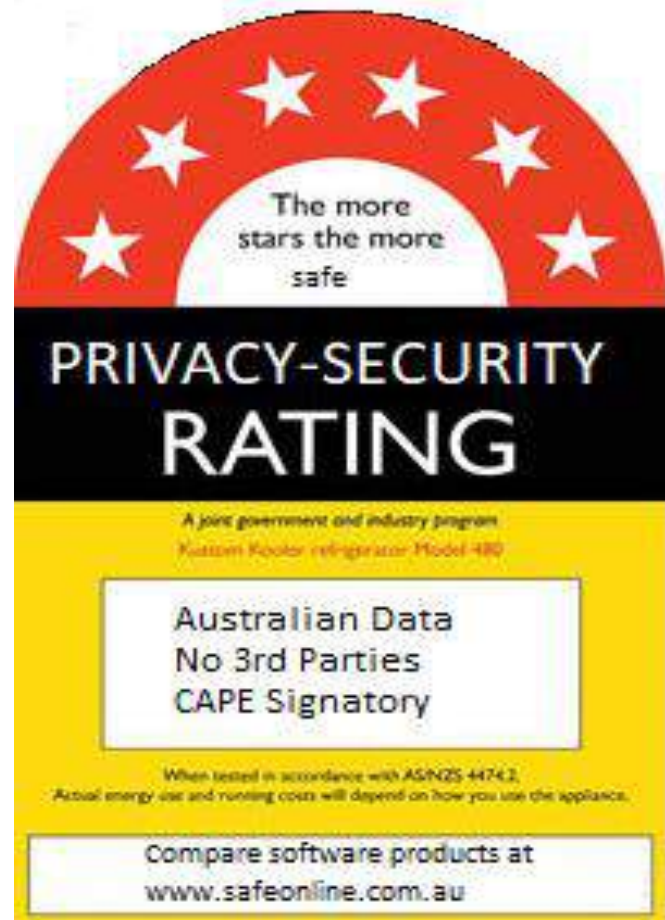
# Vendor checklist

Jurisdiction	Vendor security criteria approach	Sample obtained	Notes
NSW	Checklist assessment	Y	Self-assessment, detailed data fields required and risk rated
VIC	Privacy and security assessment	Pending	Central team reviews data and uses context to determine privacy tier and subsequent security controls. Schools use cases are also assessed.
QLD	Checklist assessment	Y	Detailed data set required to be provided.
SA	Checklist assessment	Y	High level data fields required. Requires data to be classified as per SA information classification
WA	Checklist assessment	Y	Detailed data set required to be provided.
TAS	Risk based	Y	Business risk assessment, technical risk assessment, advice on determining security classification
NT	Risk based	Y	Privacy, security, value for money assessment
ACT	Via contract / procurement documentation	N	Typical security and privacy related questions are covered in ACT's standard Contract and Procurement process and staff guidelines



# Security Good Practices

- Development of Information Security Good Practices Guide
- Foster credibility, trust and confidence with internal and external school stakeholders
- In conjunction with Active Online, focus on Non-Government schools sector
- ISO27001 aligned
- Next: establish working group



## Badging

- Interest in developing a privacy/safety badging system for applications in the Australian education sector
- Other approaches (eg nutrition) developed collaboratively with industry
- Rolled out over 5 years, voluntary take-up
- To be explored further with CAPE Reference groups

# NAPLAN Online Data



# Registration, Results & Reporting

- **Registration data**
  - Spec: <https://github.com/nsip/registration-data-set>
  - API available
- **Results Reporting data**
  - Available to TAAs now
  - Marking of writing underway
  - ISRs / SSSRs (for schools) coming soon
  - API
    - Undergoing internal testing
    - Likely available for 2019
    - Usage/access discussions to occur at OAWG
    - Spec to be produced
- Datasets subject to end user review/survey, minor changes for 2019

# Partner Updates

National  
Schools  
Interoperability  
Program

**NSIP**

- NSIP on LinkedIn, join our group!
- <http://www.nsip.edu.au>