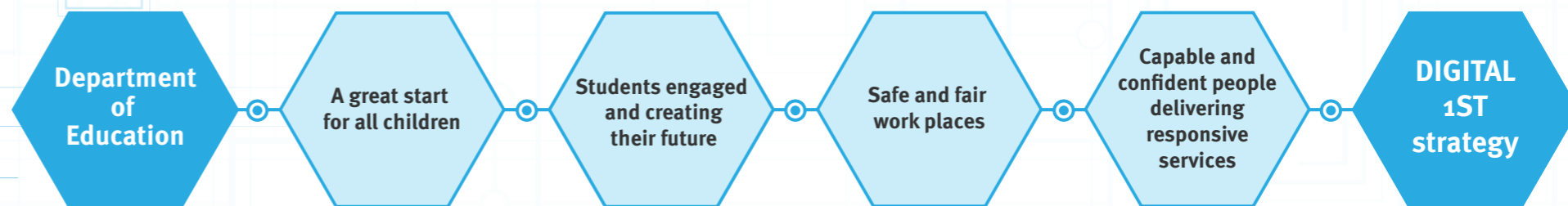




Department of Education

Digital strategy 2019 – 2023

*IT's all connected:
For creative, connected and engaged learners now and in the future*



Modern education systems are evolving towards personalised, collaborative and integrated learning experiences for the digital generation. Progressively more learning is taking place online or is supported through online activities.

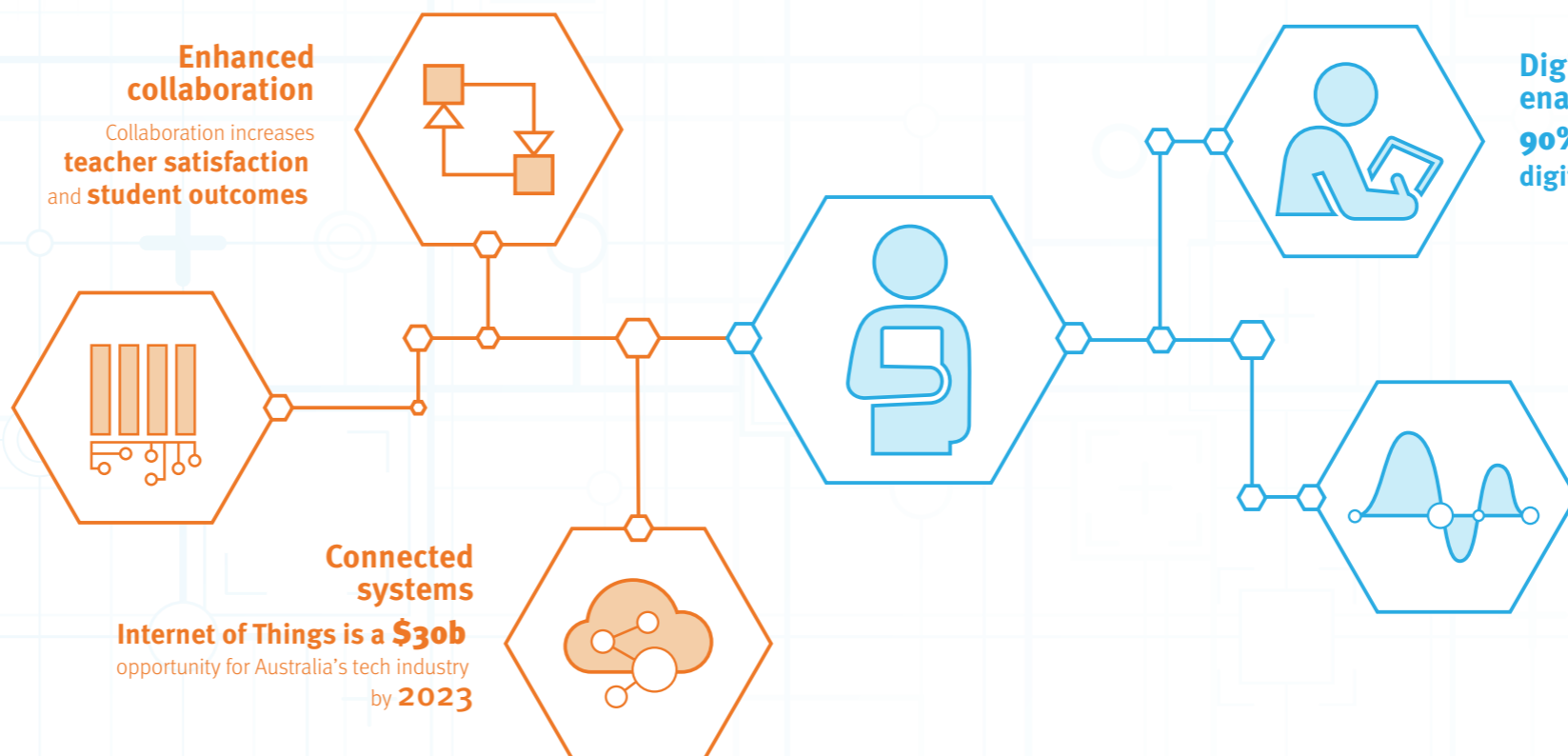
This evolution brings an increased and changing demand for new IT solutions and digital-rich learning spaces.

