

HESA update

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The changing information landscape







Data Landscape Steering Group

- Leadership and oversight of the landscape
- Standardisation, Rationalisation, Capabilities
- Based at HESA
- Balanced membership between supply and demand
- Good practice model for governing data collections
- Understanding burden and value



Data in the HERB

- Opens the way for designation of HESA as the statutory data collection body for the sector
- Cements position re data collection activities
- HESA gains powers in its own right
- Duty to reduce burden on HE providers – and report on this

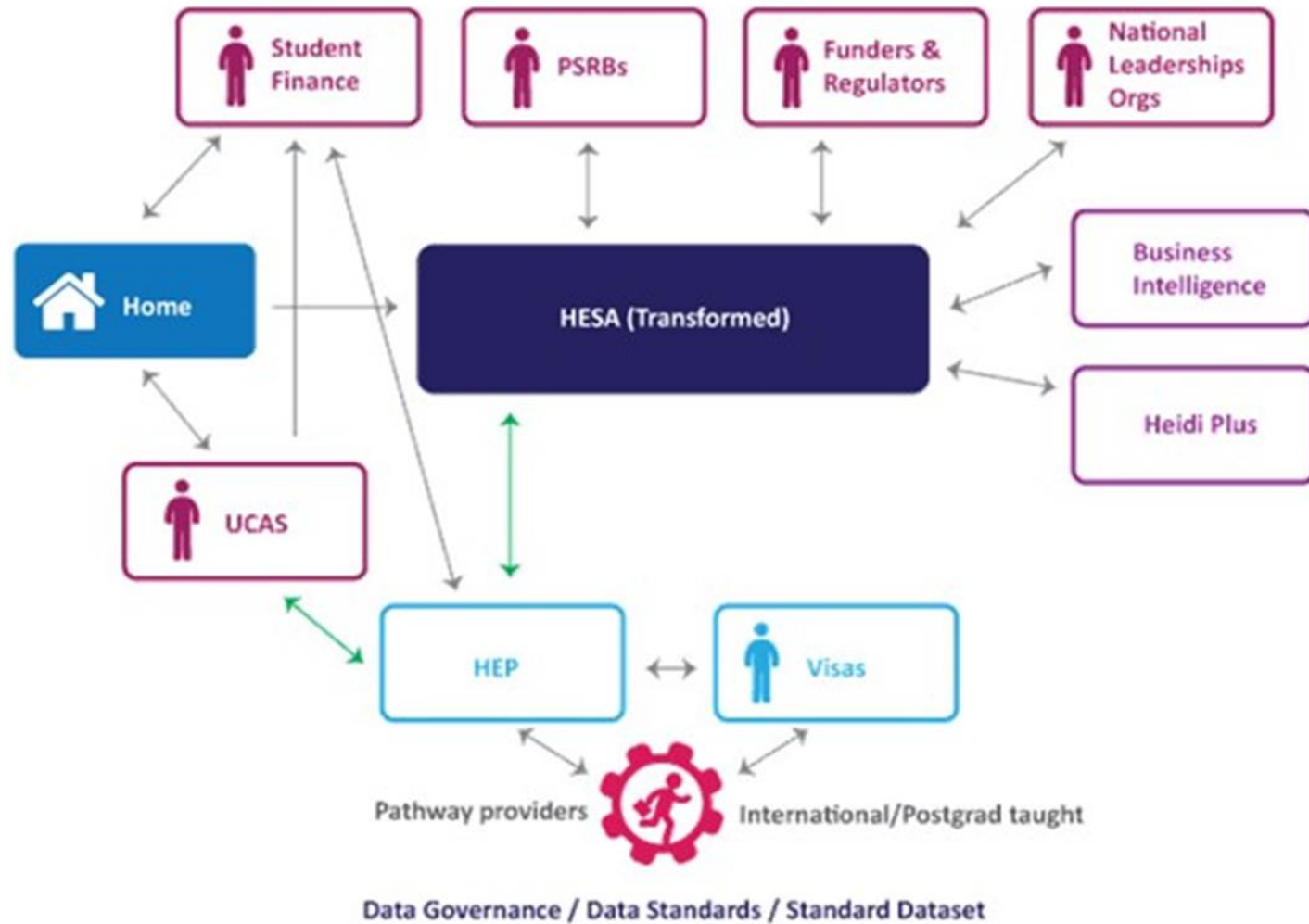


Common data language

- Logical data model
- Data dictionary
- HECoS
- Unique Learner Number?
- Governance through DLSG

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Rationalisation





Data Capability: A call to action

January 2016

Data capability : A call to action

- The way data is perceived is not the way it is managed
- Data is held, managed and used in silos
- Data is not aligned to wider business processes
- Business intelligence is not supplied by trusted data
- Data governance is weak

Individual skills

- NESTA study into the demand for data skills
- Combination of four skills:

Business/domain knowledge

Software engineering

Analysis

Communication

HESA

Individual skills





Individual skills

- No recognised data profession
 - No defined skillset, qualifications, professional standards
 - No defined career path/development
 - No professional body / regulator
-
- Is this a challenge or an opportunity....?



Data capability

- System level – Oversight, leadership
- Organisation level – Governance, management
- Individual level – Skills, knowledge

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A decorative graphic consisting of a horizontal band of colored dots. The dots are arranged in a way that they appear to be falling or floating from the top of the band, creating a sense of movement. The colors of the dots include dark blue, light blue, green, and grey.

Data Futures Programme

A decorative graphic consisting of a horizontal band of colored dots. The dots are arranged in a way that they appear to be falling or floating from the top of the band, creating a sense of movement. The colors of the dots include dark blue, light blue, green, and grey.

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Programme Board



Cyngor Cyllido Addysg
Uwch Cymru
Higher Education Funding
Council for Wales



Data Futures Proposes



- HESA as a hub for data collection
- More agile data driven system
- New collection regime, but connected to existing data
- Fit for purpose governance

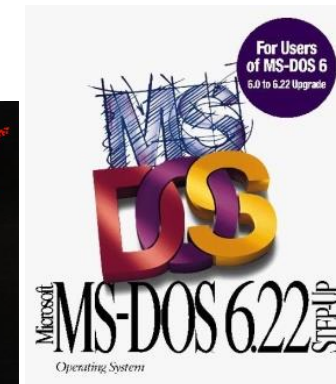
New collection process and data model, aligned with the business process and events at an Institution level

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Current process

- Single file, retrospective annual submission
- Institutions resubmitting around 30 times on average, poor data
- Method is fundamentally unchanged since 1994
- Cumbersome and very slow. Typically, student data is available 15 months after most students enrol.

