

SAP S/4HANA Cloud

Cloud-based enterprise resource planning (ERP) system that centralizes business processes



Quick Guide for Faculties & Students

SAP University Alliances



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What is SAP S/4HANA?

Why is it important?

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- SAP S/4 HANA On-Premise
Customer stories

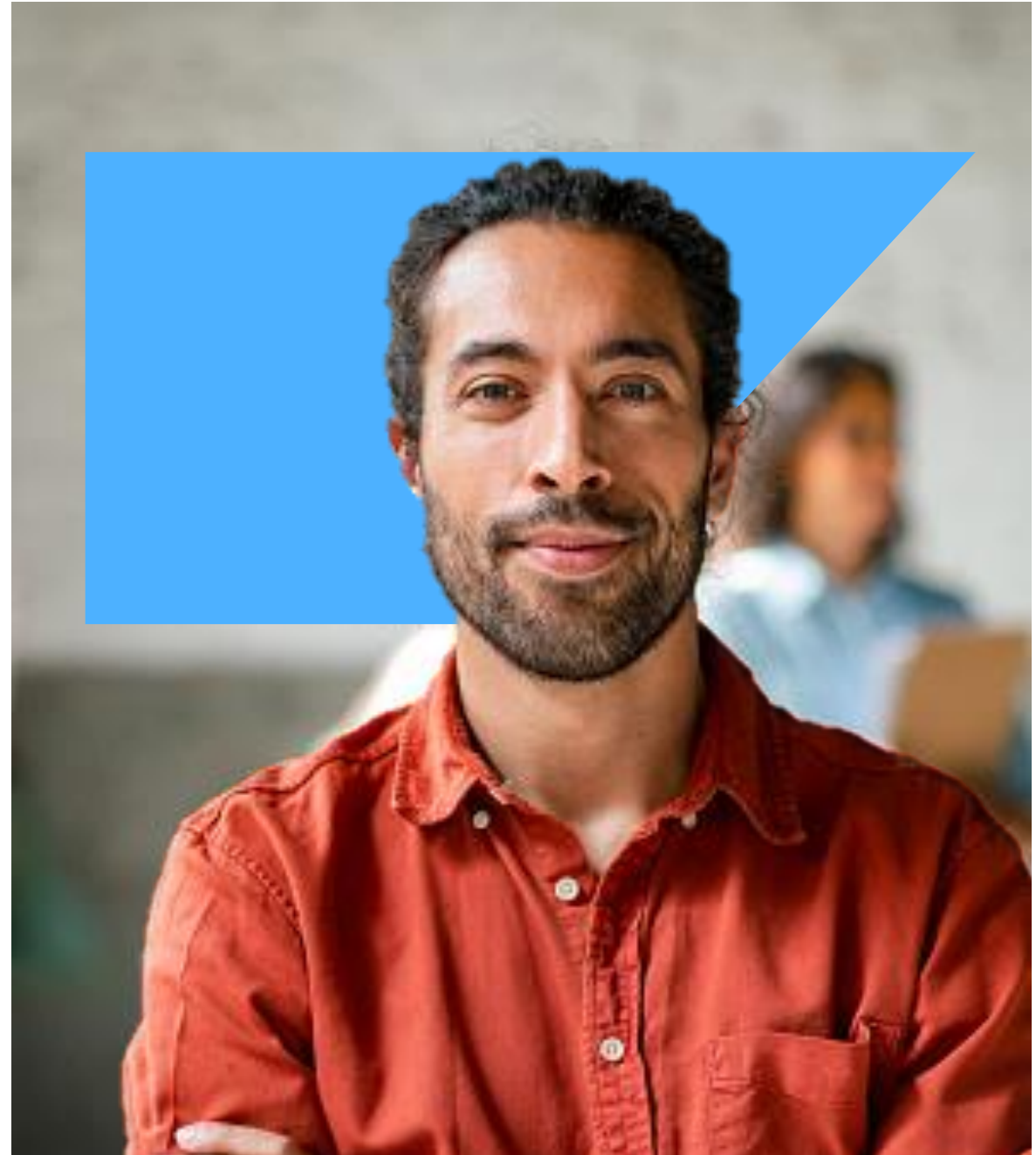
- SAP S/4HANA Cloud, Public Edition
Customer stories

- SAP S/4HANA Cloud, Private Edition
Customer stories

How to try S/4HANA?

