



NDR

Adnodd Data Cenedlaethol
National Data Resource

What is the NDR?

Illustrated through
representative case studies



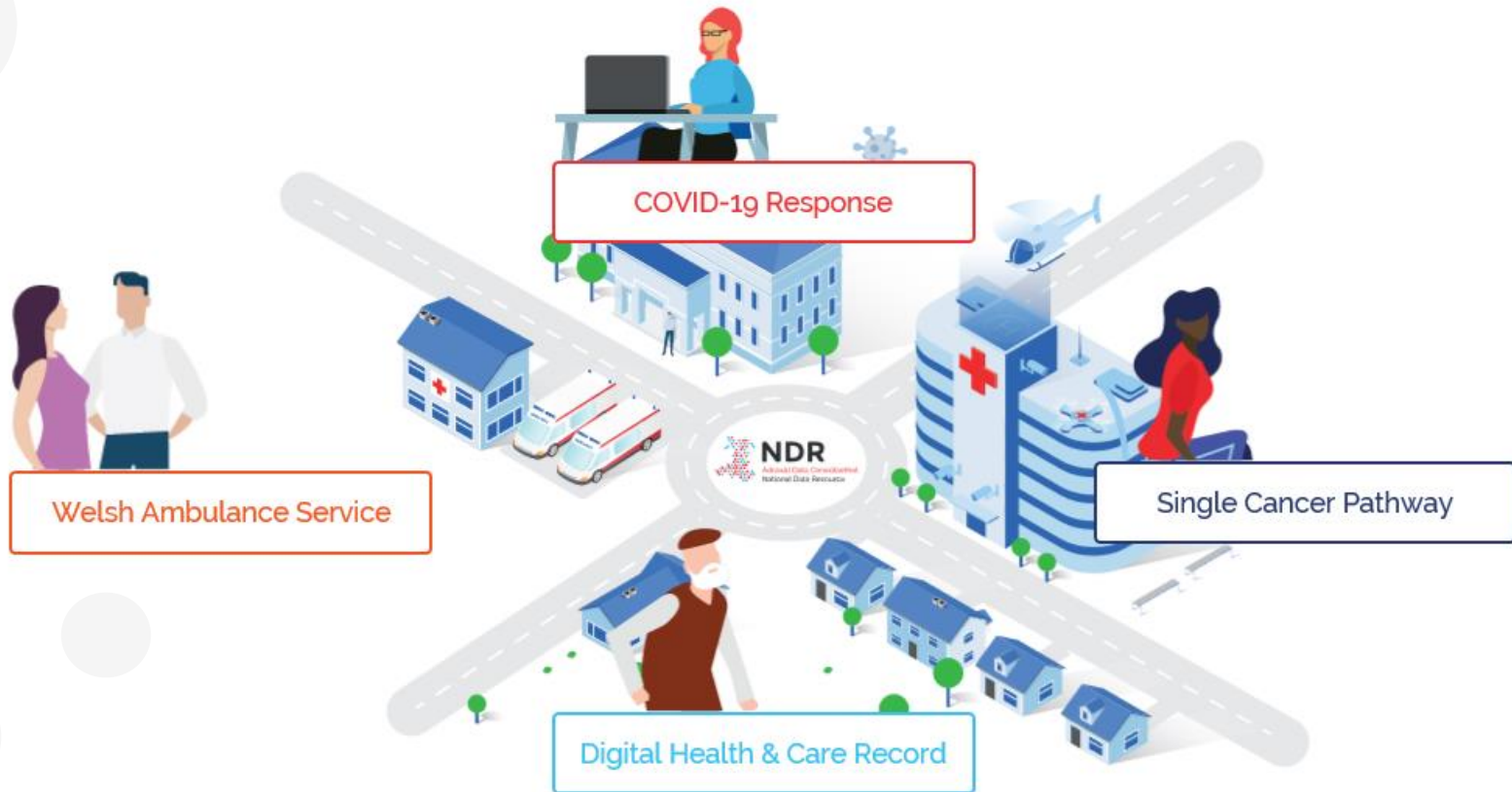
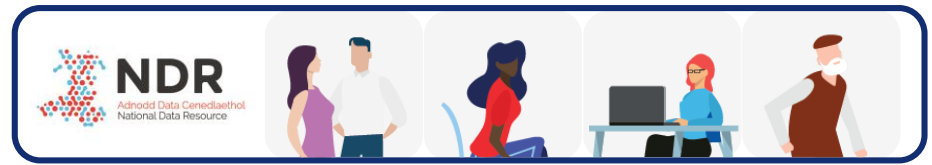
What is the NDR?

The National Data Resource (NDR) Programme is a strategic initiative to help transform health and care in Wales through a more connected and collaborative use of data. The Programme will enable users to have access to the right data and tools, at the right time, to make well informed decisions.

What does this mean for me?

From nurse to care worker, clinician to analyst, government official to Welsh citizen, the NDR will underpin important health and care data initiatives across Wales for years to come.

Explore how the NDR can be used to support health and care across Wales. We've selected some representative case studies to illustrate the power of the NDR.



How does the NDR support the Welsh Ambulance Service?

The Welsh Ambulance Service Trust (WAST) is proud to be one of the most advanced ambulance services in the world serving 3 million people across Wales. With a growing population in Wales and increasing health risk factors among them, WAST is utilising data science to help improve service delivery, planning and forecasting and most importantly - patient care.



