TESTQ Technologies

*... making **IT** better !*

pmo@testqtech.com   www.testqtech.com   +44 (0) 7727 162560

SERVICE DEFINITION

Application Modernization and Migration

INTRODUCTION

Transform legacy applications to the Cloud with our Application Modernisation and Migration Service, minimizing technical debt through iterative improvement. From user needs assessment (Discovery) to design, prototyping, and testing (Alpha), we deliver user-centric applications (Beta/Live) with modular, maintainable APIs, and front- and back-end services for enhanced user experience and reduced risk.
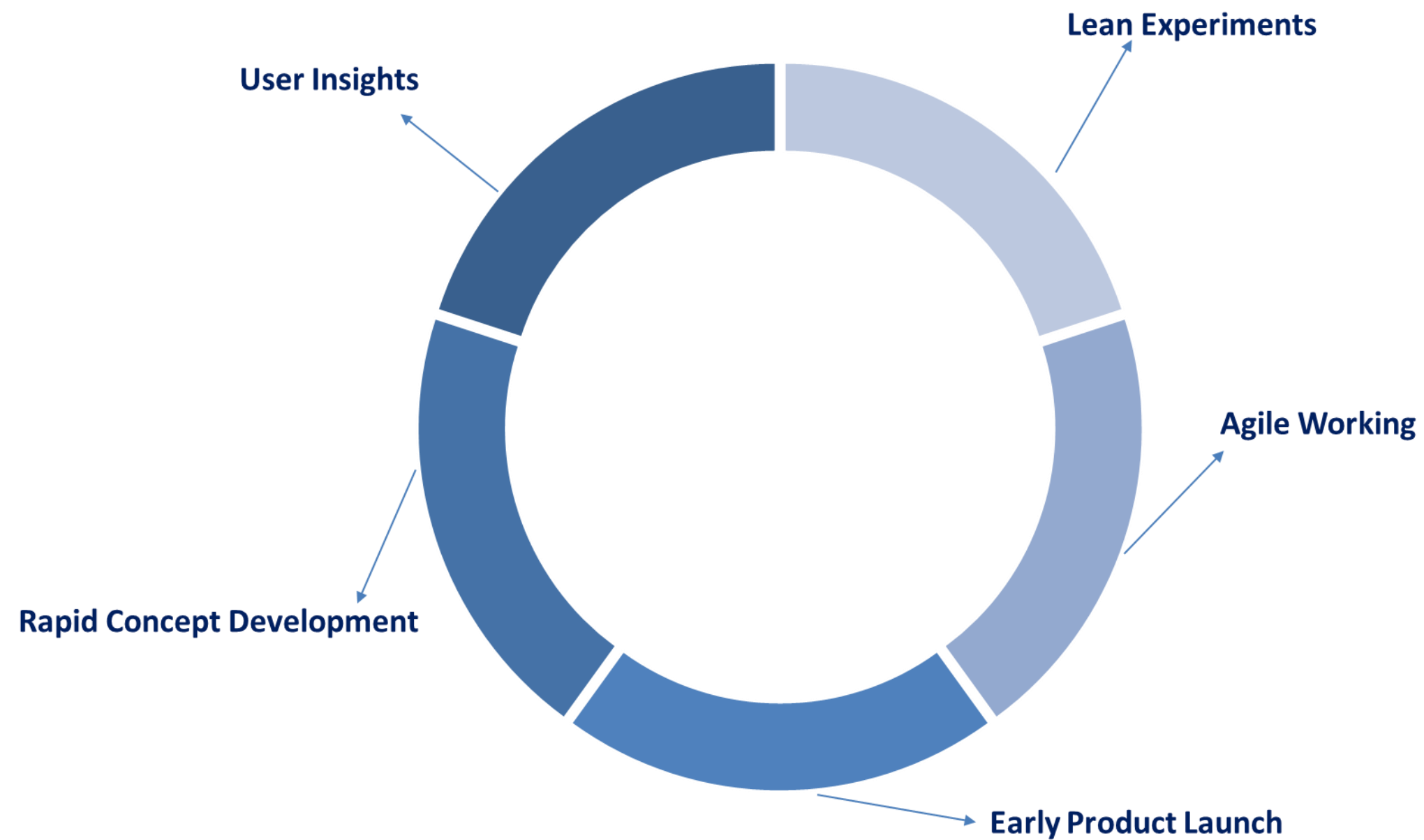
SERVICE FEATURES

- Application assessment in line with GDS Service Standard for comprehensive evaluation across Azure, AWS, and GCP.