Quick start: learning journey

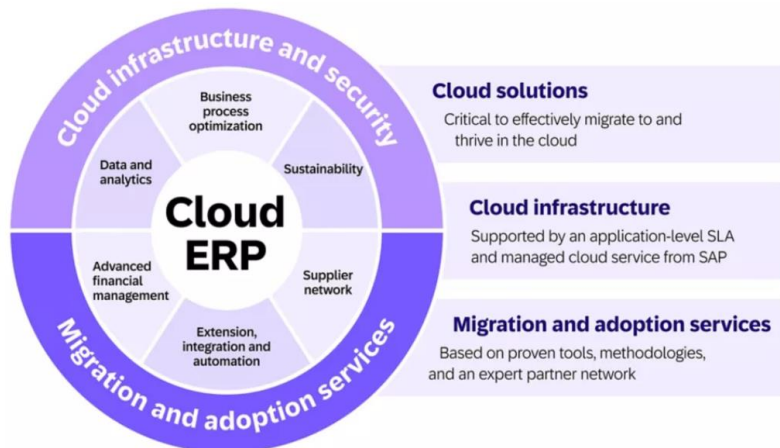
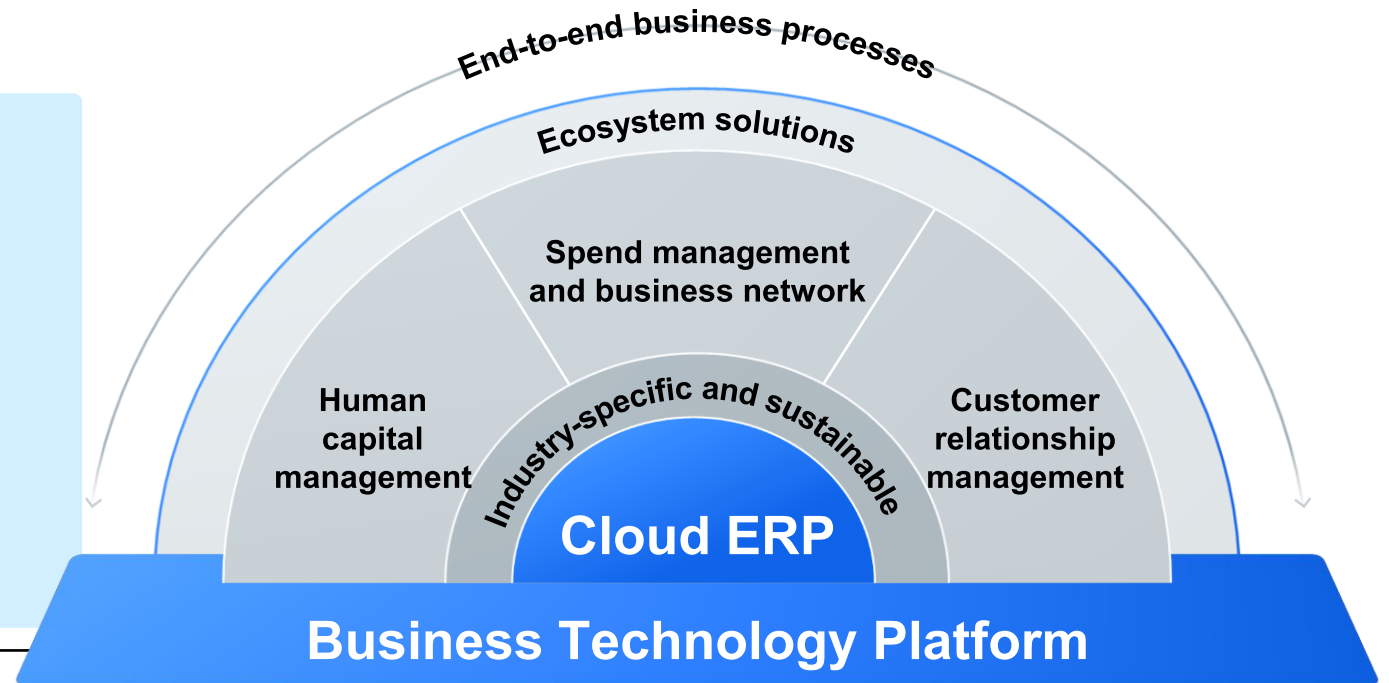
Helpful resources



What is SAP S/4HANA?

