



A Global Leader in Healthcare Innovation

NHS Case Studies



Case Study 1: Building a Patient App with NHS & IM1 Integration

Challenge

- Independent pharmacies struggled with NHS processes and lacked digital tools.
- Patients had limited online options for managing prescriptions, booking GP appointments, or coordinating pharmacy delivery.

Solution

- Onboarded the client's app to NHS Digital, handling SCAL and compliance.
- Integrated NHS Login, PDS, IM1 for appointments, repeat prescriptions, and patient data.
- Used Node, Flutter, Microservices, AWS, and secure SSO/IDP.

NHS Digital Services & Standards

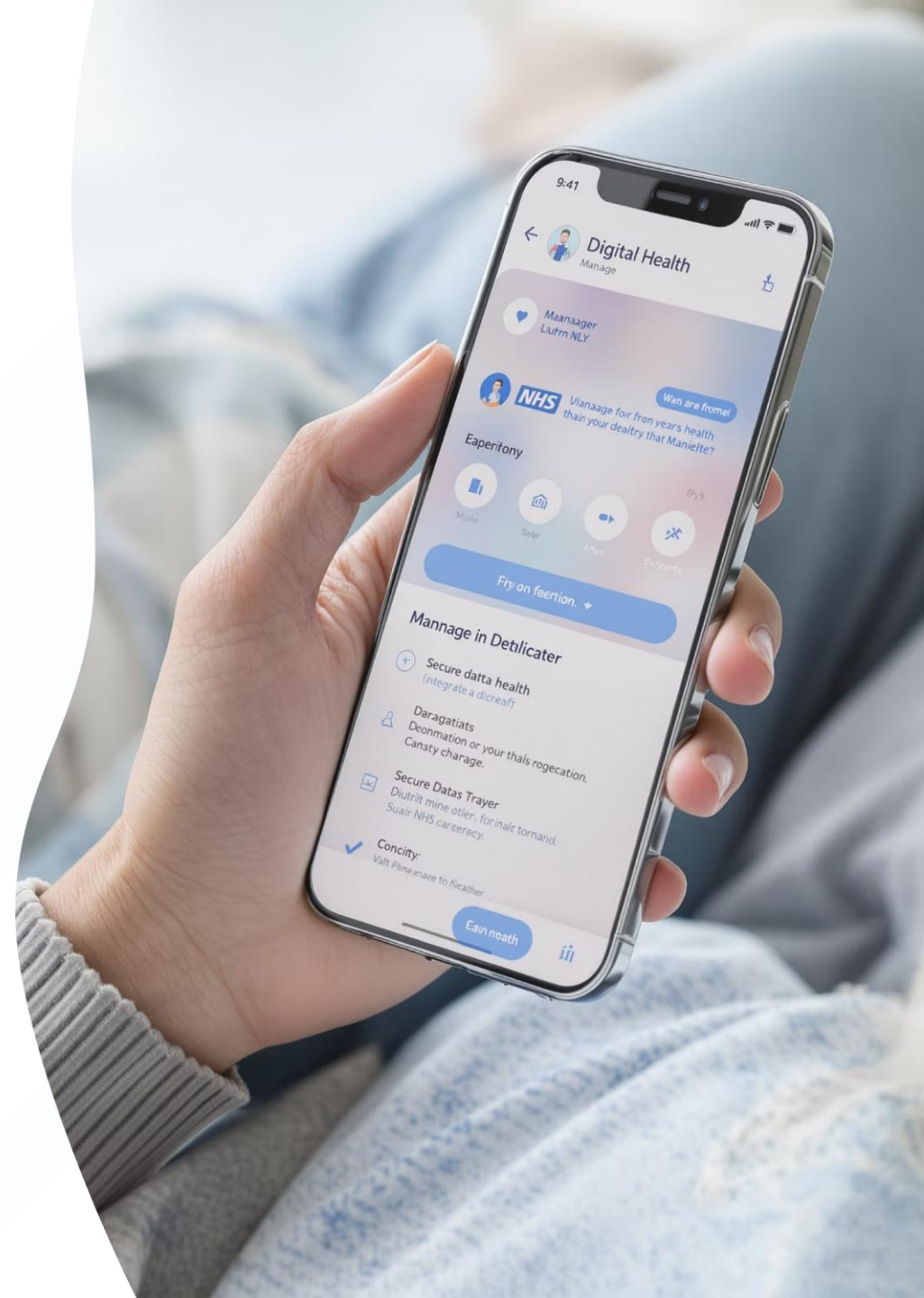
- **Services:** SPINE (PDS), EPS, NHS Login, SCR.
- **3rd party integrations:** IM1, repeat prescription, pharmacy & EHR integration.
- **Interoperability standards:** FHIR

