Excel with SAP HANA

You've heard that companies are using SAP HANA to increase their agility, profitability and even excel where no business has gone before. How can you capitalize on it? This guide will show you.

SAP HANA Use Cases

Run Smarter Business Processes

Do you want to augment your business processes with real-time decision support?

SAP HANA processes high volume transactions and analytics together, empowering your business to leverage SAP S/4HANA and other applications powered by SAP HANA.

Achieve Cloud Freedom

Do you need to adopt cloud solutions with security, provider choice, and elasticity?

SAP HANA is the only hybrid and multicloud data platform.

Accelerate with Simplicity

Do you want to run transactions and analytics in real-time, without latency or complexity?

SAP HANA is the only all-in-one, in-memory-first data platform.

Innovate with Confidence

Do you need to develop new models easily, with modern technology (while respecting data privacy)?

SAP HANA is the most future-ready data platform, with advanced real-time data protection.

Act with Live Intelligence

Do you need to get intelligence in real-time from any data source or type?

SAP HANA is next-generation HTAP with the broadest set of advanced analytics.

Run Smarter Business Processes

SAP HANA allows you to run smart applications that empower your users to plan, execute, predict, and analyze data along end-to-end business processes in real-time. Whether you want to run SAP applications or custom applications, SAP HANA delivers a robust and trusted platform that simplifies your business operations, allowing your business to become agile.

Key Capabilities:

Database services:

- In-memory database
- Hybrid Transactional Analytical Processing
- Multi-tier storage
- Data modeling

Administration

- High availability and disaster recovery
- Active/active read-enabled
- Capture and Replay, Workload Management

Data Access

- Data Federation
- Data Integration
- Data Quality
- Data Privacy

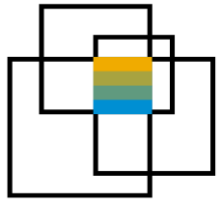
Related Solutions:

SAP S/4HANA

Why SAP HANA Is a Game Changer

Empower users to act in the moment by combining hybrid transactional and analytical processing (HTAP) against one copy of data using a single, in-memory, columnar database that delivers groundbreaking performance.

Improve process efficiency by running business logic close to the data in-memory. Leverage pre-built business function libraries (BFL) and highly-optimized calculation engines to dramatically improve performance.



Ensure business continuity of mission critical applications with robust high-availability and disaster recovery features including automatic host auto-failover, active/active read-enabled system replication, backups, and storage replication for rock-solid reliability.

Protect your users and data using access control, data encryption, and software / system security to safeguard your business, while meeting strict compliance and regulatory requirements in today's digital world.

Achieve a low-cost, low-risk SAP HANA implementation with flexible deployment options on-premise or in the cloud. Choose traditional or multitenant deployment environments, which manage multiple databases as a unit, and lower operating costs.

See how customers run smarter business processes →

Explore how enterprises around the world

Run Smarter Business Processes

Resources:

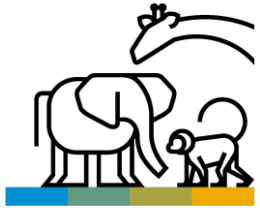
Learn more about SAP S/4HANA

Learn how SAP S/4HANA enables real-time inventory management

Gustave Roussy

This French cancer care center consolidated data on a single platform and enabled detailed analysis to provide the answers needed by medical professionals faster. SAP Connected Health network, SAP HANA, and SAP Medical Research Insights made it possible.

More than 50%
Reduction in losses from non-payments

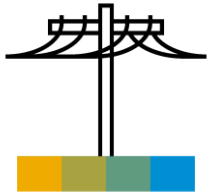


Elephants, Rhinos & People

100 elephants are killed daily and a rhino is killed every five hours. ERP is tracking elephants and rhinos with GPS collars and drones and use SAP HANA to manage and analyze the data the system generates. Employees track herds, spot when they're getting close to danger, and move them away.

130
Elephants rescued through collaring and relocation

30
Rhinos protected through introductions and dehorning



Swisscom

Switzerland's largest information and communication technologies provider, introduced carrier billing for greater customer personalization and reduced risk with the help of SAP HANA.

More than 50%
Reduction in losses from non-payments

Act with Live Intelligence

Bringing the worlds of OLTP + OLAP together and inventing the capability of hybrid analytical processing, SAP HANA's completely re-thought architecture simplifies our customer's landscapes and increases their agility– making it a game-changing way to build intelligent applications on one platform and one data set.

Key Capabilities:

Advanced Analytics

- Machine learning
- Predictive analytics and processing
- Multi-model data
- Text analytics and search
- Geospatial data processing
- Graph data processing

Related Solutions:

SAP Leonardo

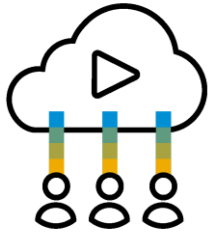
SAP Data Intelligence

SAP Analytics Cloud

Why SAP HANA Is a Game Changer

Advanced in-memory analytics on live transactions. Customers and partners can easily build and deploy intelligent applications that run analytics on live transactions without having to move data to a different system to achieve acceptable performance or having to use multiple specialized systems to process different data types.

