

A4L AU



Locale Update

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3.5 million school students
9500 schools
2/3 public schools
1/3 Catholic or independent

MISSION

We enable education authorities and ICT product suppliers to develop an ecosystem of trusted IT systems that engage learners and provide educators, parents and policy makers with the information and tools they need to support improved outcomes for all Australian students.

OBJECTIVES

Delivering an effective digital learning ecosystem

- Choice and innovation
- Access and integrity

Providing evidence that leads to success

- Successful learner
- Effective teacher
- Evidence base

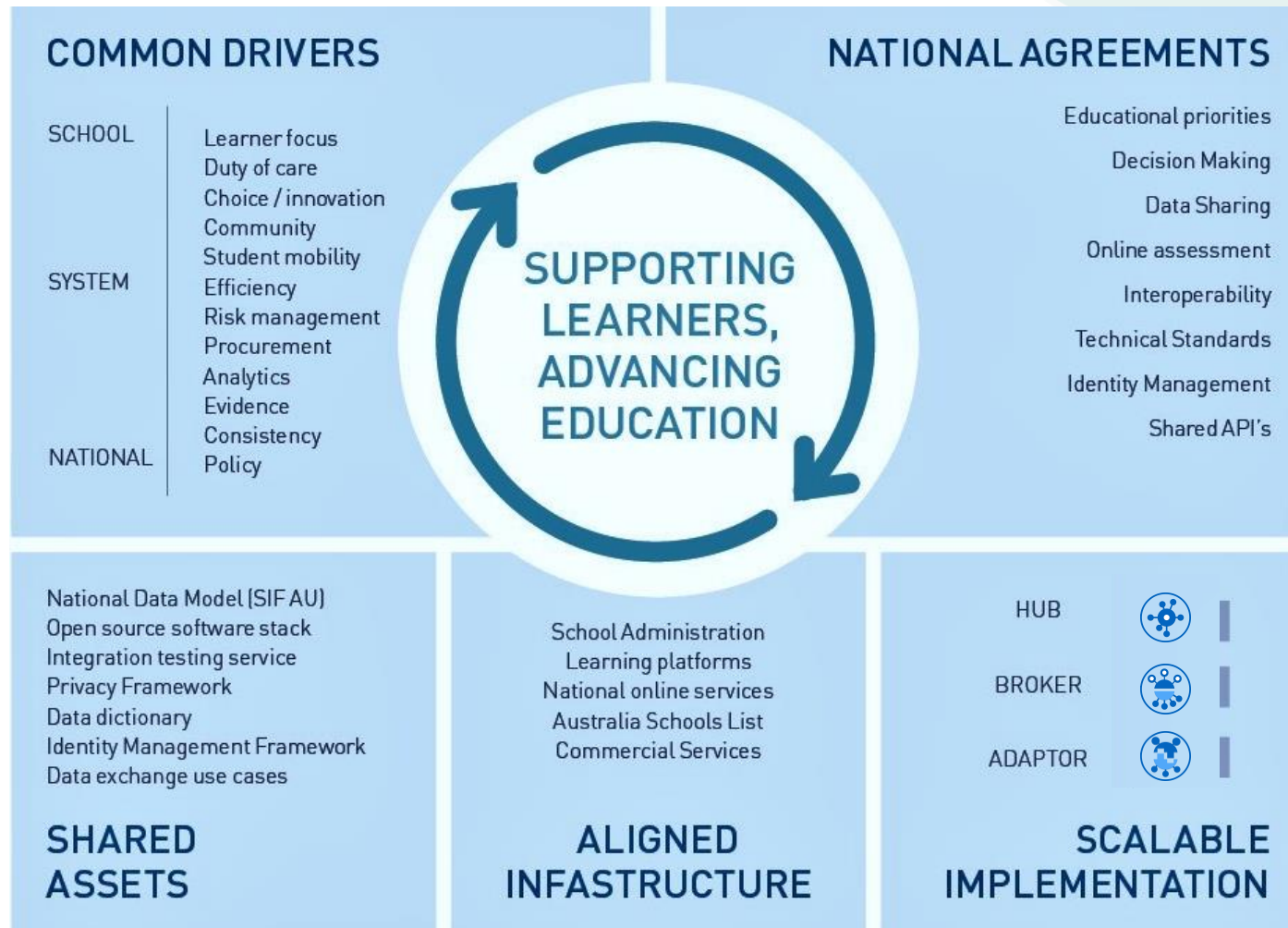
Enabling privacy and trust

- Personal
- Organisational

A4L-AU Progress

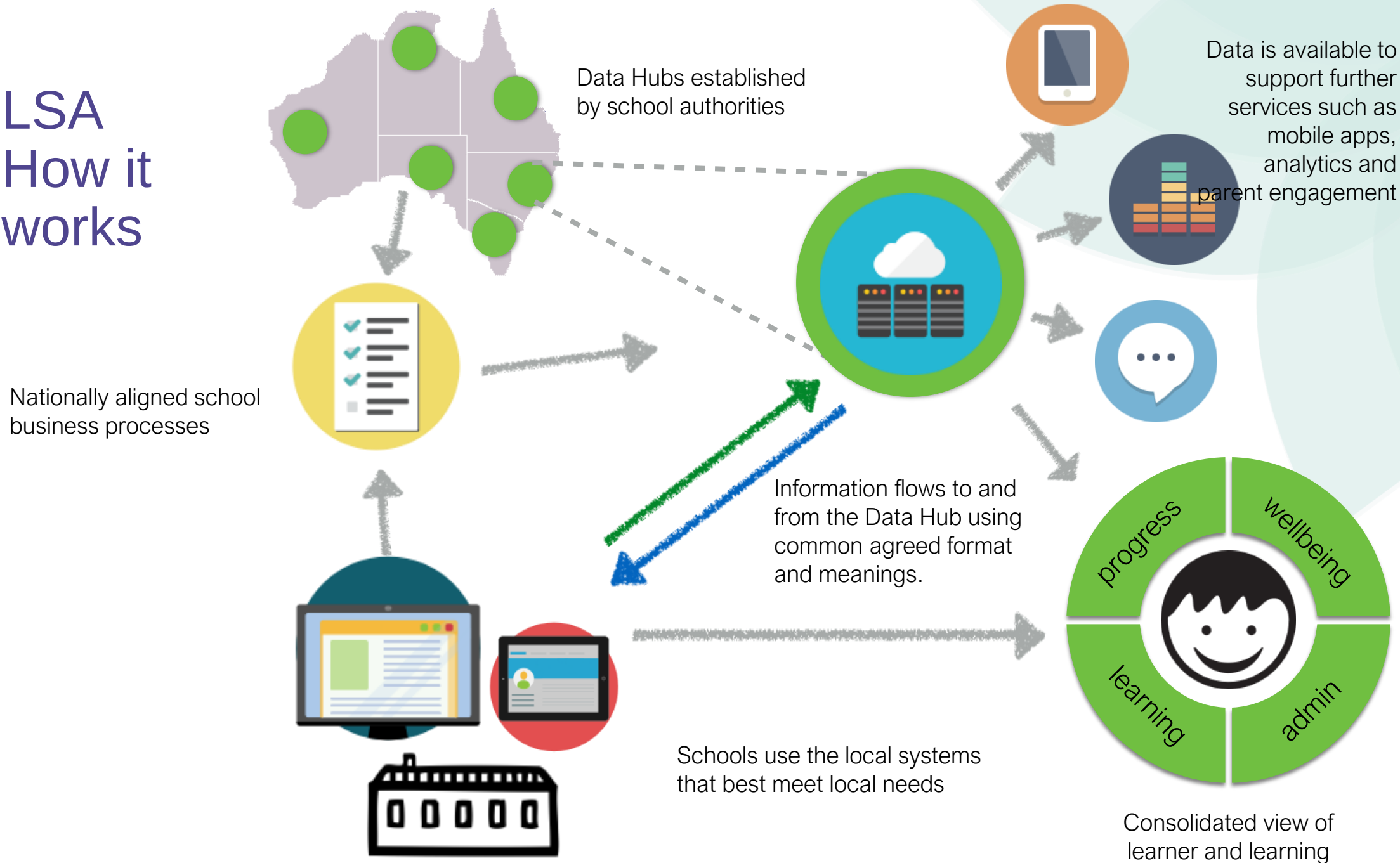
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Review of Timetable data model	In development.	No direct impact. New style of a container object may be of interest to others
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Learning Services Architecture



