Explainer

Digital Twin as a Service.

The efficacy of a Digital Twin solution is correlated to how well it reflects the system process of thing it is a twin of. This might sound obvious, but it is an important point. Entopy's foundational thesis is that for software to deliver effective intelligence, it must be built into and around the target environment and be capable of capturing the unique dynamics of the target operation. This requires building unique Digital Twins each time. The advantages are highly effective models that actually work and deliver value. The drawbacks are time and cost of deployment.

Entopy has developed a 'Digital Twin as-a-Service model' which helps to offset the drawbacks and deliver the advantages of this approach.

Technology: Over many years, Entopy has developed its proprietary AI-enabled Digital Twin platform which is the central reason Entopy is able to move with such speed and flexibility. Entopy's ontology enables integration with existing systems and data and abstracted workflows allow us to put that data to work rapidly. Our AI micromodel approach allows us to start small and move iteratively, with the average AI micromodel deployment time around 1 month. We have other proprietary tools and technologies that allow us to overcome key challenges such as data availability and shared access. When most people think of a 'platform' they think of a self-service tool that they can use straight away. We use the term platform as we have built proprietary software that our engineers can use to deliver a unique Digital Twin in weeks.

Deployed engineers: Entopy's combines its proprietary software and its expert developer resource to deliver operational and predictive intelligence as-a-service. Entopy's developers understand Entopy's proprietary technology – they built it. They can flex, move, shift and change as they progress. This combination enables us to deliver highly effective intelligence, unique to the target environment, capable of evolving and flexing with the business, at speed. Entopy does not resell its software without deployed engineers as a rule, ensuring the two aspects of our service come as one.

Deployment framework: The approach sometimes creates an 'all or nothing' scenario. You either deploy in full at scale or not at all. However, because Entopy has been able to address key aspects through technology and approach, it can offer trial periods at the front end of a deployment, enabling end users to test and validate before committing. Entopy has developed a framework that has been developed and tested over many years. This framework is designed to ensure the highest value can be delivered whilst limiting costs and time commitments and ultimately, reducing risk.

Central to this framework and the overall approach of Entopy is the delivery of early pilots. Pilots bring everything to life and provide critical confidence to all stakeholders involved. Entopy prides itself on being able to deliver Proof of Concept (PoC) and Proof of Value (PoV) pilots rapidly, getting beyond PowerPoint slides and high-level conversations to deliver real results early.

Pilots also act as a good means of driving engagement and collaboration between teams as well as fleshing out final deployment requirements, key stakeholders, interfaces and system architectures which ultimately help to support smooth deployment.

Beyond the initial deployment, Entopy will continue to provide skilled personnel to support the development and growth of use cases, adoption and application of software and delivery of new data-driven services and applications.

Speed: We can go from initial conversation to deployment in just a few weeks, following an iterative path to build out the model and intelligence provided, shaping it to the business requirements. This approach has proven highly effective, not only in delivering value but also in taking the organisation with the digital transformation.