SAP S/4HANA is a future-ready enterprise resource planning (ERP) system with built-in intelligent technologies, including AI, machine learning, and advanced analytics

It transforms business processes with intelligent automation and runs on SAP HANA – a market-leading in-memory database that offers real-time processing speeds and a dramatically simplified data model



What is SAP HANA?

SAP HANA Cloud is a high-performance in-memory cloud database as a service (DBaaS). As the cloud-based data foundation for the SAP Business Technology Platform (BTP), it integrates data from across the enterprise, enabling businesses to process and analyze live data and make real-time business decisions

[Click here to learn more](#)

SAP S/4HANA: General Capabilities

Procurement	Sales	Supply Chain	Manufacturing	R&D
<ul style="list-style-type: none"> • Overview Page & Analytics • Procurement Hub • Predictive Contract Consumption • GR/IR Reconciliation 	<ul style="list-style-type: none"> • Order Fulfillment & Delivery Performance • One Single Invoice • International Trade • Predictive Quote-2-Order 	<ul style="list-style-type: none"> • Realtime Inventory • Embedded TM (Transportation Mgmt.) • Embedded EWM (Extended Warehouse Mgmt.) • Advanced ATP • Predictive Stock in Transit 	<ul style="list-style-type: none"> • Live MRP • Detailed Scheduling Optimizing with PPDS • Demand Driven MRP • Complex Manufacturing 	<ul style="list-style-type: none"> • Commercial Project Mgmt. • Project & Portfolio Mgmt. • Variant Configuration • Recipe Management

SAP S/4HANA

Finance	Service	Asset Mgmt.	Cross Functions	Industries
<ul style="list-style-type: none"> • Real-time Finance (UGL) • Closing Cockpit • Commodity Mgmt. • Compliance Framework • ML Cash App • Bus. Integrity Screening 	<ul style="list-style-type: none"> • New Customer Management, Service Core Option • Multi-Channel Interaction Centre 	<ul style="list-style-type: none"> • New Geographical Enablement • Report & Repair Malfunction • Asset Mgmt. for Resource Scheduling 	<ul style="list-style-type: none"> • Legal Content Management • GDPR Tools • Co-Pilot as Digital Assistant 	<ul style="list-style-type: none"> • Key Industry function embedded inside (e.g. Automotive, Consumer, Retail, Mill...) • Re-architecture & improved functions (e.g. Chemicals, A&D, Oil Gas...)

Why use SAP S/4HANA?

SAP S/4HANA Facts

- 400,000 companies are using or implementing SAP ERP solutions
- 80% of them are small and medium-sized enterprises
- 74% of the world's transactional revenue touches an SAP system somewhere

Source: [Michael Management](#)



It's time for cloud-native ERP

30 days or less

for delivery of initial scope*

50%

decrease in implementation cost

40-60%

quicker time-to-value

Why students should know SAP S/4HANA?

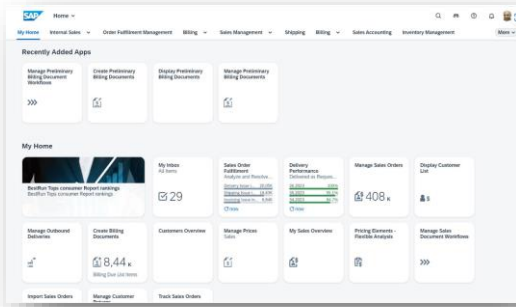
- ✓ **SAP Skills are in demand:** 87 % of the World's Supply Chains networked go through SAP system
- ✓ **Industry relevance:** ERP systems are widely used in various industries. Understanding SAP ERP gives you a competitive edge in the job market
- ✓ **Comprehensive understanding:** Knowing ERP provides a holistic view of how different departments within the organization operate, interact, and impact each other.

Main benefits of SAP S/4HANA

- ✓ **Digital Transformation:** digital core for business process simplification and centralization
- ✓ **Cost Effectiveness:** bring together analytical and transactional capabilities
- ✓ **Built-in intelligent technologies:** artificial intelligence (AI), machine learning (ML), build process automation, and analytics

What are SAP S/4HANA deployment options?

