Strategic IS Plan for Yoobee College

Ethical Digital Education Framework

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Assessment of Current IS & Risk Identification

This report analyzes Yoobee College's current IS environment, which lacks SMS and LMS systems and relies on manual processes. Throughout the report, ideas and solutions will be proposed for the college's development and for imposing cultural values and beliefs.

SWOT Analysis:

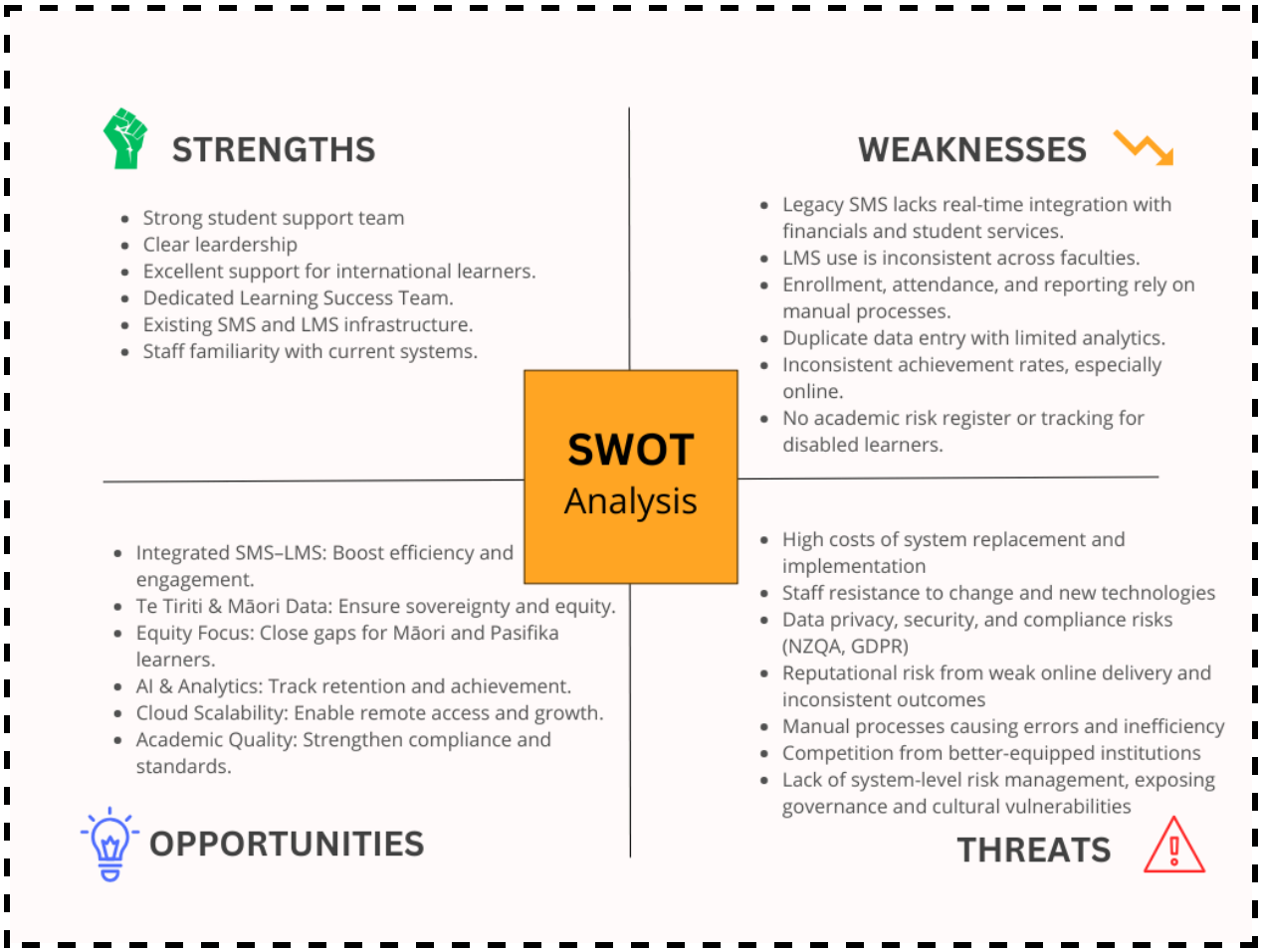

Fig 1.0

Ice Berg Model :