Most comprehensive advanced analytic processing on any data. Analyze data in context and achieve unprecedented levels of business introspections and prediction accuracy. All while sparing the complex and time-consuming exercise to maintain multiple specialized systems.



Real-time performance on local and virtually connected data. No matter where your data resides, advanced data virtualization capabilities allow applications built on SAP HANA to query remote database tables and use user-defined functions to push query processing to remote data sources.

See how customers act with live intelligence →

Explore how enterprises around the world

Act with Live Intelligence

Resources:

Read what customers are saying

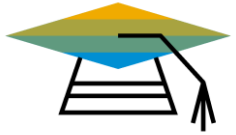
Explore SAP HANA editions

SAP HANA Implementation

Meteo Protect

Watch Meteo Protect CEO Gabriel Gross explain how his company can make the weather more predictable. Using SAP HANA to analyze 80 billion weather observations a second, Meteo offers an insurance product that protects 10,000 farmers from catastrophic losses in the case of abrupt changes in the weather.

12 x
Faster data upload for climate-change sensitive insurance,



Technical University of Munich (TUM)

By running a massive protein database on SAP HANA and IBM Power Systems, researchers at the Technical University of Munich are gaining the therapeutic insights they need to create highly targeted treatments for complex illnesses.

8.85 TB
Of proteome data stored in SAP HANA and open to the public for research purposes

Topgolf

Topgolf Gold Coast used SAP HANA to deliver a 360-degree view of the business in under a month. Learn how the new system helps collect instant customer feedback and near-real-time intelligence.

15%
Reduction in labor costs over the first six months

23%
Increase in Net Promoter Score

Innovate with Confidence

Gain secure and compliant data access in real time without data duplication. SAP HANA delivers the most comprehensive data security and advanced privacy protection to allow real insight without exposing real data at rest and in motion. Build smart, real-time applications that combine analytics and transactions – and deploy them on any device.

Key Capabilities:

Data access

- Real-time data anonymization
- Data encryption
- Dynamic data masking
- Security authorization model

Application Development

- Extended applications services
- Languages and Tools

Related Solutions:

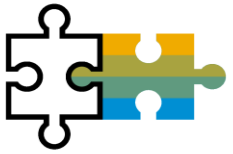
SAP Master Data Governance

SAP Data Services

Why SAP HANA Is a Game Changer

Jump-start innovation for free. SAP HANA express edition allows for the development and running of prototypes, demos, and productive applications. Simplify innovation with a future-ready platform that runs anywhere at no cost.

Remove innovation barriers with simpler and faster next-generation application development. Perform hybrid transactions and advanced analytics workloads in the same application in real-time. Leverage built-in intuitive modeling, development tools and application lifecycle management while extending SAP applications and integrating with cloud microservices.



Choose the runtime and deployment environment that fits your application needs to leverage existing assets and expertise. If extending SAP applications, one can use native constructs, data models, and the power of the full ABAP environment. If developing in Java or .Net, leverage any third party application server and via standard interfaces.

See how customers innovate with confidence →

Explore how enterprises around the world

Innovate with Confidence

Resources:

Learn more about the new data anonymization capabiilities of SAP HANA 2.3.

Viisit the SAP HANA security website

HarrisLogic

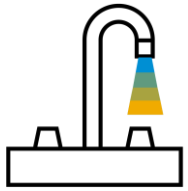
HarrisLogic leverages technology to transform behavioral healthcare. SAP HANA and SAP Predictive Analytics help the company support jail diversion programs for people with serious mental illness by connecting the data– everything from pharmacy to services– that clinicians need to succeed in their mission.

99%
Prediction accuracy

Koehler Paper Group

Koehler Paper Group is using the application development framework of and business data services for SAP HANA, enterprise edition to increase accuracy in quality management. Accurate, real-time multi-model data gives Koehler the process insight to better ensure customer satisfaction

Billions of records
available within a second



Geberit

Geberit is increasing the memory capacity of its server systems and reducing system downtime by deploying Intel Optane DC persistent memory for its SAP HANA systems.

400%
Improvement in data load times at startup

Achieve Cloud Freedom

SAP HANA is the only hybrid and multicloud data platform that ensures business agility with the most flexible development and deployment options. Accelerate business innovation in the cloud without provider lock-in and develop once and deploy everywhere. SAP HANA supports the broader range of cloud providers today but is also committed to a multicloud strategy for the future.

Key Capabilities:

Deployment options

- Multicloud
- Virtualization
- Hyperconverged infrastruture (HCI)
- Tailored data center integration (TDI)
- SAP HANA appliance
- SAP HANA service
- SAP HANA, express edition

Related Solutions:

SAP HANA service

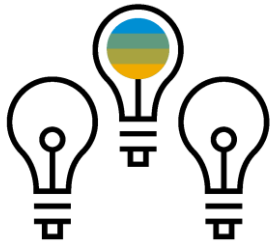
SAP HANA Enterprise Cloud

SAP HANA, express edition

Why SAP HANA Is a Game Changer

Seamlessly operate on premises and across the broadest multicloud. On-premise, choose the flexibility to reuse existing HW with TDI configurations or benefit from simplicity of pre-packaged appliances from major hardware vendors. In the cloud, decide to use your existing licenses and run SAP HANA in public clouds where an Infrastructure as a Service Provider provisions and manages the HW.