- Feasibility and recommendations report, including Alpha definition for informed decision-making.

- Cloud service Discovery, Alpha, Beta, and implementation into Live for seamless migration across platforms.

- User-centered design ensuring intuitive interfaces and enhanced user experience.

- Migration away from enterprise vendors like Oracle, IBM, and SAP for vendor independence.

- Defined service vision maximizing delivery success and aligning with business objectives.

- Evolutionary architecture approach with extensive QA and testing for robustness.

- Improved software architecture for scalability and efficiency.

- At pace timescales: 4-8 week Discovery for rapid progress and decision-making.

- Continuous Integration & Delivery, Multi-Platform Proficiency, Process Automation, and Modern Cloud Architectures for comprehensive modernization across platforms.

SERVICE BENEFITS

- Accelerated and optimized application lifecycles with lean agile principles, ensuring efficiency across Azure, AWS, and GCP.

- Verification of user/business needs for tailored solutions meeting specific requirements.

- Enhanced developer efficiency and productivity for streamlined development processes.

- Maintainability and extensibility of services, ensuring scalability and adaptability.

- Future-proofing with zero vendor lock-in, preparing for evolving technologies.

- Reduced technical debt for improved performance and cost-effectiveness.

- Alignment with GDS Service Standard & Principles for compliance and quality assurance.

- Valuable user insight through rapid prototyping, facilitating informed decision-making.

- Knowledge of key policies, business, and technical constraints, ensuring regulatory compliance.

- Knowledge transfer and upskilling opportunities for continuous improvement and innovation.

APPROACH TO DELIVER (Continued)

Lean Experiments

User Insights

Agile Working

Rapid Concept Development

Early Product Launch

APPROACH TO DELIVER

This strategy prioritizes understanding user needs through thorough research, fostering the development of solutions precisely tailored to meet those needs. It advocates for iterative refinement of bold ideas to create sustainable products, accelerates product delivery to enhance customer engagement, commits to flexible processes for efficient deliveries, and promotes lean practices for effective navigation in dynamic markets.

- **User insights** - Emphasizing the paramount importance of understanding and addressing user needs, this approach prioritizes comprehensive user research to ensure that solutions are precisely tailored to meet user requirements from the outset.

- **Rapid concepts development** - Encouraging a methodology of starting with bold ideas but scaling down initial implementations, this approach champions continuous iteration to cultivate sustainable product growth.

- **Early product launch** - Dedicated to expediting the journey from ideation to market-ready digital products, this strategy aims to bolster customer interaction and streamline the product delivery process.

- **Agile working** - Characterized by a commitment to flexibility in workflows, this ethos fosters efficient and accurate customer deliveries through adaptable processes.

