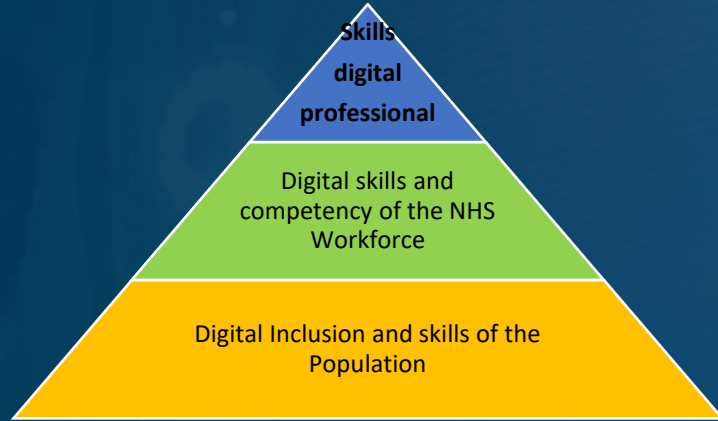




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## Health Informatics

a growing and transformative profession  
Supporting and professionalising the workforce  
that is spearheading the  
Health & Care Digital Revolution

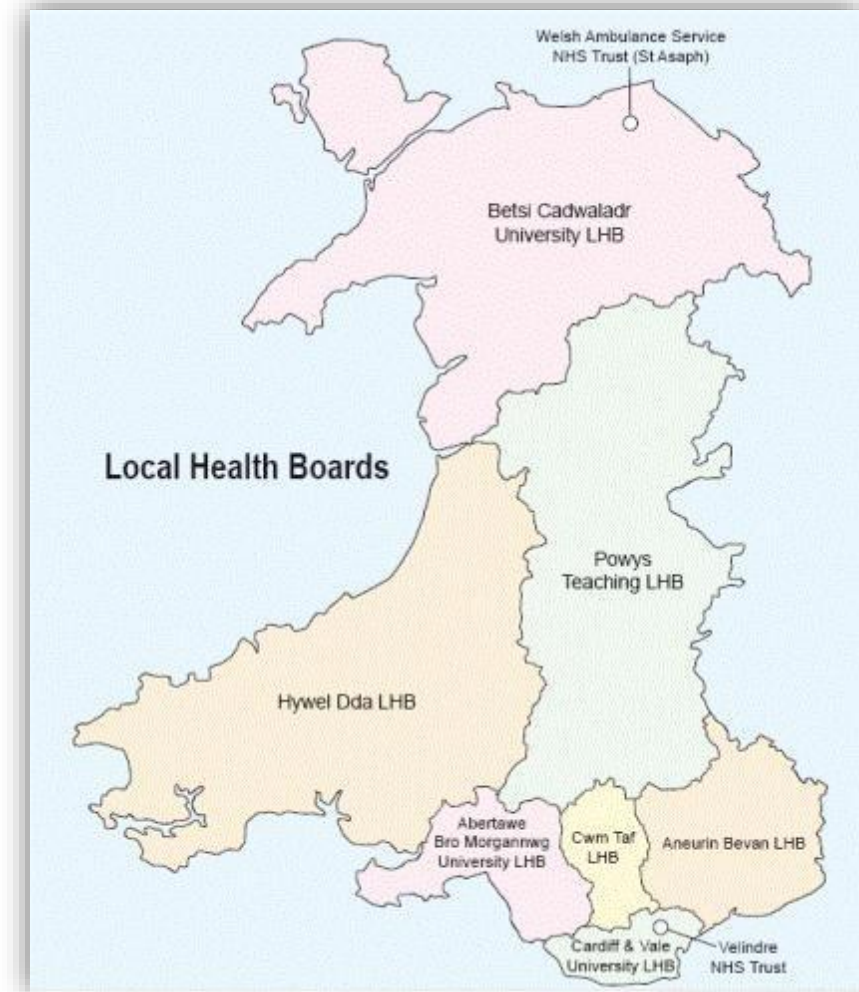
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# Health in Wales

- 3 million citizens
- 1 in 3 with a chronic condition
- 80,000 NHS staff
- 2,000 GPs
- 700 pharmacies
- 135 hospitals
- 7 fully integrated Health Boards
- 3 National Trusts (Cancer, Public Health, Ambulance)
- One Welsh Government