MADE IN
1994



Step Change

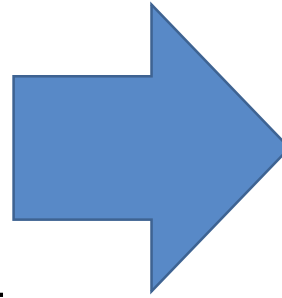
Retrospective annual submission

One large file

Institutions resubmitting c30 times

Fundamentally unchanged since 1994

Cumbersome and very slow.
Typically, student data is available
15 months after most students
enrol.



Regular near real-time submission

Small 'segments' of data as required

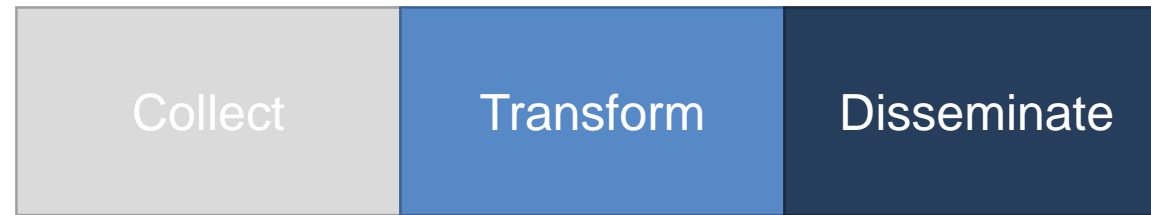
Evolving picture, fewer re-submissions

Fit for purpose for changing HE sector

Data available to customers rapidly,
in-year analysis of enriched data.

Better Data

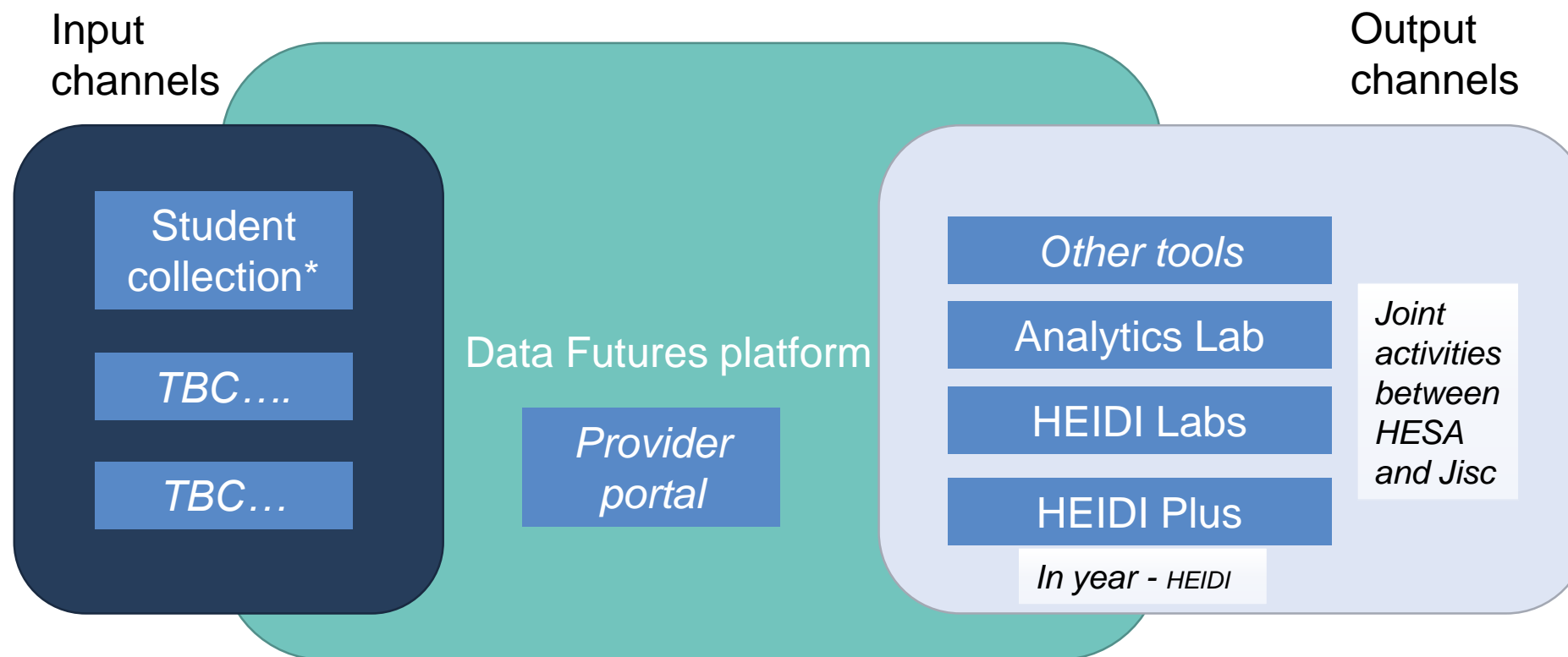
Data Futures



Data Provider Analytics Portal

- In-year enriched data
- Better, in-year QA
- Visual representation

Better Capability



*Current Scope (2019/20 academic year)

