BATTLE CARD

Avesha's products are the **next generation innovation** automating Kubernetes networking and autoscaling for application needs.

Avesha
www.avesha.io

Smart Scaler

Intelligent Predictive Remediation

HIGHLIGHTS

- Efficiently coordinates a set of Horizontal Pod Autoscalers (HPAs)
- Proactively addresses infrastructure latency
- Employs forward-thinking optimization strategies, rather than short-term, greedy approaches.
- Features event-based scaling for dynamic resource allocation.
- Manages load balancing across multiple clusters for optimal performance.
- Enables autonomous scaling operations, reducing manual intervention.
- Offers predictive remediation to anticipate and resolve issues before they escalate.
- Metrics Supported:
  - Application Metrics:
    - Requests Per Second (RPS)
    - Latency
    - Faults
  - Infrastructure Metrics:
    - Pod Count
    - CPU Utilization
    - Memory Usage
  - Custom Metrics:
    - Temperatures
- Data Sources:
  - Prometheus
  - Datadog
  - New Relic
  - Dynatrace

Application scaling comparison

Comparing traditional methods with Generative AI [RL] powered Smart Scaler

	Vanilla HPA	Keda	Smart Scaler
Predictive Autoscaling	NA	NA	Yes with Application Metrics
Calendar Aware Scaling	None	None	First to market
Service Graph Aware Scaling	None	None	Service Graph Aware
DevOps Tuning	manual + experience	manual + experience	Gen AI
Accuracy	Best Guess	Better	guaranteed
DevOps Resource Effectiveness	Poor	Better	Fantastic
Effort	Days, Nights, Weekends Holidays	Weeks	30 Mins... tops
DevOps Burnout	Lots	Lots	Proactive
Cost	overprovisioning	overprovisioning	15-50% Savings
Resource Spin Up Time	reactive	reactive	Predictive
Low error rate	Hard to achieve	Hard to achieve	.001% Errors