

Building Effective Tech Teams:

Strategies and Best Practices



Chapters

01 →

Why Building an Effective Tech Team Matters

02 →

Understanding the Importance of Flexible Team Structures

03 →

Strategies for Building Flexibility into Tech Teams

04 →

Leveraging the Skills of Specialists for Optimal Project Delivery

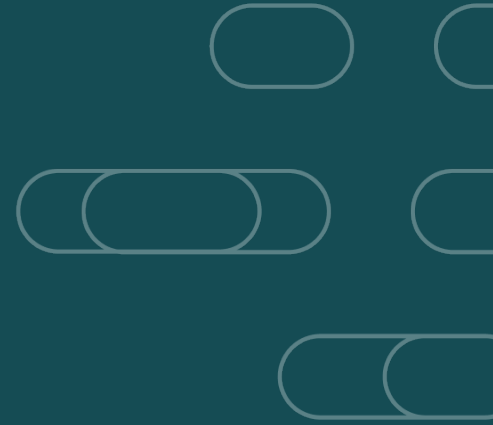
05 →

Implementing Organisational Changes for Building Successful, Flexible Teams

06 →

Concluding Reflections on Building and Sustaining Flexible Tech Teams

01



Why Building an Effective Tech Team Matters

- The Tech Team's True Significance
- The Growing Tech Market and Talent Shortfall
- The Race for New Skills
- Traditional Hiring Processes No Longer Work
- The Rewards of Investing in Tech Teams

Think about the way we define technology in the workplace.

It's a tough challenge.

The types of technology being put to use, and the ways people interact with it, are almost unrecognisable compared to their humble origins in the late 1950s.

The rise of the internet and the digitisation of products and services has profoundly changed the needs of businesses, and it's a rare enterprise indeed that doesn't require a significant digital support.

But oddly, the way we approach the talent that powers that digital capability has barely evolved over the past twenty years. For many companies, the standard is to have a team of in-house developers providing a set of skills that all digital requests pass through.

But the way we think about this is flawed. Let's consider some of the factors and challenges CTOs are facing, and consider how we can view these more productively - starting with the broader impact tech teams have.



The Tech Team's True Significance

It might seem counterintuitive, but tech teams - whether developers or other IT professionals - do a lot more than just build and maintain technology. The tech function plays a pivotal role in the project and product delivery at every stage. If managed well, they can have an outsize effect on the productivity and success of the entire business.

They are the driving force behind the implementation of cutting-edge technologies and the development of innovative solutions. They are not mere support functions but strategic enablers of an organisation's success.

These teams are responsible for translating business objectives into technical realities, ensuring the seamless functioning of systems, and driving digital transformation initiatives.

Having a single team means you may be unwittingly creating a bottleneck. Without the right capacity, it's easy for less important tasks to slip down the priority scale. Imagine a new product, ready to be launched, but there's no one to build the digital marketing support to launch it.

On the other side of that coin sits capability. Without the right skills and training, there's a real danger you could fall behind. The tech landscape is changing more rapidly than ever. Generative AI, DDID, edge intelligence, extended reality and Zero Trust are just some of the emerging technologies that offer significant business benefits, but focusing on these can mean taking time away from current projects.

Giving the team time to learn and advance their skills is proven to increase job satisfaction and retention, but for all but the largest enterprises, learning time can sadly be a luxury rather than a given (and even when businesses do employ dozens - or even hundreds - of developers, they will still rely on additional agencies, consultancies and contractors to complete certain specialised tasks and projects).

So what is the answer? How can CTOs and tech leaders make sure they have a team that meets the needs of the business, that can scale capacity and take advantage of new opportunities, while avoiding the eye-watering price tag of a truly all-encompassing in-house team?

Let's start by considering some of the challenges in more detail.

The Growing Tech Market and Talent Shortfall

It's hardly news that we're experiencing a tech talent shortage.

It's an issue which has become more pronounced every year for the past decade, and shows no signs of abating. In 2021, Gartner found that 64% of IT leaders felt a lack of suitable talent was the largest blocker to adopting new technologies, while a poll by MIT Technology Review found a similar number believe candidates lack the skills or expertise needed for new roles. In fact, talent shortage across all sectors may now be sitting at a 16-year high.

This underlines the multifaceted nature of the skills shortage. An already limited talent pool is further reduced by the ever-growing demand for technology skills, creating scarcity and adding high price tags to top talent.

As we mentioned previously, talent already in the market may have limited time to expand their current skillset (or worse, may have those skills but not be recognised for them by their employers due to a limited understanding in some senior positions).

This is further complicated by external factors: Covid, the 'Great Resignation', the gig economy... Many top-flight developers simply don't like the idea of being tied into a single role, and realise that doing so may actually limit both their earnings, and their learning potential.

In many cases, businesses have looked to cut costs by outsourcing through near-or-offshore marketplaces, but have not reckoned with the additional management load, and variable quality of work this solution may offer, often compounded by cultural fit or overly-complicated ways of working.

By outsourcing this way, they instead overload their management layer with administrative tasks, adding to the existing bottlenecks. It's also not often the right fit for long-term or large-scale projects, with limited options for amends or updates.



The Race for New Skills

Earlier we also mentioned some of the newer technologies taking centre stage. Organisations are competing fiercely to attract individuals with expertise here, and additional pressure is being put on in-house teams to quickly upskill.

Even with the best will in the world, this takes time, and it's unreasonable to expect teams to consistently scale their capabilities, without seeing increased project lag or downtime in existing services.

The impact of this is obvious. For example, imagine a business that wishes to invest in Secure Access Service Edge. This single function requires skills and knowledge in a wide range of integrations across a complex security architecture. If the dots aren't connected properly, then organisations can face dangerous vulnerabilities, and the prospect of wasted investment - in both time and money.

There's also the price of simply having too many tasks flowing through a limited in-house team.