- **Lean Experiments** - Proposing a lean methodology, this approach advocates for calculated risk-taking and lean practices to effectively navigate and excel in an ever-changing market environment.
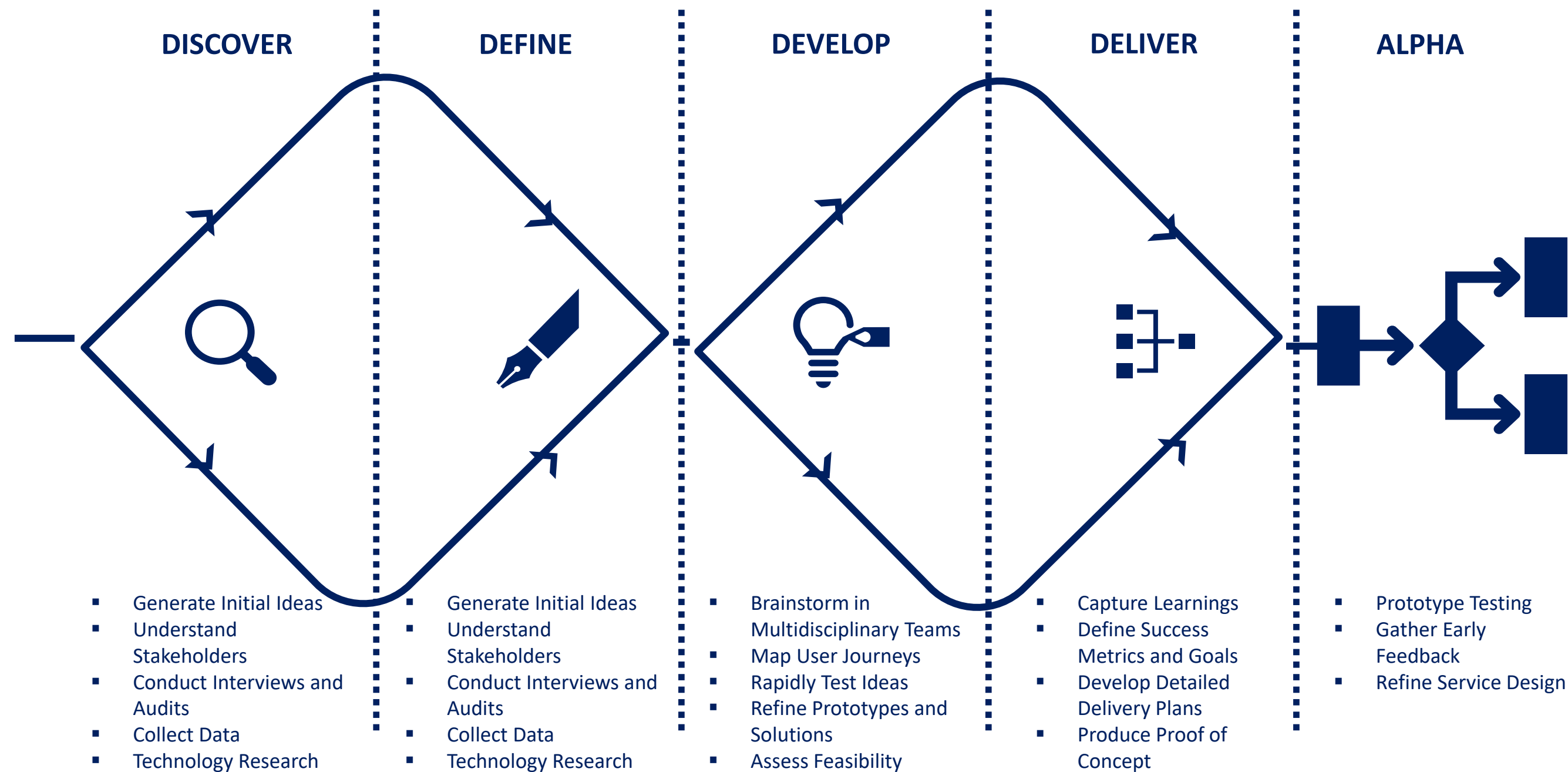
APPROACH TO DESIGN (Continued)

Our strategy emphasizes proactive stakeholder engagement and employs advanced software development practices like pair programming and both TDD and BDD to minimize risks and optimize user experience. By integrating continuous deployment processes and leveraging open source technologies, we ensure rapid, reliable releases and maintain cutting-edge relevance. Additionally, thorough documentation practices underpin our commitment to sustainability and scalability, securing a deep understanding of diverse user needs and motivations across the team.

- **Stakeholder Engagement:** Regularly interacting with stakeholders and extended team members to align development objectives and ensure transparency.

- **Collaborative Coding**: Utilizing pair programming practices to enhance code quality and team knowledge sharing.

- **Testing and Behavior Driven Development (TDD & BDD):** Emphasizing test-driven and behavior-driven development to ensure that all features meet business needs and behave as intended.

- **Streamlined Deployment:** Continuous delivery and deployment processes to facilitate rapid and reliable software releases.

- **Documentation Practices:** Committing to effective and comprehensive documentation to support ongoing maintenance and scalability.