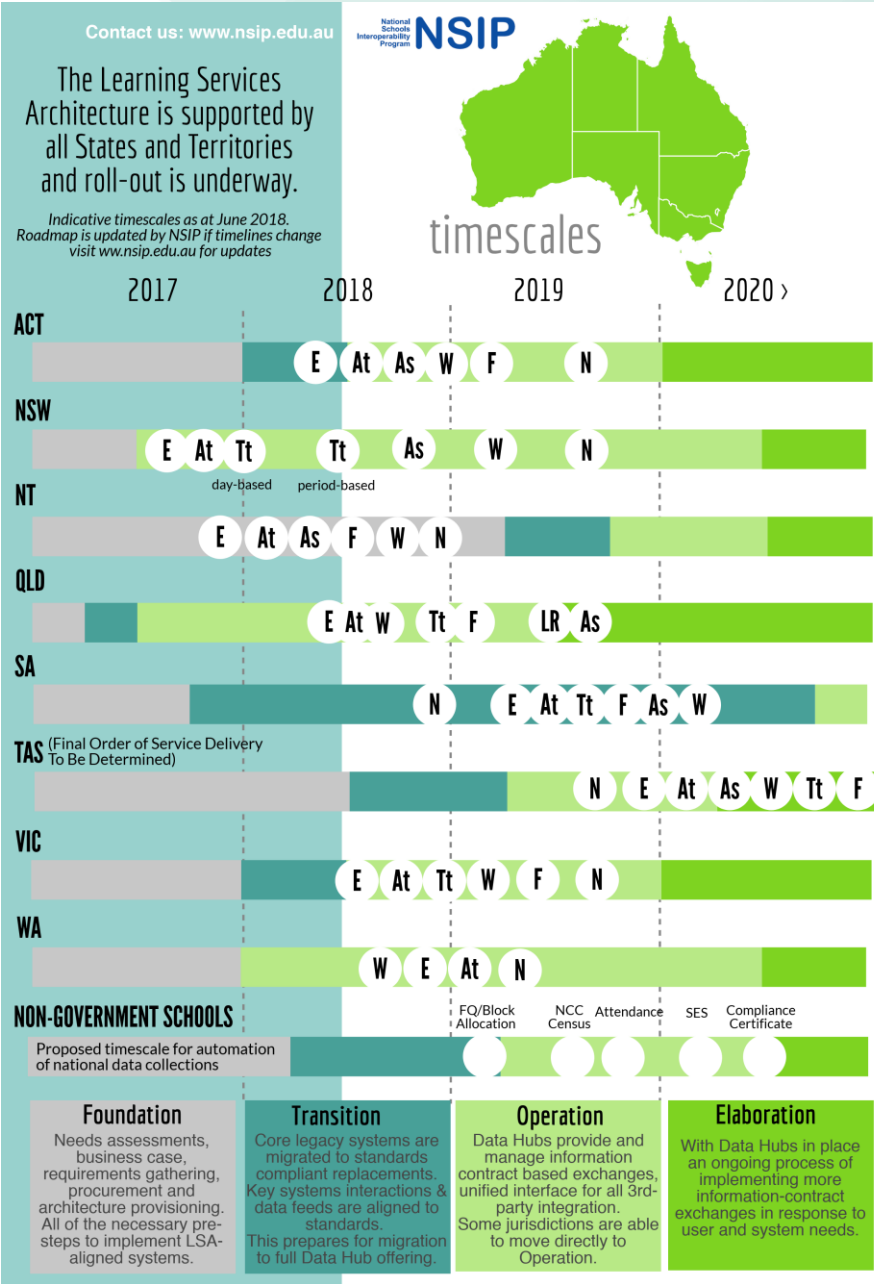
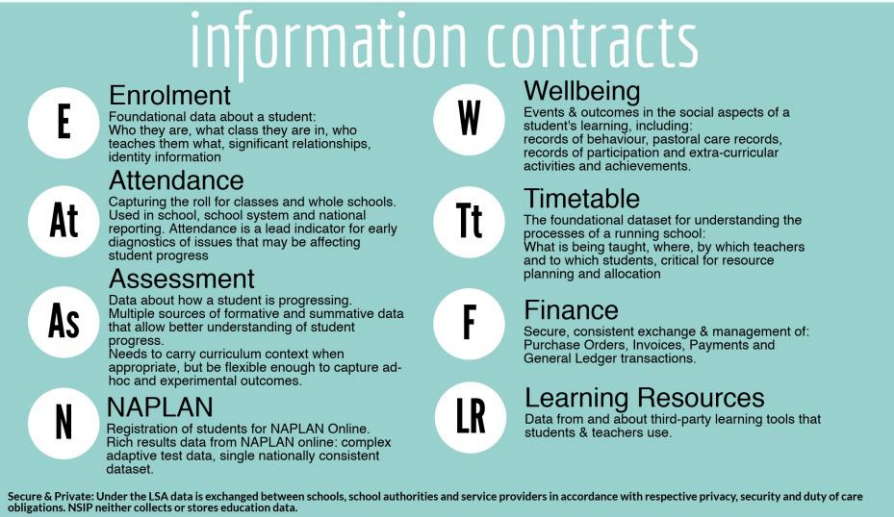