Student record

Alternative Provider (AP) Student record

Initial Teacher Training (ITT) in-year record

Programme Plan

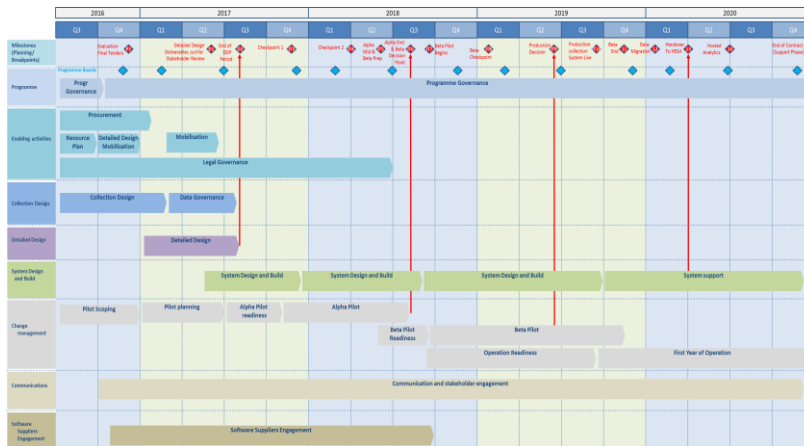


↑
17/18

↑
18/19

↑
19/20

Academic year



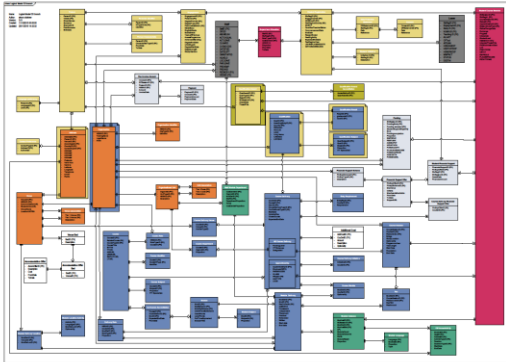
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A large, abstract graphic consisting of a dense field of small circles in various shades of blue, green, and grey. The circles are arranged in a way that creates a sense of depth and movement, with some circles appearing to float above others. The pattern is most dense at the top and gradually becomes sparser as it moves down the page.

System Design



Design comprises



Data



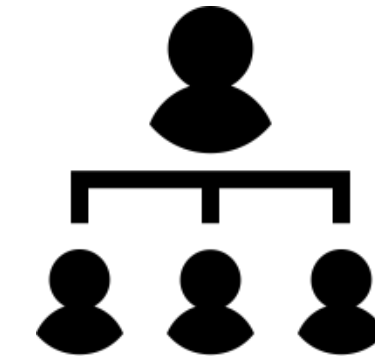
User Experience



Processes



Software



Governance



Data Collection Design Update

Sector is engaged – Feedback across a broad range of institutions

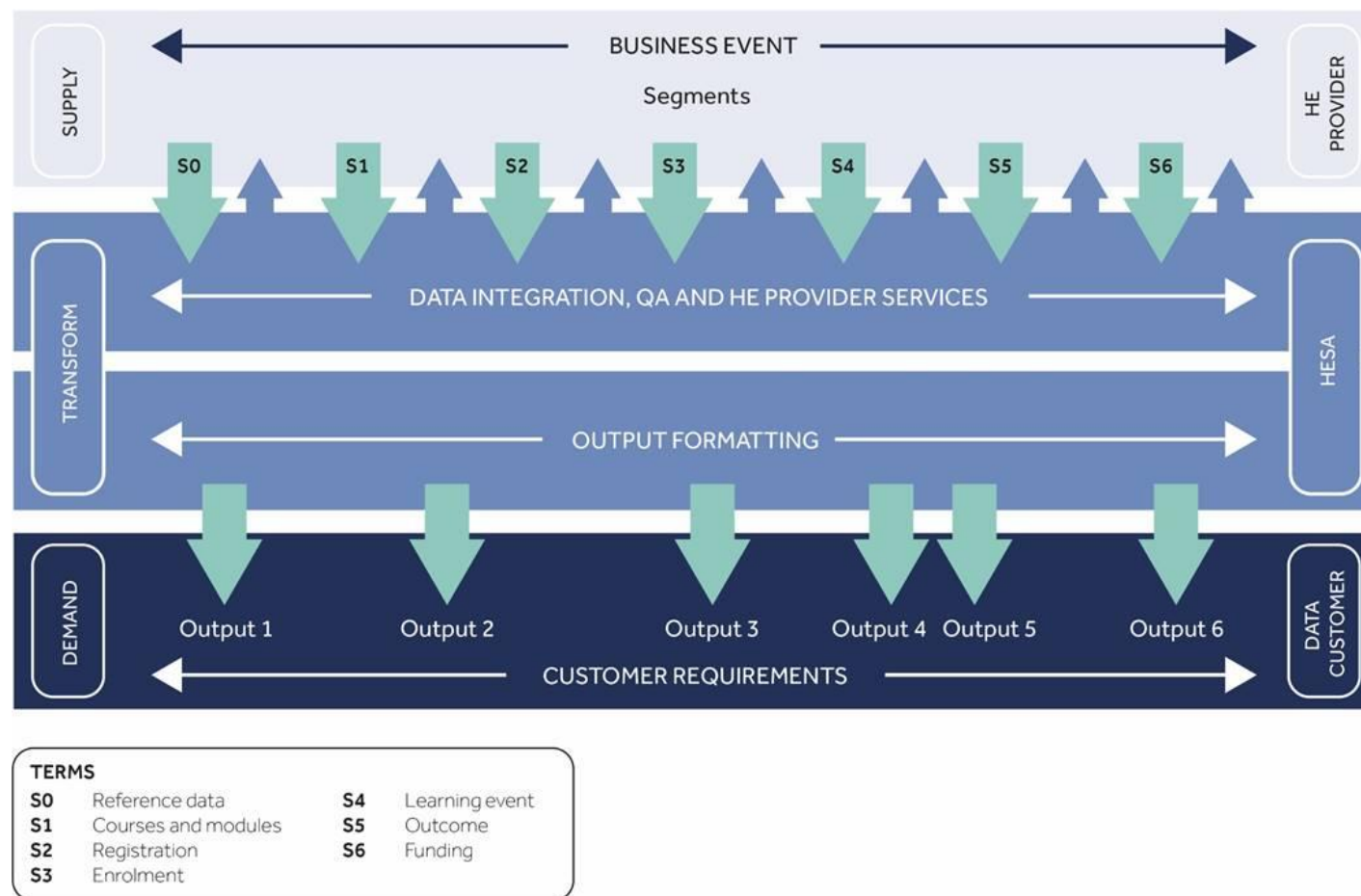
Consultation during January - Broadly understood and well received

V3 publication focus (9 February):