Key Results

Centralized digital solution for patients and pharmacies

Easier GP booking, repeat prescriptions, and medicine delivery

Secure, NHS, IM1, and GDPR-compliant system



Case Study 2: Modernizing Hospital Systems with NHS-Compliant PAS

Challenge

- Needed full compliance with NHS Digital standards.
- Rebranding & de-branding of UI (banners, links, logo removal).
- New features for a hospital client (appointment/package rescheduling).

Solution

- Built a Patient Administration System (PAS) integrated with EHR & HMS.
- Aligned with NHS CUI standards for security & usability.
- Tools: Java, Spring, Struts, Oracle, WebLogic, JQuery, XML.

NHS Digital Services & Standards

- **Interoperability standards:** FHIR

Key Results

20% improvement in patient experience

Better data access for providers

Easier patient collaboration

Streamlined hospital workflows



Case Study 3: Simplifying Repeat Prescriptions with NHS Digital Pharmacy

Challenge

- Needed to simplify repeat prescription management with NHS IM1 integration.
- Patients required a secure, easy way to manage prescriptions within the app, without external links.

Solution

- Developed a profile-based application for direct repeat prescription management.
- Integrated NHS Login, SPINE (PDS), and IM1 for identity, patient data, and prescription services.
- Tools: React.js, Node.js, MongoDB, OAuth2, AWS.

NHS Digital Services & Standards

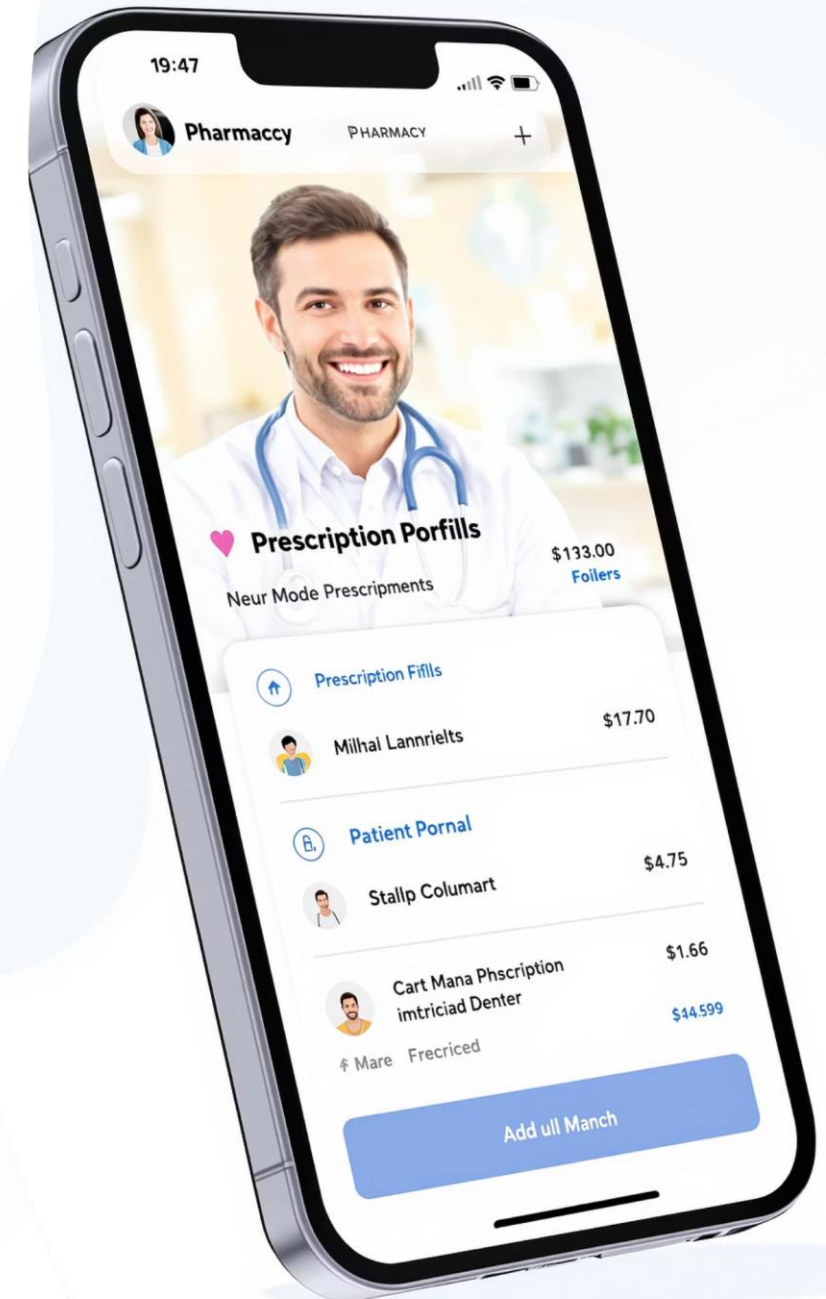
- **Services:** SPINE (PDS), NHS Login
- **3rd party integrations:** IM1, repeat prescription
- **Interoperability standards:** FHIR