Total control and individualization



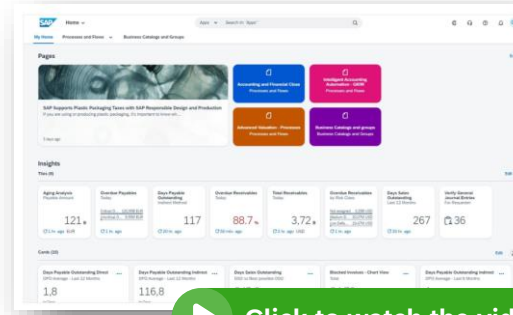
SAP S/4 HANA On-Premise offering means that the software needs to be installed and maintained locally on their data centre

Companies with On-Premise may choose to move to the cloud via Rise with SAP (Cloud, Private Edition) without requiring a new implementation

All 25 industries

As a Product

Complete, modern, Service as a Software (SaaS) ERP



[Click to watch the video](#)

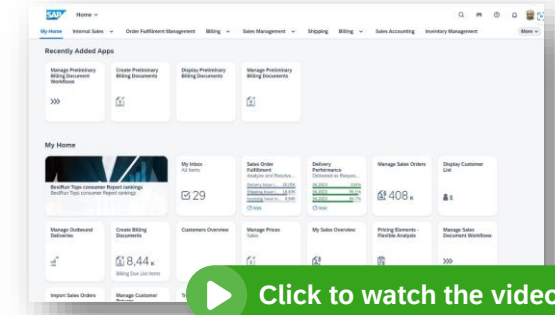
SAP S/4 HANA Cloud, Public Edition – known as Grow with SAP. It is an Industry-Specific Line of Business (LoB) function enhancing core functions of SAP S/4HANA Enterprise Management

Selected Line of Business (LoB) and industry scenarios for scaleups

- Professional Services
- Mill Products
- High Tech
- Banking
- Media
- Industrial Manufacturing

As a Service

Cloud value, traditional flexibility & full scope



[Click to watch the video](#)

SAP S/4 HANA Cloud, Private Edition – known as Rise with SAP. Provides extensive functional scope and significant upgrade flexibility combined with a cloud experience

Customization and localization capabilities for complex scenarios

All 25 industries

SAP BTP is the foundation of SAP S/4HANA

*Discover more by exploring clickable headings

SAP S/4HANA On-Premise is an in-memory database enabling businesses to process and analyze live data and make real-time business decisions

Complete Control and Ownership

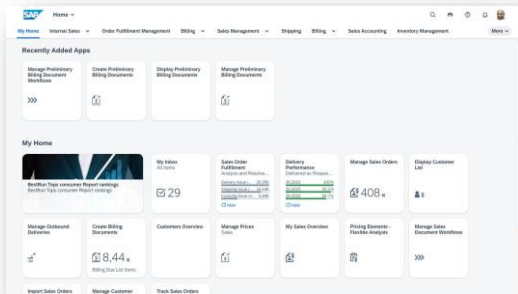
Make customizations and modifications, and manage your unique, customer-specific needs. Keep your existing IT departments, infrastructure, budget, and IaaS vendor agreements

Specific Compliance

Manage your industry and country-specific regulatory requirements

Deliver green-line

Build sustainability directly into your business



Take the product tour

Why On-Premise:

- ✓ License purchase model
- ✓ Reduce transformation risk and organization change management overhead
- ✓ One release cycle per year
- ✓ Integration with other SAP solutions

SAP S/4HANA On-Premise

[Click here to learn more](#)

Aareal Bank: Preparing for the Future with a Modern ERP Platform

“

“With the introduction of SAP S/4HANA, we realized an important milestone in our program for the future – Aareal 2020. Our digitalization has been successful not only with our IT subsidiary Aareon, but also in our core banking processes”

Hermann Merkens, CEO, Aareal Bank AG

[Click here to learn more](#)

Goal:

Reducing complexity and digitalizing IT with a future-proof, core banking system on SAP S/4HANA

Before: Challenges and Opportunities

- Remove unnecessary data and functions from the IT system
- Standardize interfaces between the systems for more flexibility based on individual components
- Invest in modern technologies for future-proof IT and digitalize processes, including the back-end systems
- Unlock growth potential with a new business model

SAP S/4HANA On-Premise

After: Value-Driven Results

- Deactivated proprietary developments
- Returned to a standard software deployment after reducing 75% of customized settings during the migration and system purification process
- Reduced batch runtimes to significantly improve performance
- Enabled fast processing and as-needed reporting for the first time

Why SAP?