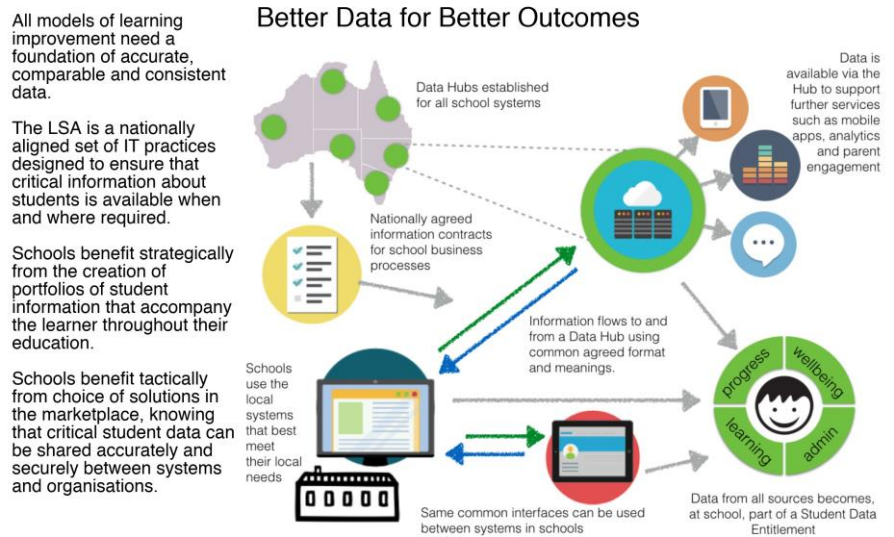
LSA