# Policy Drivers

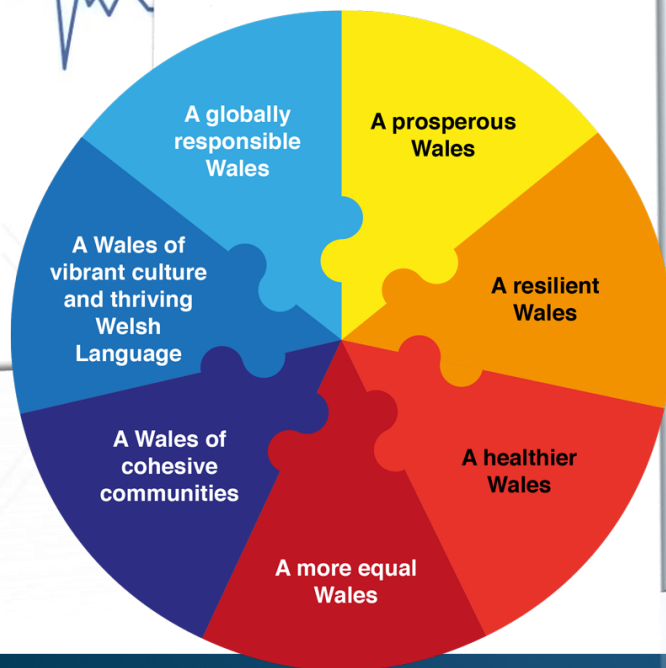
Llywodraeth Cymru  
Welsh Government  
www.gov.wales

## Informed Health and Care

A Digital Health and Social Care Strategy for Wales

GIG CYMRU NHS WALES

ADSS Cymru  
Leading Social Services in Wales  
Yn arwain Gwasanaethau Cymdeithasol yng Nghymru



### Our vision

**Information for you**  
People will be able to look after their own well-being and connect with health and social care more efficiently and effectively, with online access to information and their own records; undertaking a variety of health transactions directly, using technology, and using digital tools and apps to support self care, health monitoring and maintain independent living.

**Supporting professionals**  
Health and social care professionals will use digital tools and have improved access to information to do their jobs more effectively with improvements in quality, safety and efficiency. A 'once for Wales' approach will create a solid platform for common standards and interoperability between systems and access to structured, electronic records in all care settings to join up and co-ordinate care for service users, patients and carers.

**Improvement and innovation**  
The health and social care system in Wales will make better use of available data and information to improve decision making, plan service change and drive improvement in quality and performance. Collaboration across the whole system, and with partners in industry and academia, will ensure digital advances and innovation is harnessed and by opening up the 'once for Wales' technical platform allow greater flexibility and agility in the development of new services and applications.

**A planned future**  
Digital health and social care will be a key enabler of transformed service in Wales. Joint planning, partnership working and stakeholder engagement at local, regional and national level will ensure that the opportunities and ambitions outlined in this strategy are prioritised, with planning guidance issued by Welsh Government in 2015.

Information for you	Supporting professionals	Improvement and innovation	A planned future
<p>Connect with health &amp; social care.</p> <p>Using technology, digital tools and apps.</p> <p>Look after your own well-being</p>	<p>Health &amp; Social Care Professionals use digital tools to do their jobs more effectively.</p> <p>'Once for Wales' Creates solid platform between systems.</p>	<p>Industry academia</p> <ul style="list-style-type: none"> <li>Improve decision making</li> <li>Better use of data</li> <li>Plan service change</li> <li>Improve quality and performance.</li> </ul>	<p>Joint planning, partnership working &amp; stakeholder engagement ensure opportunities are prioritised.</p>

Llywodraeth Cymru  
Welsh Government

## A Healthier Wales: our Plan for Health and Social Care

our Plan for Health and Social Care  
A Healthier Wales?

