

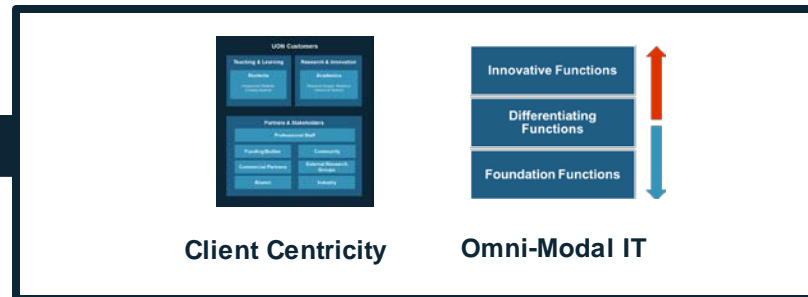
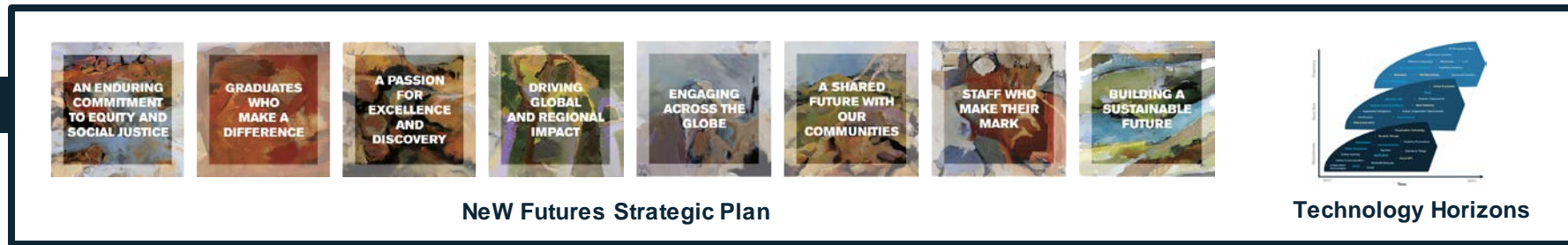
# IT Strategic Plan

## 2017-2025

Condensed version

Anthony Molina, CIO  
IT Services, Resources Division

# IT Strategy on a page



# Technology Horizons

Understanding trends and technologies impacting the global higher-education industry is critical for creating a successful IT strategy.

Out of the rankings of strategic technologies driving the higher-education industry from multiple sources (Gartner, CEB, NMC, Educause), the IT Strategic Plan considers those affecting or most likely to affect UON's business models for teaching, learning, research and innovation in 2017 and beyond.