How will the NDR help?

- 1. Supporting automation** - the NDR will help automate processes such as identifying and suggesting the optimal ambulance to send to an incident or making sure the right information is made available to ambulance staff without the need for breaks in the chain.
- 2. Improving efficiency** - WAST operates over a vast and varied geographic area covering millions of people. Through the intelligent use of data, the NDR can help identify and suggest areas where processes could be improved or bottlenecks removed.
- 3. Improving emergency planning** - providing intelligence to enable ambulance resources to be deployed ahead of time in a targeted manner to reduce waiting times.
- 4. Improving patient experience** - using the latest technology to interact with patients and keep them informed for emergency and non-emergency patient transport.
- 5. Creating research assets** - helping generate ideas from researchers and scientists on how to improve patient outcomes and experience and ensuring WAST remains up to date with the latest evidence-based practices.

How does the NDR support the Single Cancer Pathway?

The Single Cancer Pathway (SCP) is a way to report cancer waiting times in a unified and straightforward manner from the point at which a patient is suspected to have cancer through to when they receive treatment. It should help improve the patient experience by improving early diagnosis and reducing waiting times. As part of SCP there will be programmes to improve service delivery by unblocking bottlenecks from the system, better allocating resources and improving overall data exchange between providers.



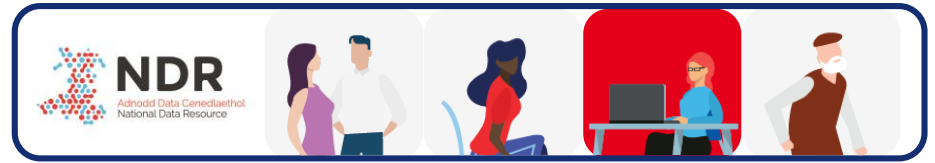
How will the NDR help?

- 1. Improved planning and allocation of resources** - the NDR has a rich pool of data and information across health and care settings which can be used to help analysts and health boards make better planning and resourcing decisions.
- 2. Precision medicine** - making resources available to researchers and scientists to support the development of a vaccine and other treatments.
- 3. Improving care coordination across settings** - responding to COVID-19 has supercharged the importance of effective information sharing between health and social care. The NDR can enable this.
- 4. Improving emergency planning** - having real-time information available through the NDR has been critical in assessing where resources from a wide variety of public services should be made available.

How does the NDR support the COVID-19 response?

The COVID-19 pandemic has changed the world and people's lives as we know it. The NDR has played an important role, and can play an increasingly significant one, supporting key partners in the Welsh response, by identifying and supporting shielding patients, modelling the spread of the virus to support decision makers, and helping track and trace to reduce the spread of the virus.

At all levels, NDR data can be used by key partners to inform and assess key decisions about the response, helping to steer the nation through the pandemic and prepare for the future.



How will the NDR help?

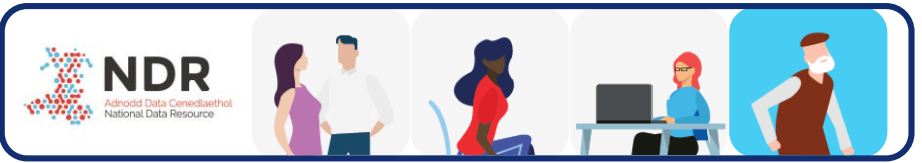
- 1. Improved planning and allocation of resources** - the NDR has a rich pool of data and information across health and care settings which can be used to help analysts and health boards make better planning and resourcing decisions.
- 2. Precision medicine** - making resources available to researchers and scientists to support the development of a vaccine and other treatments.
- 3. Improving care coordination across settings** - responding to COVID-19 has supercharged the importance of effective information sharing between health and social care. The NDR can enable this.
- 4. Improving emergency planning** - having real-time information available through the NDR has been critical in assessing where resources from a wide variety of public services should be made available.



How does the NDR support the Digital Health & Care Record?

Digital technologies and online services have become part of our daily lives. Having good information which drives better decision making is key to delivering an excellent service to patients and improving their care.

The Digital Health & Care Record will create a trusted and linked 'master' record for patients, a single source of the truth that can be used across care settings to minimise duplicate data collection processes, make relevant information available when required and help reduce slow paper based transfer of information. These are just a small number of benefits that can be derived from the Digital Health and Care record.



How will the NDR help?

- 1. Improving patient experience** - patients increasingly want more transparency regarding how their care is organised, wanting to be more involved and made aware of how they can monitor and manage their own care. This can be realised through patient applications that utilise the Digital Health & Care Record, such as the Patient Portal.
- 2. Improving care coordination across settings** - having a Digital Health & Care Record across care settings will help care providers understand patients better and reduce the burden of data collection every time a patient interacts with a care provider. If the social care sector knows the activity of the Health sector they can coordinate efforts and make better joined up decision for their patients.
- 3. Supporting paperless working** - information transferred on paper is slow, creates an administrative burden and is more prone to unintended human error. Digitising the health and care record will make it easier and faster to record patient information, share this with the right providers and improve allocation of resources. It is also better for the environment and less prone to error.
- 4. Enabling more care close to home** - when key services know more about the patients they provide services for in advance of speaking with them, they can improve their decision making. Patients increasingly want care closer to home and the NDR can enable this by making information available more rapidly to the areas that require them.