Key Results

More user sign-ups and active repeat prescription usage

Fewer login issues thanks to strong authentication

Secure RBAC with no unauthorized access reported



Case Study 4: Patient Care Solution Suite

Challenge

- The healthcare provider has an ecosystem of products called HX which caters to various functions of the healthcare companies. The long-term objective of the HX eco system is to have a one stop shop of products within in system.
- The client wanted to develop HxeMAR (TBC) which would allow their users to offer several services to their care homes customers which integrates with their existing PMR system.

NHS Digital Services & Standards

- **Services:** NHS Login
- **Interoperability standards:** FHIR

Key Results

Reduced medication errors
with digital tracking

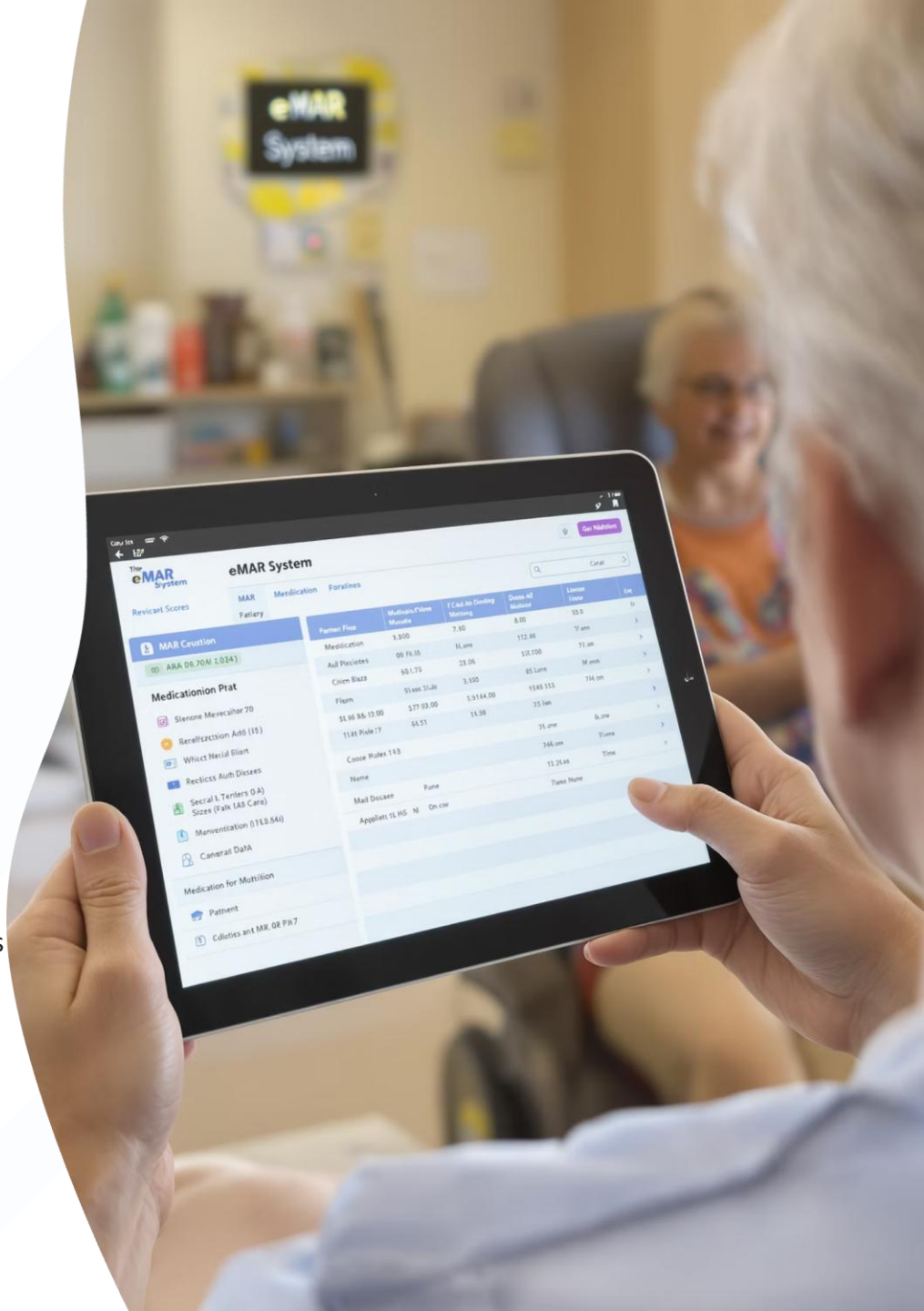
Simple, responsive UI -
friendly for senior care staff

Ready for pharmacy and
3rd party integrations

Solution

Genisys delivered a suite of interconnected software solutions designed to transform patient care, streamline operations, and enhance efficiency, from residential care to pharmacies.

- **Care: eMAR Medicines Management**
 - Digitizes medication administration records for residential care homes, significantly reducing errors and enabling staff to dedicate more time to resident care.
- **Consult: Referral Management**
 - Seamlessly integrates with PMR systems to automate referral processes, providing instant alerts, GP notifications, and automated payment claims to maximize revenue.
- **Dispense: Pharmacy Management**
 - A cloud-based, multi-device PMR system. It offers a cost-effective, robust, and intuitive solution to boost operational efficiency and profitability.



Case Study 5: Data Visualization for Revenue Increase in a Private Hospital Using Advanced BI Solution

Challenge

- The client, a well-known private hospital, was looking for an effective way to visualize data to identify opportunities for revenue growth.
- This required leveraging insights from various data sources and presenting them in a clear and actionable manner

Solution

- Created an interactive patient management dashboard to provide hospital administrators and healthcare staff with real-time insights into patient concentration within the hospital.
- The dashboard will leverage advanced BI solutions to present a heatmap that dynamically visualizes patient distribution based on filters such as date, postcode, and other relevant parameters.