## Value / Adoption

Visionary

Next Gen

Mainstream

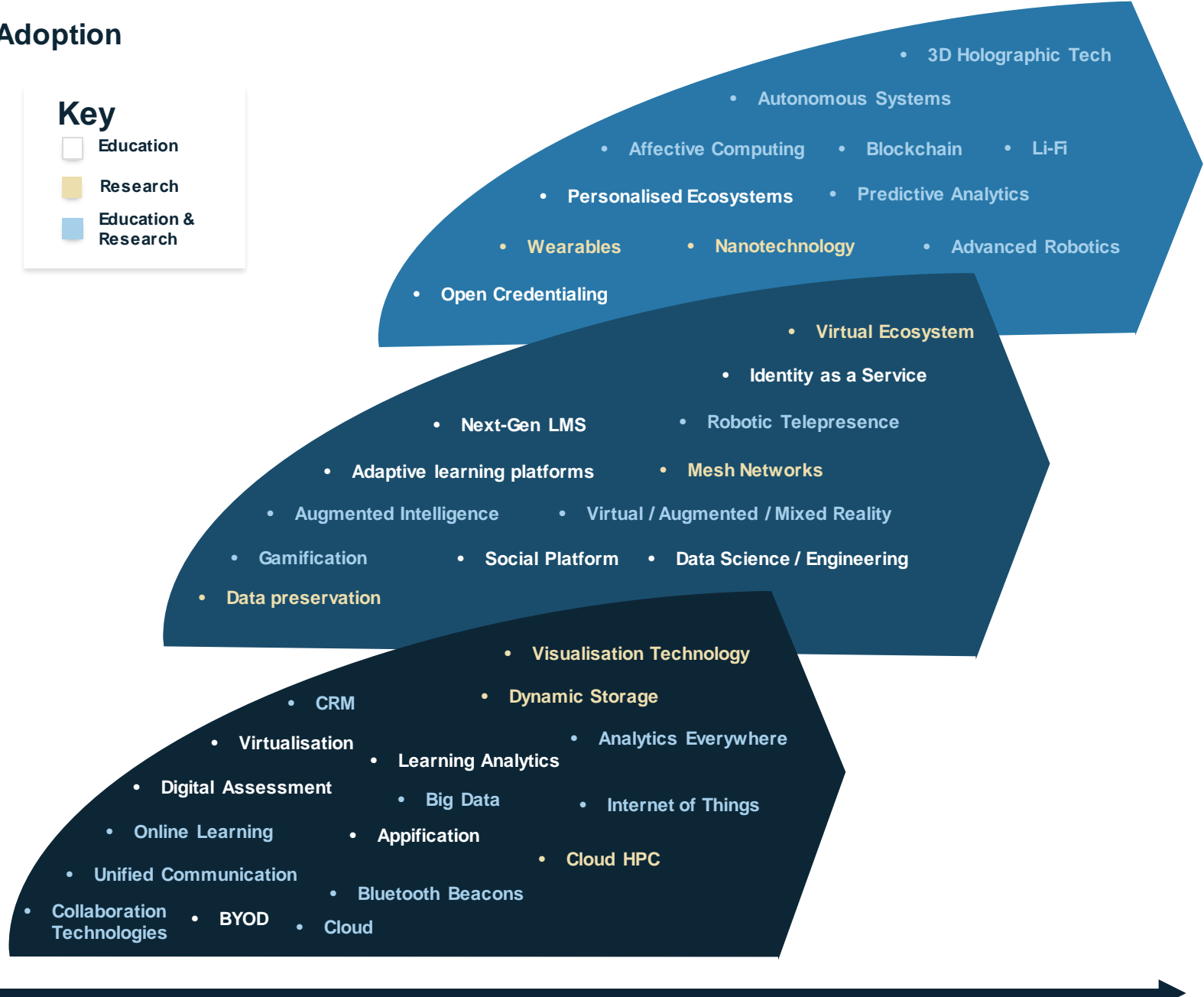
2017

Time

2025

**Key**

- Education
- Research
- Education & Research



# A Client-Centric Vision

## IT Services puts UON's clients at the centre of everything it does.

Students and academics are acknowledged as the epicentre of the University and therefore of IT Services. As such, the IT Strategic Plan targets the needs of prospective and existing students, as well as those of research groups and centres. By partnering with educators, researchers, divisions, alumni and external stakeholders, IT Services works to give our students the best opportunity to succeed in their education endeavours. We will also enable the academic staff to achieve their research outcomes.

We are committed to support the UON's community engagement and the delivery of the NeW Futures Lead Strategies to ensure UON's business targets are met.

# Our Mission

**To be a pivotal strategic partner, a trusted adviser and enabler of organisational, education and research strategies.**

**We will transform ourselves from a service provider to a strategic asset, delivering innovative and value-adding solutions to the University.**