As demand has increased we must further modernise our approach to connecting everyone to the resources and content that support their learning needs, today and tomorrow.

We will continue to invest in new foundations for contemporary learning, with near-seamless access to information and digital technologies at any time, any place and on any device.

To achieve this, we will transform the way we do business into a more contemporary model that enables educators to build Queensland's future through creative, connected and engaged learners.

Core foundations
Data consumption in Australia **grew by 43%** in the year to June 2017, **over 90%** of that **growth** was via **broadband**



Enhanced collaboration
Collaboration increases **teacher satisfaction** and **student outcomes**

Connected systems
Internet of Things is a \$30b opportunity for Australia's tech industry by **2023**

Digital enablement
90% of future jobs will involve **digital literacy**

Emerging educational technology
Artificial intelligence could **boost the economy** by more than **\$2 trillion**



Core foundations

To provide contemporary education we need contemporary infrastructure and devices.

- New information and data quality to underpin reporting and analysis.
- Remove the burden of repetitive tasks where possible.
- Cloud-based delivery models, where it makes sense.
- Broad device support.

Delivered through:

- uplift and scaling of school and regional networks
- digital enablers and support of learning progression frameworks for students and staff
- a strengthened student, learning and business management ecosystem.

Outcome: Learner growth and learning outcomes enabled by digital investments.

Enabling



Connected systems

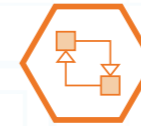
To create a connected world where traditional boundaries of people, systems and distance are removed.

- Educators, learners and staff have transparent and integrated access on all devices.
- Learners can learn at any time, any place and at any pace.
- Digital environments are both secure and seamless by design.
- Communication systems are reliable and support mobility.
- Networks are scaled to support Internet of Things (IoT).

Delivered through:

- modernisation of core systems (including OneSchool) with secure connectivity to third-party services
- improved identity management and security
- automated and connected processes through IoT and artificial intelligence.

Outcome: Enhanced opportunities for educators, learners and staff in quality learning activities.



Enhanced collaboration

To provide secure access to partners, data, applications and services extending our collaborative partnership opportunities with third parties and their online services.

- Improved video, audio, and chat tools for enhanced communication.
- Real-time collaboration to enrich team-based activities.
- Virtual spaces connect like-minded learners, classrooms or study groups, supporting inclusion.
- Using Open Data with strategic partners for improved information and associated services.

Delivered through:

- extending the Systems Interoperability Framework (SIF) standards and continued SIF broker development
- information interoperability and technical standards development
- data hub, analytics and visualisation to increase access to differentiated learning
- market engagement to find opportunities to enhance the online learning experience
- better customer experience
- unified digital and communication channels.

Outcome: Collaborative learning and co-design opportunities through seamless and integrated platform architecture.



Emerging educational technology

To provide educators new ways to engage and excite learners, extending and enriching learning in safe ways.

- Support educators to explore low-risk environments to engage in real-world events and challenges.
- Engaged learners can explore beyond their classroom to new learning environments and richer experiences.
- STEM and creativity further supported and extended within and beyond the school bounds.
- Support efficient and automated opportunities through IoT.
- Differentiated learning plans and adaptive learning supported.
- Provide opportunities to develop technology skills for work readiness in a changing world.

Delivered through:

- augmented learning partners providing rich and new learning opportunities.
- smart assistants to alleviate repetitive tasks
- predictive insights as an extension to current and future systems
- contemporary online solutions that leverage learning progression frameworks.

Outcome: Opportunities are available for real-world experiences to help further develop skills in problem-solving and creative thinking.

Maturing



Digital enablement

To engage with educators and staff to build and demonstrate digital literacy skills and competencies to enable better educational outcomes.

- Educators and staff seamlessly use digital technology in the delivery of targeted curriculum and testing for learners in their classrooms.
- Educators and staff are able to better exploit digital technologies and devices to support learner digital literacy and digital citizenship.
- School leadership teams have the tools to better manage and plan for utilisation and replacement of ICT resources.

Delivered through:

- personal development opportunities to support the uplift of digital literacy
- access to resources that integrate digital technologies into daily lessons
- engagement with principals to plan and deliver a digitally enabled school environment
- extended partnerships with universities.

Outcome: Digital literacy is embedded into daily practice for learners, educators and staff.

Everything we do is supported through:

- safe and secure environments where privacy and information management are central
- innovative third-party services that integrate with our systems and incorporate high-level security and information connectivity
- contemporary consistent user experience enabling seamless interactions.

