

“Making Healthcare Maximally Intelligent”

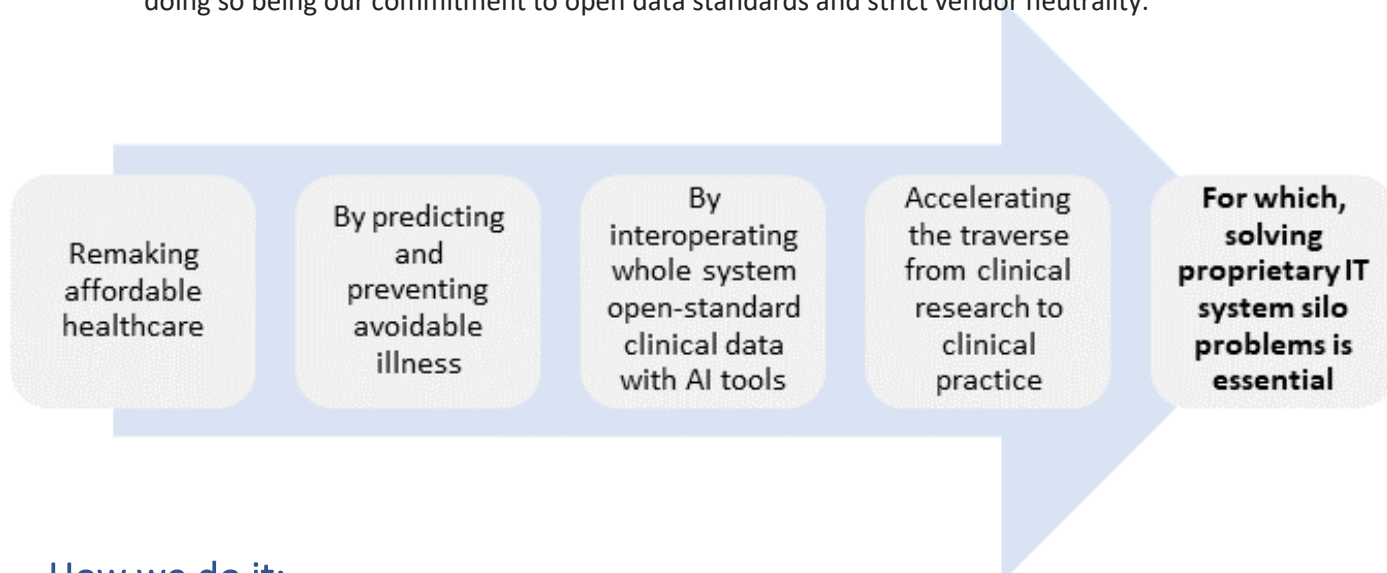
GCloud 15 (LOT-3) Service Definition

ABOUT FUTURE PERFECT'S PANACEA™ DIGITAL INNOVATION PLATFORM (PANACEA™ 6-month Trial is £30,000)

In Future Perfect, we believe that by persistently innovating healthcare, people's lives will be saved and improved, to the limit of what is possible.

Why we do what we do:

Our strategic aim for building our business is to aid remaking affordable healthcare, by predicting and preventing avoidable illness. **Our contribution is to enable this process by interoperating clinical data with AI tools that accelerate the translation from clinical research to clinical practice.** We solve proprietary IT system silo problems, our ethics for doing so being our commitment to open data standards and strict vendor neutrality.



How we do it:

By integrating patient data across institutions to enable and support live shared care –faster and at far lower cost than has hitherto been possible.

By using the increasingly adopted global standard for clinical repositories – openEHR, as endorsed by the World Health Organisation and the International Telecommunications Union, in recommendations to member nations relevant to lessons learned from responses to the Covid pandemic.

By accelerating access to innovating digital health technologies (e.g. AI, data from wearables, genomic data).

By committing to open data standards and vendor neutrality in all we do.

By working across healthcare and academic R&D, securely and safely holding data to enable clinical trials in Trusted Research Environments (TREs) and, also, the translation of proven research outcomes into clinical practice.