Break cloud boundaries and limits. The unique data platform helps businesses unleash the power of data and leverage real-time intelligence inside business processes. The same SAP HANA is also available with fast provisioning, consumption-based pricing, and elastic scale as a fully-managed service across multiclouds with SAP HANA as a Service.



Innovate with confidence from live data. Create cloud-based applications that bring together analytics and transactions to guide users in their next action or enable machines driven automation– all in real-time and inside business processes.

Deliver business-ready cloud applications and insights. SAP HANA as a Service makes it easier to leverage a wide portfolio of prepackaged cloud business services to accelerate development. Use secure, out-of-the-box integrations to SAP Applications together with a full feature ABAP environment, making it easier to develop business-ready innovation that extend core business processes.

See how customers achieve cloud freedom →

Explore how enterprises around the world

Achieve Cloud Freedom

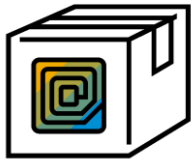
Resources:

- Learn how to use predictive analytics with SAP HANA
- Join the SAP HANA community
- Develop a roadmap to SAP HANA

Rainforest Connection

Rainforest Connection (RFCx) creates acoustic monitoring systems helping to defend the rainforests from illegal deforestation. With time running out for this vital ecosystem, the company chose SAP Cloud Platform and SAP Predictive Analytics software to provide the interconnectivity necessary to get the project up and running fast.

3 Minute
lead time from alerts before illegal deforestation begins



Cosmo Films

The packaging company based in New Delhi created a clear road map to becoming a cloud-based company by adopting SAP HANA Enterprise Cloud. This move put it in the perfect position to adopt new technology innovations and innovative packaging solutions as they are offered.

Scalable
IT landscape to meet future business needs

Secure
low-maintenance platform

Zappos

To move at the speed of the Internet, Zappos needed an agile and economically sound way to improve system performance in some of its core business processes. With SAP ECC running on Oracle, Zappos's end users and IT personnel were frustrated by the slow performance and the constant database tuning required to "keep the lights on." By migrating SAP ECC to the SAP HANA on Amazon Web Services (AWS), Zappos has been able to successfully achieve its performance goals, without large up-front capital expenditures or disrupting business operations.

Less than 24 hours
long migration and 3 to 240 times faster query performance

Accelerate with Simplicity

SAP HANA: The all-in-one, in memory-first data platform to develop and run all applications. Support all data, run all workloads, and connect all data at speed for faster-time to results and lower costs. SAP HANA manages data at scale, delivers 24/7 secure data access, and overall simplifies application development and management.

Key Capabilities:

Data Access:

- Advanced High Availability/Disaster Recover (HA/DR)
- Data security and privacy
- Data virtualization

Analytics Processing:

- Multimodel data support for structured and unstructured data
- In-memory-first architecture for HTAP

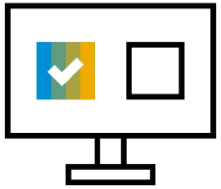
Application Development:

- Unified tool sets

Related Solutions:

SAP Cloud Platform
SAP Data Intelligence
SAP Data Hub

Why SAP HANA Is a Game Changer



High performance and reliable operations for traditional and new applications.

Simplified application architectures and IT landscapes with minimal data movements.

Faster time to value by designing and building virtually for immediate business results.

Lower costs with effective management of large data sets.

See how customers accelerate with simplicity →

Explore how enterprises around the world

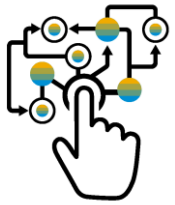
Accelerate with Simplicity

Resources:

Learn about the SAP HANA Research Group

Innovate and modernize with SAP HANA

Explore more information resources



Siemens

Siemens has reduced IT costs, dramatically improved productivity, and gained the agility and processing power needed to exploit new digital opportunities. The company achieved a significant return on investment and productivity gains for more than 160,000 users.

24%
Reduction in database size

60%
Increase in productivity

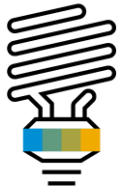
Up to 90x
Faster reporting performance

Ferrary Candy Company

The Ferrara Candy Company sales team generates real-time reports with the depth and breadth of information tailored for customers and for management. Sales reps can access a single yet comprehensive view of customers and act on consistent, solid information and insights at any time through mobile devices when offline from the company systems. Ferrara can run live and grow its business by making sure customers have the candy their consumers crave.

50%
Productivity gain

94%
Reduction in data size



Alpiq

This Swiss utilities company consolidated its data warehouses for energy and financial reporting on SAP HANA. Alpiq accelerated reporting and analytics speed to make the right decisions for the business and its customers

500 Million
Entries recalculated daily

20 Minutes
To update intraday calculations

© 2019 SAP SE or an SAP affiliate company. All rights reserved.
No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See www.sap.com/copyright for additional trademark information and notices.