A FRAMEWORK OF FACTORS RELEVANT TO INSTITUTION LEVEL IMPLEMENTATION OF LEARNING ANALYTICS FOR STUDENT RETENTION

This framework organises a range of factors relating to learning analytics implementation into six key domains, shown in green. These domains share a systematic discussion interface, shown in yellow, which articulates the institution level focus of the framework and its intended engagement process.

**INSTITUTIONAL CONTEXT**

Institutional context provides the parameters for what is feasible/appropriate and includes:

| Location | Student demographics and characteristics | Staff demographics and characteristics | Size and structure | Strategic positioning of the institution |

**SYSTEMATIC DISCUSSION OF THE SIX DOMAINS**

This discussion interface recognises that successfully coping with the complexity of learning analytics requires a collaborative, systematic approach because:

- Expertise relating to the six different domains is distributed across institutions
- Learning analytics projects typically exert broad impact across an institution

**TRANSITIONAL INSTITUTIONAL ELEMENTS**

Transitional institutional elements provide the parameters for the implementation of learning analytics. They include:

- Culture
- Positioning of learning analytics within the institution
- Level of sponsorship
- Governance arrangements
- Alignment with institutional strategy
- Sustainability

**LEARNING ANALYTICS INFRASTRUCTURE**

Learning analytics infrastructure is concerned with three main factors: system reliability, system sophistication and relevant expertise. This includes:

- Digital availability and integrity of data
- Integration, continuity and availability of data systems
- Technical, pedagogical, statistics, and project management expertise
- Data stewardship
- Policy and procedures

**TRANSITIONAL RETENTION ELEMENTS**

Transitional retention elements provide the parameters to enable more effective deployment of learning analytics for retention purposes. These include:

- Retention planning
- Retention strategy and implementation
- Governance arrangements related to student retention

**LEARNING ANALYTICS FOR RETENTION**

Learning analytics for retention factors are focused on the use of learning analytics for retention and include:

- Educational and business questions from various stakeholders
- The ability of the system to address the questions
- Accessibility, ease of use of system, tools and reports for various stakeholders
- Consideration and resolution of the ethical issues which may arise from the implementation and use of learning analytics

**INTERVENTION AND REFLECTION**

Intervention and reflection are critical to improving retention. Consideration needs to be given to:

- Training, support and time for staff and students to use systems, interpret data and reports and act on them
- Endorsed processes around actions or interventions arising from the data
- Modification of relevant elements, systems, factors and interventions