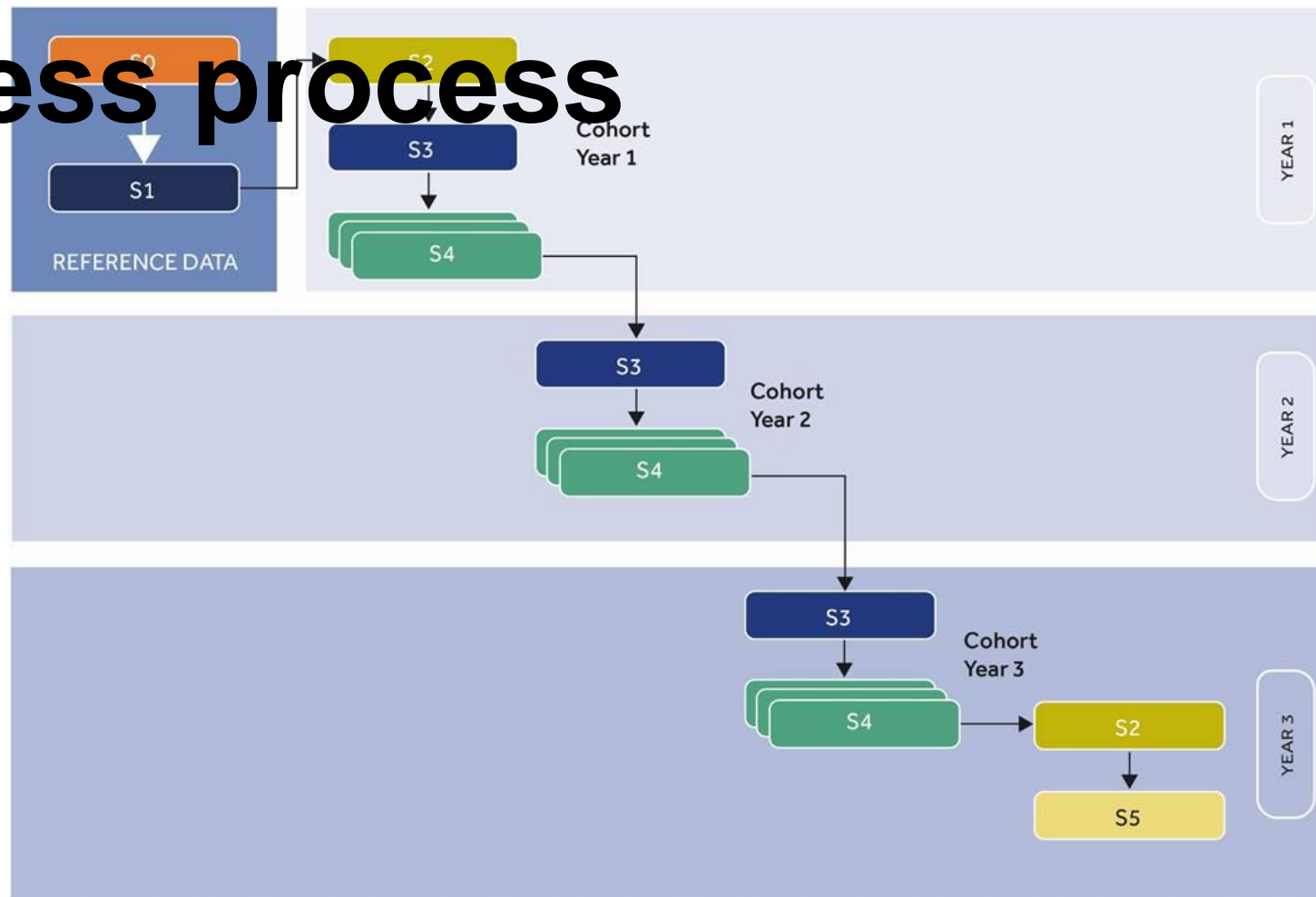
- Quality Assurance
- Dates for when data has to be submitted ('reference dates')

FE Data not covered at this stage

How will data be submitted?



Connecting collection to business process



Connecting collection to output

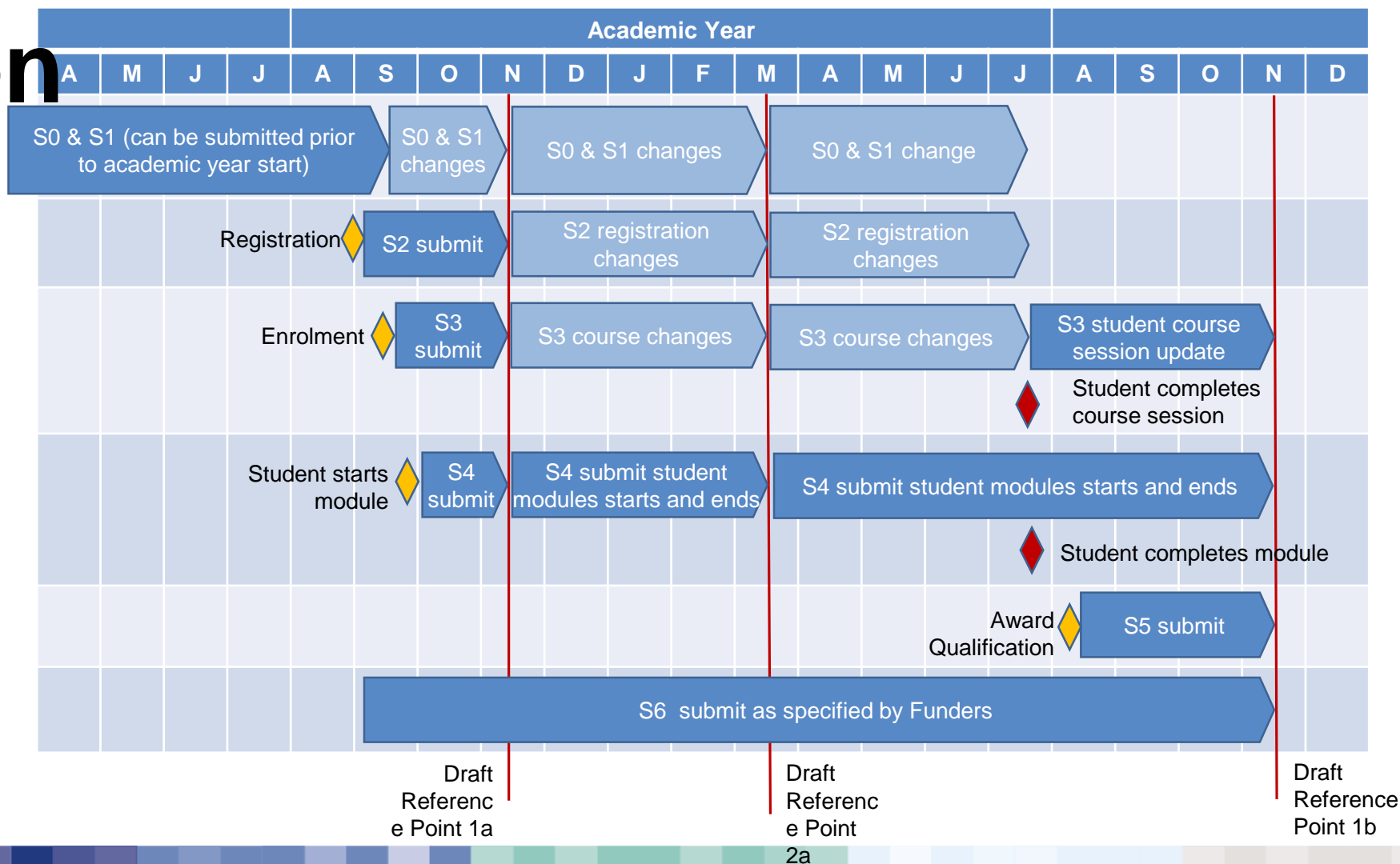
Output	Customer	Type	Frequency	S0	S1	S2	S3	S4	S5	S6
HESES	HEFCE	Funding	Annual							
Early access	SFC	Funding	Annual							
Early statistics	SFC	Funding	Annual							
HEAPES	HEFCE	Funding	Annual							
NSS population	Provider	MI	Annual							
PGR transfers	Provider	QA	Annual							
Entry routes	Provider	MI	Per insertion							
TRN allocation	NCTL	Transactional	Daily							
UNISTATS for providers	Provider	MI	Annual							
TRN monitoring	NCTL	Transactional	Daily							
Inclusion status	Provider	QA	Per insertion							
Census information	Provider	MI	Per insertion							
Cost centre analysis	Provider	QA	Annual							
Frequency counts	Provider	QA	Per insertion							
Continuity population	Provider	QA	Per insertion							
Validation reporting	Provider	QA	Per insertion							
Credibility report	Provider	QA	Per insertion							
DLHE population	Provider	MI	Annual							
Final statistics	SFC	Funding	Annual							
Data delivery	Many	Many	Annual							

