



## MCA Awards 2018 Winner

### Performance Improvement in the Public Sector

#### Atos Consulting with Genomics - Cancer fast track process

#### Transforming ground-breaking cancer analysis for Genomics England

Genomics England is a pioneering government programme to bring advanced genomic medicine out of the laboratory and into standard NHS services. Launched in 2012, its objective is to sequence 100,000 genomes for patients with rare diseases and cancer and devise leading-edge techniques to deliver personalised treatments for these patients.

Genomic testing will transform healthcare by using each person's DNA to understand how disease develops and which treatments will be most effective. This will not only save lives and achieve a step change in population health; it will also deliver wholesale transformation of the NHS. Genomics reinvents healthcare, with a new kind of multi-disciplinary team of medical professionals and scientific, data and analytics experts to deliver integrated, personalised medicine. Huge savings will come from reductions in length of stay and hospital admissions, fewer diagnostic requirements, and much earlier prevention.

Establishing a genome analysis pipeline that gets recommendations back to clinicians fast enough to treat patients effectively is critical to genomic medicine. Yet it involves intricate processes along a complex supply chain of patients, doctors, pathologists, transportation, sequencers and interpretation companies.

#### Realising the ambition

Atos Consulting was commissioned because turnaround times for the pipeline were around 9 months, threatening the programme's targets and not delivering results in a clinically-relevant timescale.

Enabled by Atos Consulting, Genomics England has accelerated turnaround times along the standard genomic pipeline to just 1-3 months, and established a fast-track process that returns results in only 14-17 days.

Atos Consulting's ability to diagnose problems in this unique environment, then work with multiple stakeholders to implement wide scale change to aggressive timeframes is delivering the ambitions of the 100,000 genomes project and is delivering whole genome analysis to inform life-saving treatments. The new fast-track pipeline is now the basis for continued, targeted improvements to the whole genomics pipeline and is enabling Genomics England to engage more widely with stakeholders across the NHS.



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### **Improving outcomes for patients**

Genomics England is on track to meet its 100,000 genomes target by the end of 2018. Results are indicating that 6v out of 10 cancer patients could receive better outcomes and receive treatments more personalised to their DNA and mutation of cancer.

As a result, Genomics England has achieved the speed and scale needed to realise the NHS' dream of becoming the first health service in the world to bring precisions medicine and personalised treatments into mainstream commissioned care.