## UON Clients

### Teaching & Learning

#### Students

*Prospective Students,  
Existing Students*

### Research & Innovation

#### Academics

*Research Groups, Research  
Centres & Partners*

## Partners & Stakeholders

#### Educators

#### Researchers

#### Professional Staff & Divisions

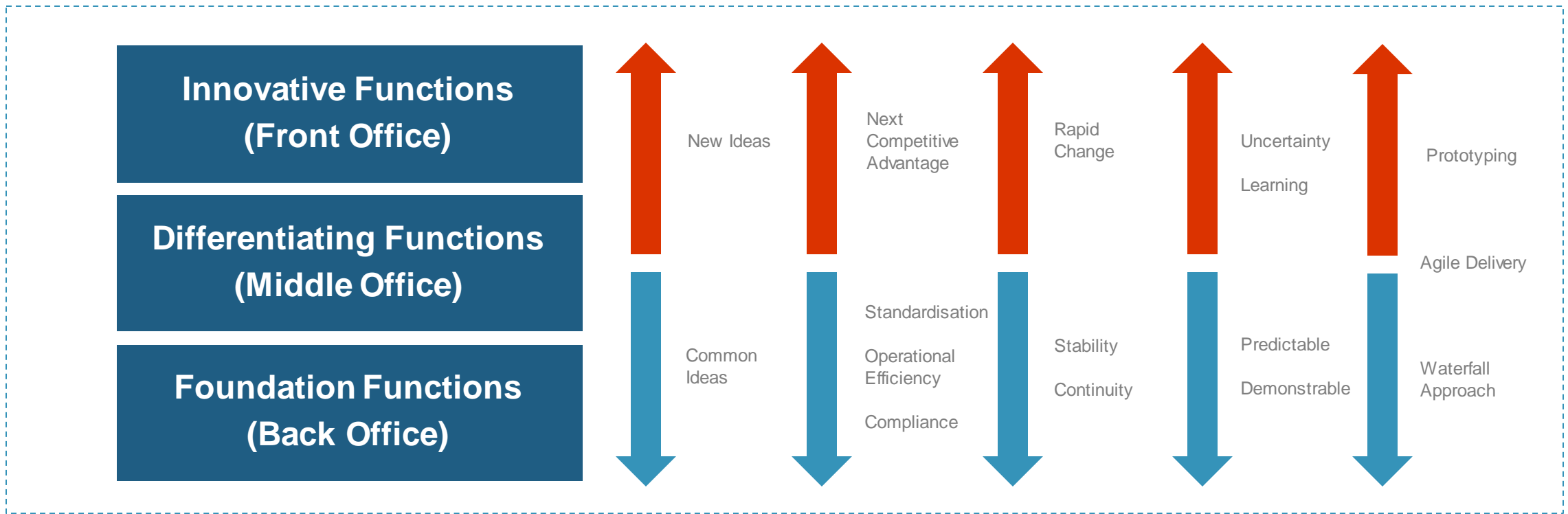
#### Community

#### Commercial Partners

#### Funding Bodies

#### Alumni & Philanthropy

#### Industry



## Omni-Modal IT

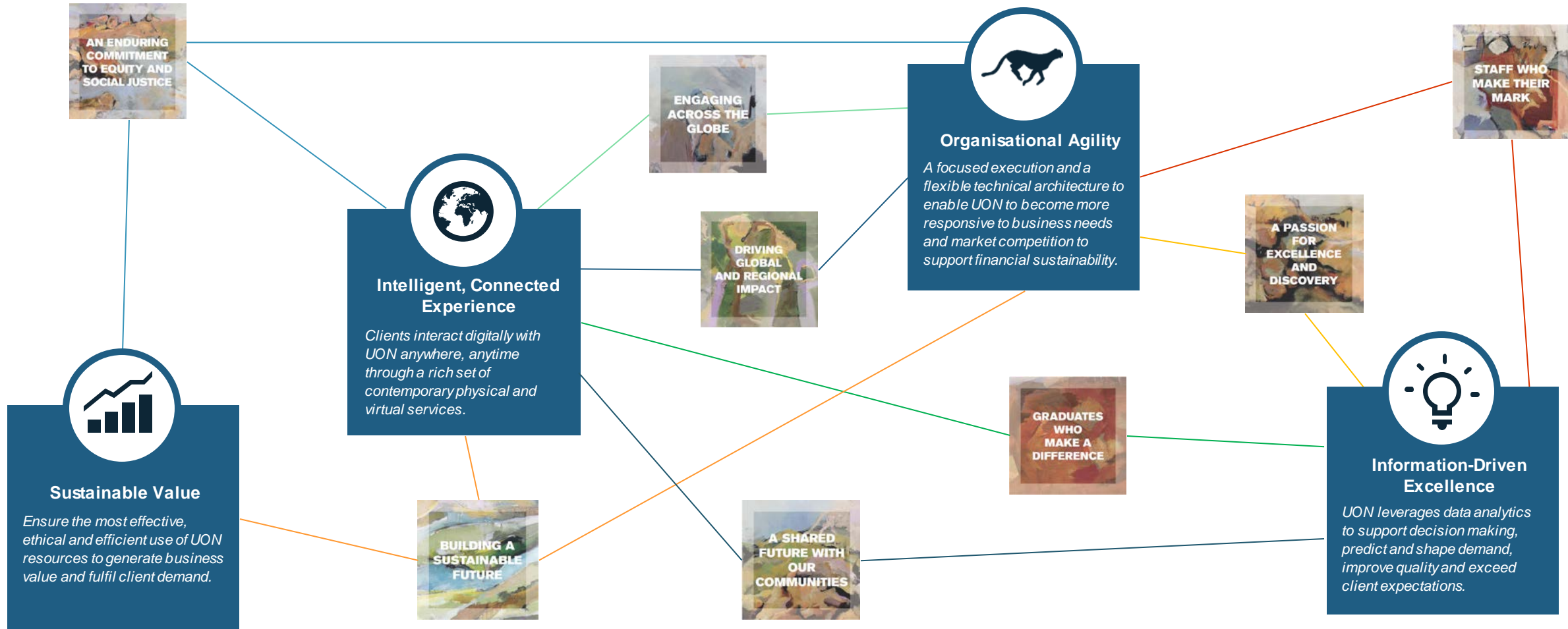
Omni-modal IT is the practice of coherently managing multiple styles of work, with focus varying from predictability to exploration. Modes range from renovating the legacy environment into a state that is fit for a digital world, through to experimenting to solve new problems and optimising areas of uncertainty.