	Targeted output		Segment required for output
	Current output		Segment potentially required for output

Reference points for

Scenario A – Student data journey for a student enrolling in the Autumn semester full time undergraduate

Key – All business events shown are indicative. The diagram shows the Draft Reference Points. Exception submissions are shown in lighter blue.



Feedback on collection design so far

A lack of skills and capability to support in-year

Not knowing where to start/who will be affected

Improving data quality extremely difficult

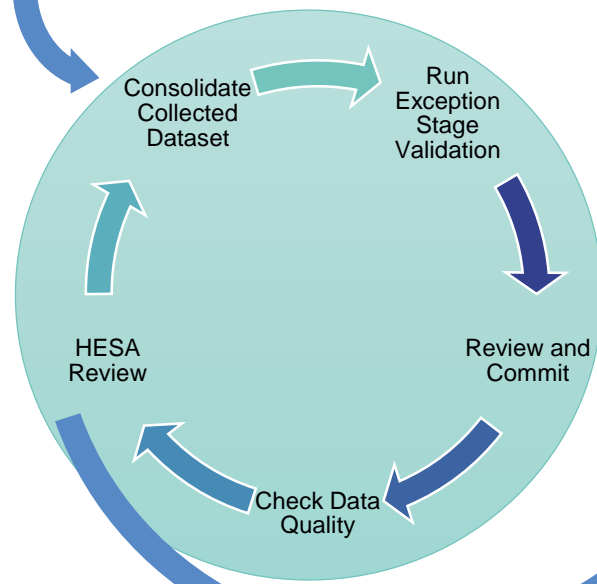
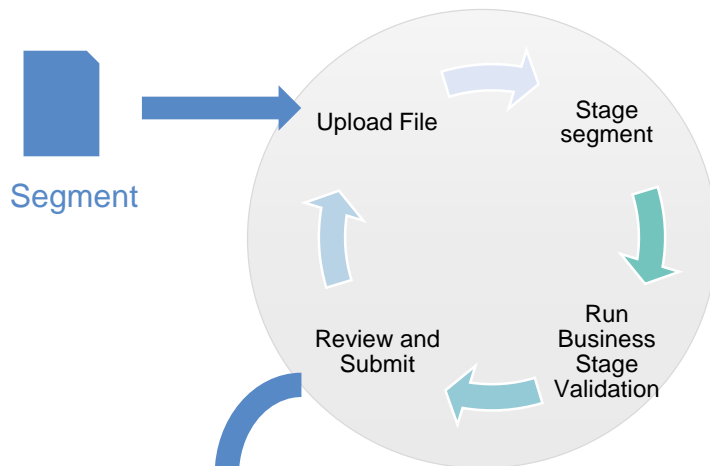
Concern that in year will be more burdensome

The lack of engagement from senior management who do not yet understand the size of the problem

A view that HESA data and Institutional data are very different things and cannot be easily harmonised

Data submission blueprint

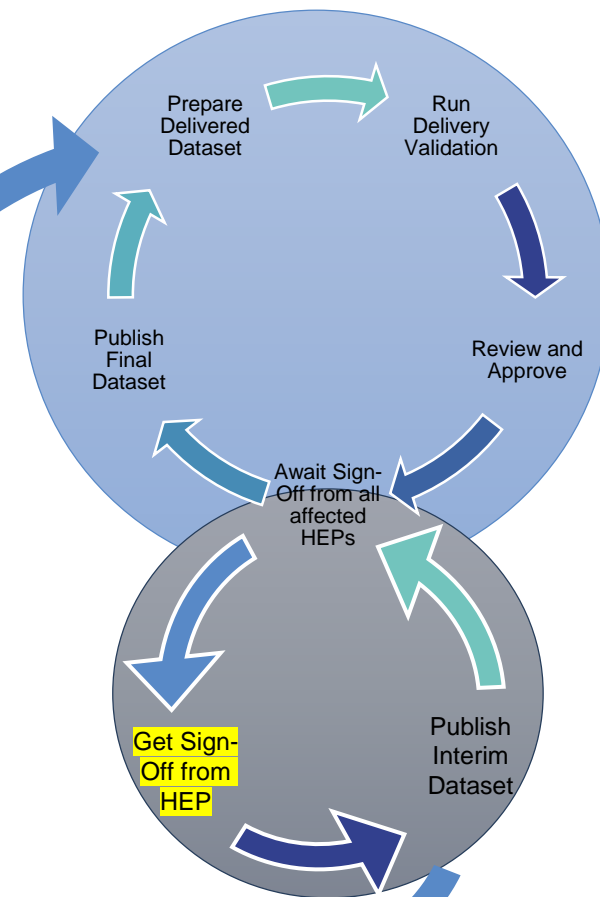
1. Submission of segment (or partial)