“Making Healthcare Maximally Intelligent”

GCloud 15 (LOT-3) Service Definition

ABOUT FUTURE PERFECT'S **PANACEA™** DIGITAL INNOVATION PLATFORM (**PANACEA™** 6-month Trial is £30,000)



What is **PANACEA™**?

PANACEA™ is a patient-centred health and care platform that utilises the global openEHR open standard for a clinical data repository. Uniquely **PANACEA™** provides full vendor-neutrality, offering choice even of the openEHR platform itself.¹

The functionality of the core product itself is standard across all scenarios because it can be installed and used across any combination of departments, sites, or even organisations – but only in one single configuration of e.g. workflow, e-Forms screens, clinical data repository configuration and integration. The core **PANACEA™** platform is ideally suited, for example, as a health system-wide diagnostics vendor-neutral archive, that would not necessarily require additional **PANACEA™** licence options.

In addition, by procuring licence options from our Catalogue, **PANACEA™** can operate independently with multiple instances and federate access to all the patient's data held across those instances. In this way, **PANACEA™** can provide the required functionality of a care-system-wide electronic record system, in which the providers' EPRs are nodes, points enroute along the patient's pathway.

PANACEA™ also hosts components for multimodal AI generation and integration, clinical decision support algorithms and genomics data management. In this way, **PANACEA™** can add considerably to work with existing configurations of transactional EPRs and other such clinical systems.

For tertiary care acute Trusts offering hub-based services in tandem with many secondary care providers (e.g. Cancer, Pathology or Mental Health networks), **PANACEA™** offers an immediately invaluable way of managing care across such multi-provider pathways. Furthermore, the rapid take-up of openEHR internationally offers ambitious UK providers opportunity to interoperate care globally and, also, to underpin major research programmes and networks.

PANACEA™ Functionality:

¹ This has been demonstrated by Future Perfect's successful migration of one live implemented system between alternative openEHR commercial platforms – **thereby saving that customer a large proportion of their annual costs.**

“Making Healthcare Maximally Intelligent”

GCloud 15 (LOT-3) Service Definition

ABOUT FUTURE PERFECT'S **PANACEA™** DIGITAL INNOVATION PLATFORM (**PANACEA™ 6-month Trial is £30,000**)

PANACEA™ separates patient data from the applications that created that data, true vendor neutrality. It uses modern open standards-compliant software architecture, communication and workflow standards. **PANACEA™**'s integration hub supports a considerable channels library; includes HL7-based and FHIR-based 2-way interfaces which surface live data into the shared repository.

PANACEA™ supports multiple clinical terminologies, such as SNOMED (LOINC, HPO or other) and can utilise external terminology servers.

PANACEA™'s functions drive the clinical informatics models (two levels - Archetypes and Templates), built by openEHR virtual community domain experts, published by the openEHR Foundation for use by all members. We employ clinical-informatics high-end skills to enhance existing or to create new Archetypes, also with skills transfer for customer independence and enhanced value of ownership.

- Liberates patient data from proprietary into open standards records.
- Supports shared care, not just shared records of care.
- Federates patient data access across institutions and networks.
- Offers Clinical Decision Support, AI platforms, Genomics and Collaboration tools.
- Patient identity match, validation, and merging
- Single Sign On (SSO) integrated User ID management, role-based security
- Patient list management
- Configurable whole-pathway views, timelines, and workflow
- Configurable e-forms-based data entry which support care planning.
- Configurable notifications and alerts
- Full auditing of all user actions
- Support for business continuity.
- Performance Analytics BI integration
- **PANACEA™** Integration Hub & channels
- openEHR clinical data repository.

