Workforce Planning in the Cloud

Christopher Wroath
Director of NES Digital, NHS Education for Scotland

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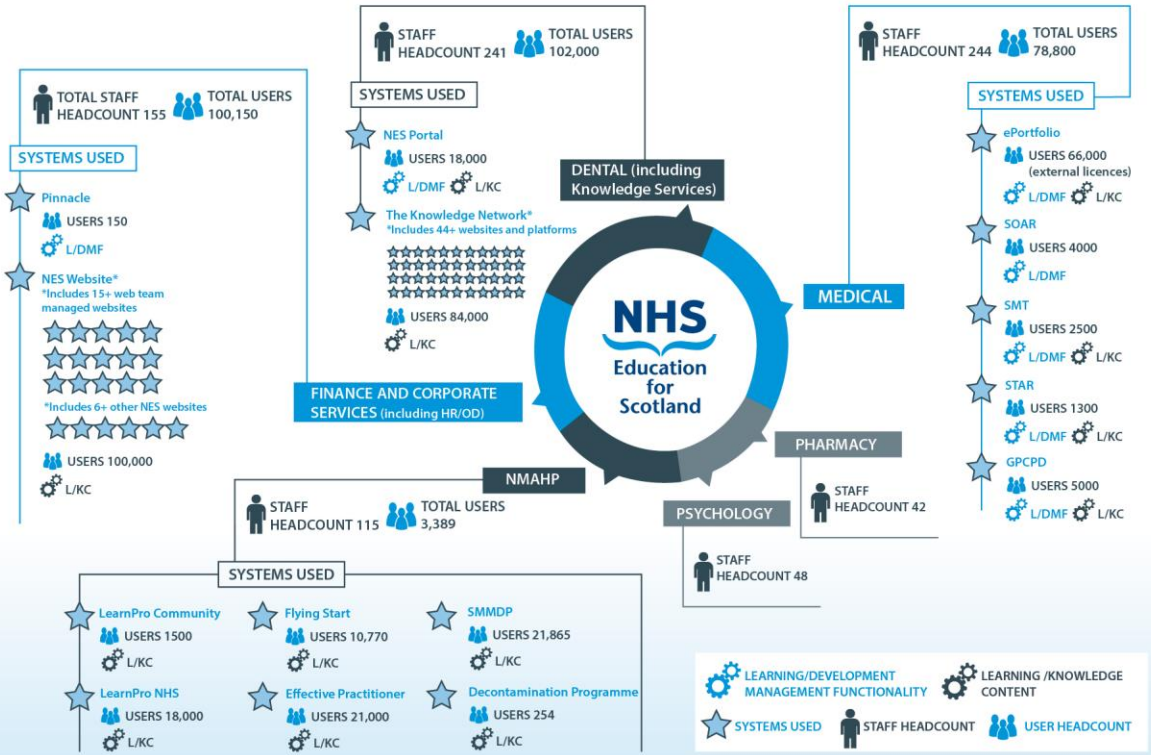