Business functions and applications are segmented by the activities performed, the problems they address, their rate of change and the distinctiveness of the business capabilities they embed. Omni-modal IT recognises that UON requires several modes of operation with different governance, sourcing, funding, data/process integrity, software development and deployment models.

# IT Goals

Our IT Goals define how IT Services contributes to UON's success.

The four IT Goals have been designed to put students and academics front-and-centre. Whilst the IT Goals have targeted specific NeW Futures Lead Strategies, the diagram demonstrates that the goals do not have a unique mapping and will deliver business outcomes broadly across many NeW Futures Goals concurrently.



# Lead IT Strategies

Seven Lead IT Strategies will transform the way UON consumes information-related services and interacts with digital technologies.

The Lead IT Strategies in the following slides define the portfolio of strategic key initiatives that will realise the IT Goals over the coming years. Supporting the NeW Futures Goals and Lead Strategies, the Lead IT Strategies provide tangible, measurable benefits, including the development of new and existing capabilities for IT and the broader University.



**Flexible Learning**



**Research Power**



**iCampus**



**Proactive Engagement**



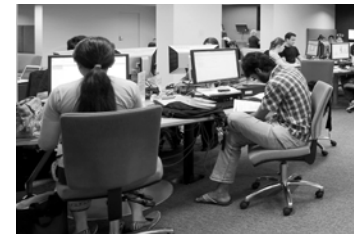
**Data Services**



**Future Workforce**



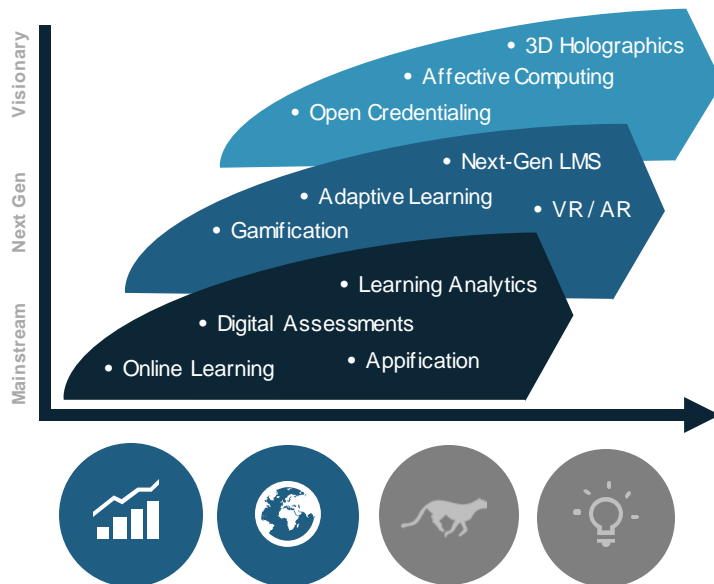
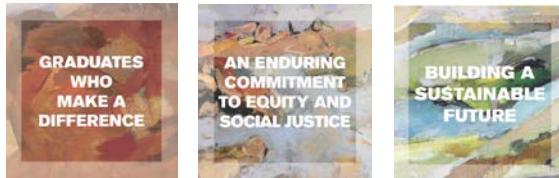
**Sustainable Service**



# Flexible Learning



As students' expectations for higher education evolve, so will UON's teaching and learning offerings.



## Key Initiatives

### 1. Teaching & Learning DNA

We will develop a digital-native architecture for Teaching & Learning to revolutionise the creation, distribution and consumption of educational material through omni-channel, scalable and interactive learning capabilities.

### 2. Personalised Adaptive Student Experience (PASE)

IT Services will enable UON to drive an enhanced student experience through persona-based adaptive learning technologies, automation and digitally rich, integrated learning assets.

### 3. 360-Degree Teaching & Learning

We will establish a real-time environment that enables interactive feedback, behaviours, assessment, formal and informal social interaction and networking to enhance overall student and staff performance.

### 4. Teaching & Learning Ecosystem

IT Services will implement a step-change in Teaching & Learning Management systems that will underpin the evolution in teaching and learning methods, credentialing and course design.