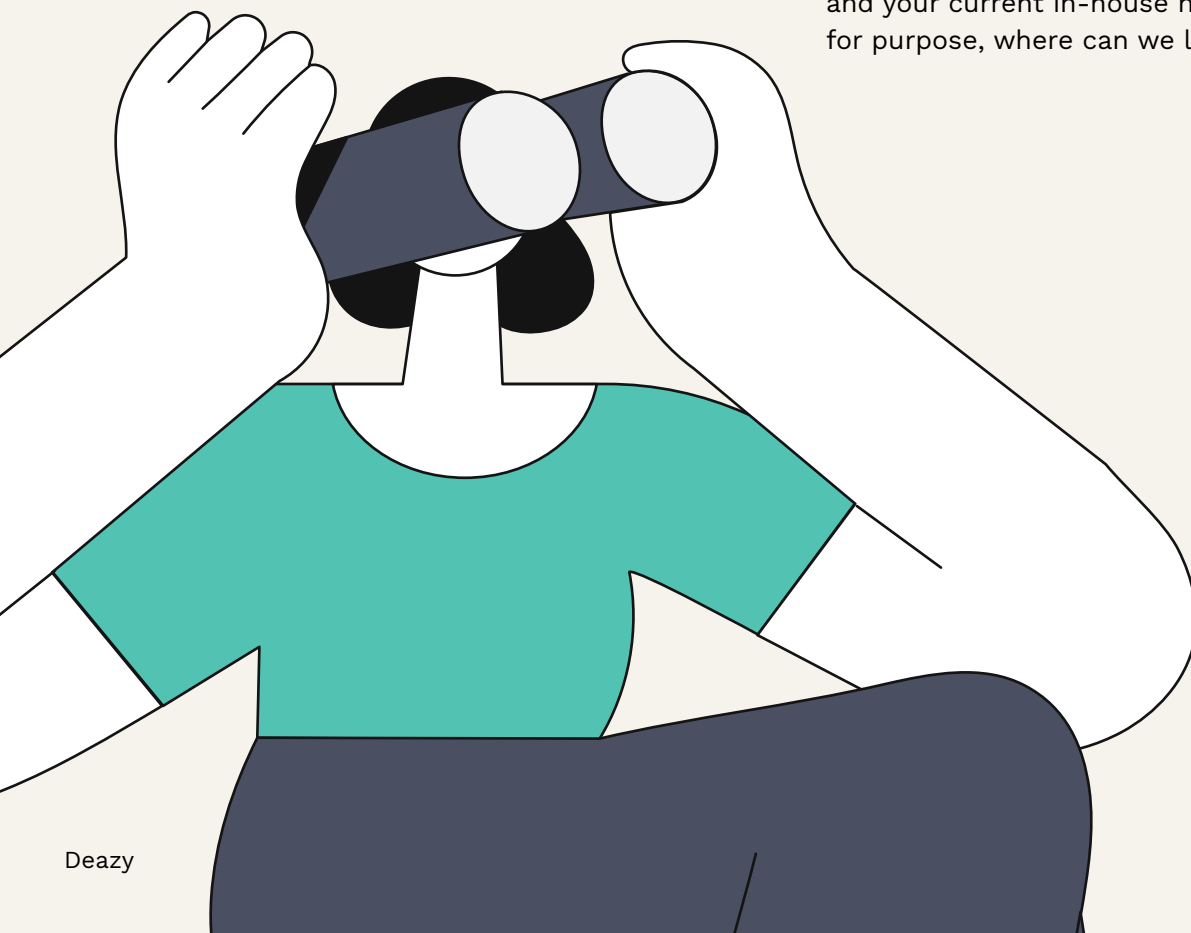
It's all very well spotting the potential optimisations available from AI automations, but this is effectively useless if there isn't time and space to update the existing processes and workflows, so that you don't experience a service gap when implementing the latest shiny new toy.

In the race to acquire new skills, both organisations and IT professionals face challenges.

For businesses, it's about identifying the right skills that align with their strategic goals and ensuring that their tech teams receive the necessary training and resources.

For IT professionals, it's a continuous journey of upskilling to stay competitive in the job market.

So, if traditional outsourcing isn't the answer, and your current in-house hiring policy isn't fit for purpose, where can we look for solutions?



Traditional Hiring Processes No Longer Work

Traditional hiring processes, often involving protracted procedures and outdated criteria, can be ill-suited to identify the right talent for specific projects. This inefficiency results in wasted time, resources, and missed opportunities for both organisations and IT professionals.

In many cases, traditional hiring practices are linear and inflexible. They rely heavily on rigid job descriptions and qualifications, which might not accurately reflect the skills and potential of candidates. Additionally, lengthy decision-making processes can deter top talent from considering opportunities with certain organisations.

Unfortunately, there's no easy fix here, but there are certain guiding principles we can strive towards.

For CTOs the task becomes education at C-Level, encouraging a shift from rigid role descriptions to a more skills-based approach across the organisation. While debatable, there is some evidence to show that as many as 45% of US companies are moving to a skills-based hiring approach, over previous experience-based hiring models.

The thinking behind this is sound; If you see your organisation more as a group of skilled people who can do various tasks, instead of just a set of specific roles, it will be easier to deal with what's needed now and adapt quickly to what's needed in the future.

But even for those that have seen the light, there's no denying that this approach represents an enormous transformational shift for many businesses, akin in scope to Digital Transformation itself.

There's also a need to approach talent entering the marketplace differently. Lower social mobility and rising education costs may block many young people from entering the industry, and if a degree is a core requirement of your hiring process, you may find you are limiting your talent pool further.

There are also softer - but no less important - factors at work in this process. Younger talent may have a different outlook on the workplace in general, and if they don't see people from similar backgrounds properly represented in the industry, it could push them in other directions, leading to further shortages over the long-term.

Revamping the hiring process is a useful step in the right direction, but it falls short of solving immediate issues. Further, the high costs and intense competition in the market means it's unlikely that you will ever be able to realistically hire and equip an in-house team that can cover every eventuality and stay ahead of current trends.

With all these changes and issues, building an effective tech team can seem like an insurmountable challenge, but before we go any further, it's a good idea to recap why we might actually want to do this - the business benefits of creating the right team.

The Rewards of Investing in Tech Teams

Despite these formidable challenges, the importance of investing time, effort, and resources in building effective tech teams cannot be understated. When managed and organised effectively, these teams become invaluable assets to organisations.

They offer a multitude of benefits, including:

01

Improved Productivity

A synchronised tech team that comprehends its goals and objectives can significantly reduce project timelines and produce higher-quality outputs. In essence, efficient tech teams translate into heightened productivity across the board.

Efficiency is at the heart of successful project delivery. Tech teams that work cohesively, understand project objectives, and possess the necessary skills can streamline processes and overcome obstacles more effectively. This results in reduced project timelines and, consequently, cost savings for organisations.

02

Fostering Innovation

Diverse and highly skilled tech teams often lead to more innovative solutions. The varied perspectives and expertise within such teams drive creativity, pushing businesses to the forefront of their industries. Innovation is a key driver of competitiveness in the modern business landscape.