Tools and Technologies

- **Platform:** Power BI

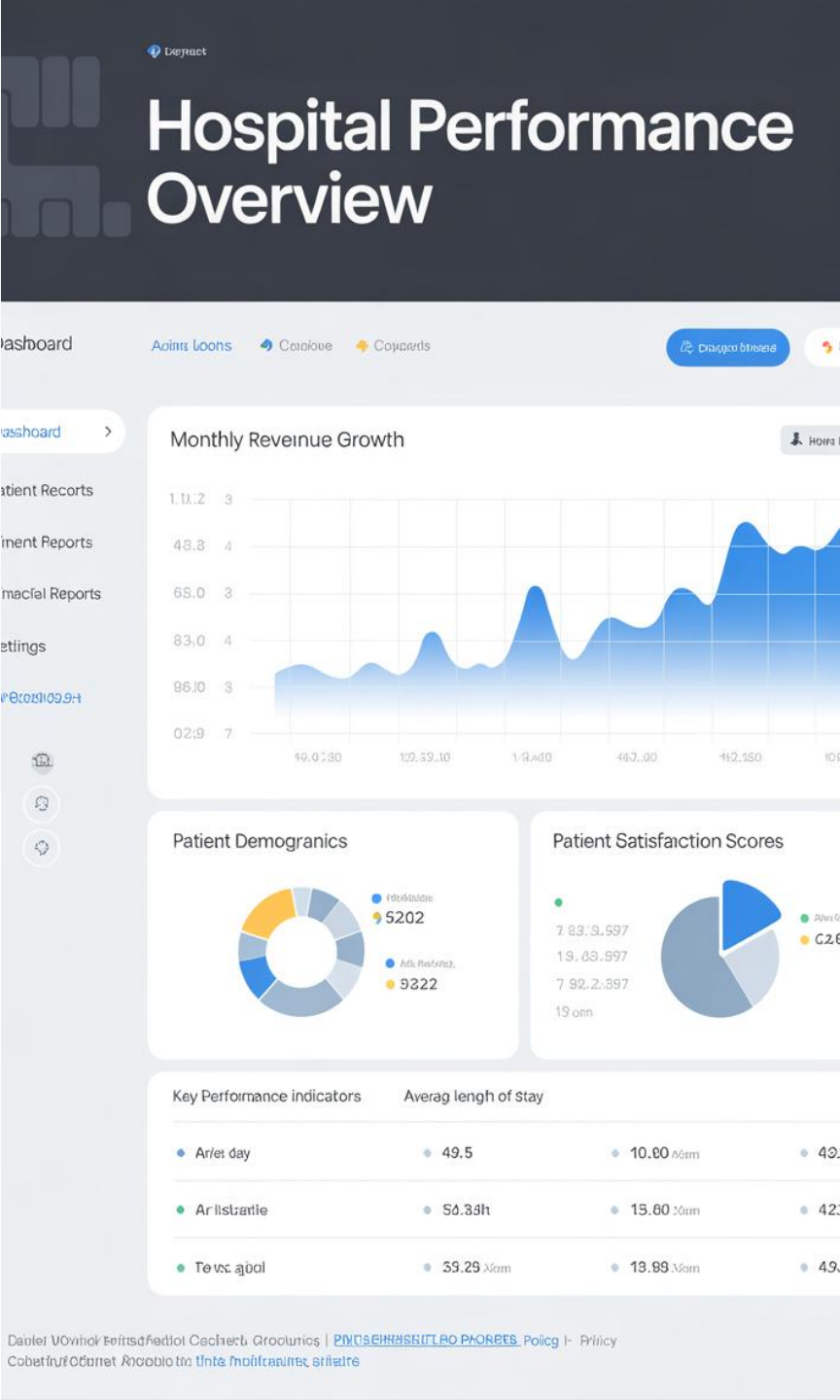
Key Results

Data driven Insights

Real-time Visibility

Enhanced Patient Flow

Improved Patient Care



Case Study 6: NHS dementia data analytics

Challenge

- Dementia is a growing public health concern in the UK, especially among aging populations. With over 850,000 people affected nationwide and 676,000 in England alone, early diagnosis and tracking are critical.
- Client needed a way to:
 - Identify diagnosis rates across geographies
 - Measure gaps in dementia diagnosis for people aged 65+
 - Align with CCG planning guidance (2015–16) to meet national targets

