

Fujitsu World Tour 2019

Fujitsu Innovation Gathering

FUJITSU

shaping tomorrow with you

Human Centric Innovation

Driving a Trusted Future

The Big Question?

Can we address the digital skills challenge?

Our speakers today

Ash Merchant - Fujitsu Director of Education

Ian McCormick - Director of IT, Derby College

Pat Carvalho - Principal - Harrow College and Deputy CEO at HCUC

Jacqui Garrad - Managing Director at Bletchley Park Science & Innovation

Digital skills and why it's important



Recent research* found that a skills gap could cost the UK £141 billion in GDP growth

*www.consultancy.uk

Why are facing this challenge?

- Technology and the digital era is moving at an unprecedented pace
- People don't have access to the right resources
- The education sector is no different.

A digital skills gap within Education

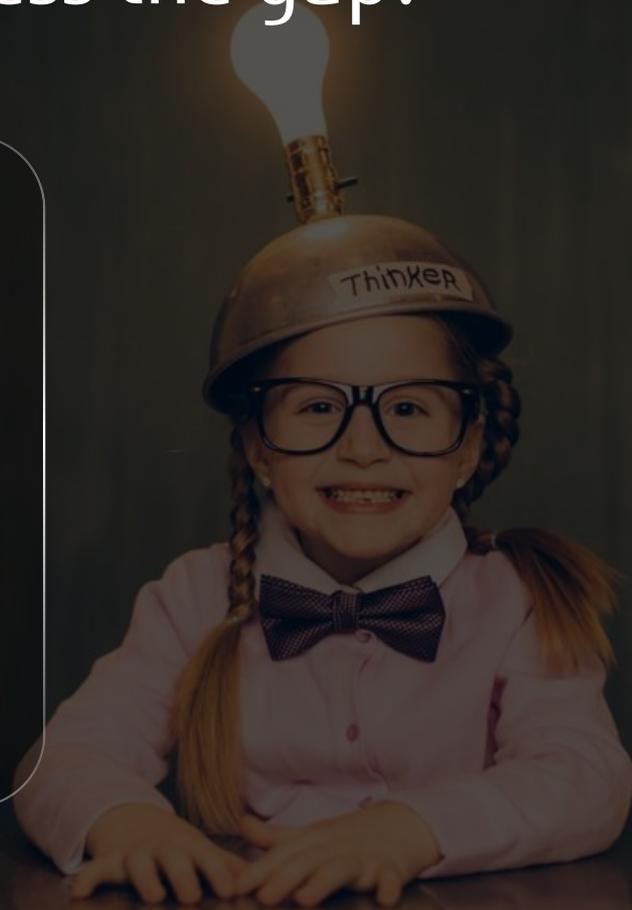
- Teachers have strong ambitions
- However 50% have find hard to keep pace*
- It not just teachers 11.3 million** adults in the UK do not have the full range of basic digital skills.

*Fujitsu Research Maps Out Road to Digital Learning

** www.gov.uk/government/news/adults-to-benefit-from-digital-skills-overhaul

How do we start to address the gap?

- It starts in the classroom
- We need to inspire young people
- To do this we need to support our teachers



We must empower the teacher

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Fujitsu's first step to supporting our teachers



Inspiring young people

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Digital Champions

A collective responsibility

Government has a responsibility

Technology companies
have a responsibility



Fujitsu Digital Champions

Ian McCormick, Director of IT
Derby College

Digital Transformation

Business-model or
process
transformation



Transforming staff and
learner experience



Digitalising business
operations and processes



Curriculum development
and innovation



Why create Fujitsu Digital Champions?

Challenges:

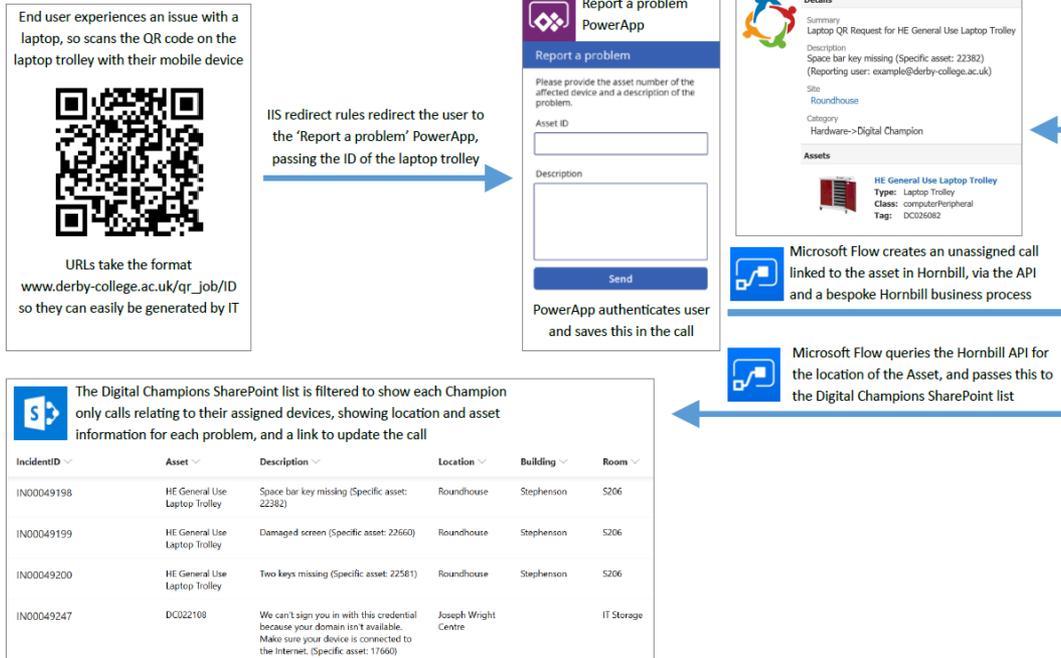
- Strategic objectives – innovation in the classroom, embedded technology for teaching
- Laptop trolley logistics – not being put in the right trolley, not being plugged in to charge up for the next person, faults not being reported
- Investment in the classroom of the future.

Benefits – DCG, Students, Fujitsu

- **Collaborative working** – Project based work with mentors and support from ILT and IT
- **Digital Skills** – Embracing technology and having an insight into emerging technologies from Fujitsu and at events and understanding what Fujitsu do
- **Digital Influencer** – Fujitsu digital champions recruited as advisers and advocates within the teaching teams
- **Free Laptop** – Enrichment project funding and Fujitsu sponsorship enabled us to issue 6 laptops to the champions
- **Laptop performance and utilisation** – Improvements to the utilisation and in-class performance of the laptops was key to building up trust and confidence that they would work. Fault-reporting improvements.

Laptop maintenance

DCG Fujitsu Digital Champions—Logging a call (End user)



Impact

- **Collaboration** – Advertising campaign to raise awareness of their role and the initiative
- **Projects** – Kacper presented a plan for a DCG app, which we expanded upon and created a strategic options paper that received Exec support and we now have an app to be launched this September
- **Laptops** – faults get reported, the utilisation of the laptops increased, staff confidence is higher
- **Brand awareness** – The students know about Fujitsu, they understand the impact an IT company can have in industry, they've seen how technology can drive innovation and change.

Digital Champions





DCG

FUJITSU

DIGITAL CHAMPIONS

Conclusion

The project has been successful.

Learning curve for all involved and a rigorous framework is required to ensure that the BAU doesn't get in the way and detract from the student experience.

We need more of them.

Delivering Future

Pat Carvalho, Principal
Harrow College and Deputy CEO at HCUC



West London Institute of Technology Delivering Future Higher Level Skills



A merger between Uxbridge College and Harrow College

By Year 5 have a total cohort of 1000+ new learners...

...substantial growth in **digital**, engineering and construction

...including growth in **apprenticeships** at all levels.

Around **67%** of learners will be studying at **L4/5**, **13%** at **L6+** and **20%** at **L3**...

... with **taught** (classroom) provision accounting for about **80%** and **apprenticeships** the remainder...

...CPD to be developed further...

Vision

West London Institute of Technology

At the heart of this entrepreneurial employer-led IoT will be the concept of digital skills and 'design engineering' incorporating a multidisciplinary approach to develop the future skills of individuals to enable them to work for and solve real world problems for employers to improve productivity and add economic value in west London and London.