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Change the way people work

NHS Education for Scotland

Everything as a Service

nesdigital Cloud

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Agile Process

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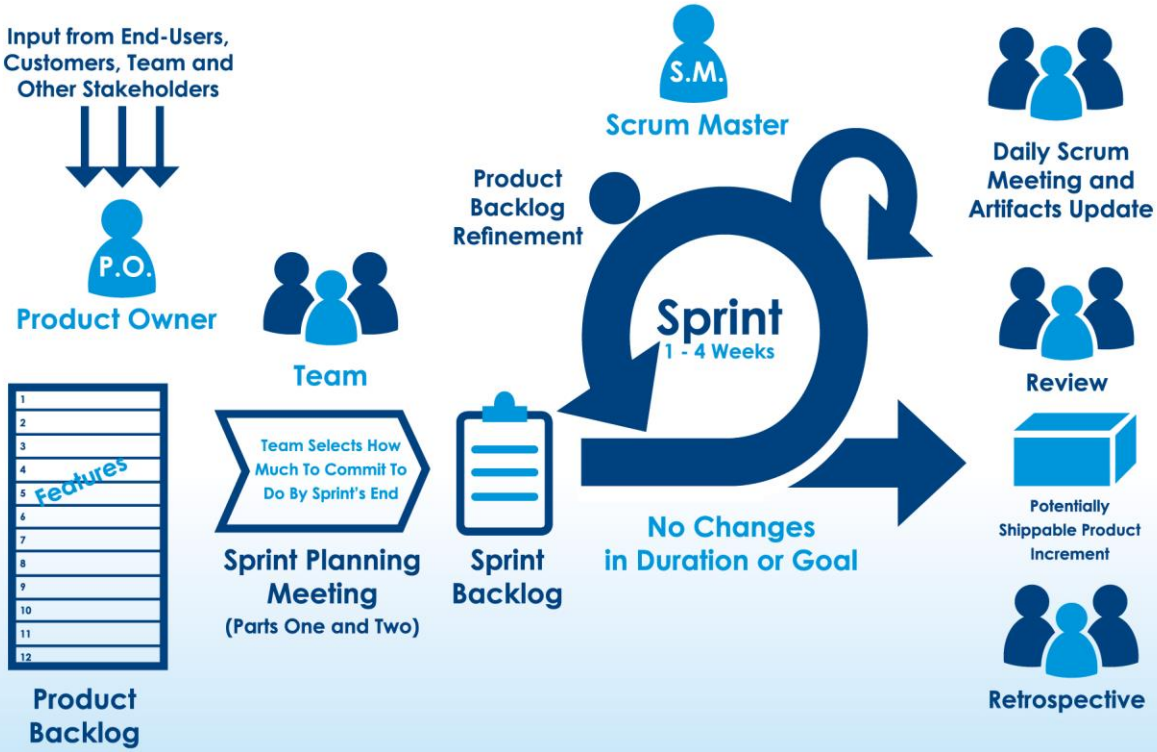