How it works



Interoperability Roadmap

The Learning Services Architecture 2018 Roadmap



Achievements

- School level choice, enterprise strength information and risk management
- Effective Market engagement:
 - standards development
 - requirements and expectations
 - transparency and consistency
 - mid to long term plans – local/national
 - Implementation tools, services and support
- Integration of national assessment platform
- National compliance reporting
- National approach to managing privacy, security



National Assessments Online



Transition from State based delivery to use of a shared central platform

Local administration using a tenanted online environment

Standards based data definitions and data cycle

- Transparency
- mobilise large complex data set
- integrate with divergent local systems
- Support tools (NIAS2) and value add services

The screenshot displays the NAP online assessment interface. The top window shows 'Question 1 of 12' with a reading challenge text: 'In a reading challenge, four students recorded the number of each type of book they read.' Below this is a table:

	Type of book			
	Mystery	History	Adventure	Science fiction
Annie	3	0	0	3
Bill	2	1	0	4
Carrie				
Dan				

Below the table is a radio button selection for 'Which type of book' with options: Mystery, History, Adventure, and Science fiction (selected).

The bottom window shows 'Question 7 of 12' with a matching exercise: 'Match each shape to the correct number of vertices.' It displays four shapes (triangle, arrow, pentagon, rectangle) and three options: 5 vertices, 4 vertices, and 3 vertices. Lines connect the shapes to the options: triangle to 3 vertices, arrow to 4 vertices, pentagon to 5 vertices, and rectangle to 4 vertices.

National Priorities

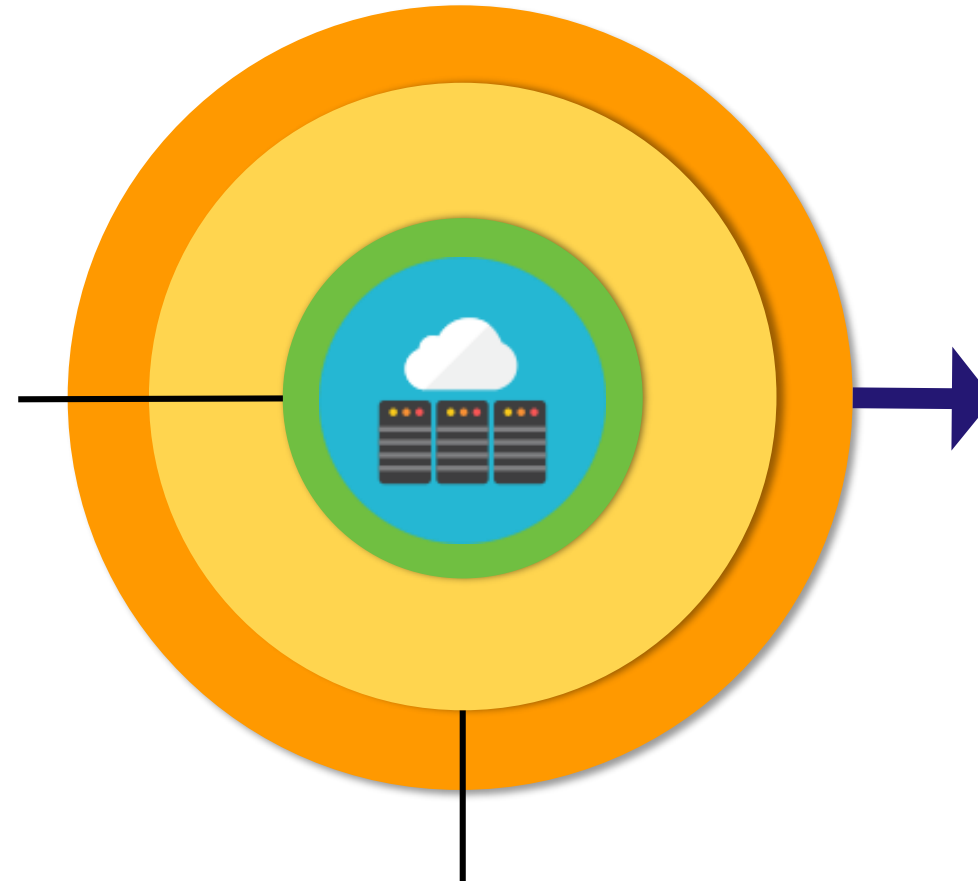
Deliver at least one year's growth in learning for every student every year

Equip every student to be a creative, connected and engaged learner in a rapidly changing world