- To significantly increase the number of learners with higher level technical skills, which are crucial to national, regional and local productivity growth
- To attract a wide range of learners to maximise the social as well as the economic impact of this new type of institution
- To improve the occupational competency of learners to meet the needs of employers now and in the future
- Create a prestigious and distinct identity
- Work collaboratively to harness the assets, resources and expertise of employers and FE and HE providers
- Be financially viable and resilient

Aims

West London Institute of Technology





How will this IoT be employer-led

"Strong employer engagement in governance and leadership as well as the design and delivery of the curriculum" – Department of Education

Employer-led approach



West London Data: Qualification Level Ranking by Annual Openings 2015-2022

	L4+
ICT Practitioners & Users	1517
ICT for Users	173

Employer Skills Survey 2017 data on skills shortages in London

	%
Vacancies across digital are SSVs	32
Upskilling employees' digital skills is a medium or high priority for businesses	73

Curriculum

West London Institute of Technology

33%

Engineering

52%

Digital

15%

Construction



Curriculum

West London Institute of Technology

Apprenticeships, Full and Part-time Programmes

Level 3

Level 4

Level 5

Level 6

Digital

- Delivering programmes with units modified to meet employer needs
- Core Skills delivered across all programmes
- Opportunities for applied research for employers
- Use of technology to deliver programmes



Key Performance Indicators

West London Institute of Technology

- Sector Employment
- Career progression
- Higher Education

Digital Skills through Fujitsu Innovation Hub

Jacqui Garrad, Managing Director
Bletchley Park Science & Innovation

A close-up photograph of a mechanical computer rotor assembly. The image shows several rotors of different colors (yellow, red, green) arranged in a row. Each rotor has a circular face with a ring of letters around the perimeter and a central mechanical mechanism with various gears and levers. The background is dark, making the colorful rotors stand out.

Housing the worlds largest collection of working
computers ranging from the 1940's to the present day

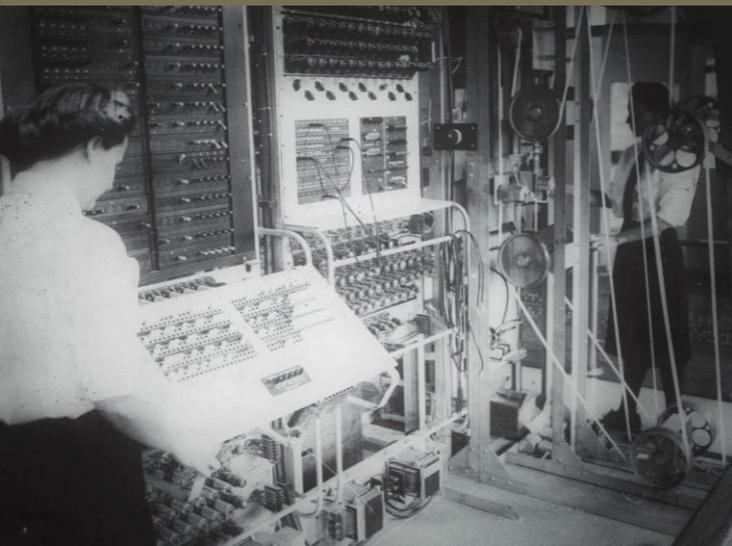


The National Museum of Computing

- Housing the world's largest collection of working historic computers including:
 - World famous code-breaking machines
 - The world's oldest working programmable computer
 - Fujitsu's heritage in the Large Systems Gallery
 - Examples demonstrating the rise of personal computing
 - Examples demonstrating the rise of mobile computing and the internet

We use examples our digital heritage to help develop skills and inspire people to work towards a better future

One of England's top 100 'irreplaceable places'