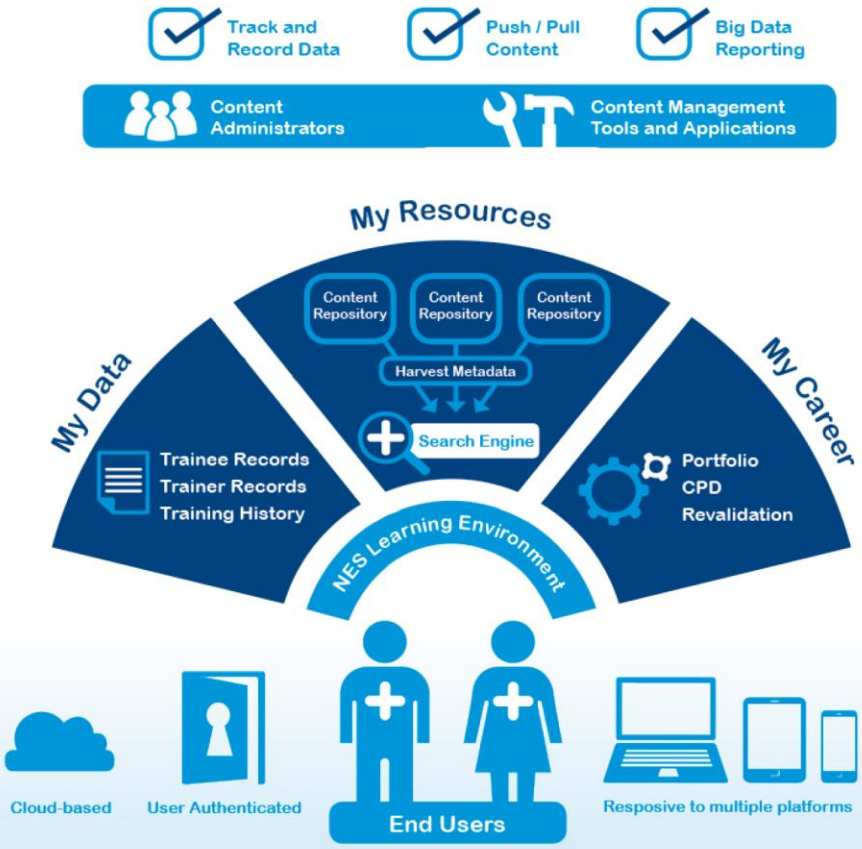

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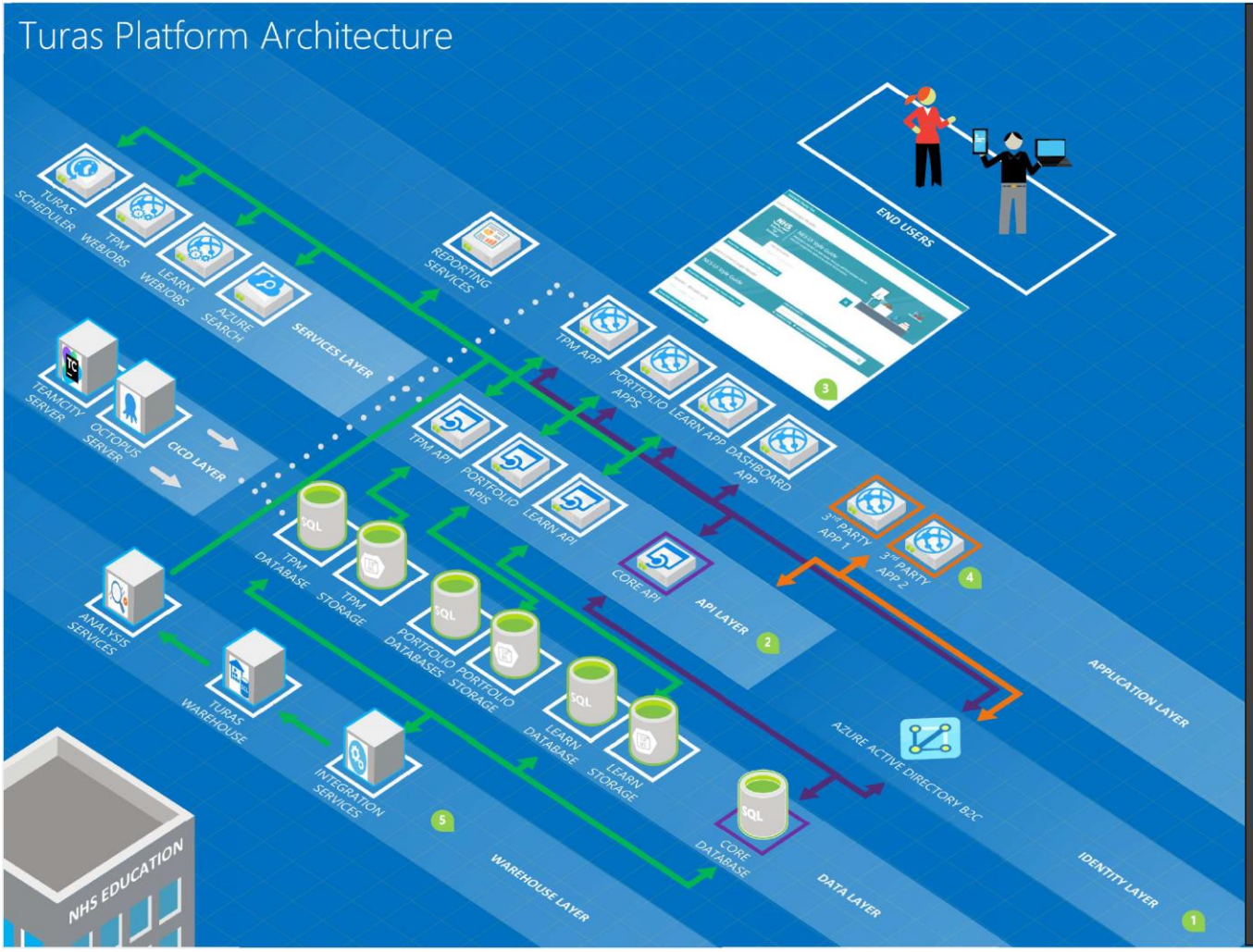
The opportunity for NES to support people