Cultivate an adaptive, innovative and continuously improving education system



Learning Services
Architecture 1
Administration,
Wellbeing
Assessment
SIF



Learning Ecosystem
Learning
Assessment
Analytics
Agency Systems
Market Offerings
Software on-boarding
Market Place

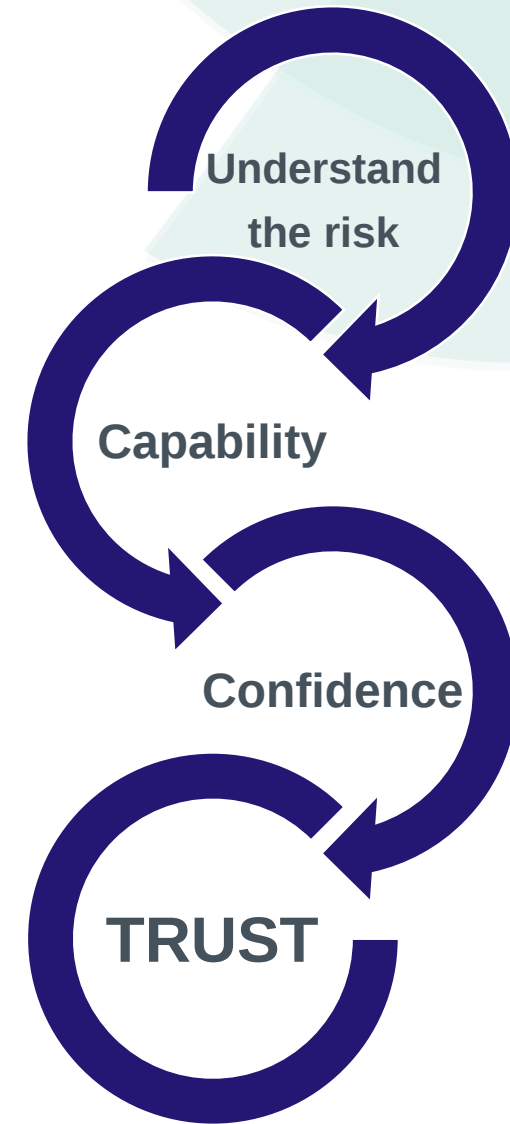


Learning Services Architecture 2.0
Experience, Progress
Mobility, Trust
Additional standards
Privacy on the wire
Multi-model data infrastructure

