Cloud, orchestrating true convergence
Contents

• Overview and context
• Digital disruption in higher education
• Why IT should consider new models
• Convergence in the cloud
• The future

Delivering innovative solutions through our unique talent.
# Major workplace trends and challenges

*Organisations that can adapt and evolve quickly will lead the pack.*

<table>
<thead>
<tr>
<th>Mobility &amp; BYOD</th>
<th>Security</th>
<th>Cloud</th>
<th>Social networking</th>
<th>Pervasive video</th>
<th>Big data</th>
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</thead>
<tbody>
<tr>
<td>How do I manage BYOD on my network?</td>
<td>Who is accessing what from where?</td>
<td>How do I get greater business agility through Cloud computing?</td>
<td>How do I derive business benefit from social networking?</td>
<td>What are the benefits and challenges of immersive collaboration and video?</td>
<td>What is my opportunity for turning big data into big decisions?</td>
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The educational institution: today’s challenge

The NEC approach to the education ecosystem

Business case for change:

Student experience
• Safety and security
• Ease of use
• Higher learning outcomes

Commercial
• Increase revenue
• Reduce cost
• Improve quality
• Change management

Learning space
Campus
Administration
Knowledge
Digital
Mobility
Access
Safety
Security
Identity
Cloud
Services
Managed
Services
Challenge or Opportunity?

“There’s a tsunami coming”

John Hennessey Stanford President
Challenge or Opportunity?

Drivers of Change

- Democratisation of knowledge and access
- Contestability of markets and funding
- Digital technologies
- Global mobility
- Integration with industry

Over the next 10-15 years, the current public university model in Australia will prove unviable in all but a few cases.” — E&Y
Legacy IT Management

Can legacy IT management support rapid changes in the Education Industry?

- Slow to provision services
- Difficult to change
- Complex
- Expensive
- Tightly coupled
- Unsustainable economics

How will IT meet the new organisational drivers?
IT-as-a-Service – Cloud Nirvana?

*Cloud based converged infrastructure drives rapid deployment of IT services*

- Speed and agility of deployment
- Improve business flexibility
- Reduce costs
- Reduce, power, cooling and facilities
- Improve IT operational efficiency
- Alignment of IT with business
The New Style of IT

<table>
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<tr>
<th>Market disruption</th>
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<th>Social</th>
<th>Big Data</th>
<th>Video</th>
<th>Security</th>
</tr>
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</table>

Business Strategy

Future

ICT Strategy
- Service Orchestration
  - Flexible – built to change
  - Aligned to business
  - Service oriented
  - Integrated architecture

BROKERS

Today

Infrastructure Support
- Siloed – built to last
- Not aligned to business
- Legacy applications
- Multi-vendor interoperability

BUILDERS

Context Services

Core Services
True Convergence?

**Convergence**
- Network convergence
- Device convergence
- Infrastructure convergence
- Service convergence
Converged Infrastructure

1. Facilities and Infrastructure
   - Space, Power, Cooling

2. Virtualization and Abstraction

3. Automation and Orchestration

4. Self service portal

5. Catalog and Management

6. Financial Management

7. Platform

8. Applications

9. Security and Compliance

10. Process and Governance
Service transformation through converged infrastructure

*Automation and orchestration - from complexity to simplicity*

- **Architect It**
- **Design It**
- **Where Can We Put It?**
- **Procure It**
- **Install It On-Demand**
- **Configure It**
- **Secure It**
- **Is It Ready?**

**Service-Oriented**

**Self-Service; Automated Provisioning**

**Elasticity (Capacity-on-Demand)**
Example benefits
The impact of cloud computing is extending into driving business transformation

- Changing the economics of IT
- Automating service delivery
- Exploiting standardisation
- Rapidly deploying new capabilities

- Creating new business models
- Supporting new levels of collaboration
- Enabling speed and innovation
- Re-engineering business process

The emerging agenda…….
Contextually aware service convergence

Workflow

Application Driven

Service Brokers

Service elements

Data element

World of Many Clouds

Private Services

Public Services

Service elements

Data element

Highly Customised Service

Business Outcome

Community Services

Hybrid Services

Public Services

Workflow Business Outcome

Outcome

Application Driven

Service Brokers

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Highly Customised Service

Business Outcome
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