- **Open Source Technology:** Leveraging the flexibility and innovation offered by open source solutions to stay at the forefront of technology.
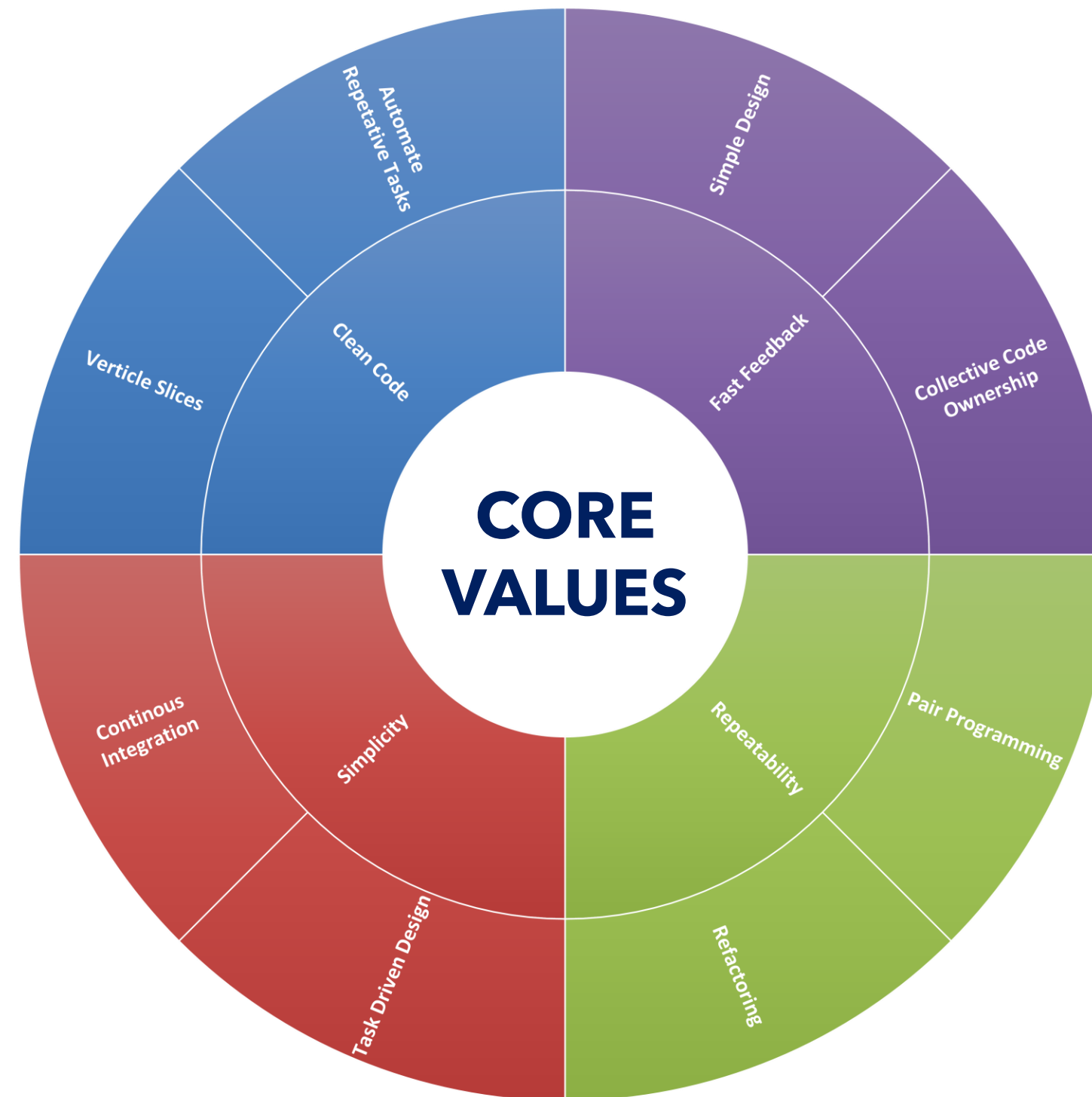
APPROACH TO DESIGN

Our Double Diamond framework outlines a structured approach to design by researching user needs, determining relevant metrics, and exploring both technological and policy constraints.

DISCOVER

- Generate Initial Ideas
- Understand Stakeholders
- Conduct Interviews and Audits
- Collect Data
- Technology Research

DEFINE

- Generate Initial Ideas
- Understand Stakeholders
- Conduct Interviews and Audits
- Collect Data
- Technology Research

DEVELOP

- Brainstorm in Multidisciplinary Teams
- Map User Journeys
- Rapidly Test Ideas
- Refine Prototypes and Solutions
- Assess Feasibility

DELIVER

- Capture Learnings
- Define Success Metrics and Goals
- Develop Detailed Delivery Plans
- Produce Proof of Concept

ALPHA

- Prototype Testing
- Gather Early Feedback
- Refine Service Design

APPROACH TO DEVELOPMENT

APPROACH TO DEVELOPMENT

- **Collaborative Development:** Our development process places a strong emphasis on collaboration. By actively engaging with stakeholders and the broader team, we align our efforts with business goals and user needs, ensuring a comprehensive understanding and integration of diverse perspectives. This broad engagement not only fosters innovation but also cultivates a shared sense of ownership and accountability, enhancing our product development.