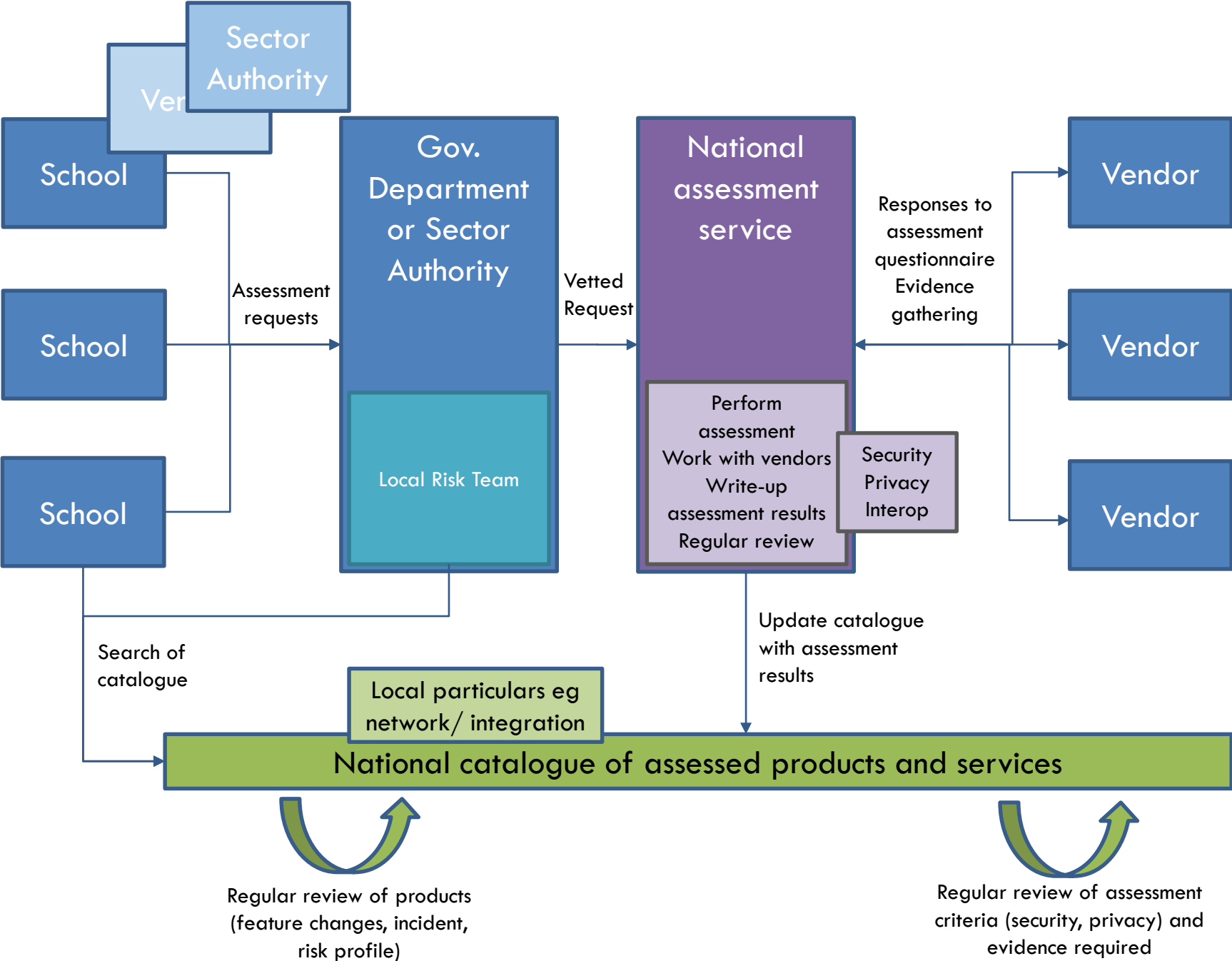


Delivering Trust

- Data travels – shared responsibility
- Student data entitlement
- Standards and data hubs
- Tenanted architecture
- Standardised contracting
- Software assessment service
- Privacy on the wire
- Proactive communication