Inside TURAS

NHS Education for Scotland

Turas Platform Architecture



1. Turas users enjoy single sign-on using a secure, centralised identity management solution.
2. Applications can easily share data with other applications via a set of secure APIs.
3. All applications use a UI framework and style guide to give a consistent and familiar user experience.
4. 3rd party applications can be developed and "plugged in" to the Turas architecture by installing specially created packages that provide functionality such as integration to the identity management system and a client to access the Turas APIs.
5. Data is pulled into the Turas Warehouse where it can be reported from using SQL Server Reporting Services

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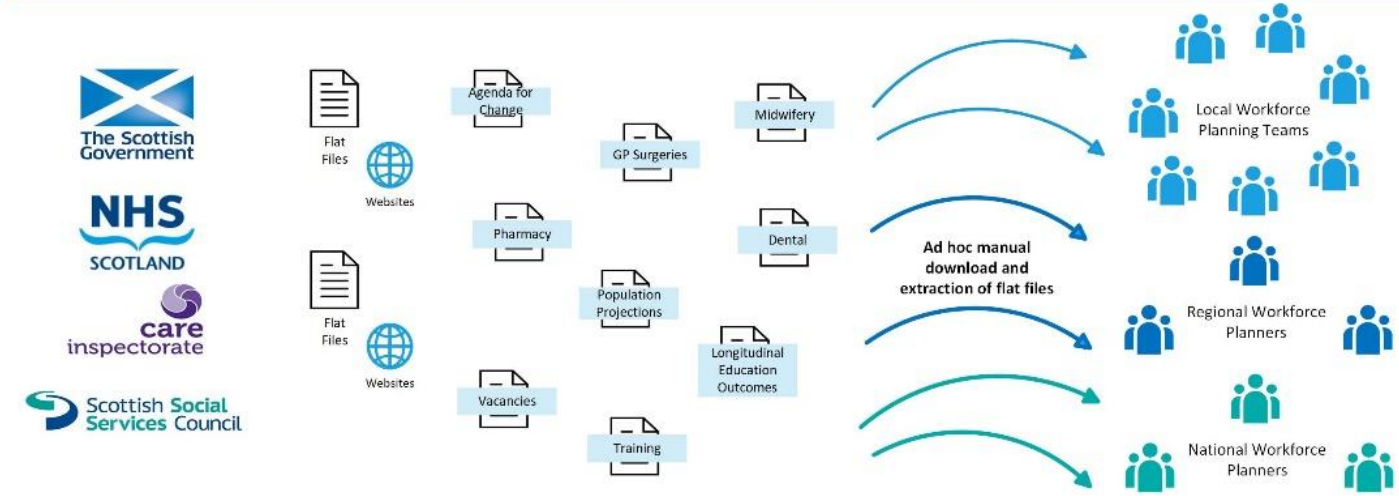
LEGACY MODEL