Tech teams that encourage creativity and experimentation are more likely to develop groundbreaking solutions and stay ahead of the competition. Innovation not only benefits the organisation but also enhances the job satisfaction of tech team members who have the opportunity to work on exciting and challenging projects.

The Rewards of Investing in Tech Teams

03

Enhanced Operational Efficiency

Tech teams, armed with streamlined processes and up-to-date technologies, have the potential to drastically improve an organisation's operational efficiency. This efficiency extends beyond project delivery, positively impacting the overall functioning of the organisation.

Operational efficiency is a critical aspect of an organisation's success.

Tech teams that optimise processes, leverage automation, and embrace best practices contribute to smoother operations. This, in turn, reduces costs, enhances customer satisfaction, and allows organisations to reallocate resources more strategically.

04

Elevated Customer Satisfaction

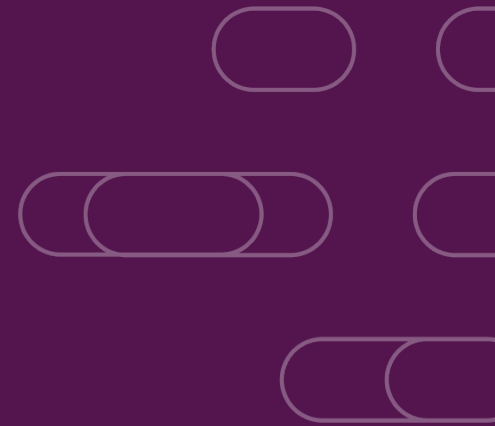
Efficient tech teams contribute to the development of superior products and services, resulting in higher levels of customer satisfaction and loyalty. Meeting and exceeding customer expectations is a hallmark of an effective tech team.

Tech teams that can prioritise the delivery of high-quality products and services not only retain existing customers but also attract new ones through positive word-of-mouth and referrals.

The journey to building and maintaining high-performing tech teams is fraught with challenges, but it's far from impossible. With the correct, flexible approach to talent and skills resourcing, it's possible to capitalise on new opportunities and avoid - and possibly even reverse - the effects of a shrinking talent pool.

In the next chapters we'll delve deeper into strategies, best practices, and actionable insights that tech leaders can employ to overcome these challenges.

02



Understanding the Importance of Flexible Team Structures

- Introduction to Flexibility in Teams
- The Imperative of Flexibility in Tech Teams
- Key Attributes of a Successful Team
- Balancing Specialists and Generalists in Teams
- Challenges with Universality in Skillsets
- Outsourcing and ‘Upsourcing’ in Matrix Businesses
- Advantages of Matrix Organisations
- Challenges of Matrix Organisational Structures
- The Central Role of Tech Team Structures in Organisational Growth
- Introducing Flexibility for High-impact Capability

Almost everything written about creating high-performance teams (in any discipline) will centre around a single piece of advice: be flexible.

But what do we mean by flexible?

Prevailing wisdom looks at ways to incorporate flexibility into your existing in-house team. That's by no means bad advice, but it fails to grasp the raft of challenges faced by most CTOs.

Let's unpack things a little more.

Why, one might ask, is flexibility so paramount?

The answer lies in the rapidly shifting technology horizons and the accompanying business imperatives. To understand this better, let's consider the key attributes a solid team needs.

01

Responsive to Market Changes:

In an age where a technological breakthrough can disrupt entire industries overnight, the ability to pivot quickly is not just an advantage; it's a necessity. A flexible team structure ensures that organisations can realign themselves with emerging technological trends, ensuring that they are always in sync with, if not ahead of, market demands.

02

Adaptability in the Face of Uncertainty:

New challenges arise without warning – be it a sudden software bug, a security breach, or adapting to a new platform. A rigid team structure can be a bottleneck. In contrast, flexible teams can quickly regroup, re-strategise, and redirect their efforts to address unexpected challenges.



03

Improved Project Delivery:

Project scopes aren't set in stone. They evolve, often expanding or pivoting based on client feedback, market research, or testing phases. Flexible teams, by their very nature, can accommodate such shifts seamlessly, ensuring that the final deliverable remains of high quality and relevance.

So it makes sense to build a team that can move seamlessly from one approach to another. But is it really possible in practice?

Most advice focuses on expanding the skills and abilities of your existing team. A shared skillset helps patch vulnerabilities, reduces the reliance (and stress) on any single person, and not least, keeps people interested and engaged in their roles.

But consider the makeup of a given team or department.

In any team, department or business, there will always be specialists. The mechanics and core experts who really understand the mechanics of the tech stack. The creators of your core code. The implementation experts who make sure your integrations and enablement programmes are rock solid.



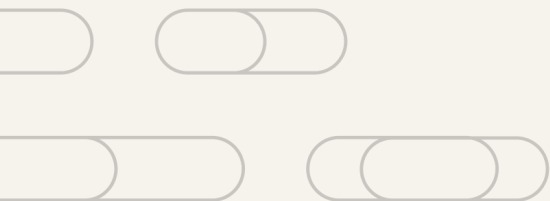
You'll also have a range of generalists, who deal with the mapping of future programmes, or additional tactical updates that keep the lights on.

Not everyone can be both specialist and generalist.

If everyone can do "a bit of everything", there's a very real danger that they may be a master of none. Giving people constant opportunities to work with the newest advancements can be very valuable, but not if it is at the expense of the foundational work you do every day. There is a balance to be struck between adaptability and deep skills.

Getting this balance right means that even with very large departments and resources, you will always face certain limitations, whether it's in the face of a paradigm-changing new technology, or simply a refocus of company strategy. Change will be constant, and so will the need for extra support and input.

Fortunately, there are some organisations that already have large resources, but still outsource (or more often 'upsource') their technical operations in a variety of ways: Matrix businesses.



Lessons From The Matrix

Taking inspiration from matrix organisations might offer a beacon for those looking to introduce flexibility. These organisations, with their big budgets and multitude of projects, have to inherently understand the importance of fluidity.

Matrix structures, where individuals have multiple managers and roles can be defined by both function and product, thrive on adaptability.

Still, it's essential to note that while matrix models have their strengths, they are not without challenges – potential power struggles and role ambiguities to name a few. However, the essence of a matrix organisation – its flexibility – is what businesses should aspire to integrate, even if they opt for a different organisational model.