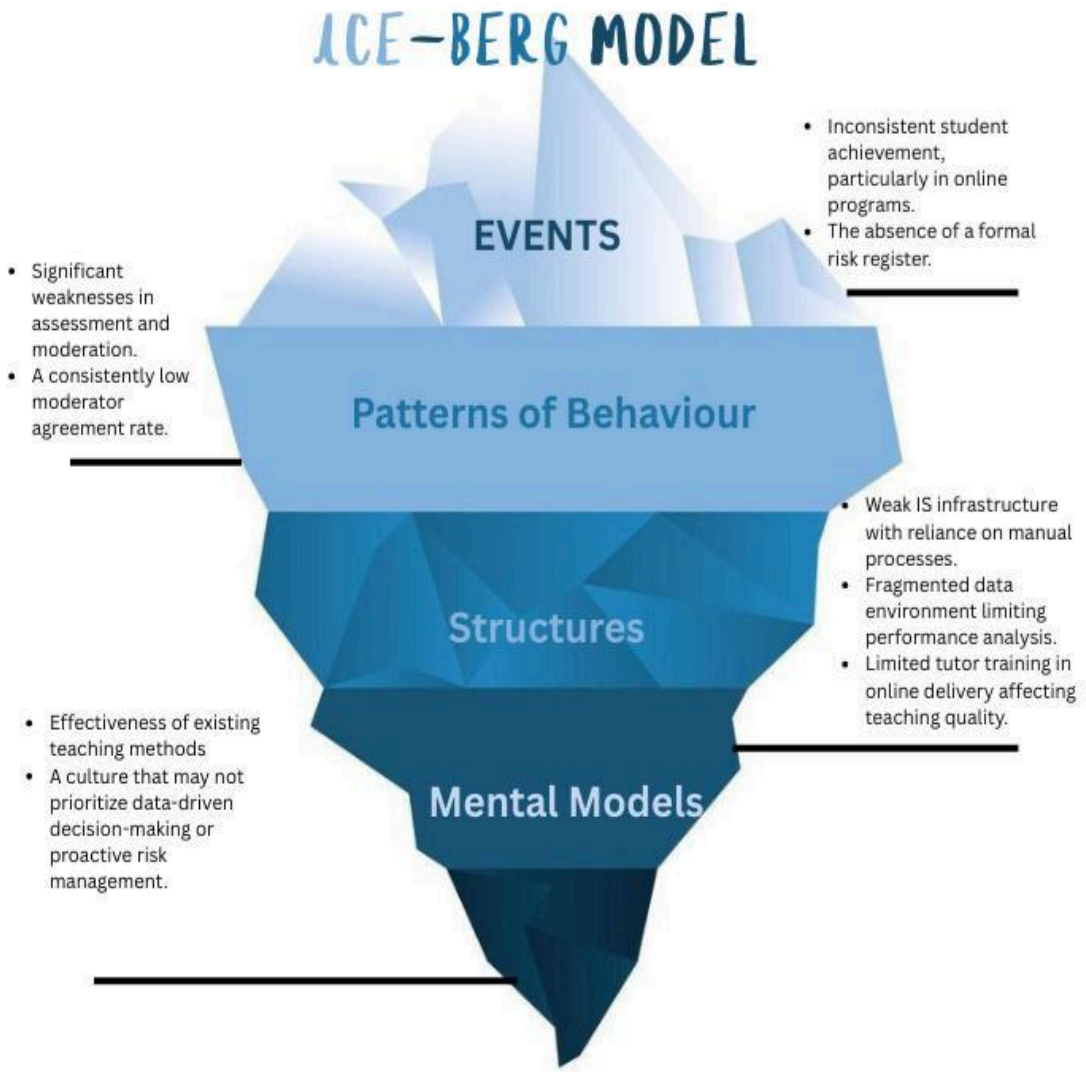

Fig 1.1

PESTEL Framework:

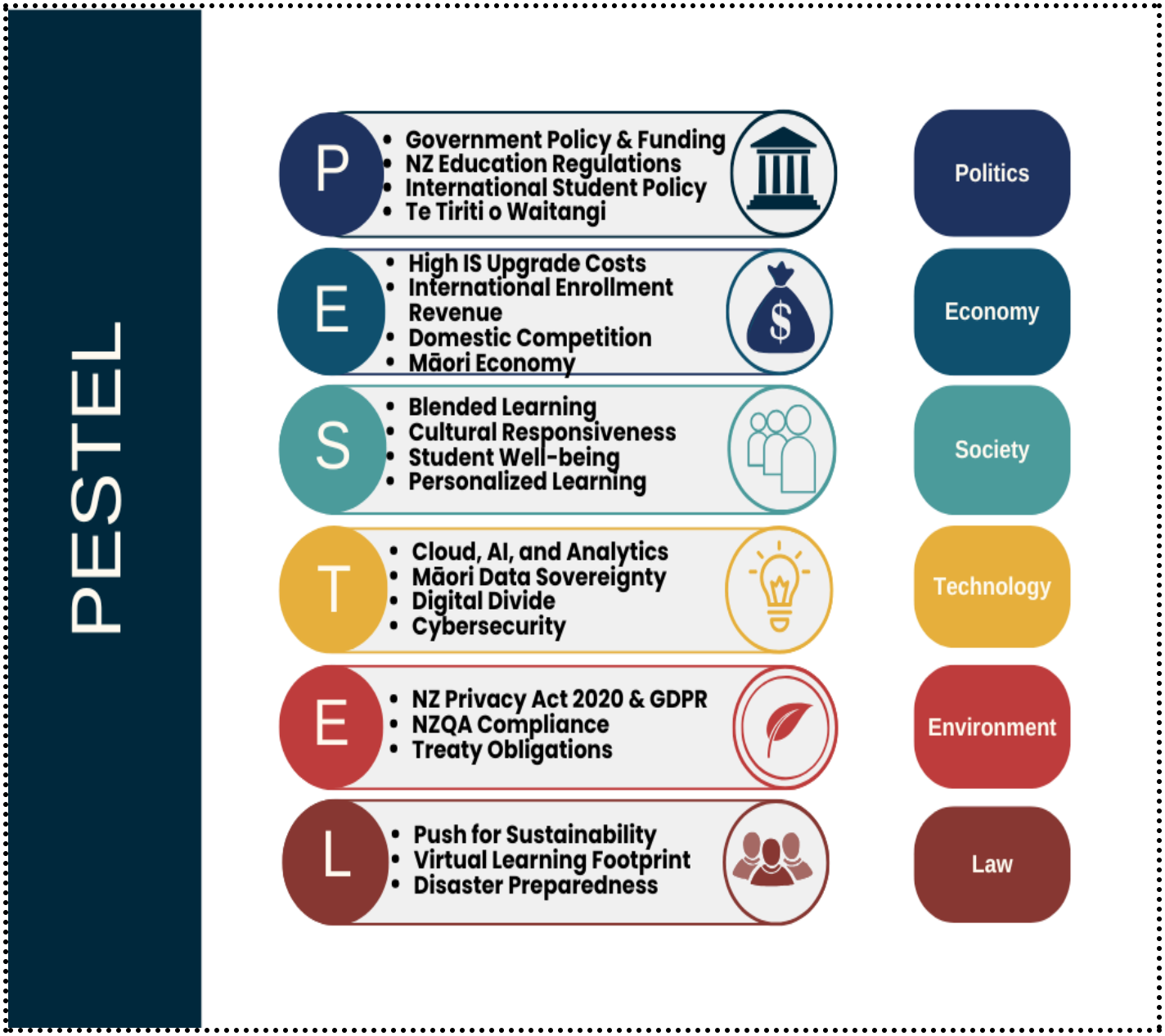

Fig 1.2

6 Process Dimension:

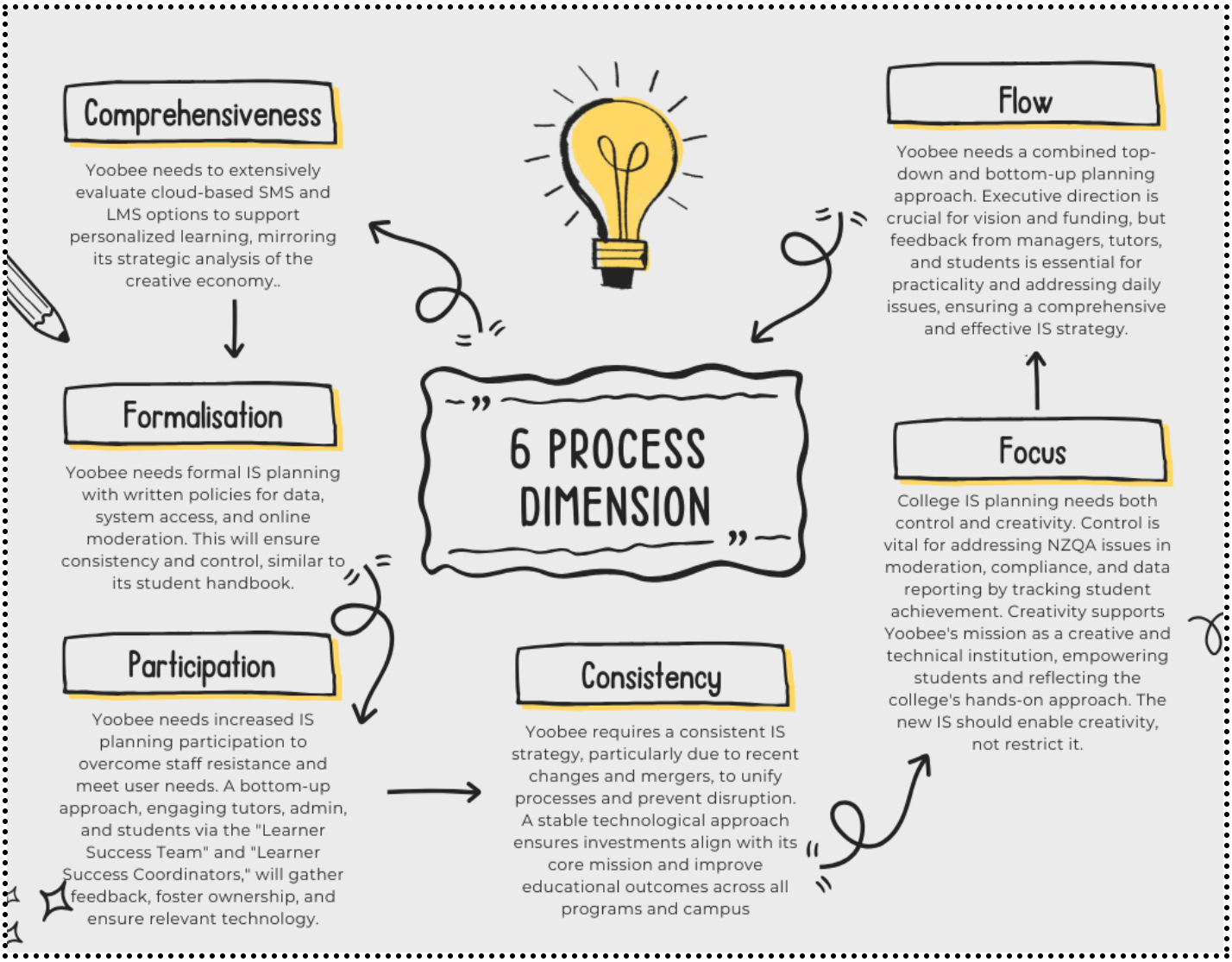

Fig 1.3

Framework Area:

Framework Area	Example & Context / Resource	Highlights
Governance & Principles	Te Tiriti o Waitangi; Māori Data Sovereignty; GDPR & NZ Privacy Act 2020; NZQA & TEC	Supports Te Tiriti obligations; respects Māori data rights; aligns with privacy legislation; measures up to the trend. Issues with online delivery , requirement of academic standards.
Data Management	Ethical AI; consent processes; data equity (Māori, Pasifika); cloud security	Transparent and ethical AI; informed consent; equity monitoring; secure infrastructure.
System Integration	SMS and LMS integration; Māori names/values in data; audit trails & compliance	Effortless integration of academic/support systems; safe data for Māori; clear compliance & risk management
Engagement & Training	Staff ethical data/cultural competency training; student rights aware; Māori partnership	Innovates staff capability development; increases student ownership & trust; working towards distinct Māori partnership.