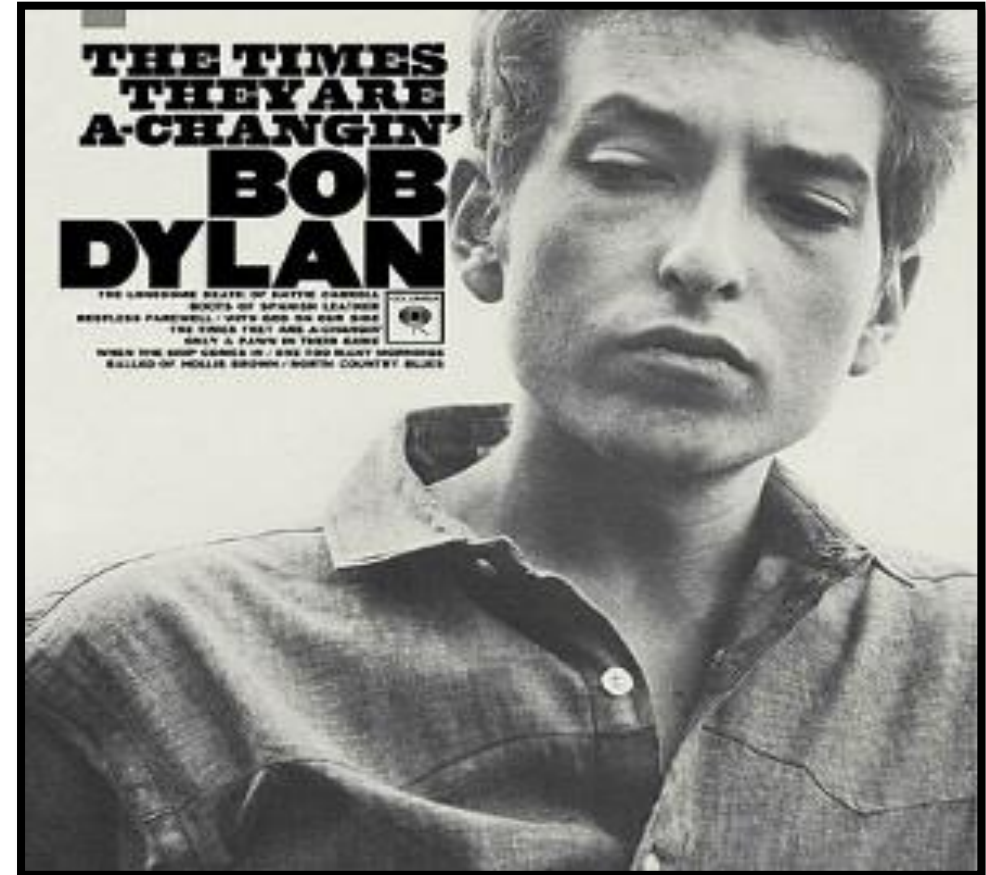


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# Health Informatics staff have moved from the lost tribe to the backbone & centre stage – must now be the **TRUSTED PROFESSIONAL EXPERT**



