

# Index Rebuilding Cost Analysis Summary (Medium Dataset)

System	Rebuild Frequency	Rebuilds/Year	Downtime/Rebuild (min)	Annual Compute Cost	Annual Downtime Cost	Annual Degradation Cost	Total Annual Cost	System Availability	Online Updates	Update Latency (ms)
Traditional RAG	Every 7 days	52.1	30	\$3,337	\$26,071	\$1,095,000	\$1,124,559	99.7%	No	N/A
FlashRAG	Every 7 days	52.1	15	\$3,337	\$13,036	\$657,000	\$673,523	99.9%	No	N/A
EdgeRAG	Every 14 days	26.1	5	\$417	\$2,173	\$438,000	\$440,740	100.0%	Yes	50
CSD-Enhanced RAG	Every 365 days	1.0	0	\$10	\$0	\$0	\$160	100.0%	Yes	10