2. Collected Dataset



3. Delivered Dataset

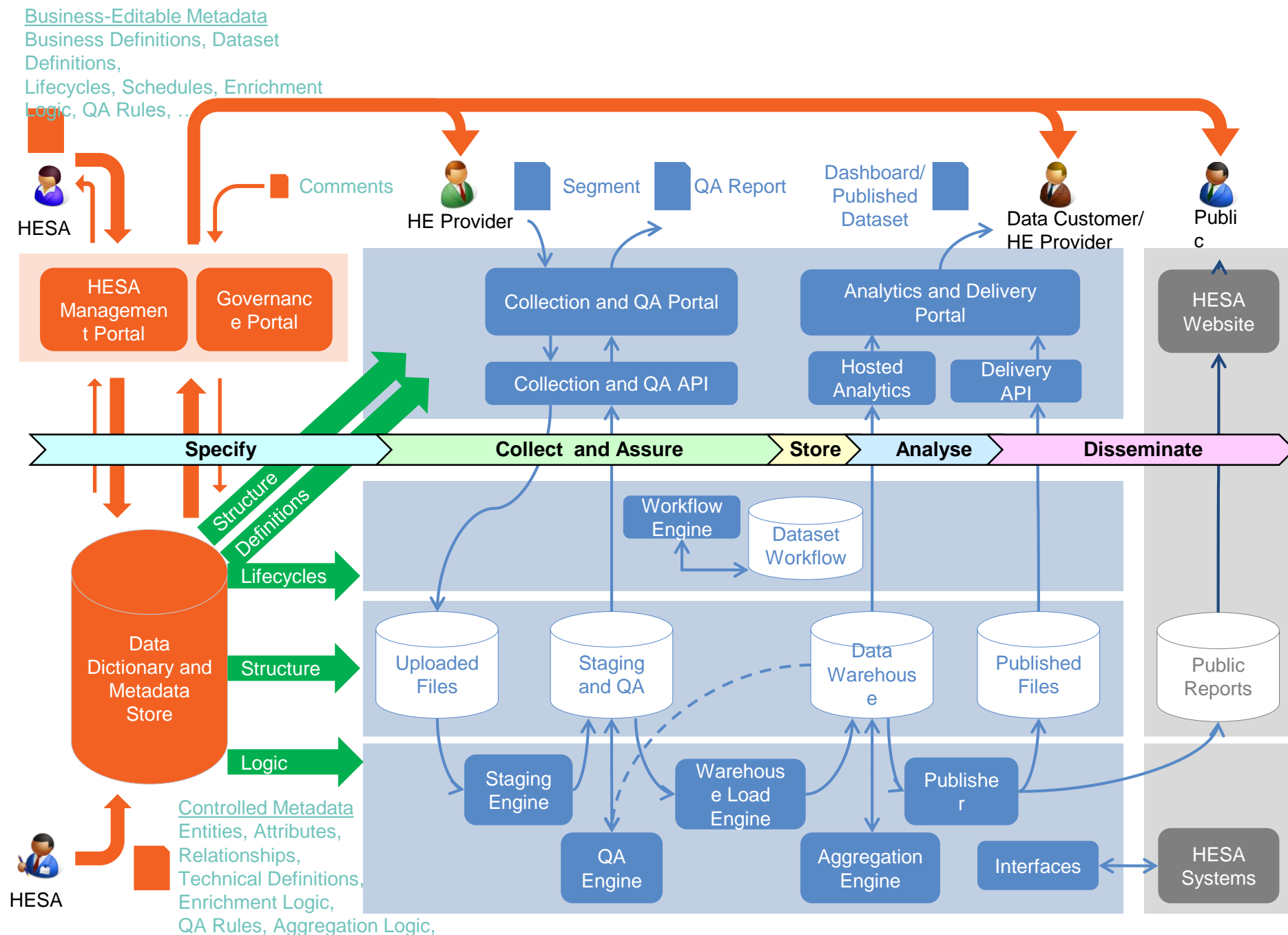


4. Published Dataset



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Solution blueprint



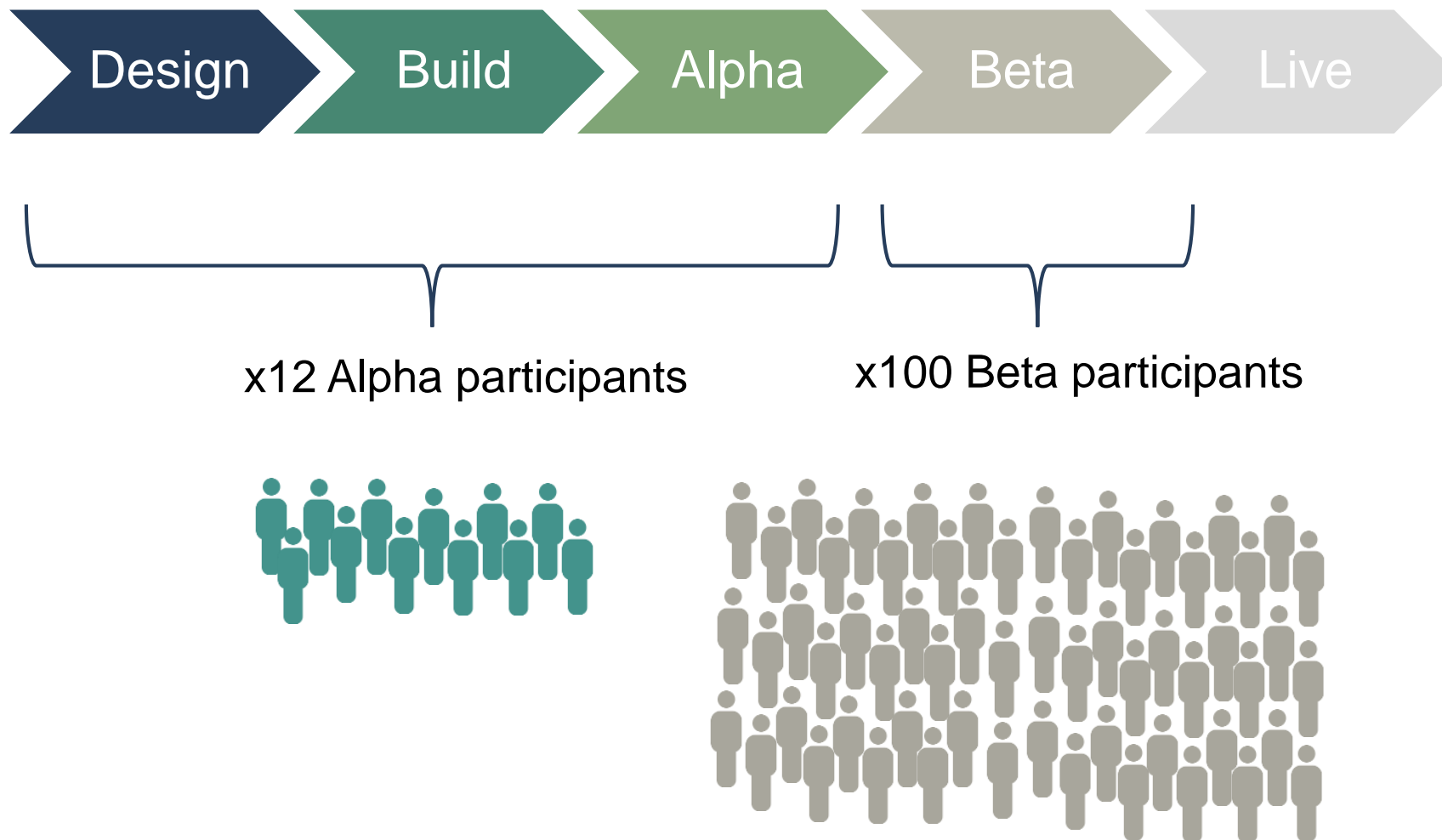
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Engagement