## Key Measures of Success

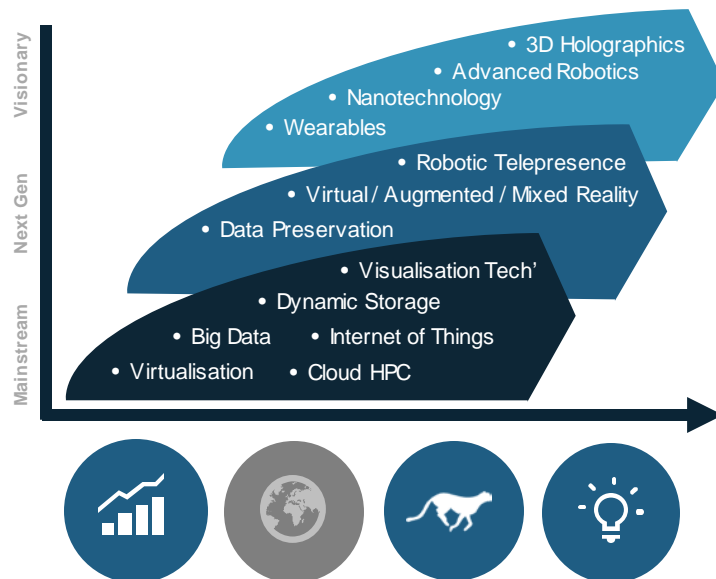
1. Delivery of contemporary digital solutions that enable state-of-the-art education for students to set their own learning journey.
2. Students will have the ability to choose the time, place and device they use to learn.
3. UON will be a sector leader in utilising technology to distribute and consume learning assets.
4. A Teaching and Learning ecosystem that meets the needs of the Students and Educators.



# Research Power



Research at UON is powered by digital technologies that decrease the time to results, enable activity and information sharing and preserve critical data.



## Key Initiatives

### 1. Research Solutions

IT Services will provide a new range of integrated data, processing and technology services to UON's researchers and research partners to support grant and industry-funded research outcomes, idea incubation and acceleration, and enriched curriculum updates.

### 2. NeW DC

We will deliver a new highly available consolidated data centre to enable big data analytics, enhanced high-performance computing (HPC), cloud bursting and IP protection.

### 3. Collaborative Research & Innovation Partnerships

We will form strategic partnerships with leading technology partners, provide broker services and technology consulting and development capability that will enable co-creation, co-innovative and scalable research.

### 4. Research Toolkit

We will implement and streamline solutions to support the management and administration of Research activities, HDR student management and Compliance and Ethics.

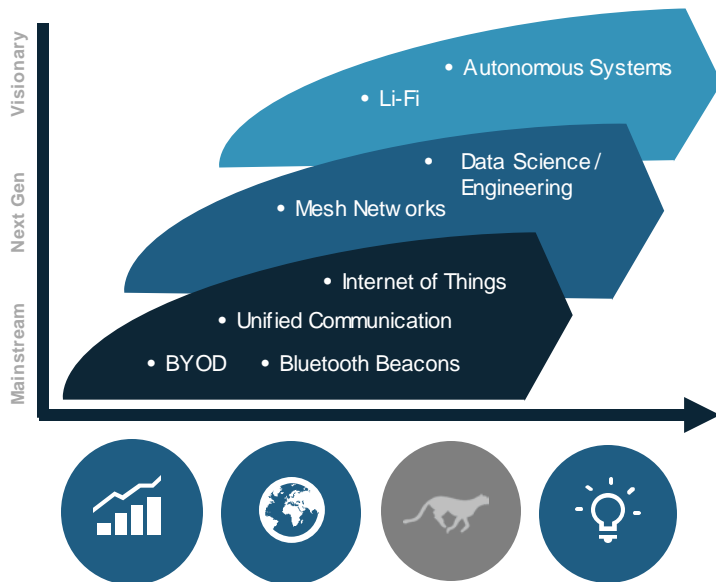
## Key Measures of Success

1. On-demand, managed and measured provision of HPC, storage and big-data analytics.
2. Research data that can be securely accessible from anywhere at anytime.
3. Achieving increased research system compliance, agility and flexibility.
4. Establishment of strong partnerships with leading IT partners.

# iCampus



UON is supporting our region's transition to a knowledge economy by creating intelligent campus environments that connect students, staff and the broader community with smart facilities.



## Key Initiatives

### 1. NEW Digital Experience

IT Services will enhance the on-campus experience and efficiency by utilising various IoT, mobile and other digital solutions to deliver personalisation, information and notifications to students, staff and the community.

### 2. Intelligent Campus

Through a range of assisting technologies, we will help deliver campus environments that connect students, staff, partners and the community with smart facilities to help manage parking, transport to, from and within campus, and to become more aware of the surroundings and services available on and around campus.

### 3. Smart City Link

We will work with the local city councils and utilities to integrate with their Smart City initiatives and provide seamless capabilities, access and information to enhance the student, staff and community experience.