Analytics and Business Intelligence:

Clinical BI is important because healthcare organisations generate a lot of data—from electronic health records (EHRs), patient feedback and operational data. Most NHS organisations use multiple, disparate technologies for data storage and analysis, but a centralized solution allows access to all data, giving clinicians and administrators the ability to track key performance indicators (KPIs) and patient outcomes. **PANACEA™** is built on the openEHR standard, data is normalized as it enters the clinical data repository, from any source such as laboratories, legacy EHR and local systems. Once the data is captured in **PANACEA™**, users can perform whatever analysis they want, the data is, liberated.

PANACEA™, our Digital Innovation Platform, provides the means to deploy, at pace, newer digital biomedical technologies that are not otherwise available from even the largest of electronic health record systems – either at all or in part.

“Making Healthcare Maximally Intelligent”

GCloud 15 (LOT-3) Service Definition



ABOUT FUTURE PERFECT'S PANACEA™ DIGITAL INNOVATION PLATFORM **(PANACEA™ 6-month Trial is £30,000)**

Future Perfect (Healthcare) is an aggregator of emerging health technologies, backed by our use of the internationally recognised open standard for digital healthcare records: *openEHR* (“Open Electronic Health Records”). OpenEHR is clinically defined and an openly documented repository, increasingly being adopted, worldwide. OpenEHR has been selected for the London-wide digital development platform for supporting patient care across organisations and their systems. There are over 100 other openEHR installations in the UK NHS.

Our platform, PANACEA™, working with the openEHR standard, already aggregates genomic test-management/reporting and clinical decision support, with which we provide integrated information to the Molecular Diagnostics service for Northern Ireland. We liberate data from proprietary clinical record systems into the openEHR open standard clinical repository, with which we can integrate new information directly into clinical or research pathways. We intelligently process the data, working with Genomics data, Clinical Decision Support and AI applications, to provide the best available intelligence needed for dynamic precision medicine. Clinicians access this added intelligence by co-using the openEHR repository via our PANACEA™ care record system with their “home” system (bimodal); alternatively, we can integrate back the new outputs into their “home” systems.

Backed by an Innovation Award, we extended Northern Ireland's PANACEA configuration to develop a Registry for people with genetic propensity to develop cancers or other diseases, for purposes of predicting their risk, preventing or at least delaying illness, and expediting diagnosis and treatment as their needs be.

We have implemented and deployed our PANACEA™ open standards interoperable care record service, also hosting:

- Cambio openEHR-based Clinical Decision Support service
- Jiva AI platform that generates and aggregates disease-specific AI applications
- Zetta Genomics XetaBase genomics management system, with vast efficiencies in genomic analysis for both genomics labs and clinicians using such labs.

These services are entirely non-exclusive examples of what we can easily deploy through the PANACEA Digital Innovation platform.

This “Cloud Support” LOT-3 Service will accommodate Trials of any or all of our Digital Innovation Platform services, to allow their evaluation clinically, technically and economically; also to provide supported facility to prepare for implementation at scale.

Technically, in LOT-3, the platform can be provided by combinations of On-Premises, Private or Community Cloud, to progress speedily to deployment with minimal local impact on digital infrastructure.

“Making Healthcare Maximally Intelligent”

GCloud 15 (LOT-3) Service Definition



ABOUT FUTURE PERFECT'S PANACEA™ DIGITAL INNOVATION PLATFORM **(PANACEA™ 6-month Trial is £30,000)**

About the PANACEA™ open standards interoperable care record service:

Service features

- PANACEA provides holistic real-time view of patient records via openEHR.
- OpenEHR standard enables global shared care, by being future-proof nationally/internationally.
- Intuitive customer-tailored user interface into lists, tasks, workflows and care-plans.
- Agile service delivery, stakeholder collaboration at heart of our methodology.
- Component based customisable UX enables easy aggregation of CDS/AI applications.
- Custom Forms-Designer capability, for care-plans and building bespoke clinical processes.
- Deploys applications via containerised microservices for flexibility and customer-configuration.
- Open security standards (OAuth2/OpenIdConnect) providing Single-Sign-On with the customer's systems.
- Panacea-Integration-Hub provides real-time connectors to any accessible healthcare system.
- Analytics support for performance monitoring, productivity, outcomes and research etc.