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Alpha Pilot Group

- Provide sounding board during detailed design (Feb-July 2017)
- Alpha piloting of initial concepts/prototypes in the academic year 2017/18.
- Data Futures Software delivered incrementally using Scrum methodology
- 12 HEPS, UK-wide, range of size and type, various student record systems - running consultation to identify them by end January
- Key principles include HEP decides level of involvement, possibly mock data, limited functionality delivered incrementally, feedback required throughout, workshops in Cheltenham.

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The Open
University



Sheffield
Hallam
University



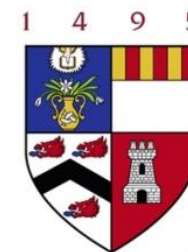
THE UNIVERSITY
of EDINBURGH

Goldsmiths
UNIVERSITY OF LONDON

PRIFYSGOL
glyndŵr
Wrexham
glyndŵr
UNIVERSITY



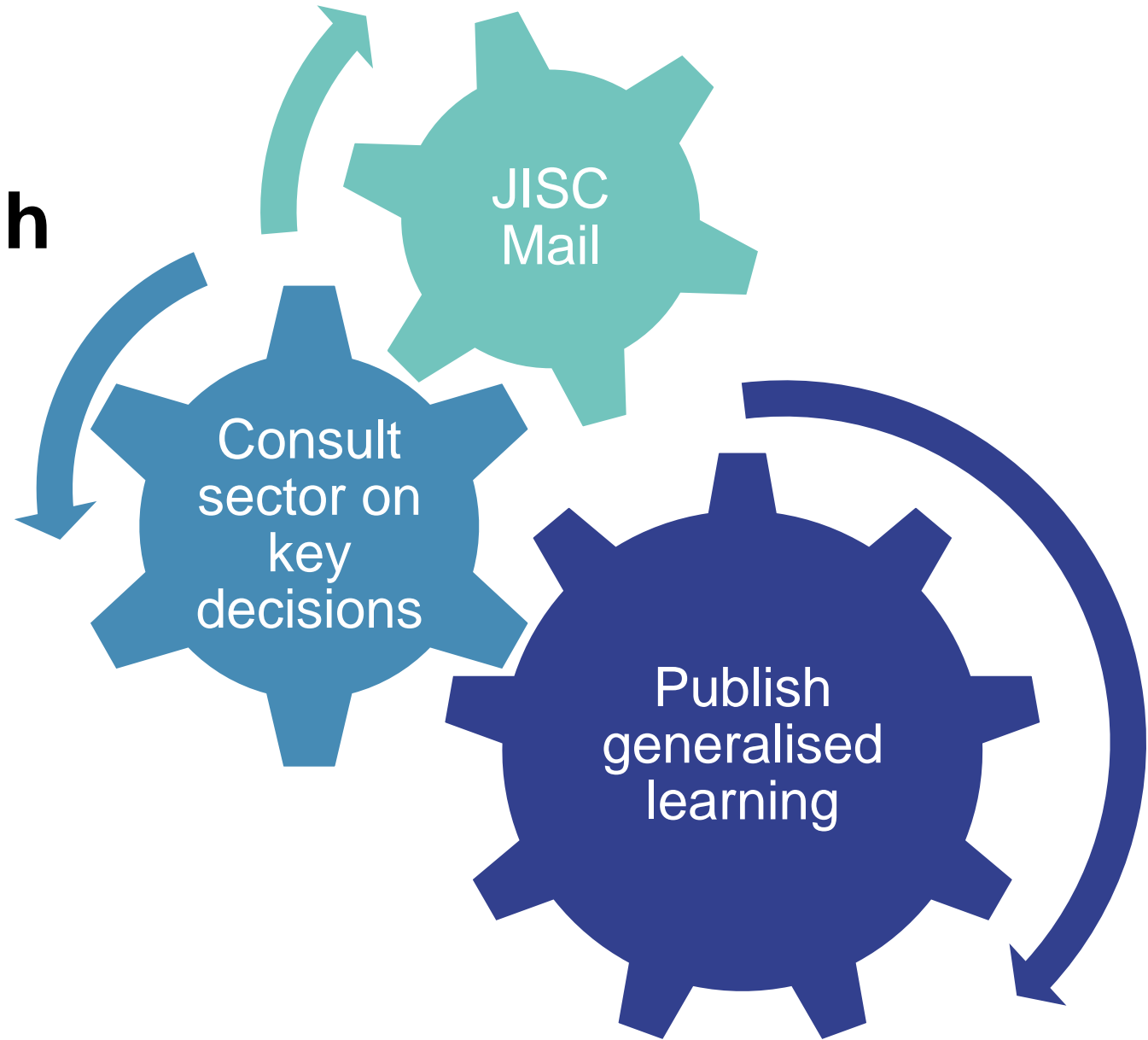
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Sector-wide engagement through Alpha Stage