The intricate relationship between functions and the business as a whole demands agility - particularly when the function provides services to so many others. An organisation's resilience and competitive edge lie in its capacity to morph, adapt, and evolve. The structure of its tech teams is central to an organisation's growth.

Now, let's delve into the nuts and bolts of introducing flexibility, ensuring not just efficiency, but high-impact, high-growth capability.

This can offer several advantages over traditional hierarchical models:

01

Resource Optimisation:

By drawing on a pool of resources based on project needs rather than rigid departmental lines, matrix organisations ensure optimal utilisation of talent.

02

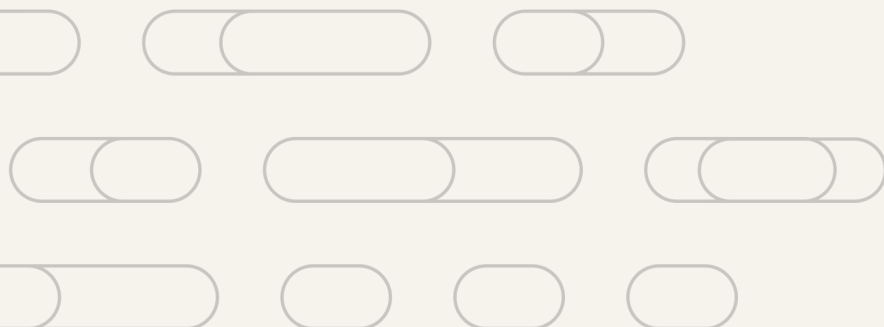
Cross-functional Collaboration:

Such a structure fosters a collaborative ethos. Professionals from varied disciplines come together, bringing diverse perspectives that can lead to innovative solutions.

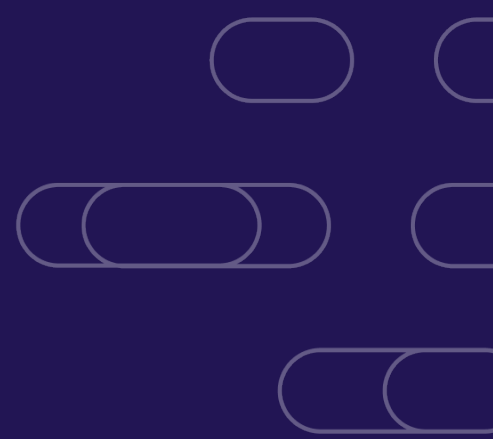
03

Skill Development:

With a chance to work on varied projects and roles, employees in a matrix structure can hone a broader set of skills, making them invaluable assets.



03



Strategies for Building Flexibility into Tech Teams

- Goals of Flexibility in Tech Teams
- Strategies to Improve In-House Capability
 - Invest in Cross-training
 - Encourage a Culture of Continuous Learning
 - Opt for Modular Project Structures
 - Adopt Flexible Work Models
 - Foster Open Communication
 - Utilise Collaborative Technology Tools
 - Review and Iterate
- The Essence of Building Flexibility into Teams
- The Role of Recognising Specialist Skills in Teams

Strategies for Building Flexibility into Tech Teams

It's important to remember that flexibility has two different goals.

On one side, you want to make sure your internal team is performing well.

On the other hand, you need to minimise the disruption and additional management load when using outside help to augment capabilities or overall capacity.

Let's look at each in turn, starting with some steps you can take to improve your existing in-house capability.

01

Invest in Cross-training:

Breaking down the misconception that specialists should be confined to their niches, cross-training is a valuable strategy.

While deep expertise is undoubtedly important, a broader understanding of related areas can significantly enhance flexibility. By cross-training team members, organisations can ensure that skills gaps during peak times or emergencies are minimised.

Key Takeaway:

When tech professionals understand more than their core area, it aids in smoother collaborations, quick problem resolutions, and provides a holistic view of projects, which is crucial for adaptability.



02

Encourage a Culture of Continuous Learning:

The pace of technological evolution is nothing short of staggering. Ensuring that your tech team remains updated requires a steadfast commitment to continuous learning.

Investing in training programs, encouraging attendance at conferences, or allocating time for self-paced courses are all strategies that demonstrate a dedication to growth.

Key Takeaway:

A team that's in a constant state of learning is inherently more adaptable. They're not merely reacting to technological advancements; they're anticipating and harnessing them.

03

Opt for Modular Project Structures:

Breaking projects into smaller, modular components is a strategy that promotes flexibility, especially in software development. Cross-functional teams, CI/CD pipelines, and well-defined APIs are key components, ensuring efficient collaboration and scalability. Centralised governance, documentation, and change management maintain consistency while allowing for decentralised decision-making. Continuous monitoring and feedback loops improve product quality.

Key Takeaway:

Modularity means that even if one component faces challenges, the entire project doesn't grind to a halt. It epitomises flexibility in action by allowing for independent workstreams. Modular structures enhance flexibility and efficiency, making it easier for technology companies to adapt to changing requirements, scale their projects, and innovate rapidly while maintaining a high standard of quality.

04

Adopt Flexible Work Models:

The rise of the gig economy and remote work has reshaped traditional work paradigms. Organisations should consider flexible work hours and remote working days for in-house teams. Modern developers will expect this flexibility, and it can make a tangible difference in attracting and retaining your top talent.

Key Takeaway:

A flexible work model can lead to improved productivity, job satisfaction, and a wider talent acquisition net. It aligns work arrangements with the changing expectations of tech talent.

05

Foster Open Communication:

Flexibility is as much about mindset as it is about action. Encouraging open communication ensures that team members feel comfortable voicing concerns, suggesting changes, and actively participating in the project's direction. Tools like stand-up meetings, retrospectives, or open-door policies can be invaluable in promoting transparent and productive dialogue.

Key Takeaway:

When team members communicate freely, potential issues are flagged early, and collaborative solutions can be found swiftly. Open channels foster trust and cohesion.



06

Utilise Collaborative Technology Tools:

The market is rife with tools designed to aid collaboration and project management. Tools like Slack, Trello, or Jira can help teams stay synchronised, manage changing project scopes, and ensure everyone remains updated. These tools provide a digital framework that facilitates real-time communication and efficient workflow management.

Key Takeaway:

The right tools not only streamline processes but can also introduce inherent flexibility in how projects are managed and executed. They enhance transparency and accountability.

07


Review and Iterate:

Building flexibility into tech teams is an ongoing process, not a one-time endeavour.