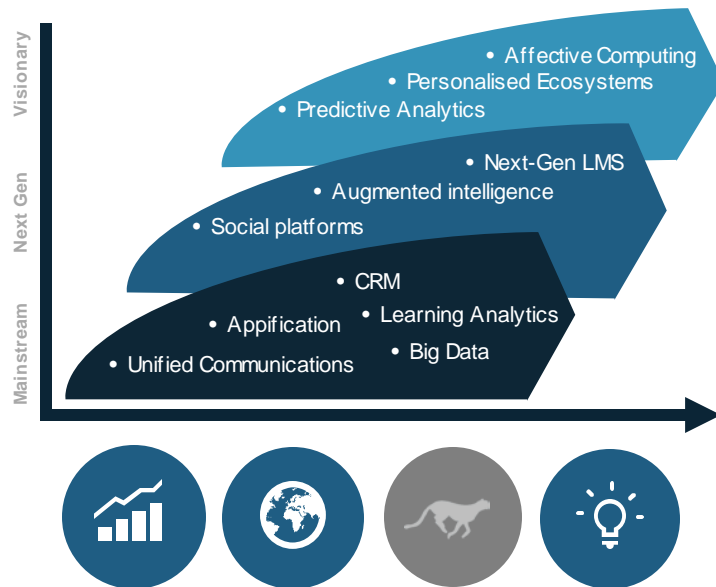
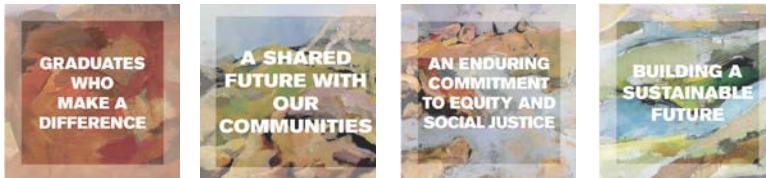
## Key Measures of Success

1. Increased advocacy from student, staff, and community with the on-campus experience and UON facilities.
2. Access to usable and rich datasets to facilitate improved insights on the campus, student and UON facilities.
3. Effective integration with Smart City initiatives.

# Proactive Engagement



Based on customer relationship management (CRM) and social media, Proactive Engagement encompasses initiatives that promote student and researcher uptake and increase client satisfaction.



## Key Initiatives

### 1. 360-Degree Client View

We will establish a single view of client interactions, from prospective students to alumni, through digital and traditional channels that create client insights and enable personalised digital marketing locally, nationally and globally.

### 2. Digital Connections

To improve client experience and drive innovation, collaboration and connectedness, we will provide an environment that fosters local and global community engagement, supports communities of practice and captures social conversations.

### 3. Mobile Ecosystem

A “mobile first” channel will be introduced where apps are tailored to distribute content, marketing and notifications to the different user communities who use UON services with opt-in capability to personalise use, information and content.

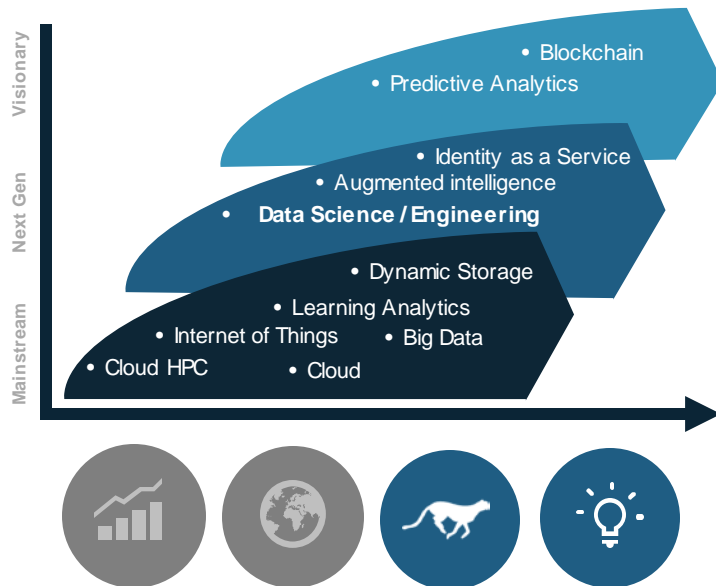
## Key Measures of Success

1. Student interactions will be personalised and automated.
2. Increase in the levels of local, national and global marketing interactions through automated digital channels.
3. Students, staff and visitors will have access to mobile apps providing personalised information

# Data Services



With data underpinning educational and research activities, it is essential for UON to develop robust, flexible and integrated data-related capabilities.



## Key Initiatives

### 1. Information Management

We will implement enterprise-grade information management capabilities to capture, store, distribute and protect data. This will underpin all Teaching & Learning, Research and Corporate functions for all key systems across the University.

### 2. Analytics Core

The implementation of a new Enterprise Data Warehouse and associated data visualisation technologies will enable the University to leverage the scalable, repeatable, live data to inform strategic decisions on scale, impact, innovation, and agility.

