



Steel Builders' Success with TSARSI

Technical Advancements in Construction Operational Management.

Introduction



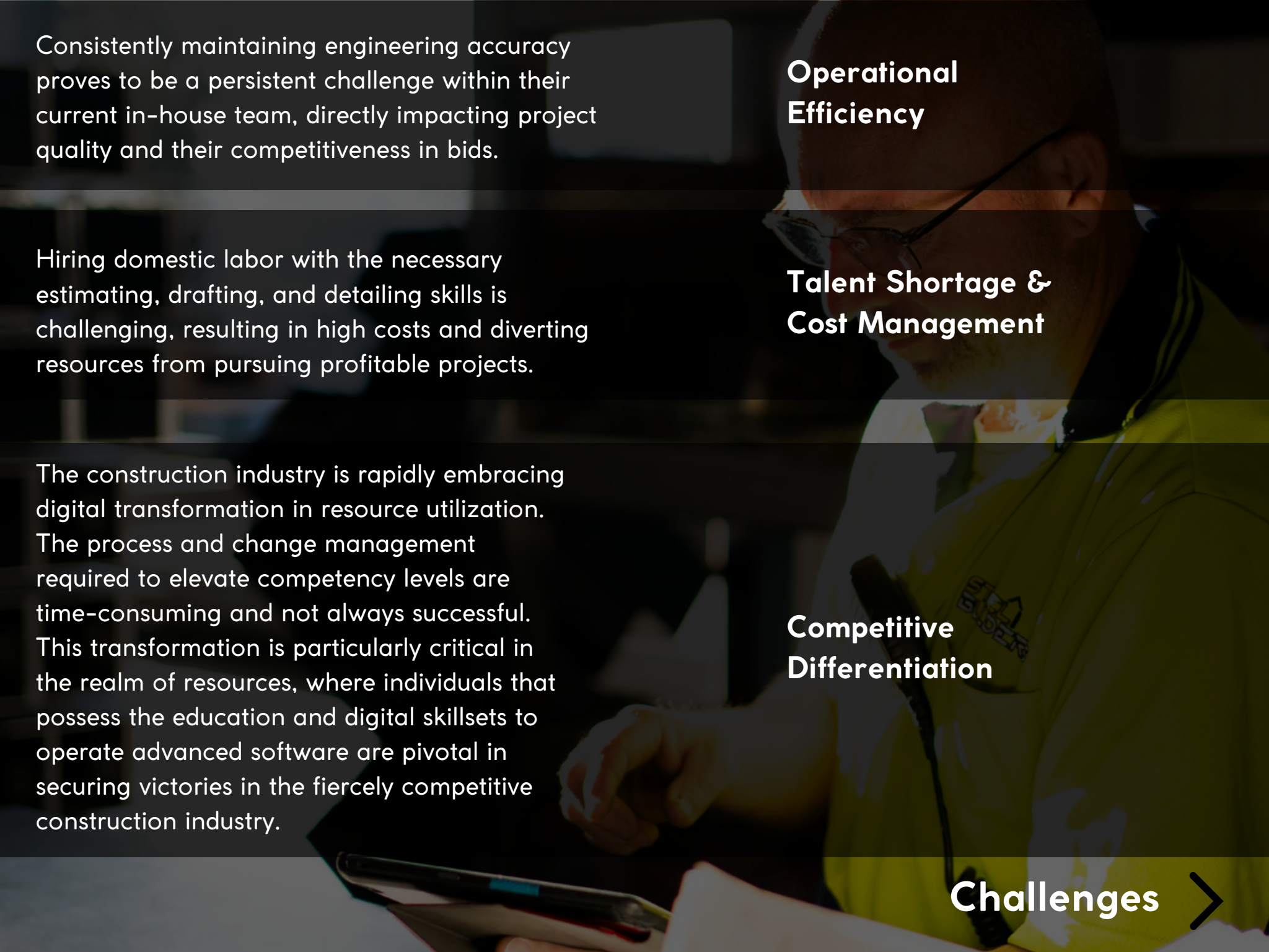
Steel Builders, a prominent figure in the Australian construction realm, embarked on a mission to achieve a paradigm shift in their project management efficiency. Faced with challenges including cost overruns, a severe shortage of specialized technical professionals, and relentless competition for project contracts, they strategically harnessed TSARSI's technical resource services. This case study delves into their technical resource services and strategic partnerships.