Tools & Technologies

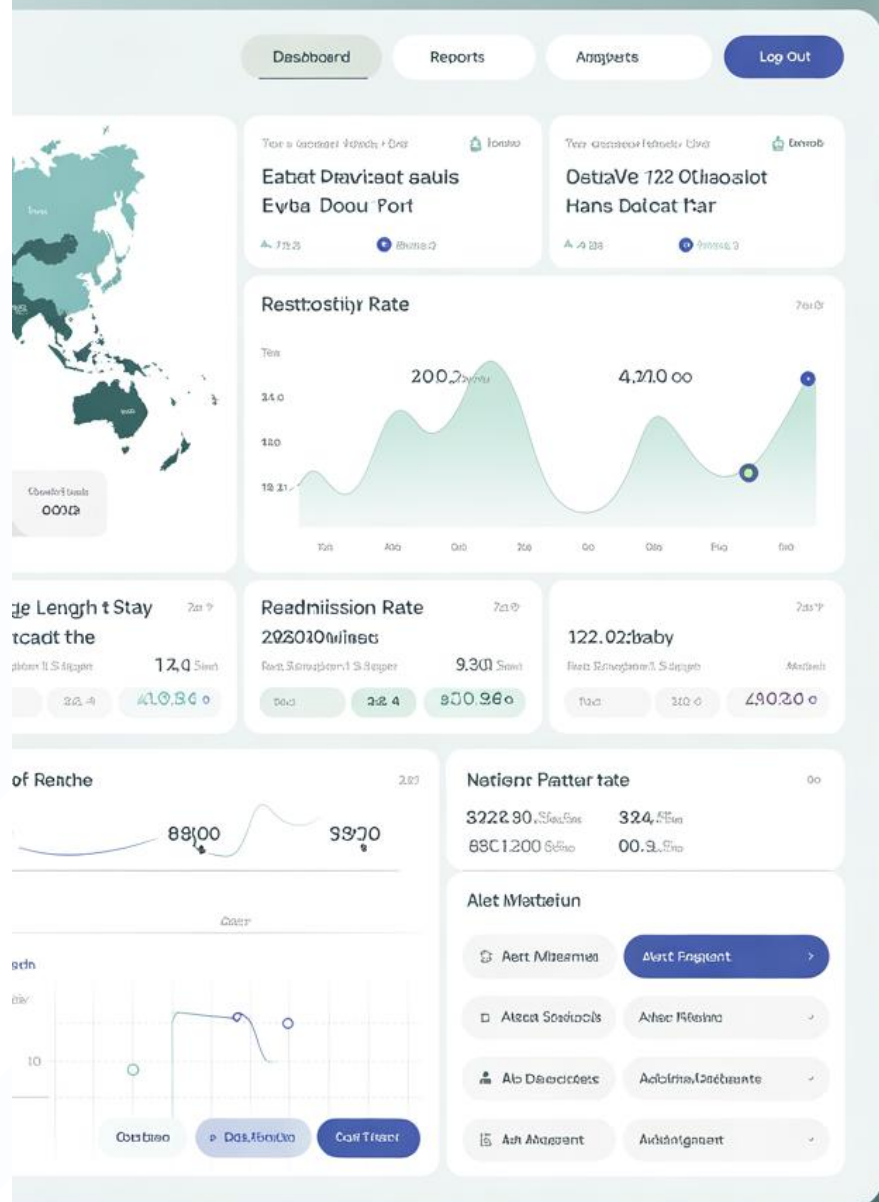
- Power BI

Key Results

- Achieving and maintaining the dementia diagnosis rate.
- Identifying the gaps to measure the number of additional diagnoses required to reach ambition for age group 65+
- Identifying the gaps to measure the number of additional diagnoses required to reach 65+ prevalence

Solution

- Genisys employed Power BI to effectively identify dementia diagnoses rate at each geography location across entire England with interactive visualizations.
- Identifying the estimated dementia diagnoses rate with the metric specification from the CCG planning guidance 2015-16.



THANK YOU



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