### 3. Integration Services

We will establish an application integration framework that enables real-time exchange of data between disparate UON and third-party systems to ensure all UON data sources are kept up-to-date, accurate, reliable and fit-for-purpose.

### 4. Open Data

To extend others' reach to our data sources and to access local, state and federal government data resources, we will implement a framework and environment to provide open access to public and de-identified data.

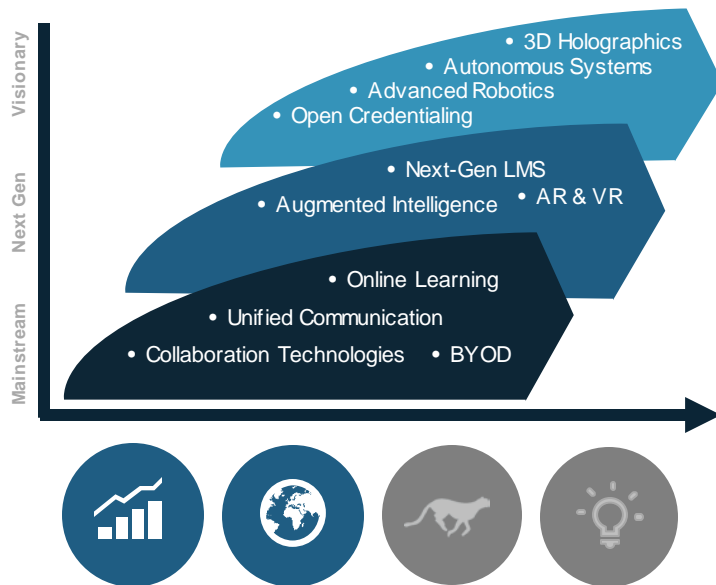
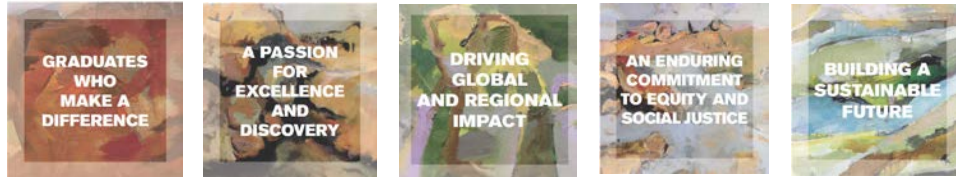
## Key Measures of Success

1. An integration framework and interface standards will be implemented.
2. Support of repeatable and scalable analytics across various vertical business and product lines of the University.
3. An enterprise data warehouse and an information management framework will be developed.
4. Open data standards for access, utilisation and analytics will be implemented.

# Future Workforce



Building upon the namesake NeW Futures Lead Strategy, the Future Workforce initiatives will provide the building blocks to support UON's goals for its staff.



## Key Initiatives

### 1. Anytime, Anywhere on Any device

We will provide virtual communication, collaboration, document sharing and records management through a new secure and compliant digital workspace.

### 2. Application Modernisation

We will transform our applications into a consolidated, contemporary set of digital solutions that fully align to UON's enterprise architecture and industry best practice operations.

### 3. Remote Access

To facilitate research activity, we will provide students and Academics with remote access to UON and partners' laboratories and computer facilities.

### 4. Efficient UON

By employing self-service workflows, Robotic Process Automation (RPA) and Augmented Intelligence (AI), we will drive efficiency and improvements across core processes in the University.

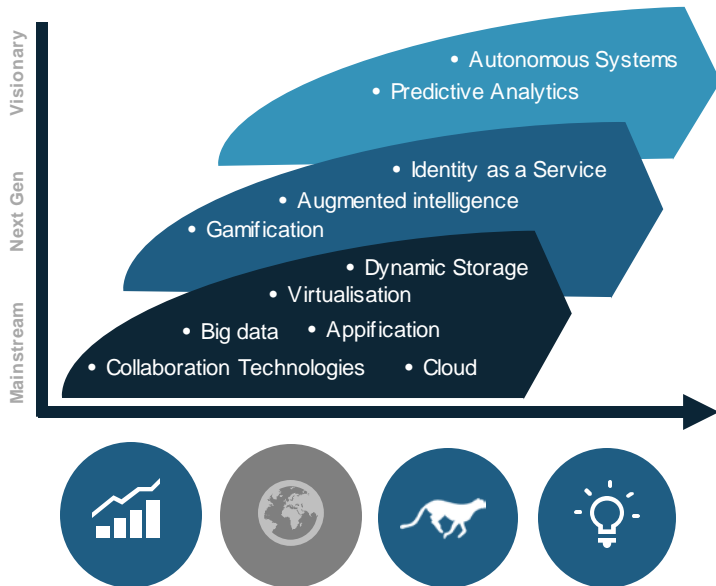
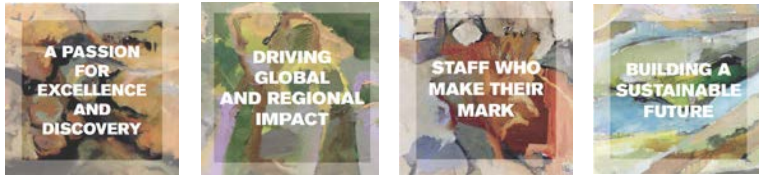
## Key Measures of Success