- **Pair Programming:** We employ pair programming to enhance the reliability of our software and to cultivate a collaborative team environment. In this practice, two developers work at a single workstation; one writes code while the other reviews each line as it's written. This approach improves code quality through real-time feedback and significantly enhances knowledge transfer within the team. The benefits include a reduction in bug incidence, faster onboarding of new team members, and rapid dissemination of new techniques throughout the team.

- **Agile Development:** Guided by Agile methodologies, our development emphasizes Test-Driven Development (TDD) and Behavior-Driven Development (BDD). By writing tests before the functional code, we ensure that all coding serves a specific purpose and adheres to predefined standards. TDD focuses on individual units of code, while BDD ensures that the system's overall behaviors align with user expectations and business goals. This disciplined approach minimizes coding errors and guarantees reliable software performance under various conditions.

- **Continuous Delivery:** We are committed to a continuous delivery and deployment model, which allows us to frequently update and improve our products. This method reduces the time to market for new features and allows us to quickly iterate based on user feedback. Automation of the build, test, and deployment processes minimizes manual errors and expedites the availability of new features, thereby reducing development risks.

- **Documentation Practices**: Maintaining precise and current documentation is crucial for the sustainability of our projects. Effective documentation aids in ongoing maintenance, future enhancements, and scalability. It also assists new team members in quickly understanding the project's architecture and features, ensuring they can contribute effectively and efficiently from the start.

WHY CHOOSE US?

ABOUT TESTQ

TESTQ Technologies is a global IT and business consulting company headquartered in the UK. Our offerings spans over variety of industry sectors with strong technical, domain and process expertise helping clients grow their businesses and decrease operational costs on continuous basis in an ever-changing business environment.

With over 17 years of rich experience, we have become one of the most preferred IT company offering services across UK, Europe, USA, Middle-East, APAC and India.

TESTQ aims to bridge the gap between business and technology by providing custom products such that they are tailored exactly to the way your business works

- ❑ A multinational IT services and solutions company
- ❑ Founded in 2007
- ❑ Presence in UK, USA and INDIA
- ❑ An ISO 9001:2015 certified organization
- ❑ Global Delivery Centers : 3
- ❑ Regional Sales Offices : 2
- ❑ A wide assortment of technical offerings
- ❑ Extensive knowledge of industry verticals
- ❑ Staff : 70+
- ❑ Clients : 30+
- ❑ Market Caps : £ 5M

WHY TESTQ?

We are dedicated to delivering exceptional service through our core values, which emphasize speed of execution, quality, and access to superior talent. We leverage our extensive experience and efficient processes to meet clients' software service needs rapidly. Our focus on quality ensures that we adapt and tailor our designs from the ground up to meet specific client objectives. Through our process capabilities, we implement scalable and technologically advanced solutions that enhance operational efficiency across various industries. Our access to top-tier talent allows us to swiftly position the best professionals where they are needed most. With a diverse client portfolio, we offer targeted solutions powered by domain experts, ensuring that every client engagement maximizes value and achieves the highest return on investment.

SPEED OF EXECUTION

We have a right experience, processes and skills in place to understand your software services needs and have an ability to respond in the shortest timescales

PROCESS CAPABILITIES

TESTQ helps businesses to implement scalable solutions, technologically sound productivity tools to improve operational efficiency and gain flexibility across industries and enterprise functions.

DOMAIN EXPERTISE

Thanks to our diverse client portfolio, we offer variety solutions to cater all industry segments by deploying efficient team of subject matter experts.

FOCUS ON QUALITY

Our engagement always focuses on adapting to client's quality processes or design one from the scratch to make sure the quality objectives are achieved.

ACCESS TO TALENT

We also have access to quality talent in all areas of offerings and can rapidly deploy them for our clients at various positions.

FOCUS ON VALUE

Our engagement covers entire value chain for our clients making sure that the clients derive highest ROI in our areas of engagement.