SAP S/4HANA is an integrated solution portfolio, including SAP for Banking solutions, to support the digitalization of processes including, back-end systems

90%

Reduction of data volume, from 2.3 TB to 235 GB

>70,000

Accounts permanently removed from the chart of accounts

Aareal

Aareal Bank AG

Wiesbaden, Germany

www.aareal-bank.com (German landing page)

Industry:

Financial Services

Products and Services:

Leading international real estate specialist and provider of software products and digital solutions for the real estate industry

Employees: 2,780



SAP S/4HANA Cloud, Public Edition is a ready-to-run ERP that delivers the latest industry best practices and continuous innovation

SAP S/4HANA Cloud, Public Edition

[Click here to learn more](#)

Share the infrastructure with others

Support services firms and Small and Medium Enterprises (SME) manufacturers. Each client can configure the system to a certain extent

Open and extensible

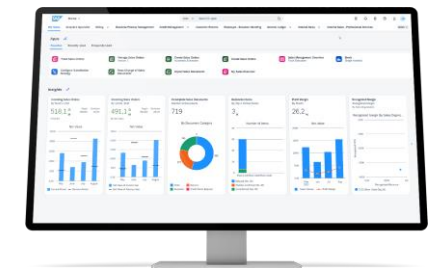
Provides ready-to-go APIs with supporting tools and documentation to integrate with partners or build on top

Security, compliance, and scalability

Handles technical operations, including backup and disaster recovery, system maintenance, data protection, and best-in-class uptimes

Why Cloud, Public Edition:

- ✓ Automatic and continuous updates fully managed by SAP
- ✓ The fastest path to innovation and the lowest Total Cost of Ownership (TCO)
- ✓ Rapid deployment, enabling businesses to run quickly and efficiently
- ✓ Take advantage of standardized best practices
- ✓ A complete, modern, native SaaS ERP solution with the full benefits of public cloud
- ✓ Cloud-based subscription model (cost-efficiency)



[▶ Take the product tour](#)

Viridian Glass: Embracing a Modern ERP Suite to Increase Efficiency and Improve Decision-Making

“From a risk mitigation standpoint, we can satisfy our yearly audit requirements in minutes with SAP S/4HANA Cloud, public edition. Our reporting capabilities are more robust: report configuration is intuitive, and we can query data at a granular level, letting us make informed business decisions in a timely manner”

Echo Liu, General Manager Finance, Viridian Glass New Zealand Limited Partnership

[Click here to learn more](#)

Goal:

Drive productivity and gain a better view of business operations with SAP S/4HANA Cloud, Public Edition

Before: Challenges and Opportunities

- Heavily customized legacy ERP system, resulting in rigid and inadequate financial reporting
- Manual processes and workarounds, reducing business efficiency
- User experience with a steep learning curve, requiring considerable enablement
- Lack of spend visibility, leading to excess inventory and reduce working capital

SAP S/4HANA Cloud, Public Edition

After: Value-Driven Results

- Enhanced agility and transparency with flexible, accurate, and timely monthly reporting
- Increased finance team productivity with a reduced headcount
- Accelerated bank-payment processing
- Optimized supplier discounts through increased visibility and enhanced sourcing strategies
- Improved inventory management

Why SAP?

A modern ERP suite helped shorten time to value with a library of predefined best practices

20%

Reduction in days sales outstanding

32%

Reduction in inventory levels through improved demand forecasting

22%

Faster inventory turnover

16X

Reduction in time to process bank payments, down to 15 minutes



Viridian Glass New Zealand Limited Partnership

Auckland, New Zealand
www.viridianglass.co.nz

Industry:

Engineering, construction, and operations

Products and Services:

Processing, supply, and installation of glass products

Employees: 480

SAP S/4HANA Cloud, Private Edition is a tailored-to-fit cloud ERP that adapts to the organization's unique transformation

Run on your own standard

Maximize differentiation by tailoring business processes to your organization's unique requirements