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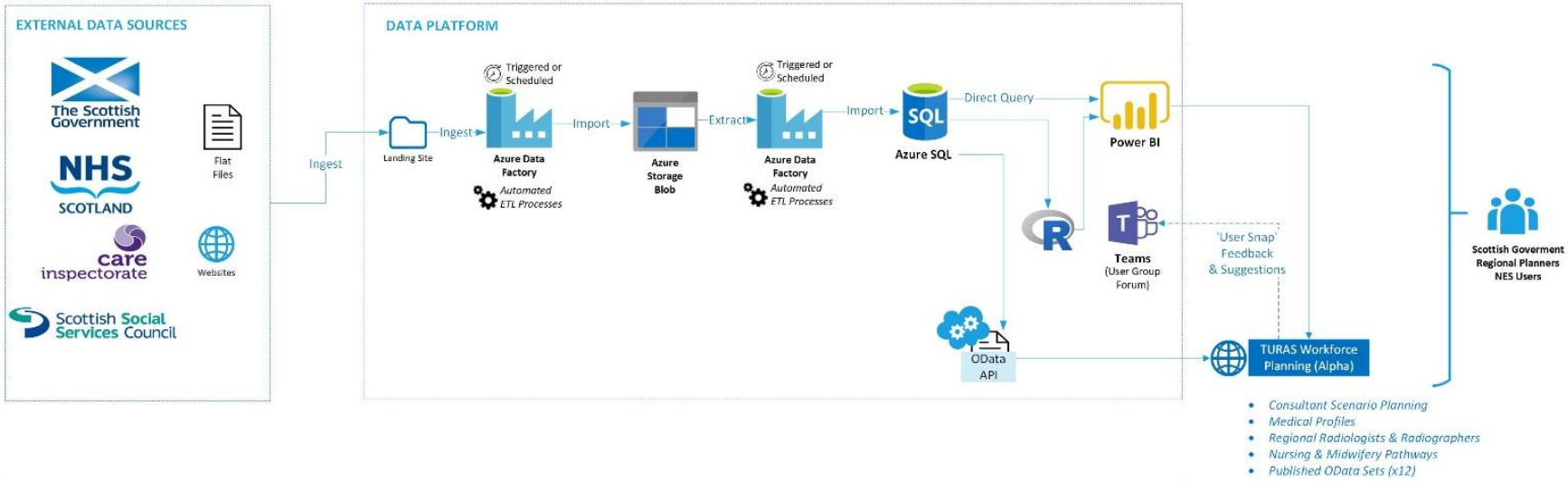
TRANSFORMATION PHASE 1 (DECEMBER 2018)



- *Consultant Scenario Planning*
- *Medical Profiles*
- *Regional Radiologists & Radiographers*
- *Nursing & Midwifery Pathways*
- *Published OData Sets (x12)*