1. The delivery of digital workspace across UON with an increase in adoption of collaboration technologies.
2. Clear standards, technology guidelines and roadmaps will be established and managed.
3. UON workforce will achieve higher capacity, capability, diversity and performance targets.

# Sustainable Service



IT Services is gearing up for the critical role it plays in supporting NeW Futures Lead Strategies.



## Key Initiatives

### 1. Lifecycle Management

IT Services will implement capability to enable the management of lifecycles for students, academics, staff and partners, including enablement, engagement, on-boarding, development, support and administration.

### 2. Service Management

We will streamline and standardise UON's services through a central service management platform.

### 3. Operational Excellence

We will build operational excellence around IT governance, strategic planning, enterprise architecture, vendor management, information security, business continuity and IT asset management.

### 4. Technology Roadmaps

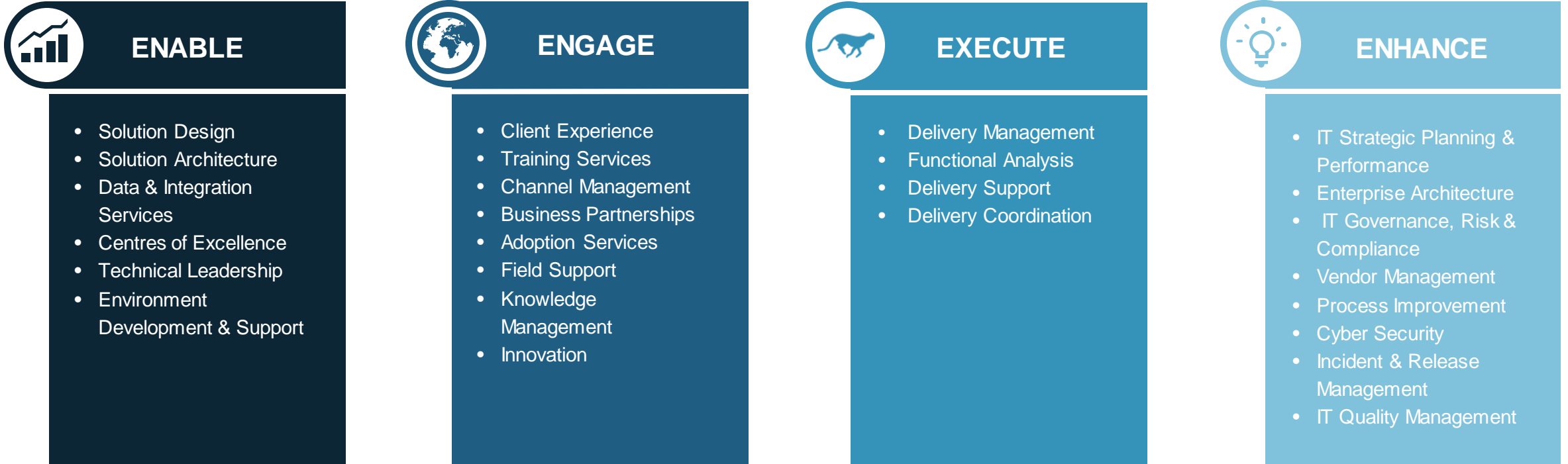
We will implement roadmaps for computing, storage, networks, applications and audio-visual technologies that consider current and future technology trends and ensure the benefits can go beyond the typical gains in efficiency, effectiveness and agility.

### 5. Strategic Partnerships

To reduce cost to serve and foster co-innovation, we will build and manage strong partnerships with leading technology partners.

## Key Measures of Success

1. Increased capability to respond to the changing needs of the higher education sector.
2. Improved IT Services operating performance and consistency on key benchmarks.
3. Demonstrated improvement in staff and student satisfaction.
4. Increase in value-for-money from IT assets and services.



## Organisational Competencies

To deliver on the IT Strategic Plan, competencies will be structured into four key areas of accountability, each aligning with one of our four IT Goals.

A people strategy that integrates with the UON strategy is key to the execution of the IT Strategic Plan. By focusing on talent development, organisational design and performance metrics, IT Services will ensure it possesses the skills and competencies required to ensure UON's goals are met.