Deliver green-line

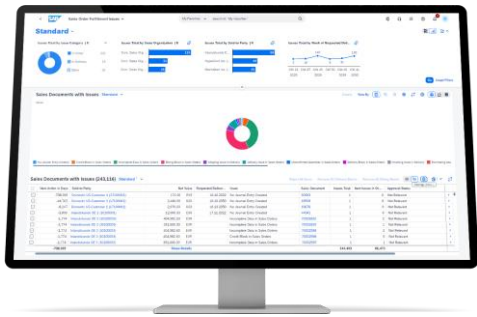
Build sustainability directly into your business and achieve bottom-line growth with proven business processes for your industry

Keep the control

Manage the pace of change by rolling out innovations on your timeline

SAP S/4HANA Cloud, Private Edition

[Click here to learn more](#)



[▶ Take the product tour](#)

Why Cloud, Private Edition:

- ✓ Full, extensive ERP functionality, including partner add-ons with the ability to extend and enhance
- ✓ Retain company-specific configurations and customizations from your SAP ERP system
- ✓ Subscription-based model (cost-efficiency)
- ✓ Minimum upgrade cycle of five years, releases every year, and support packages
- ✓ Customization and localization capabilities for complex scenarios

Atlantia: Realizing a cloud strategy for optimal speed, scalability, and resilience

“

“RISE with SAP S/4HANA Cloud, private edition perfectly meets Atlantia’s needs because it frees us from managing the infrastructure, so we only have to deal with small changes at the application level”

Angelo Spalluto, CIO, Atlantia S.p.A.

[Click here to learn more](#)

Goal:

Modernizing an IT landscape for a sustainable future

Before: Challenges and Opportunities

- Move from an on-premise environment to a greenfield cloud-first infrastructure
- Simplify the IT infrastructure management and maintenance

SAP S/4HANA Cloud, Private Edition

After: Value-Driven Results

- Adoption of SAP S/4HANA Cloud, Private Edition, running on Amazon Web Services (AWS)
- Simplified management and maintenance of its IT environment
- Time-efficiency collaborating and reporting with subsidiaries, suppliers, and public administrations
- Integration across solutions providing end-to-end operations view, with more reliable data, lower total cost of ownership, and rapid return of investment (ROI)
- Built a future-ready technology foundation providing maximum flexibility and scalability over time

Why SAP?

Maximum flexibility and scalability over time, readiness of the business for future technology innovations, and simplified maintenance environment for a lean IT team

30%

faster project deployment

20%

higher efficiency in finance operations

Superior

data quality and financial reporting

Atlantia

Atlantia S.p.A

Rome Italy

www.reuters.com

Industry:

Engineering, construction, and operations

Products and Services:

Entertainment

Employees: 21,000 employees

Partner: Accenture

How to try SAP S/4HANA?



How to try SAP S/4HANA On-Premise?

Take the [Click through product tour](#) and discover the key features for different business areas

[Go to the product tour](#)

How to try SAP S/4HANA Cloud, Public Edition?

Take the [Click through product tour](#) and explore key features applied to different business scenarios.

[Go to the product tour](#)

Discover more [recent and planned innovations](#)

[Explore innovations](#)

How to try SAP S/4HANA Cloud, Private Edition?

Take the [Click through product tour](#) and discover the key features for different business areas

[Go to the product tour](#)

Watch a demo video [on how to migrate](#) your ERP to S/4HANA Cloud

[Watch a demo video](#)

Explore SAP S/4HANA's [best practice based business processes](#) and [continuous innovation](#)

[Get the trial here](#)

Get started with SAP S/4HANA On-Premise, Private Edition or Public Edition

Enterprise resource planning solution covering all key processes

Here's what you will learn

Learn how to centralize end-to-end business processes with intelligence automation, machine learning, and real-time analytics and automation

- Centralize operations
- Integrate analytics and extensions
- Automate mission-critical operations
- Quality management
- Business transactions
- Functional area of service and asset management
- Order-to-cash
- Procurement-to-pay cycle
- Synchronize manufacturing production
- Sustainability in Finance

SAP S/4HANA Learning Pathway

Consultant

Discover

- Experience SAP S/4HANA
- Quick Start Guide

Explore

- [Asset management and service in SAP S/4HANA](#)
- [Explore SAP Cloud ERP](#)
- [S/4HANA YouTube Channel](#)
- Listen to podcast episodes: [inside SAP S/4HANA](#)