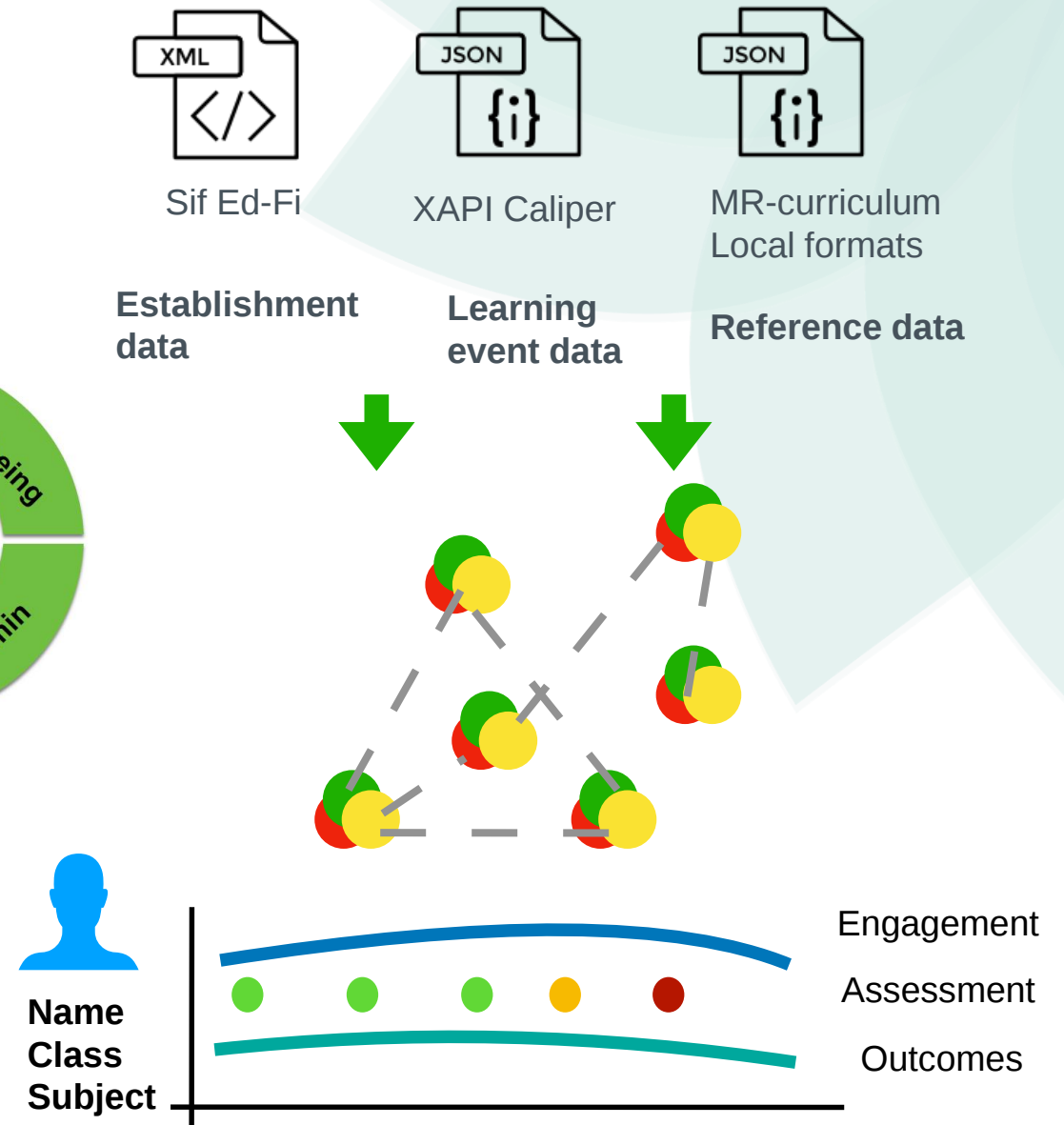


National Software Assessment Service



Missing piece of the puzzle

- Learning linked to curriculum and measurement frameworks
- Capture learning experience
- 360° view from diverse sources
- Evidence and insights
- Reduced teacher workload
- Transferrable data and skills
- Privacy – baked in



Multi-model Education Data Infrastructure

NIAS3

Distributed and Scalable

- From individual machine to intra-system network
- Available as sidecar component or system

Standards Agnostic

- Receives all structured formats json & xml;
- SIF, EdFi, Caliper, xAPI, xml, json.
- Learns new datasets from data submitted.

Trust

- End to end encryption
- Granular privacy controls

Data

- Generates access objects
- Focus on business queries
- Mix data-sets from inputs

share

encrypt & secure

apply org. privacy rules

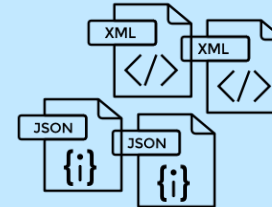
distribute / replicate - encrypted streams

capture

apply local privacy rules

decompose & encrypt

ingest structured data



apply

permissioned
context streams

polyglot storage

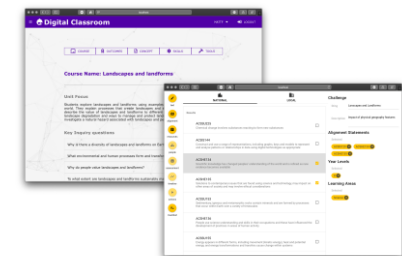
data query layer

business query layer

intra-system

system

school



Name
Class
Subject

Engagement
Assessment
Outcomes

A4L-AU Progress

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