IT Strategy in the Era of Digital Transformation: Case Higher Education

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Context: IT strategy defines how IT creates value for the organisation. Digital transformation changes the role of IT and, consequently, digital strategy must address new aspects of value creation.
New requirements for digital strategies

• **Wider use of technology.** IT must be considered in the relevant business context.
• **New role of technology.** Digital technologies may become indispensable and, unlike before, may even drive the business direction.
• **Business development.** Digital is increasingly important for differentiation and innovation.
• **Integration across the organisation.** Digital solutions span across organizational boundaries. IT becomes a process and technology integrator.
• **People and structures.** Business and leadership roles require knowledge on IT and IT people are must have deep understanding of the core business. Individual roles become blurred.
• **Culture.** Digital transformation require changes in behaviour in the entire organisation (e.g. automation and self-service) and the strategy needs to tie cultural and digital elements together.
New scope for digital strategies

Traditional IT strategy

Digital strategy
Digital capabilities

A business capability refers to the capacity, materials and expertise required to perform a core business function.

A digital capability refers to a business capability that is needed to operate successfully in a digital world.

An IT strategy defined in terms of digital capabilities addresses all aspects (e.g. people, processes, tools, other resources) of the relevant key business capabilities independent of organisational or other boundaries.
Digital capabilities can bridge the gap

- **Wider use of technology** → IT elements get blended with business elements
- **New role of technology** → The approach works with different combinations of technology and other elements within a given capability
- **Business development** → When IT elements are discussed always together with the business, it no longer becomes a bottleneck for business development
- **Integration across the organisation** → Capabilities span across the organisation and business/technical integration across the stakeholders is a natural consequence
- **People and structures** → Capabilities reduce the importance of structures and, consequently, people can be more empowered and the MoO can be more flexible
- **Culture** → By combining processes, people and tools together, the approach provides more viewpoints to address cultural issues.
Digital strategy template

1. The context: external and internal forces
2. Digital aspects in the organisation’s top level strategy.
3. Role of the IT organisation(s), and capabilities that are predominantly IT based.
4. Digital capabilities across the organisation
   - Business centric capabilities
   - Cross-cutting capabilities, e.g. automation and self-service
   - Operational capabilities, e.g. IT partnering and project delivery.
   - Future-looking capabilities, e.g. AI, BI
   - People-related capabilities, digital skills
5. The implementation
   - E.g. a holistic programme, group of projects, task force
   - How to manage change
   - Key risks and their mitigation

Capability “mini-strategy”
- Context (why the capability is needed).
- Vision or target (the aim of the capability).
- Required elements, such as people, processes and technologies, and guiding policies.
- Actions to reach the vision (together with risks, governance and other relevant aspects).
Mission. Information Services will drive and deliver agile and digitally optimised services and solutions in order to enable the Brunel University Community achieve excellence in all that they do.

Vision. We will provide the University with the strategic thought leadership and digital innovation required and set world class standards across the sector.

Digital Specialists. Brunel will have digitally enabled and proficient staff to deliver digital services and projects for serving the future academic needs.

Digital infrastructure. Brunel will have an agile and efficient digital infrastructure with a balanced combination of in-house and outsourced elements. Cloud first will be the guiding principle.

Future Fit Library and digital scholarship. Brunel will create a future fit, efficient library collection strategically aligned to the university’s education and research. Scholarly practices will be aligned with modern information technology.

Focus on the customer
Digital first
Agility in delivery
Information at the core

Education and student experience
Research excellence
Business Growth
Digital Campus
Digital Processes

Information Services

Digital capabilities
- Governance
  - Business IT
  - ICT Projects
  - Architecture
  - Innovations
- People & culture
  - Digital literacy
  - Learning & teaching
  - Collaboration
  - Innovation
- Business support
  - Automation and self-service creation
  - Cyber security and data privacy
  - Digital content creation
  - Digital archives and records
- Organisational
  - Partnerships
  - Procurement
  - Project delivery
  - Financial management & assurance
- Future-looking
  - Business intelligence and analytics
  - Artificial intelligence and emerging technologies

Governance

People & culture

Business support

Organisational

Future-looking

Digital content creation

Automation and self-service creation

Cyber security and data privacy

Digital archives and records

Partnerships

Procurement

Project delivery

Financial management & assurance

Business intelligence and analytics

Artificial intelligence and emerging technologies

Digital infrastructure.

2030 vision, Sector changes, Technology changes

Key risks
1. Traditional culture blocks the development
2. Financial limitations due to other priorities
3. Loss of focus and BAU takes over
4. Unmanaged implementation and disagreement on direction result in sub-optimal results

Work streams
1. SRS and MI upgrade
2. Digital student experience
3. Digital research support
4. Digital sales and marketing
5. Cultural change

Example
Summary

• New requirements and scope for digital strategies
• Digital capabilities can bridge the gap
• Digital strategy template
  • The context.
  • Digital aspects in the organisation’s top level strategy.
  • Role of the IT organisation(s), and IT based capabilities.
  • Digital capabilities across the organisation
  • The implementation
• Example from high education
Thank you

Questions?