Regularly reviewing team structures, project outcomes, and processes is essential. This practice identifies areas of improvement, allows for continuous adaptation, and facilitates the application of lessons learned from one project to the next.

Key Takeaway:

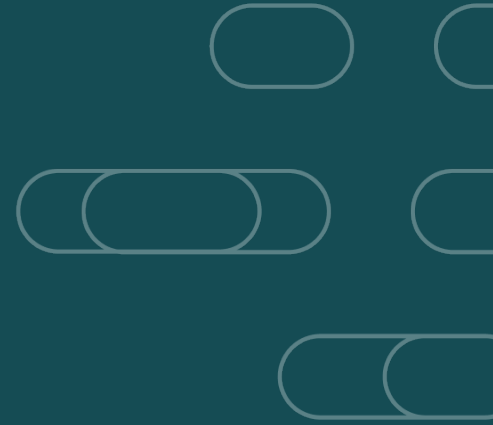
The goal is to create a feedback loop, where lessons from one project inform the next, ensuring ongoing refinement and increased flexibility.



Building flexibility into tech teams is not about upending existing structures overnight. Instead, it involves weaving adaptability into the fabric of the organisation. The strategies outlined here, when thoughtfully applied, can ensure that tech teams are not only prepared for the challenges of today but also equipped to navigate the complexities of the future.

Remember though, that this represents the very highest level of your overall approach. Recognising specialist skills is already playing an increasingly important part in successful teams. In our next chapter, we'll consider this in more detail.

04



Leveraging the Skills of Specialists for Optimal Project Delivery

- Challenges with Specialist Roles
- Strategic Resource Planning
- Outsourcing Dynamics
- Strategies for Navigating Outsourcing
- Key Team-Building Approaches
- Strategic Decision Making
- Project Management Considerations

Leveraging the Skills of Specialists for Optimal Project Deliver

Earlier, we mentioned that any solid tech team will have a range of generalists and specialists. Specialists provide deep knowledge and expertise, and most in-house teams will have at least a couple of highly specialised roles that are core to the entire organisation's success.

However, these roles understandably come with a hefty price-tag attached, and you may find an already limited talent pool severely limiting your options and making the recruitment process longer and more complicated than usual.

Even once you've found the ideal candidate, other businesses will be highly motivated to attract these key personnel, and should you manage to find the right fit, you may find that you inadvertently cause bottlenecks or vulnerabilities by relying entirely on one person for key tasks.

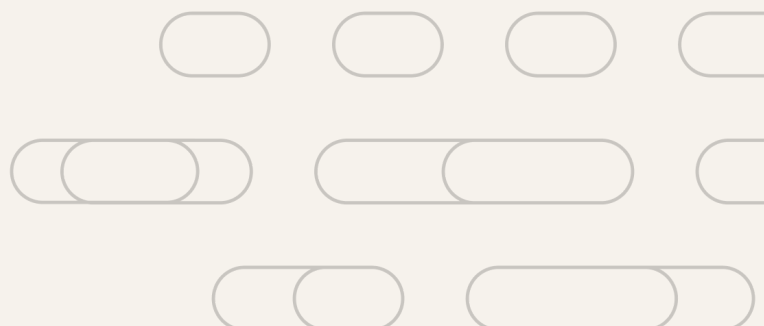
In most cases, it simply isn't viable to keep a wide range of specialists on the bench. In many cases they may be under-utilised, and focussing their entire workload around a single task or function can also lead to dissatisfaction - or even boredom - with the role.

Instead, leaders need to strategically consider the types of specialisation they may need over the short, mid and long term. Will you be employing specific skills on a project, programme, or across an entire business function? Will your project be short-term - for example, a marketing campaign with a finite end date - or will it involve the ongoing evolution of a product or service?

In these situations, outsourcing is often the most sensible choice. However, not all resources are created equal. For example, many leaders might look to an agency to provide quick completion for key projects. However, these can also come with limited ways of working, and may have a limited tech stack. For a one-off project, an agency could be ideal, but for an ongoing partnership you may want to consider other options - consultancies, off-or-nearshore development houses, managed or unmanaged marketplaces. All will have different options and price-points available, which may suit particular projects.

Fortunately, there are some strategic approaches you can take to help you navigate this maze and make sure you're choosing the right type of partner, and achieving the right balance between in-house and external resource without stretching your management resource or budget to breaking point.

Firstly, let's consider some of the key approaches you should incorporate into your team-building process. Remember, you may need to return and reassess these for individual projects, depending on the scale and longevity required. Some of these approaches will be helpful to your in-house team, some to your external collaborators, and some apply to both.



Encouraging Cross-Functional Collaboration:

While specialists excel within their own domains, innovative solutions often emerge at the intersections of different disciplines.

By fostering collaboration between specialists, you create an environment where, for example, a data scientist working closely with a UI/UX designer can yield a user interface that's not only visually appealing but also data-efficient. These interdisciplinary collaborations can be a breeding ground for groundbreaking ideas and solutions.

Continuous Skill Development:

Even specialists need to keep their skills sharp. Whether it's attending workshops, webinars, or conferences relevant to their domain, providing opportunities for specialists to deepen and broaden their knowledge is essential. This ensures they remain at the forefront of their field, ready to tackle new challenges.

Fluid Resource Allocation:

While project teams may have a core structure, it's essential to allow for flexibility in allocating specialists. Project scopes can change, and the need for specific skills may arise. Having a structure that enables specialists to move between projects or tasks ensures agility in project delivery, adapting to evolving requirements.

Skill Mapping:

To use skill mapping for your project, start by assessing your internal team's skills and identifying any skill gaps compared to your project's requirements. Create a skills matrix that outlines mandatory and desirable skills.

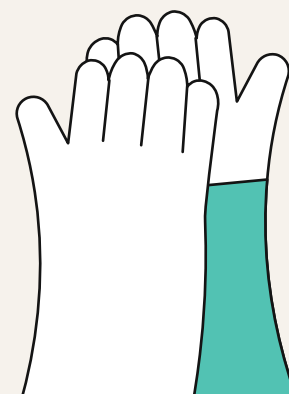
When seeking external talent, evaluate candidates based on their skill profiles. Clear expectations and onboarding procedures are vital, and you should regularly update the skills matrix as the project progresses.

Periodic skill assessments ensure everyone meets the project's evolving needs. Skill mapping, when done right, helps assemble a well-rounded team capable of successfully executing your development project.