Fujitsu Hub – The impact

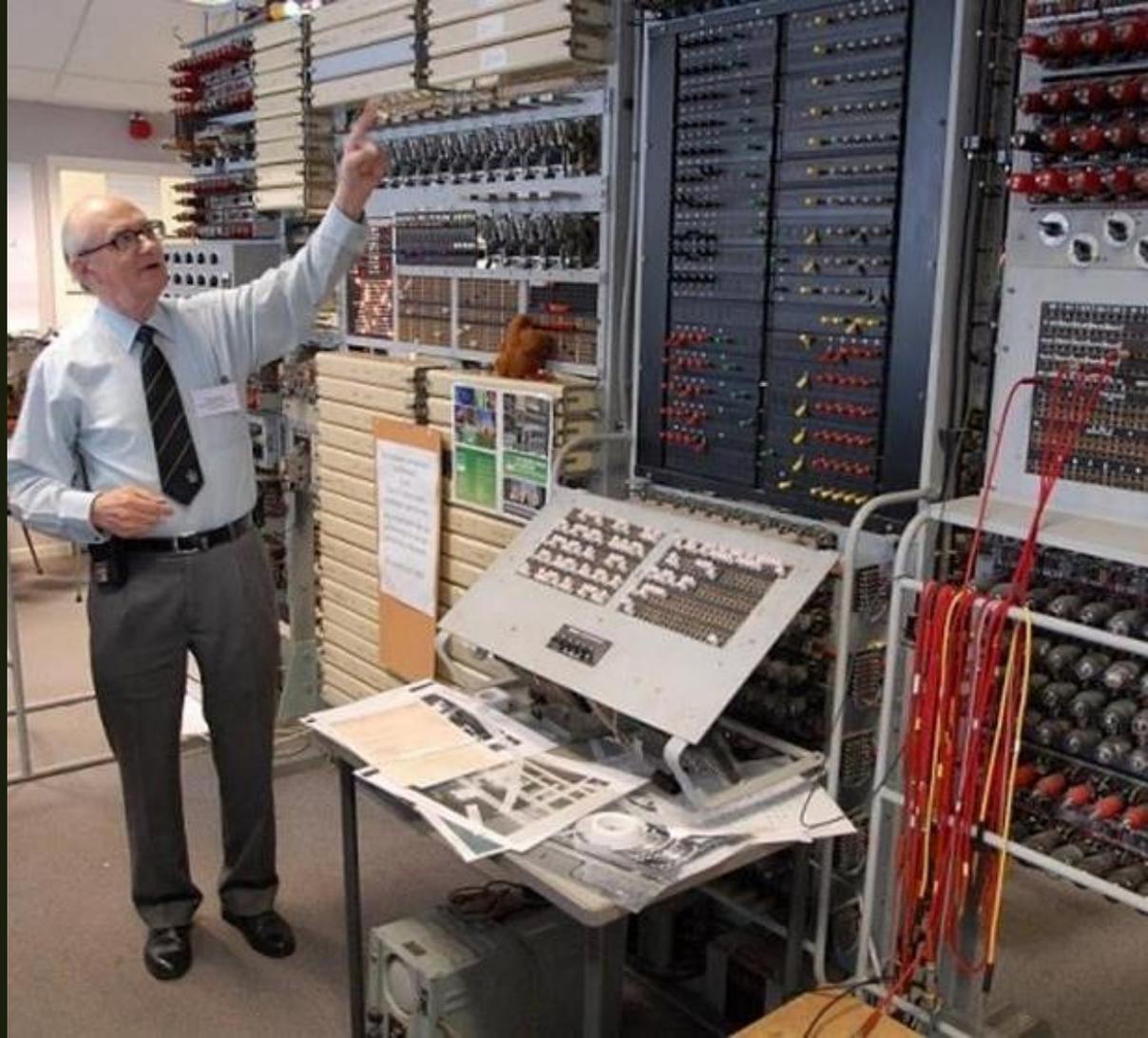
- ▶ The difference you have made since July 2016:
 - ▶ 30,000 general visitors
 - ▶ 15,000 students in the education programme
 - ▶ 12,000 corporate visits
 - ▶ 15,000 Family learners

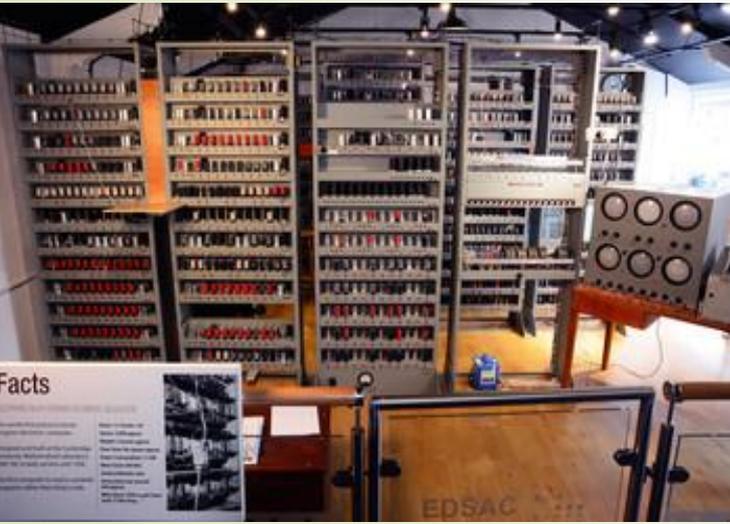
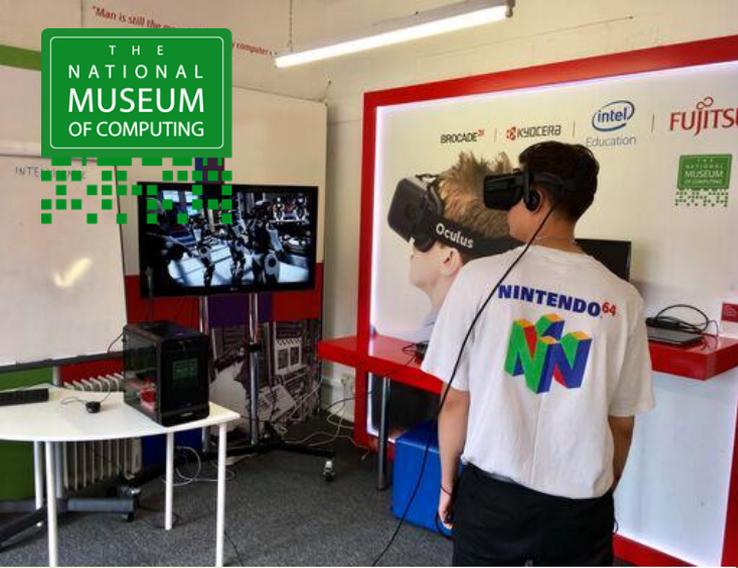