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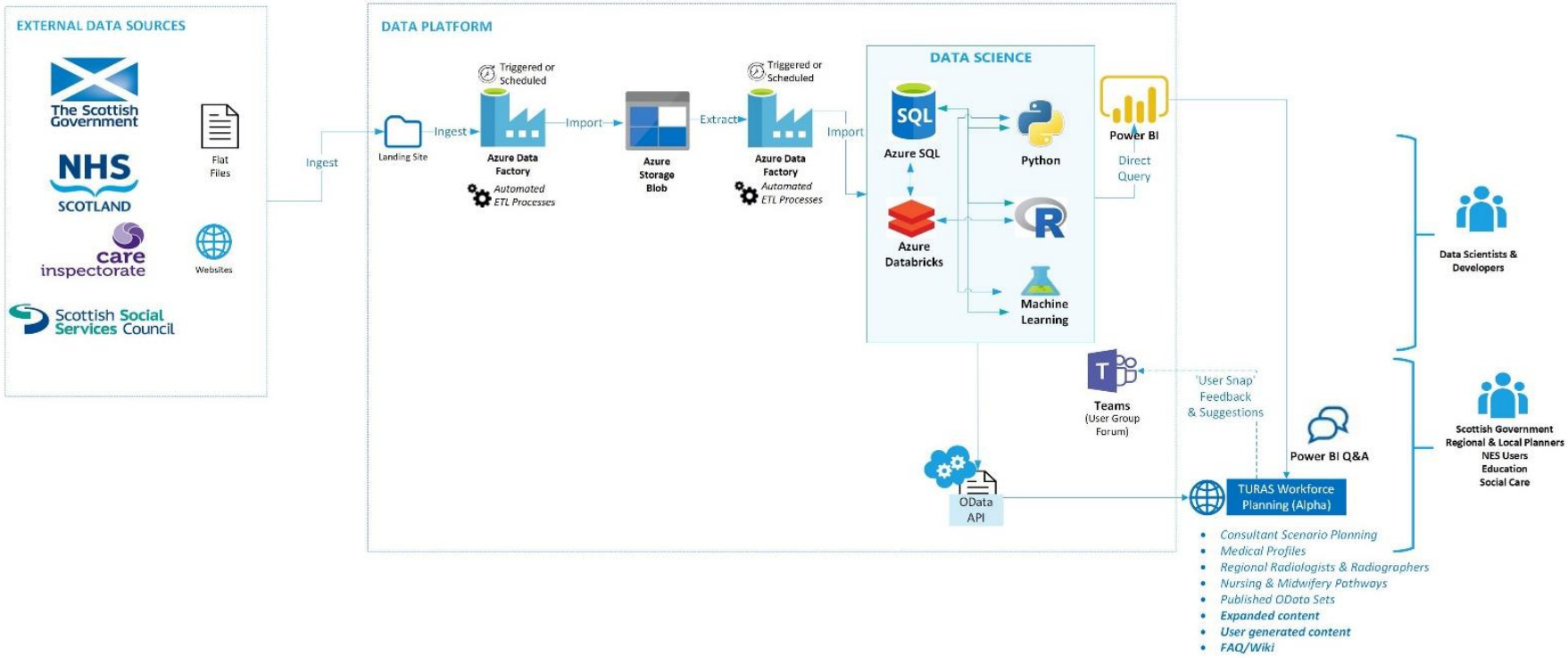
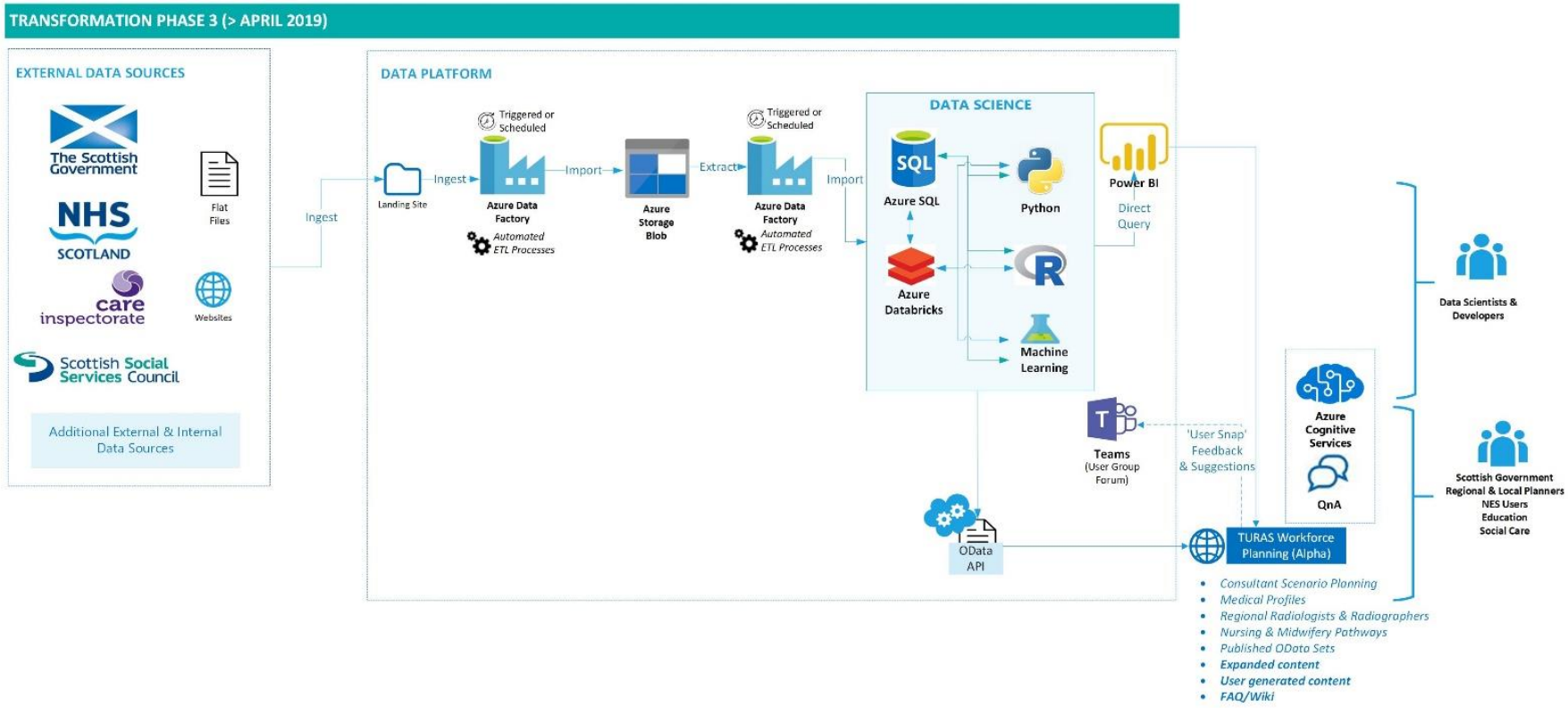
TRANSFORMATION PHASE 2 (APRIL 2019)