Building a Culture of Respect and Recognition:

Specialists thrive in an environment that values and respects their expertise. Fostering a culture where deep domain knowledge is recognized and celebrated not only motivates specialists but also leads to better project outcomes.

A culture that values specialisation elevates the entire team's morale. When incorporating external collaborators into your team, ensure that their work receives the same amount of recognition as your own team's output. Over time, this will help drive better cohesion and closer collaboration between internal and external elements.



Strategic Decision -Making: Combining In-House Talent with External Expertise

The key to successful project delivery lies in understanding when and how to combine your in-house talent with strategic outsourcing. It's not a question of either/or but a strategic decision based on the unique requirements of each project.

Combining the strengths of your internal team with the specialised skills offered by external resources can lead to more efficient, cost-effective, and successful project outcomes.

Scenarios Where External Expertise Shines:

Strategic outsourcing is particularly valuable when your project requires highly specialised skills that are not readily available in-house.

For example, the development of complex machine learning algorithms or specialised blockchain solutions may benefit from the expertise of external specialists who live and breathe these technologies.

In these scenarios, managed marketplaces can seamlessly integrate external experts into your project team, providing the necessary skills without the long lead times and resource-intensive efforts required for in-house recruitment and training. This approach allows your team to focus on what they do best, while the specialists take care of the highly specialised aspects of the project.

Combining Internal and External Teams:

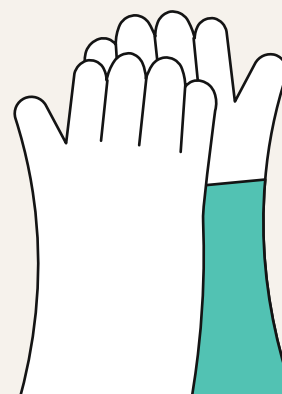
Effective project delivery often involves a hybrid model that combines your internal team's knowledge of your organisation's specific needs and goals with the specialised skills brought in by external experts.

The internal team can provide context, continuity, and alignment with your company's culture and vision, while the external experts inject their cutting-edge knowledge and skills into the project.

This collaborative approach can lead to innovation and problem-solving that may not have been possible with an entirely in-house team. By striking the right balance between internal and external resources, you can maximise project efficiency, cost-effectiveness, and success.

Project Management Considerations:

While strategic outsourcing offers numerous advantages, it's not without its management challenges. Effectively integrating external experts into your project requires robust project management, clear communication, and a well-defined scope of work.



Cultural Alignment:

While external specialists bring valuable skills, it's also essential to consider cultural alignment. The experts should understand and respect your organisation's values, mission, and work culture to integrate seamlessly with your in-house team.

Again, some resourcing models will limit your contact with team members, and may offer limited ways of working. While this can help with project management, it also means you will struggle to build resource that feels integrated and collaborative. This may disrupt internal processes as your own team is left in the dark about ongoing progress, as they need to funnel communications through a third party.

Clear Communication and Expectations:

To ensure the successful collaboration of internal and external teams, it's crucial to establish clear lines of communication and set expectations from the outset. Define project goals, timelines, and deliverables clearly to avoid misunderstandings and scope creep.

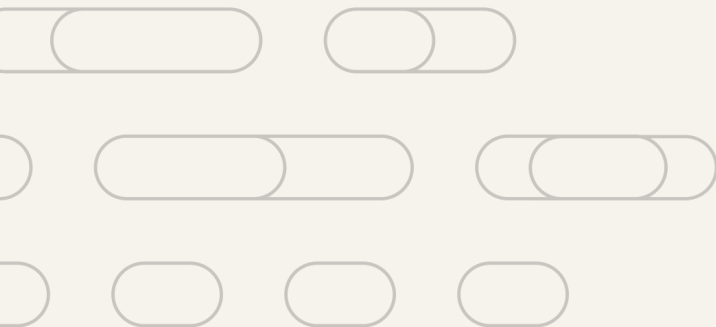


Project Oversight:

Effective project management is essential when dealing with external experts. Someone on your internal team should have the responsibility to oversee and coordinate the work of external specialists. This ensures that the project stays on track and aligned with your objectives.

This is particularly salient when considering which outsourcing model you choose. As an example, an open marketplace can provide you with quick access to talent, but they will need constant, close supervision and guidance, adding a significant management overhead which could reduce your in-house capacity (not to mention the job satisfaction of the person tasked with extra management duties).

In many cases a managed marketplace is a superior choice here, allowing you to access the skills you need quickly while removing the onerous management and verification process. While consultancies and agencies may also be able to provide this service, they may also have higher costs, limited tech or skill sets available, and may limit your direct contact - and therefore cultural compatibility - with additional developers working on your projects.



Cost Control:

External expertise often comes at a cost, and it's important to manage these expenses effectively. Ensure that the project's budget accounts for the fees associated with external specialists and any potential additional project management costs.

In some cases, you might find that your resourcing partner will be compelled to offer additional services and value-adds that may not be strictly needed for your project. While there can be value here, it can also lead to spiralling costs.

Make sure you have clearly outlined expenses, budgets and requirements in advance, and ensure your partner can deliver to your timeline.

Project Management Considerations:

While strategic outsourcing offers numerous advantages, it's not without its management challenges. Effectively integrating external experts into your project requires robust project management, clear communication, and a well-defined scope of work.

Scalability and Flexibility:

One of the key advantages of strategic outsourcing is scalability. You can quickly adjust the size and composition of your project team based on project requirements. However, this flexibility must be balanced with stability to ensure consistent progress toward project goals.

If you are working on a long-term project, or a one-off delivery that will still require maintenance and updates in the future, you will be well-served to choose a resourcing partner that can make sure you retain access to code and documentation, and that can match your current tech stack.

A build which won't integrate with your systems or which cannot be updated in future could end up being a big sunk cost, as you find yourself with limited partner options or even the need to rebuild from scratch in the future. Always consider the long-term needs of a project before choosing a partner.



Conclusion

In the quest for optimal project delivery, recognizing the value of specialist skills within your tech teams and strategic outsourcing can be a game-changer.