Academic

- [SAP S/4HANA with Global Bike*](#)
- [ERPsims Games*](#)
- Free Trial – [Public Edition](#), [Private Edition](#) or [On-Premise](#)

Deep Dive

- [Integrated Business Process in SAP S/4HANA](#)
- SAP S/4HANA tutorials on-premise: [2020](#), [2021](#), & [SAP S/4 HANA Cloud](#)
- [Use Cases*](#)

Certification

- [SAP Certified Application Associate- Business Process Integration SAP S/4HANA 2020](#)
- [Other SAP S/4HANA certificates](#)

• Online courses (SAP Learning: [Private Edition](#) or [Public Edition](#))

• Certification

• Events

• Additional resources

• Demo / free trials

*These resources are available for SAP University Alliances member institutions. Contact your local University/Academic Competence Center or your country manager to get started with teaching. If you are unsure who that is, please contact our team at sapnextgen@sap.com.

Updated Nov 23



Global Bike in the Classroom

Global Bike is the most popular platform offered by SAP University Alliances. Its SAP S/4HANA system is preconfigured with best-practices-based business processes and datasets

A group of motivated educators supported by SAP UCC Magdeburg came together to develop the Global Bike case company, its ERP system, and early learning content. Today, UCC Magdeburg maintains and expands Global Bike, with many educators creating additional content to meet the needs of their local market, local languages and so on

Teaching courses

- Learning content is modular and can be used flexibly in a range of academic courses; work with your UCC/ACC or your country manager to explore content available in your region*
- Business process, ERP configuration, accounting information systems, and Global Bike Go (simulation game) are examples of more frequently used Global Bike content

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Global Bike Case Company

The Global Bike Group has deep roots in off-road trail racing and long-distance road racing sports. With its headquarters in the US and a major subsidiary in Germany, it builds legendary bikes that outlast and outperform the competition. After 20 years, it continues to deliver innovative, high-performance bicycles to the world's most demanding riders

Global Bike is a process-centric organization driven by key processes that reflect the realities of a medium-sized manufacturing company, including:

- Idea-to-Market
- Build-to-Stock
- Order-to-Cash
- Service & Support
- Corporate services: Procurement, Finance & Controlling, HR, Information Technology, and Strategy Management

*This resource is available for SAP University Alliances member institutions. Contact your local University/Academic Competence Center or your country manager to get started with teaching. If you are unsure who that is, please contact our team at sapnextgen@sap.com.

Fast facts

1000+ universities in **70+** countries use GBI

4,000+ professors teach GBI in classroom

1 million students have learned or played GBI in class

[Click here to learn more](#)



ERPSim in the Classroom

ERPSim is a business simulation game for SAP S/4HANA where student teams use SAP to manage a virtual company in a competitive market

Win or lose, participants improve their knowledge of business processes and their understanding of how ERP systems effectively manage those processes

- Developed by the non-profit ERPSim Lab at HEC Montreal and offered globally through University Alliances since 2004
- Use ERPSim in the classroom, join a competition, or support your research

[Click here to learn more](#)

First impressions

- [Blog](#) | Learning by Gaming | 3 min read
- [Blog](#) | DSAG & SAP 2021 | 4 min read
- [Blog](#) | Ibero-America 2020 | 1 min read

*This resource is available for SAP University Alliances member institutions. Contact your local University/Academic Competence Center or your country manager to get started with teaching. If you are unsure who that is, please contact our team at sapnextgen@sap.com.

“ERPSim has been a core component of our undergraduate and graduate enterprise systems courses for almost 20 years. The experiential learning of running a virtual company is invaluable to our student teams”

Nitin Vasant Kale, University of Southern California

Available ERPSim games

Sustainability metrics impact company valuation!