TRANSFORMATION PHASE 3 (> APRIL 2019)
EXTERNAL DATA SOURCES
The Scottish Government
NHS SCOTLAND
care inspectorate
Scottish Social Services Council
Flat Files
Websites
Additional External & Internal Data Sources
Ingest
DATA PLATFORM
Landing Site
Ingest
Triggered or Scheduled
Azure Data Factory
Automated ETL Processes
Import
Azure Storage Blob
Extract
Triggered or Scheduled
Azure Data Factory
Automated ETL Processes
Import
DATA SCIENCE
Azure SQL
Azure Databricks
Python
Machine Learning
Power BI
Direct Query
Teams
(User Group Forum)
'User Snap' Feedback & Suggestions
OData API
TURAS Workforce Planning (Alpha)
Azure Cognitive Services
QnA
Data Scientists & Developers
Scottish Government
Regional & Local Planners
NES Users
Education
Social Care
Consultant Scenario Planning
Medical Profiles
Regional Radiologists & Radiographers
Nursing & Midwifery Pathways
Published OData Sets
Expanded content
User generated content
FAQ/Wiki

Data

Workforce Data - Data Feeds

The data used by NES to create the reports found on the Reports tab were created using the data sets available as OData feeds on this page (the red links). OData (Open Data Protocol) is a Microsoft standard allowing data to be accessed via websites in a consistent manner, which can then be streamed into other applications and reporting tools. To connect to the data please copy the relevant red link below and follow the instructions for your selected tool. Please find links to the instructions for some of the most commonly used reporting tools below.

- **Power BI** - https://docs.microsoft.com/en-us/power-bi/desktop-connect-odata
- **Excel** - https://support.office.com/en-us/article/connect-to-an-odata-feed-power-query-4441a94d-9392-488a-a6a9-739b6d2ad500
- **Tableau** - https://onlinehelp.tableau.com/current/pro/desktop/en-us/examples_odata.htm
- **Qlik** - https://help.qlik.com/en-US/connectors/Subsystems/Web_Connectors_help/Content/Connectors_QWC/Data-Source-Connectors/OData-Connector.htm