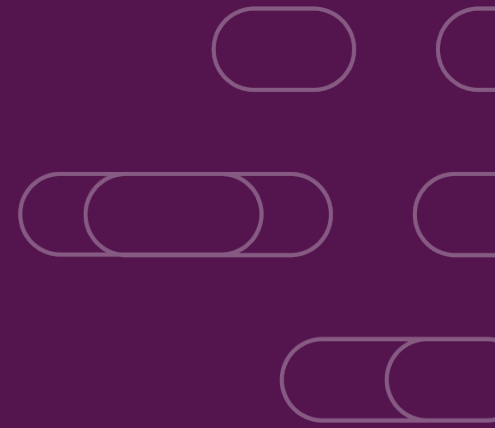
Combining the unique expertise of your in-house team with the specialised knowledge offered by external resources allows you to efficiently tackle complex projects, enhance innovation, and achieve better project outcomes.

Strategic outsourcing, whether through managed marketplaces, agencies, near-or-offshore development houses, open marketplaces, or consultancies, provides the agility to adapt to changing project requirements, access highly specialised skills, and accelerate project initiation. However, it also introduces management challenges that require clear communication, oversight, and cost control.

By understanding when and how to integrate external expertise, you can strike a balance that maximises the efficiency, cost-effectiveness, and success of your projects. The journey to success doesn't hinge on doing it all in-house but on leveraging the right mix of internal and external resources.



05



Implementing Organisational Changes for Building Successful, Flexible Teams

- The CTO's Evolving Role in Championing Change
- A Cultural Shift for Modern Tech Teams
- Reinforcing Clear Communication Channels
- Fostering Open Dialogue and Feedback
- The Importance of Regular Team Sync-Ups and Documentation

The CTO's Evolving Role in Championing Change

Having a practical approach to flexibility is all well and good, but perhaps the most important part of the shift to flexible structures is championing the shift away from traditional models and towards a more skills-based approach to provisioning.

With change often comes resistance, especially when it shifts the status quo. As business requirements have shifted, so too must the role of the CTO. Tech leaders now bear the responsibility of steering organisations towards accepting and benefiting from flexible structures. Many of these changes have originated in technology departments, where a need for agility and scalability has by necessity driven new project models.

A successful strategic CTO promotes harmonious integration of external expertise whilst ensuring the internal teams remain aligned and invigorated.

A Cultural Shift for Modern Tech Teams

Modern tech teams thrive on openness. Encouraging inter-departmental exchange and dismantling silos becomes pivotal. Here, the CTO's role is paramount: by modelling inclusivity and championing diverse collaborations, they set a precedent for the whole organisation.

The CTO's role is to communicate the benefits of active learning, and to showcase the benefits of external resourcing - particularly the skills, knowledge and perspectives that external specialists bring to your team, and importantly, how to ensure this knowledge is successfully internalised over the long term.

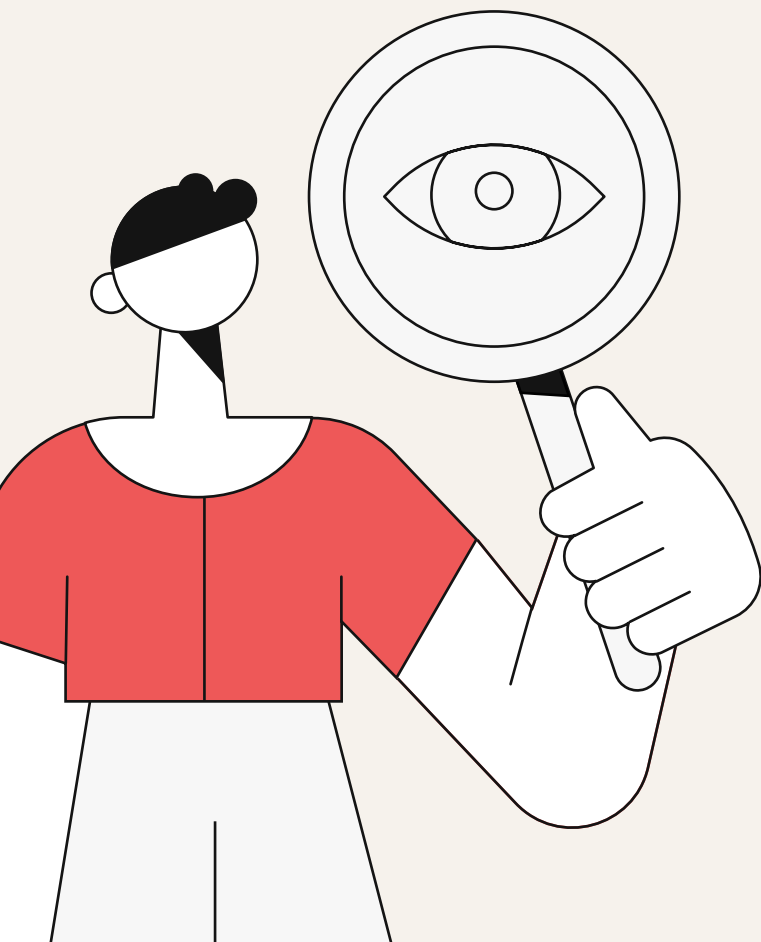
We've already looked at some ways to ensure this knowledge transfer, not least fostering a culture of continuous learning. While workshops, courses, events, hack days and more can help ensure your team is always learning, don't ignore the opportunities they have to learn from the experts provided by your resourcing partner.



Reinforcing Clear Communication Channels

In mixed teams comprising internal and external members, ambiguity is the enemy. Clear, well-defined communication channels become imperative to ensure that everyone is in sync, reducing friction and streamlining processes. This can be reinforced through tools, communication and documentation.

On the tools front, remember that not all tools are created equal. The choice must be influenced by project-specific needs and team composition. Comprehensive onboarding processes ensure that both internal and external talent are adept and comfortable using these platforms. In some cases external developers and experts may have a preference for a certain tools set - this tends to be prevalent when working with consultancies or agencies - so make sure that you are able to link up your in-house team members with external contributors quickly and efficiently.



Fostering Open Dialogue and Feedback

Linking up contributors and team members through collaborative tools is only part of your communication process. It falls to leadership to encourage open communication.

A culture of open dialogue fosters innovation. Leaders and managers must be trained to not just accept but to actively seek feedback, ensuring that teams feel valued and heard.

Feedback, when structured and actionable, becomes a goldmine for improvement. Implementing mechanisms like retrospectives and tailored one-on-ones accommodates the unique dynamics of flexible teams, facilitating their growth.

In addition, make sure that this culture is formalised, by establishing collaboration protocols and approaches. Clear protocols, outlining when and how various departments interact, can maximise efficiency and encourage innovation. Here, the CTO acts as a linchpin, bridging different departments and ensuring seamless collaboration.