Beta Pilots

- Beta piloting of full feature set in the academic year 2018/19.
- Still delivered incrementally using Scrum methodology. Features incremental in-line with incremental in-year data requirement.
- 50-100 HEPS – self-selected. Prefer not to turn away interest.
- Key principles include HEP decides level of involvement, real data, structured feedback required throughout

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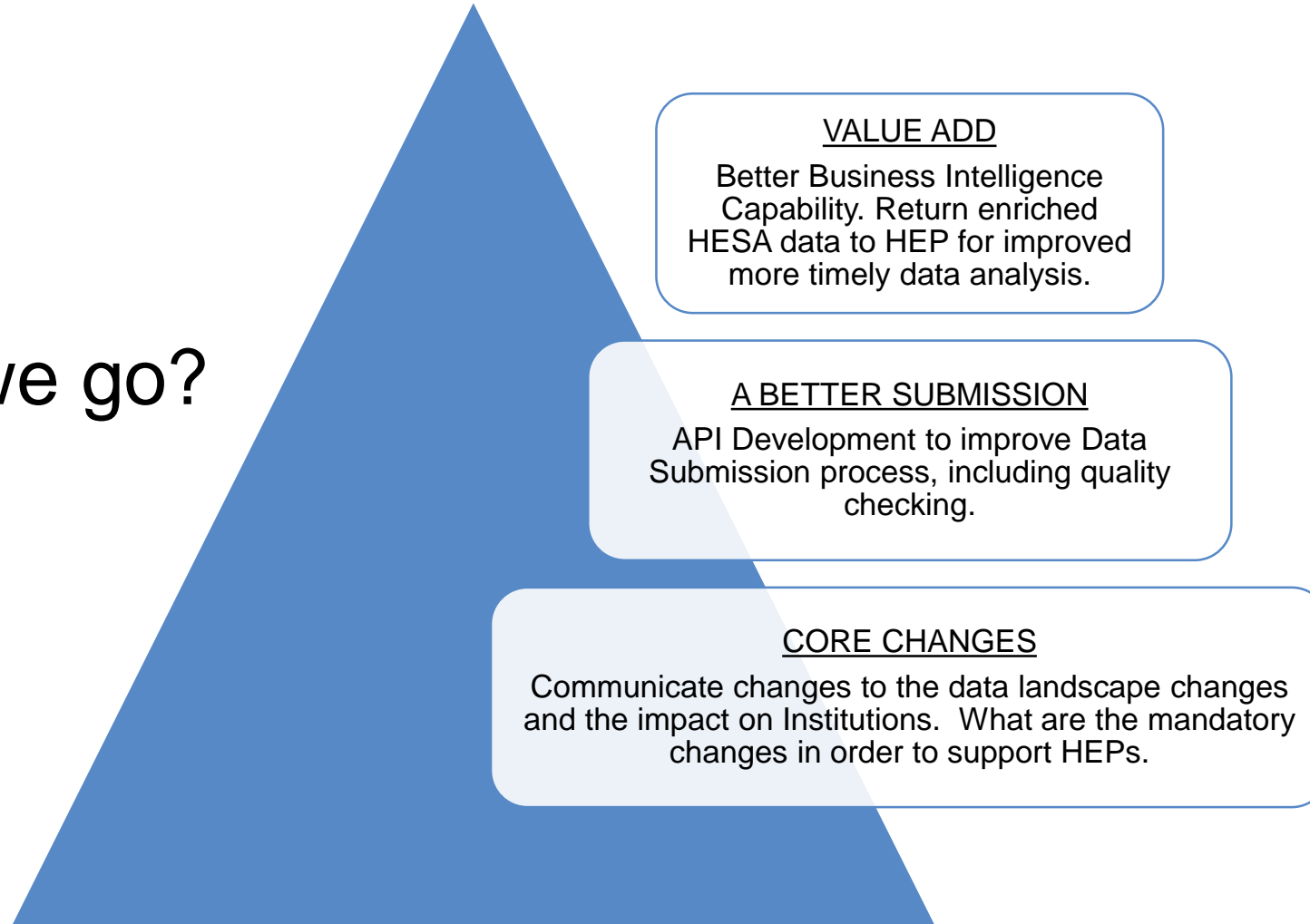
Software Suppliers

14 December 2016, more sessions being planned



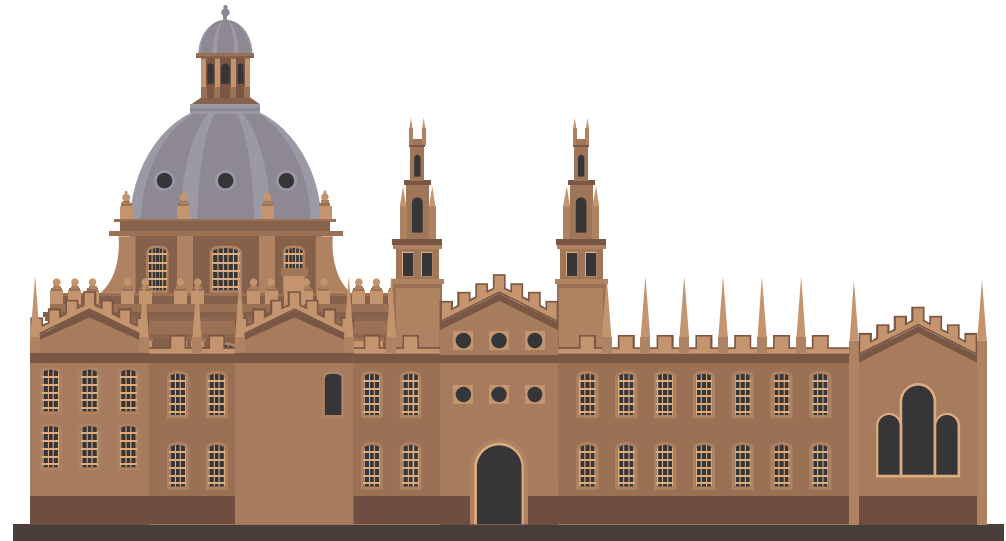
Working with software suppliers

How far can we go?



What does it mean for institutions

- Changes to Student Record Software
- New collection schedule and new student record collection specification
- A data submission 'crunch point' during transition to the new model 2019/20
- **Much better data**



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Questions