You can find more technical info about how OData works here : https://www.odata.org/getting-started/basic-tutorial/

If you are getting errors when attempting to connect to a feed in Excel, please work through the following steps:

- Open Excel
- Click on the "Data" tab
- Click "Get Data"
- Click "Query Options"
- Click "Clear Cache" then "OK
- IMPORTANT - close Excel completely and re-open it then try again

afc

Agenda for Change pay bands and points

`https://nesworkforceplanningapiint.azurewebsites.net/odata/afcpaybands`

ashe

Annual Survey of Hours and Earnings. Gross Hourly Pay, ghp, by year region and SOC code. Deflators are included to calculate real gross hourly pay. Source: https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/earningsandworkinghours

`https://nesworkforceplanningapiint.azurewebsites.net/odata/ashe`

ci

These are data downloaded from the Care Inspectoprate's datastore. the data are from 31 january 2018. Source: http://www.careinspectorate.com/index.php/statistics-and-analysis/data-and-analysis

Consultant Scenario Planning

View Fullscreen

FEEDBACK/HELP

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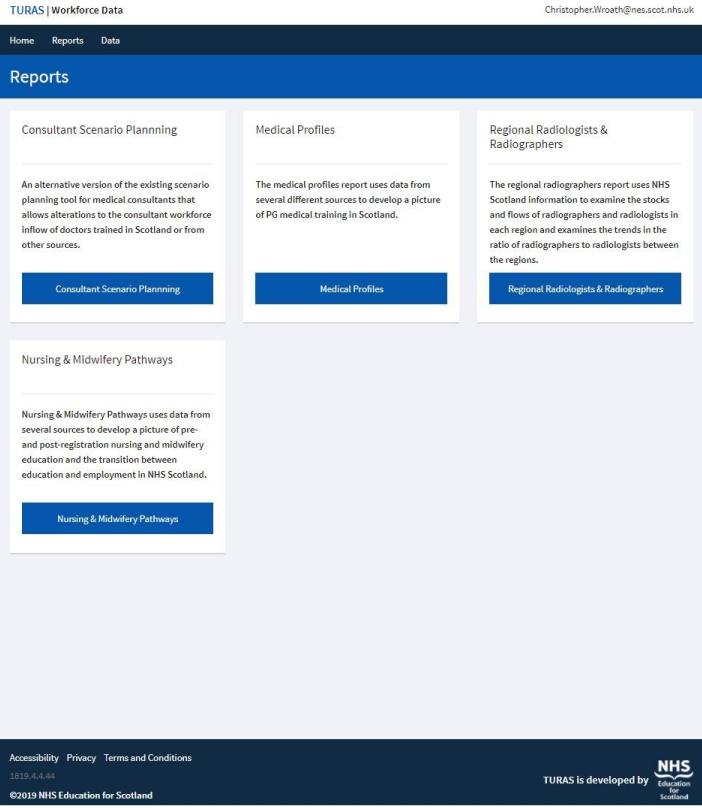
TURAS | Workforce Data
Christopher.Wroath@nes.scot.nhs.uk
Home
Reports
Data
Reports
Consultant Scenario Plannning
An alternative version of the existing scenario planning tool for medical consultants that allows alterations to the consultant workforce inflow of doctors trained in Scotland or from other sources.
Consultant Scenario Plannning
Medical Profiles
The medical profiles report uses data from several different sources to develop a picture of PG medical training in Scotland.
Medical Profiles
Regional Radiologists & Radiographers
The regional radiographers report uses NHS Scotland information to examine the stocks and flows of radiographers and radiologists in each region and examines the trends in the ratio of radiographers to radiologists between the regions.
Regional Radiologists & Radiographers
Nursing & Midwifery Pathways
Nursing & Midwifery Pathways uses data from several sources to develop a picture of pre- and post-registration nursing and midwifery education and the transition between education and employment in NHS Scotland.
Nursing & Midwifery Pathways
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