KEYSYS | Leeco STEEL (AN ONI COMPANY) | ONi O'NEAL INDUSTRIES

Automated Cloud Platform Cuts Costs & Complexity

KEYSYS built a cloud system for Leeco Steel that **runs heavy simulations on demand**, **uses low-cost cloud resources**, and **redeploys with a push of a button**.

Client
Leeco® Steel is a leading supplier of carbon, HSLA, and alloy steels with 11 locations across North America and Mexico, and is part of **O'Neal Industries**, the largest family-owned metals service center network in the U.S.

Business Problem
The company needed to run **large-scale**, **compute-intensive models every weekday**. Their old setup relied on the **wrong type of cloud servers**, which were powerful but **very expensive**, and the system **was difficult to reset when problems occurred**.
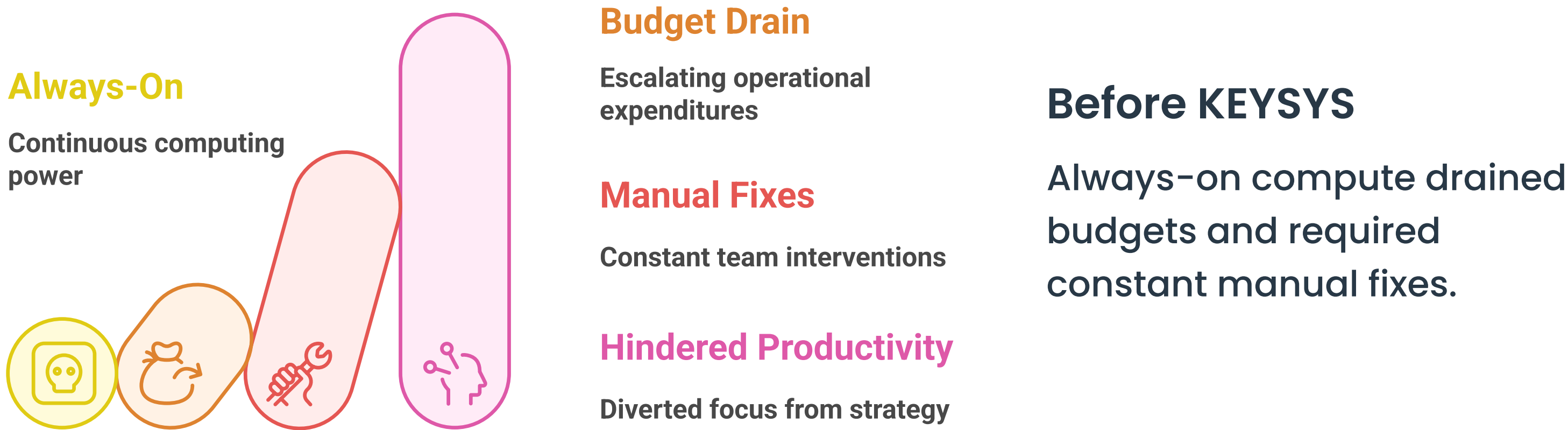
KEYSYS Solution
KEYSYS engineered an **Azure-based platform** using **Terraform**, **Kubernetes**, and **GitHub Actions**. The system spins up **temporary**, **cost-efficient "spot" servers** only when jobs are scheduled, distributes the workload across multiple machines with **Ray.IO**, and then shuts everything down automatically. Because it's all defined as code, the entire environment can be **rebuilt or updated in minutes**.

Impact
The platform now **saves thousands of dollars per month** by only paying for compute when it's needed. Analysts spend time **interpreting results instead of troubleshooting infrastructure**, and Leeco Steel has a future-proof system that scales with demand.

Always-On
Continuous computing power

Budget Drain
Escalating operational expenditures

Manual Fixes
Constant team interventions

Hindered Productivity
Diverted focus from strategy

Before KEYSYS

Always-on compute drained budgets and required constant manual fixes.

After KEYSYS

An on-demand, automated platform runs only when needed, scales seamlessly, and redeploys with a single toggle.

Activate Platform
Platform starts when needed

Scale Resources
Resources adjust to demand

Deploy with Toggle
Easily redeploy with a switch