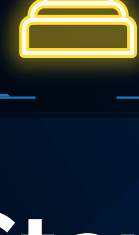


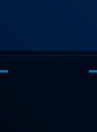
Don't Fall Behind in the Data Game

Improve decision intelligence by optimizing your
analytics and artificial intelligence (AI) data pipelines



« « WARNING » »

Start



87%

of organizations have low
business intelligence and
analytics maturity¹

68%

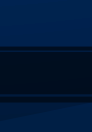
of enterprise data
goes unused²

85%

of AI projects will deliver
erroneous outcomes³

45%

of IT leaders say that
data quality is the biggest
detractor from ROI in
data governance⁴



Customers seek improvements in:

Customer
experiences

Decision
intelligence

Data
governance



But challenges exist:



Skilled staff
with data literacy

Legacy
infrastructure
and processes

Data
quality

"To deliver maximum functionality, performance, security, and compliance—and minimize ongoing maintenance—Itaú Unibanco upgraded its data infrastructure with Intel® Xeon® Scalable processors. With powerful Intel® processors in place, Itaú Unibanco has reduced processing times by 20 percent. From initial deployment, Itaú Unibanco has seen faster application processing, along with minimal downtime."

— Banco Itaú representative⁵

Optimize to advance
your organization's
data literacy and security.



A recent petabyte benchmark test by Amazon Web Services (AWS) and Intel shows how enterprises can use the Aerospike distributed NoSQL database management system (DBMS), in combination with key innovations in Intel Xeon Scalable processors and Intel® Optane™ technologies, to save millions of dollars per cloud application. With this solution, enterprises can power their real-time applications with predictable, sub-millisecond performance up to petabyte scale.⁶

intel
OPTANE™

Ingest phase:

A large automaker was able to ingest 1 PB per day of critical research and development (R&D) data.⁷

Prepare phase:

SK Telecom's optimized Intel-based data pipeline outperforms its legacy solution by up to 4x.⁸

Store phase:

3rd Gen Intel Xeon Scalable processors outperform Amazon Web Services (AWS) Graviton2 by up to 1.53x for MongoDB maximum throughput.⁹

Visualize phase:

Complete graph-analytics computations 2x faster on average.¹⁰

Analyze phase:

Achieve up to 1.87x higher AI inference performance.¹⁰

Intel and its large partner ecosystem
have your back every step of the way ...

... with modern data solutions powered by accelerators
built into 3rd Gen Intel Xeon Scalable processors ...

Intel Software Guard
Extensions (Intel SGX)

Safeguards system
vulnerabilities

Intel QuickAssist
Technology (Intel QAT)

Accelerates
data compression

Intel AES New Instructions
(Intel AES-NI)

Delivers
fast encryption

Intel Advanced Vector
Extensions 512
(Intel AVX-512)

Accelerates
high-performance
computing (HPC)
and data analytics

Intel Deep Learning
Boost (Intel DL Boost)

Accelerates
AI workloads

... and critical software optimizations
to accelerate analytics success.

1
oneAPI

intel
1
oneAPI
AI ANALYTICS
TOOLKIT

Intel technology-powered
data pipeline solutions are delivering:

Finish

Improved
performance
and availability

Security-enabled
data platforms

Data
intelligence
and simplified
deployments



Win the data-analytics game

when you partner with Intel.

Find the right partner for Intel Xeon processor-based solutions at the

[Intel Solutions Marketplace.](#)