Logistics

wholesale distributor of dairy products



Manufacturing

make-to-stock manufacturing of muesli breakfast cereals



Maple

Import maple syrup / resell



Retail

procurement and sell clothing

Fast facts

6,000 simulation games played last year

28,000 simulations played over the last 5 years

300 universities in **38** countries play ERPSim

30,000 students per year play ERPSim in-class, during competitions, and other events

500 ERPSim research articles and **600** citations

Helpful Resources

[Explore SAP S/4HANA and its solutions](#)

[Get a brief overview](#)

[Learn more about it on SAP Learning](#)

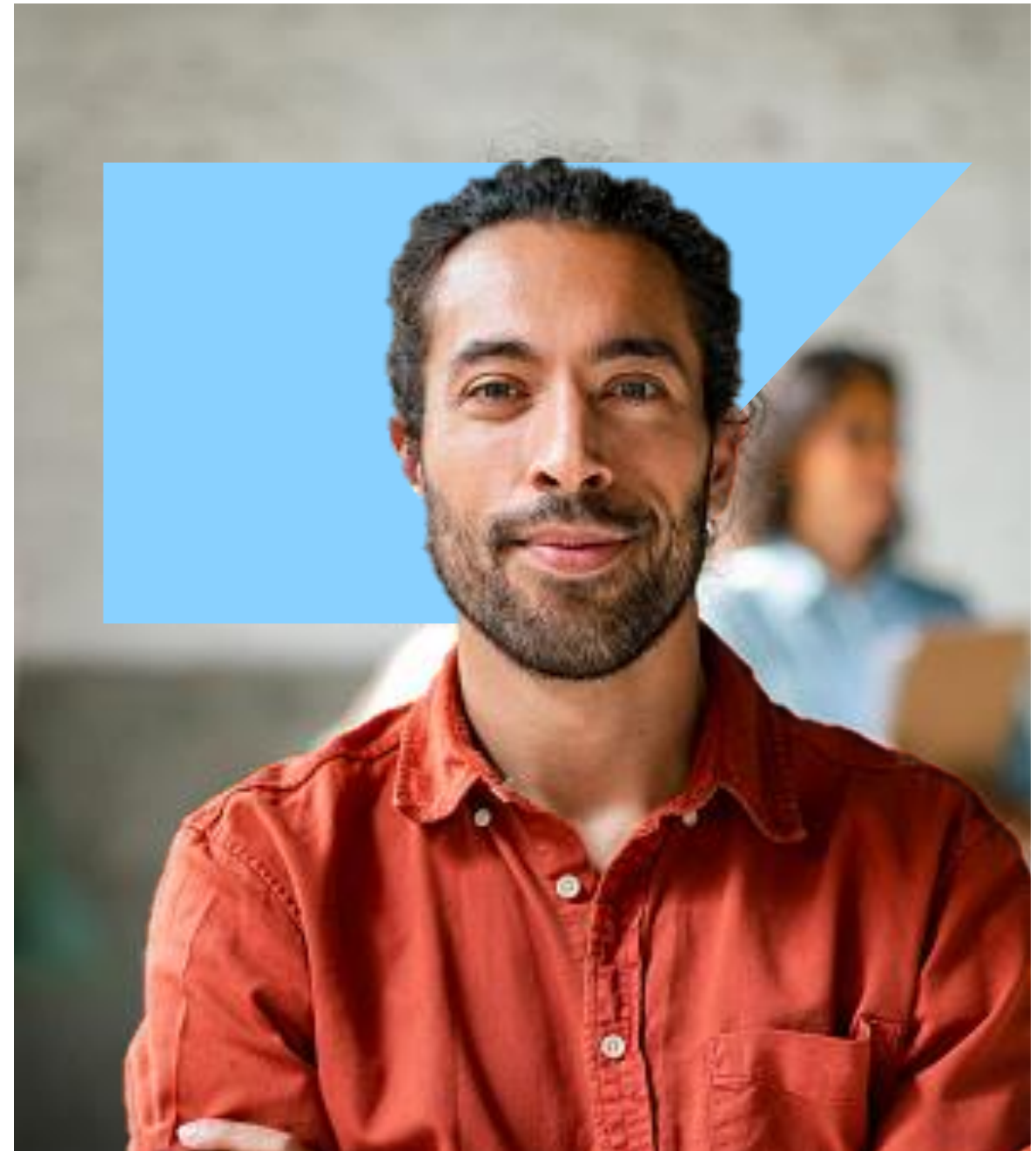
[Check out the Student Zone on SAP Learning](#)

[Join the SAP S/4HANA community](#)

Get help on SAP S/4HANA [On-Premise](#), Cloud: [Public Edition](#) or [Private Edition](#)

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Have fun exploring!

Your SAP University Alliances team

Email: sapnextgen@sap.com