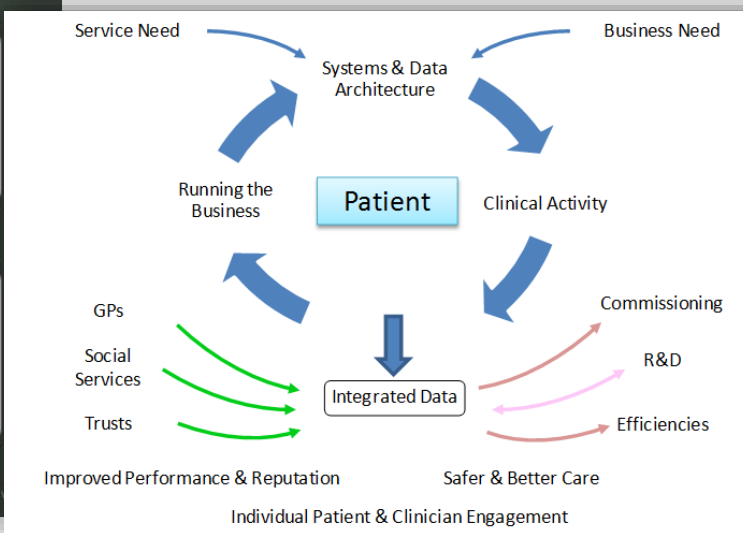
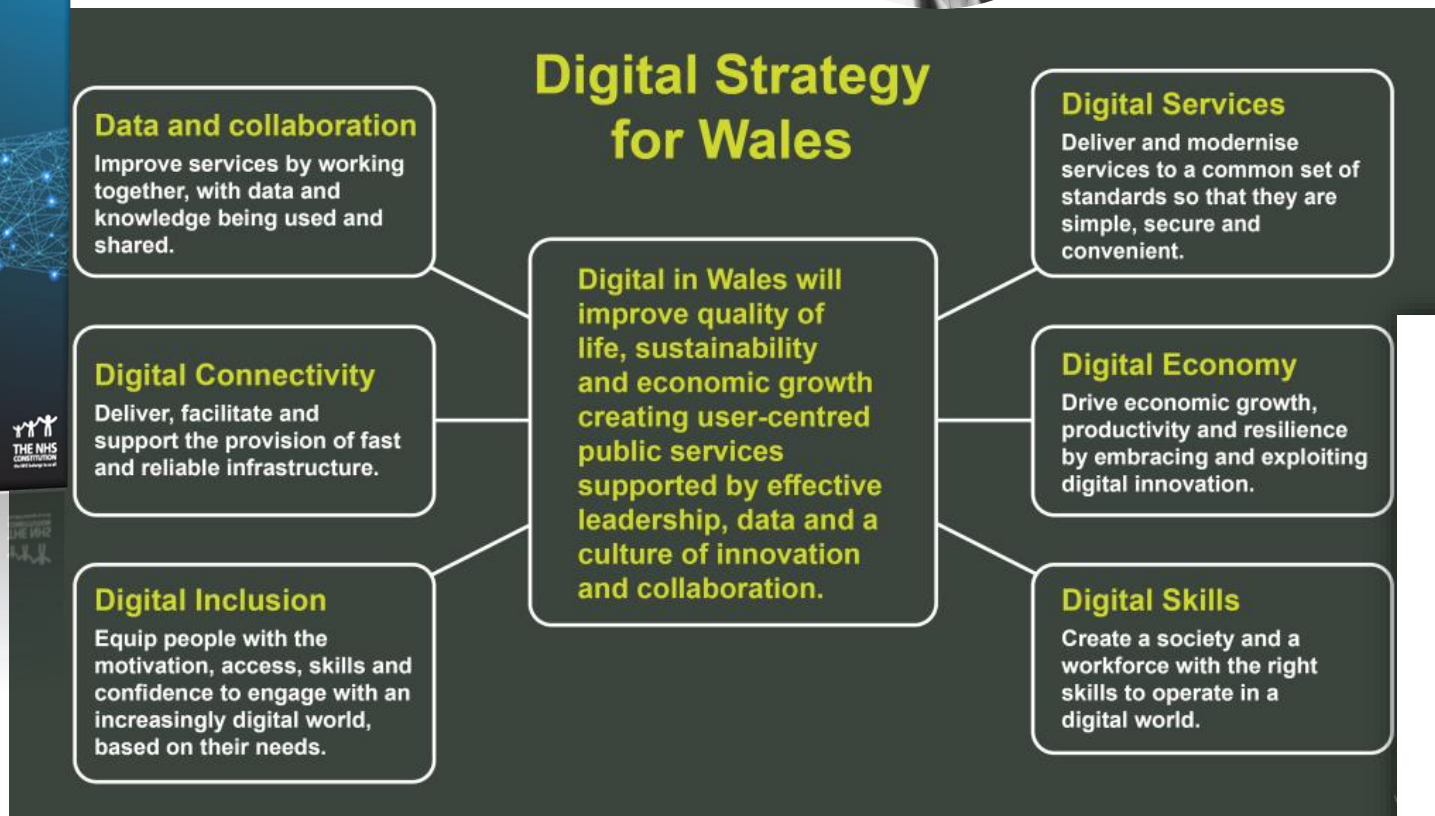
.....Within a complex environment



*“Implementing health IT is one of the most complex adaptive changes in the history of healthcare, and perhaps of any industry.” Prof Bob Wachter*

*“It’s not just about computers. Let’s just be clear about that at the start”*

*Lee Walters MS*





Three-year-old heart patient Samuel Starr died after NHS system 'failure'

New hospital computer system failed to book Samuel a scan for 20 months after major cardiac operation, rules coroner



Samuel Starr died after the NHS failed to offer vital scans for his heart condition. Photograph: SWNS.com