Make sure you extend these protocols when working with external resource. Have a documented, consistent approach to communications at every level to ensure the right information can be accessed whenever it is needed. Avoid situations or ways of working that wall your own team off from their external counterparts. While not every team member needs a direct line to a freelancer or consultant, encouraging a flat approach to communication hierarchy and avoiding unneeded bureaucracy can boost your project progress considerably.

The Importance of Regular Team Sync-Ups and Documentation

Whether externally resourced, remote or in-house, regular team sync-ups cater to the evolving needs of flexible structures, ensuring that every team member is aligned with the project's objectives and milestones. As we've already mentioned, use these not just to keep projects on track, but also to celebrate milestones and call-out contributions from every collaborator.

Highlighting these emphasises the value of collective effort, but also imparts information about new or streamlined approaches to the team quickly.

Finally, make sure you are documenting inputs correctly and in detail. Documentation is often an overlooked aspect, but its importance in flexible teams can't be stressed enough.

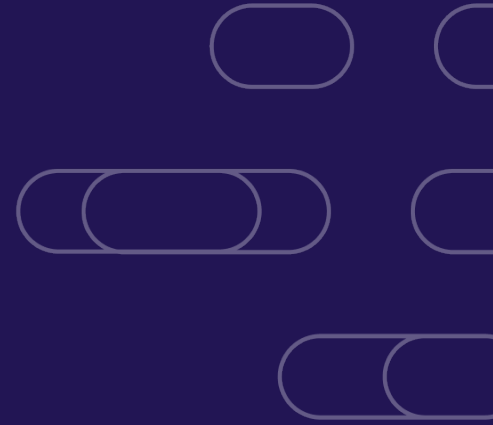
It ensures that the rationale behind decisions is preserved, facilitating smoother transitions and handovers. A culture that prioritises documentation reaps long-term benefits, especially in terms of consistency and clarity.

When working with a third-party this is especially important, particularly if you need to return to a project in the future to update or maintain elements.

The intertwined nature of flexibility, specialisation, and communication is glaringly evident. The onus is now on CTOs and tech leaders not merely to recognise these principles but to actively engrain them in their organisational DNA.



06



Concluding Reflections on Building and Sustaining Flexible Tech Teams

- Recapping the Guide's Insights
- Reflecting on Our Technological Landscape
- Redefining the Role of Leadership in Flexibility
- The Imperative of Robust Communication Channels
- Instituting a Seamless Shift to Flexibility
- Investing in Continuous Learning
- Conclusion: The Necessity of Flexibility in Tech

Throughout this guide, we've dissected the imperatives and strategies of creating and sustaining flexible tech teams. Each chapter shedding light on various facets of flexibility in the rapidly evolving technological realm.

Here, we've collected some of the most important takeaways for easy reference.

Reflecting on The Tech Landscape

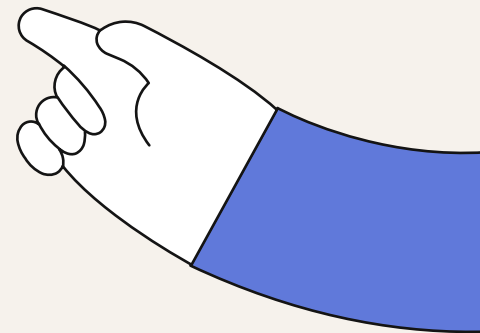
As we established, the contemporary technological arena is constantly shifting, with demand for tech talent outpacing supply. In this landscape, the conventional model of fixed, permanent teams is increasingly proving to be inadequate.

Instead, the emphasis is shifting towards a skills-based, flexible approach to team provisioning. This approach champions diversity, continuous learning, and adaptability, equipping teams to better respond to dynamic project requirements and industry shifts.

Redefining the Role of Leadership in Flexibility

The evolving role of leadership in championing flexibility cannot be overstated. The CTO's newfound responsibility in steering organisations towards embracing flexible structures, moving away from rigid, traditional models.

The CTO's influence is vital in advocating for openness, dismantling silos, and fostering a culture of continuous learning. Their pivotal role isn't just about bringing in external experts to plug gaps in capability or capacity, but ensuring that internal teams remain invigorated, aligned, and receptive to new skills and knowledge.



The Imperative of Robust Communication Channels

The critical importance of communication cannot be overstressed. In mixed teams, be they remote, in-house, or externally resourced, ambiguity is the adversary. Establishing clear, well-defined channels of communication is paramount. While the choice of tools is crucial, it is the culture of open dialogue and feedback that truly underpins successful team dynamics. Leaders must not only promote open channels but actively seek feedback, ensuring every voice is valued and heard.

Instituting a Seamless Shift to Flexibility

When senior leadership embodies flexibility in their actions and decisions, it becomes significantly easier to cascade across the business. Their commitment and endorsement send a powerful message. To embed flexibility sustainably within an organisational structure, we must first discern our current organisational landscape. Incorporate introspection before action. This initial diagnosis sets the stage for strategic shifts, guided by senior leadership's unwavering support.

Investing in Continuous Learning

Fostering a culture of ongoing education ensures that tech teams remain at the forefront of their fields. Moreover, by collaborating with specialists and experts, teams can imbibe diverse knowledge, equipping them to tackle a myriad of challenges.



Conclusion

Throughout this guide we've explored the impetus for flexibility, and explored its strategies and sustainable implementation. As the tech talent and skills landscape continues its relentless march forward, companies face the ever-present challenge of adapting and staying relevant. At the heart of this challenge lies the imperative for flexibility.

We've journeyed from understanding the critical role tech teams play in modern organisations to highlighting the challenges they face. The idea that an effective team is, by nature, a flexible one, should be evident. By leveraging the unparalleled expertise of specialists, and fostering an ethos of collaboration, organisations can harness the true power of their tech teams.

As we conclude, remember: in the dynamic, ever-evolving world of tech, rigidity is the fast track to obsolescence. Flexibility isn't just the key to surviving; it's the key to thriving. Whether you're a tech giant or a fledgling start-up, embracing flexibility ensures that, come what may, you remain agile, adaptive, and ahead of the curve.

The Journey Continues

This guide is just the beginning of your journey towards building effective tech teams in an ever-changing landscape. Requirements will continue to evolve, and so must your strategies and structures.

Stay committed to adaptability, keep learning, and remain open to change. Your tech teams, armed with flexibility, will be your organisation's greatest assets as you navigate the challenges of tomorrow.



DEAZY

deazy.com