Gap Analysis (Current State vs Future State)

Current State	Gap	Solution
Weak SMS leads to manual enrollment, reporting, and attendance. This causes delays, misunderstandings, and withdrawals.	Lack of source of truth for students data	Centralized, strong SMS that automates enrollment, simplifies administrative tasks, and gives real-time data.
A poor LMS results in uneven online learning and insufficient tools for tracking performance and motivation.	Lack of a cohesive digital learning environment.	New, feature-packed LMS with quiz features, e-badges, collaborative exercise, and streamlined performance dashboards.
inconsistent analysis and understanding of data at the program level, depriving evidence-based decision-making.	Lack of data-driven self-reflection.	Using modernised AI technologies to keep track of real data that is used and managed on daily bases.

Ethical, Culturally-Responsive Digital Education Framework:

Framework Area	Example & Context / Resource	Highlights
Governance & Principles	Te Tiriti o Waitangi; Māori Data Sovereignty; GDPR & NZ Privacy Act 2020; NZQA & TEC	Supports Te Tiriti obligations; respects Māori data rights; aligns with privacy legislation; measures up to the trend. Issues with online delivery , requirement of academic standards.
Data Management	Ethical AI; consent processes; data equity (Māori, Pasifika); cloud security	Transparent and ethical AI; informed consent; equity monitoring; secure infrastructure.
System Integration	SMS and LMS integration; Māori names/values in data; audit trails & compliance	Effortless integration of academic/support systems; safe data for Māori; clear compliance & risk management
Engagement & Training	Staff ethical data/cultural competency training; student rights aware; Māori partnership	Innovates staff capability development; increases student ownership & trust; working towards distinct Māori partnership.

Strategic IS Plan Proposal

Implementing a user friendly system for student records, attendance, reporting, and international student services, featuring interactive modules, e-badges, and performance dashboards. Developing data analytics for live reports to track student achievement, engagement, retention, analyze equity gaps (Māori, Pasifika, disabilities), and measure graduate outcomes.Additionally making a Risk matrix . Providing staff with prior training about the usage and online teaching to mitigate risks and support teachers with smooth transition.

Making available resources of prerecorded videos for the international and domestic students to understand code of conduct , the college systems and how to access resources online. Onboarding is one of the major step , it has to be creative and innovative for the students to start their journey in college , setting flexible enrollment rules can help the student to relax and concentrate on studies (international students when Visa is delayed or rejected)

Cultural, Ethical & Risk Considerations

Yoobee Colleges main importance is to give importance to the teTe Tiriti o Waitangi and ethical data practices , especially Māori Data Sovereignty . The new platform given in the report would empower not only Maori students but also students from different ethnicities making them feel valued and capable . By contributing to Māori data sovereignty principles: Tino Rangatiratanga (Self-Determination), Whanaungatanga (Relationships), Manaakitanga (Care and Respect), and Kaitiakitanga (Guardianship) we can create space for cultural engagment.

- NZQA Compliance & Ethical Data Use

  The proposed Information System (IS) will invest considerable emphasis on good data governance and security, adhering to NZQA regulations and ethical guidelines. This commitment will underpin the students' privacy of data and furnish students a means of being aware of the data which is being used. The system will also standardise moderation and assessment within/from templates and automated checklists, and directly deal with the "serious flaws" identified by NZQA that the current system suffers from, in order to refine operational internal moderation processes. The proposed system will have a module dedicated to an academic risk register to keep track of the risks of low achievement, operational staff turnover

Conclusion

Mā te rongo, ka mōhio. - Through perception, comes awareness.
Mā te mōhio, ka mārama.- Through awareness, comes understanding.
Mā te mārama, ka mātau.- Through understanding, comes wisdom.
Mā te mātau, ka ora. - Through wisdom, comes well-being.
(Taken from McRae & Averill Ensuring Maori student success 2019)

Yoobee College's legacy, disjointed systems and various online teaching and learning styles prevent it from achieving its strategic goals and hinders data-based self-evaluation, despite being well-supported by students. A proposed strategic IS plan with a holistic student and learning platform and digital-first training for staff will consolidate data seamlessly while delivering an automated and auditable process that meets NZQA compliance, elevating Yoobee College as a leader in equitable education in Aotearoa.

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