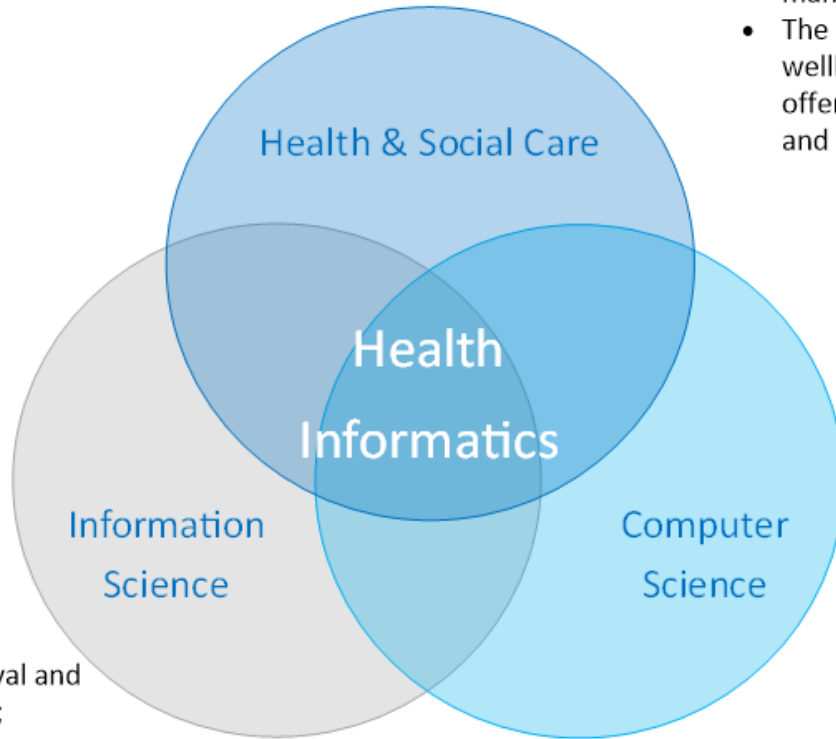
# COVID-19

**Recent patient covid survey showed: A lack of trustworthy information and conflicting guidance emerged as a key concern and barrier to seeking appropriate medical help.** Hence the requirement for evidence-based research to assist the citizens of Wales to make those crucial decisions.

**Digital ways of working are becoming increasingly used in health and social care sectors that require staff to complete more transactions online to support safe patient/citizen care delivery.**

**Build on the acceleration of using digital to underpin service transformation**

# What is Health & Care Informatics?



- The prevention, treatment and management of illness;
- The promotion of health and wellbeing through the services offered by the medical, nursing and allied health professions.

- The collection, classification manipulation, storage, retrieval and dissemination of information;
- The application and use of knowledge in organisations;
- The interaction between people, organisations and information systems.

- The theoretical foundation of information and computation
- Together with their application in computer systems.

## Health and care Informatics is fundamental:

To the safe delivery of patient care, and  
For the maintenance of public trust in the secure handling of personal health and care information





# What is Health and Care Informatics?

- Information & Communication Technology
- Information Management
- Knowledge Management
- Information Governance
- Clinical Informatics
- Health Records & Coding
- Education & Training
- Project & Programme Management
- Informatics Service Management

## Common Misconceptions

Occupation - not profession

Nerds - not experts

Backroom - not boardroom

Boxes and wires - not service transformation

Screwdrivers - not stethoscopes

Problems - not solutions

IT - informatics



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ATHROFA GWYBODAETH DDIGIDOL CYMRU  
WALES INSTITUTE OF DIGITAL INFORMATION

**“accelerating the use of digital  
technology to improve the  
healthcare of Wales  
by putting the person at its core”**

**Professionalisation, Skills  
and Academic Development**



# Digital Health & Care Wales

Delivering digital services for modern patient care in Wales by working in partnership with other NHS Wales organisations. We aim to deliver the 'once for Wales' approach where records are created, held and accessed electronically. We also analyse data, putting vital information in the hands of the people who use it and supply over 70 operational IT services, including the technology infrastructure.

Thousands of NHS Wales staff use DHCW technology services every day to care for Welsh patients, This means doctors, nurses and health staff have each patient's information to hand where and when its needed, whether the patient is being seen at the GP practice, an outpatient appointment or for emergency or elective care.

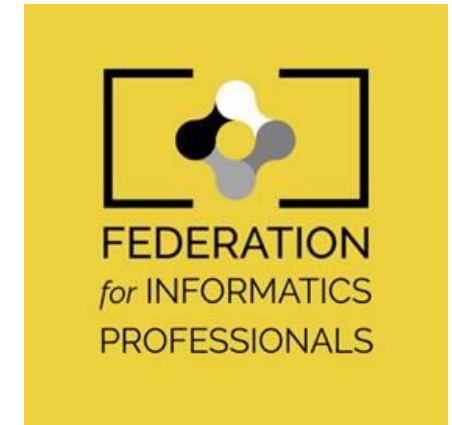


## Professionalism for better health and care

The Federation for Informatics Professions, FEDIP, is the only public register for all informatics professionals in the UK dedicated to delivering better health and care through the advanced use of technology.