The hub has also helped us facilitate and support:

- Sponsors, groups and partners
- Overseas education visits
- PHD Student sessions

www.tnmoc.org





Fujitsu Hub – digital skills for the community

- STEM Bytes
- Teacher Training
- Home Educators' Days
- Corporate Events and Challenges
- Lectures
- Members Days
- Volunteer Days



Investing in the future

Education Programme Revamp

- New additions to the collection
- Renewing our links to the curriculum
- Hands On
- Building on our 'Greatest Hits'



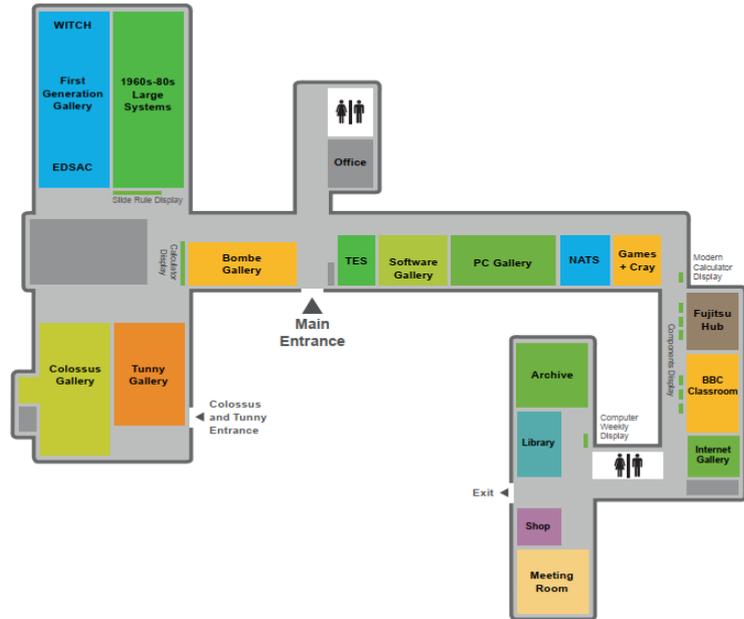
Powering the Past: Fueling the Future

- A full computer science day
- Themed Tours
- Hands on Workshops
- Big Numbers, Great Ideas Maths Investigation Day
- Afternoon Visit
- Mission: STEM



Plan of The National Museum of Computing

“It’s like a Tardis ...”





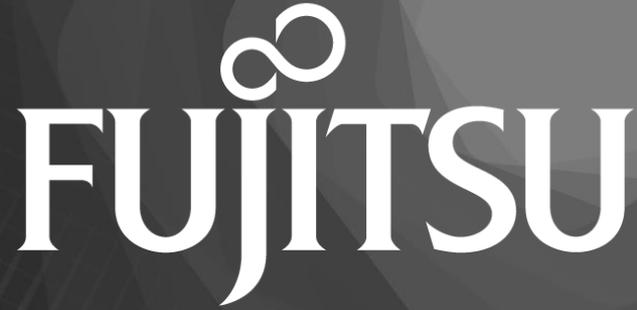
We look forward to welcoming
you to our fabulous museum

www.tnmoc.org

Up next...

15.30 – 16.15

Breakout Session 3 or a visit to the Demo Center



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