Steel Builders has firmly entrenched itself in the construction domain. Interestingly, the dynamic construction landscape in Australia demanded a comprehensive technical overhaul to maintain competitiveness. Escalating project expenditures, a shortage of adept technical professionals in drafting, estimating, and detailing, and the intensifying competition for project procurements prompted a technical transformation.



A construction worker wearing a yellow safety vest and glasses is looking down at a tablet device. The background is blurred, showing an indoor construction or office environment.

Consistently maintaining engineering accuracy proves to be a persistent challenge within their current in-house team, directly impacting project quality and their competitiveness in bids.

Operational Efficiency

Hiring domestic labor with the necessary estimating, drafting, and detailing skills is challenging, resulting in high costs and diverting resources from pursuing profitable projects.

Talent Shortage & Cost Management

The construction industry is rapidly embracing digital transformation in resource utilization. The process and change management required to elevate competency levels are time-consuming and not always successful. This transformation is particularly critical in the realm of resources, where individuals that possess the education and digital skillsets to operate advanced software are pivotal in securing victories in the fiercely competitive construction industry.

Competitive Differentiation

Challenges





Solutions

To surmount these formidable challenges, Steel Builders engaged TSARSI's technical resource services, harnessing a comprehensive suite of construction software expertise, including Bluebeam, CAD, Raptor, and Tekla. This encompassed:

Dedicated Offshore Technical Team

TSARSI assembled a dedicated offshore team, boasting consummate proficiency in these software applications, meticulously integrated with Steel Builders' project management framework.

Mastery of Advanced Construction Software

The offshore team demonstrated unparalleled adeptness in harnessing the capabilities of Bluebeam for precise cost estimation and digital takeoffs, CAD for Shop Drawing, Tekla for structural detailing, 3D Modeling and Shop Drawing, and Raptor for executing intricate operations like copying, scribing, developing hole patterns, adding weld symbols, and more.

1. Streamlined High-Standard Operations

TSARSI's Dedicated Resource Team has achieved remarkable efficiency, maintaining a high standard of accuracy across Estimating, Drafting, Detailing, and executing intricate operations in offsite digital construction works. This efficiency has seen **an increase of over 30%** compared to in-house performance. The streamlined process, supported by highly skilled resources, has consistently **delivered 100% accuracy at each stage**, eliminating the need for time-consuming back-and-forth and rework, which used to occur frequently before TSARSI's resource solutions were implemented.

2. Enhanced Autonomy with Trusted Resources

Steel Builders now empowers TSARSI's resources to **manage all stages with minimal supervision**, as TSARSI's resource team consistently delivers high-quality work that has earned the trust of Steel Builders.

3. Resource Shortages No Longer a Concern

TSARSI's dedicated resource team is always ready to adapt to changes and urgent requests, ensuring **on-time engineering work delivery**. Delivery speeds have exceeded expectations by **over 200% compared** to the initial plan. This not only **increases the likelihood of winning bids** but also significantly reduces the effort required from the entire team, both offsite and onsite.



1.

Harnessing offshore technical expertise can effectively address technical skill shortages while optimizing labor costs.

2.

By strategically partnering with technical resource service providers like TSARSI, construction project managers can realize cost efficiency gains and bolster their competitiveness.

3.

Proficiency in advanced construction software is paramount for precise cost estimation and efficient project execution.

Reach out to us to explore additional case studies and start our strategic partnership.

Matthew Peterson – Business Development Manager at TSARSI
+1 651.319.7912 – for the Estimating, Drafting, and Engineering Services