Service benefits

- Real-time updating ensures clinicians are always viewing current records.
- Information sharing for integrated care, clinical networks, regionalised diagnostic services.
- Data Federation supporting shared care, either place-based or regional/national/international.
- Benefits Framework: stakeholder engagement, business case, deployment, realisation, evaluation.
- Liberating patient data, enabling new uses cases and advanced analytics.
- Modern UX standards/Web-Components deeply integrating with new and legacy systems.
- Extensible design enabling access to significantly more knowledge and information.
- Open Standards (openEHR) preventing vendor lock-in. PANACEA is vendor neutral.
- Detailed auditing of user actions enabling stronger information governance.
- Genomics+AI for new model of healthcare: PREDICT/PREVENT/DIAGNOSE/TREAT, not just DIAGNOSE/TREAT.

“Making Healthcare Maximally Intelligent”

GCloud 15 (LOT-3) Service Definition

ABOUT FUTURE PERFECT'S PANACEA™ DIGITAL INNOVATION PLATFORM (PANACEA™ 6-month Trial is £30,000)

PANACEA™ as a Trial:

- 6 months licence for up to 10 users, to experience the look and adaptability of PANACEA™.
- Awareness and mentoring about use of open standards and openEHR in healthcare.
- Use of Future Perfect's Azure Cloud (strictly for non-person-identifiable case data).
- Up to three Clinical Forms developed for use as part of a potential full implementation.
- Interoperability of PANACEA™ for up to one of our standard integration channels.
- Clinical safety workshop, leading to your DCB-0160 certification for the use of PANACEA™.
- Professional services to support the Trial.
- A well-worked template for evaluation to support a procurement business case.

The cost of the PANACEA™ 6-month Trial is £30,000 plus VAT.

GENERAL

We offer all the services needed for conceiving, implementing and maintaining joined-up information flows for integrated care, especially across providers managing patient-centred care².

We offer Clinical Safety consultancy to assure DCB 0129 and 0160 standards, to our own or other digital services, systems and solutions.

We provide openEHR tools with which we develop and deploy integration and interoperability services and products, to meet a growing range of customer demand.

We help buyers to develop Vision, Strategy and Change/Benefits Programmes, we inform and aid procurement and we underpin implementations through sound and appropriate clinical, information and other ethical governance.

We deliver methods-based services, with a coordinated combination of virtual and onsite effort. Our methods are fully customisable for operating in local contexts, as are our deployments.

We have productised PANACEA for Software as a Service (SaaS) and offer through GCloud three services (Lot 2b):

- Data Archiving (incl EPR Migrations and Implementation)
- PANACEA Interoperability
- Surveillance/Research Registry of People with Genetic Propensity for Cancers and Other Conditions.

See our SFIA Card in the Price document for costs of providing support in these areas.

² Our services are offered for systems being implemented by a single or several healthcare providers' Private Cloud (e.g. existing LAN/WAN), or a Community Cloud supporting several providers.

"Making Healthcare Maximally Intelligent"

GCloud 15 (LOT-3) Service Definition

ABOUT FUTURE PERFECT'S **PANACEA™** DIGITAL INNOVATION PLATFORM (**PANACEA™** 6-month Trial is £30,000)

The problem:

Traditional systems support institutional transactional processes

These processes are slow to change across institutions

But healthcare must continually innovate

Innovative pathways are blocked

Clinicians and patients are ill-served by this model

Safety and timeliness of care cannot easily improve

Pathway-wide innovation is very difficult

The PANACEA™ solution:

PANACEA™:
vendor-neutral
openEHR
platform

Immediately
ready with AI +
Decision-
Support

→ Record sharing
done easily,
affordably,
swiftly, incl data
from proprietary
systems

→ For **PREDICT,
PREVENT:**
Integrating
clinical with
genomics,
screening and
personalised data

→ For **DIAGNOSE,
TREAT, CARE:**
Care record
federation and
integration
across care
providers