Now, more than ever, we need to have our NHS colleagues working in digital being recognised for the life-changing work they do to support front-line staff.

By evidencing and validating your skill and knowledge, we can begin to shape the face of digital transformation in health and care, increase the public's awareness of informatics and create a better healthcare system for you, your family and for society.







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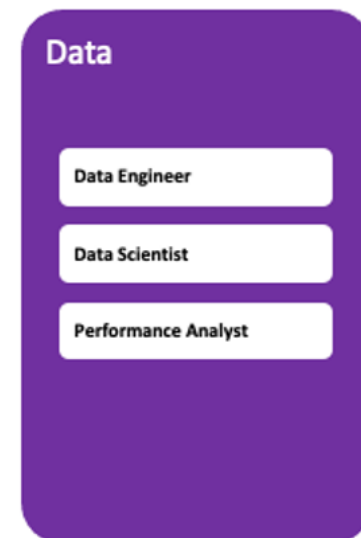
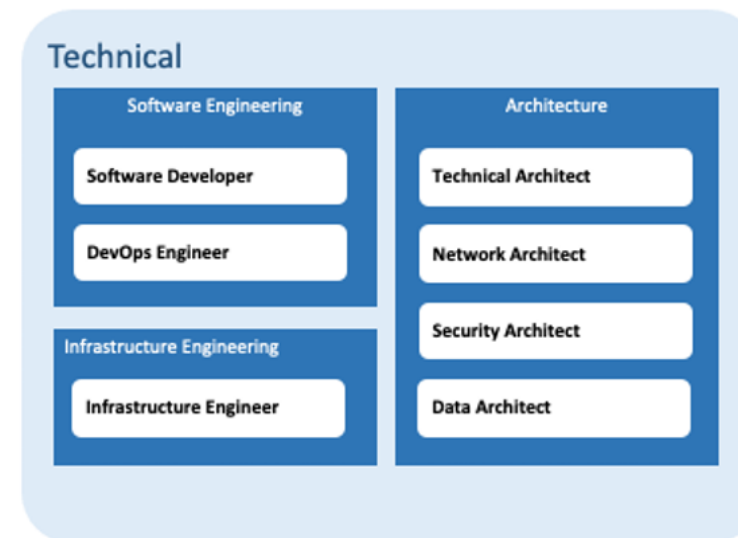
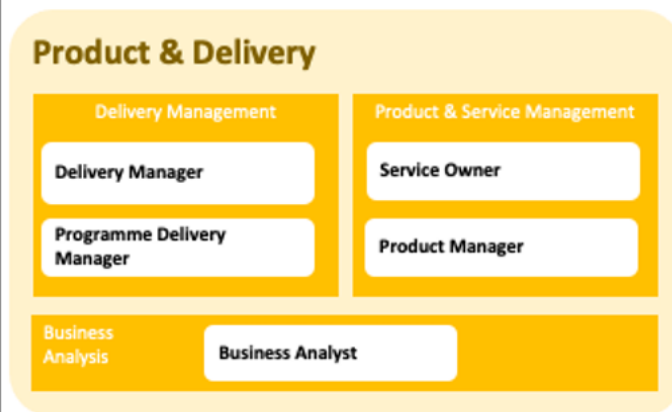
Health Informatics	Level 2
Health Informatics	Level 3
Health Informatics	Level 4
Applied Software Engineering	Level 4 - Level 6 Digital Degree Apprenticeship
Applied Data Science	Level 4 - Level 6 Digital Degree Apprenticeship
Applied Cloud Development	Level 4 - Level 6 Digital Degree Apprenticeship
Applied Cloud Computing	Level 4 - Level 6 Digital Degree Apprenticeship
Applied Cyber Security	Level 4 - Level 6 Digital Degree Apprenticeship
Digital & Technology Solutions	Level 4 - Level 6 Digital Degree Apprenticeship
Digital & Technology Solutions (Cyber Security)	Level 4 - Level 6 Digital Degree Apprenticeship
MSc - Digital Skills Framework	Level 7
Masters of Research	Level 7
Masters of Research	Level 7
PhD	Level 8

# Digital, Data and Technology Profession Capability Framework

Digital, data and technology (DDaT) roles in government and the skills needed to do them.

## DDaT Cluster View – Job families and Generic roles (2020)

From original work by UK Public Sector organisations







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Professionalism is not a label you  
give yourself it's a description you  
hope others will apply to you  
David Maister

Thank You  
Diolch yn fawr

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