

Accelerate NextGen

Webinar MENDIX

Nuno Costa | **BOOL**



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Agenda

	Horário	Tópico	Speaker
1	10:00 am	Welcome	Sónia Palma
2	10:05 am	Sobre Accelerate NextGen	Sónia Palma & João Queiroz
3	10:10 am	Apresentação / Contexto	Nuno Costa
4	10:15 am	Sobre Mendix	Nuno Costa
5	10:25 am	Mendix Startup	Nuno Costa
6	10:35 am	Demo	Nuno Costa
7	11:45 am	Q&A	

Accelerate NextGen

Overview

Desafio

O Accelerate NextGen envolve estudantes do ensino superior e do ensino técnico-profissional no desenvolvimento de soluções para os desafios reais da transformação digital sustentável, nas áreas das infraestruturas energéticas e da indústria.

Objetivos

Organizados em equipas, os participantes concebem projetos técnicos aplicados a contextos reais, utilizando **ferramentas e software Siemens** usados no mercado e trabalhando com cenários de consumo, digitalização, eficiência e otimização energética.



Accelerate NextGen

Overview

2
alunos

Por equipa

Finalistas de curso técnico-profissional, licenciatura e mestrado

12
semanas

Um percurso acompanhado

Apoio de profissionais da Siemens e mentores durante todo o desafio.

8
webinares

Com especialistas do setor

Conhecimento nas ferramentas Siemens e apoio ao longo de toda a jornada.

1
pitch

Final

Top 10 teams vão apresentar o projeto final perante um painel de júris.



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Desafio

Desafio



Ferramentas



O desafio consiste no desenvolvimento de soluções inovadoras focadas na modernização e digitalização sustentável de soluções industriais.

Este desafio está estruturado em 4 categorias temáticas: Cibersegurança, Automação, Aplicações Low-Code e Simulação Energética e Eficiência Operacional.

SINEC Security
Node-RED
Siemens Solid Edge
Simcenter FLOEFD



O desafio consiste em criar um projeto de uma infraestrutura de energia elétrica, utilizando todos os recursos das ferramentas de dimensionamento da Siemens, que te serão disponibilizadas para esse fim.

Este desafio terá três fases distintas e cada fase contará com um webinar que irá permitir aos participantes familiarizarem-se com as ferramentas a utilizar nessa etapa e esclarecer quaisquer dúvidas relativas ao Desafio.

SIMARIS Project 25
Blueplanet PV-designer
SIMARIS Design 25

Accelerate NextGen

Overview

Participantes



O desafio está aberto a estudantes do ensino técnico-profissional, licenciatura e mestrado em áreas de engenharia.

Cada equipa consiste em 2 alunos e deve incluir um professor como mentor acadêmico para os guiar e apoiar durante o percurso. Estas equipas vão representar a sua instituição de ensino na competição.

Estrutura



- ✓ Elementos: 2 alunos por equipa*
- ✓ Professor: Um mentor acadêmico para guiar e apoiar a equipa
- ✓ Buddy Siemens: Os nossos embaixadores

*Representam a instituição de ensino no desafio

Prémios



Os prémios incluem formação em pitch para finalistas, estágios, viagem a um projeto de referência (Infraestrutura) e equipamentos de automação (Indústria).



Accelerate NextGen

Vertente Indústria

Categorias

Desafio



Tecnologias



Critérios



Cibersegurança

Os jovens engenheiros irão conceber e demonstrar uma solução integrada de cibersegurança, incluindo monitorização, gestão de ativos, deteção de vulnerabilidades e resposta a riscos.

SINEC Security
[Workshop 9 de Março](#)

Grau de inovação
Originalidade e criatividade da solução



Automação Sustentável

Os alunos devem desenvolver soluções inovadoras e sustentáveis, otimizar as operações críticas, aplicando conhecimentos em automação, IIoT e sustentabilidade.

Node-RED
[Workshop 5 de Março](#)

Utilização de Tecnologias
Correção e eficácia na integração das tecnologias Siemens



Aplicações Low-Code

Os participantes concebem aplicações low-code para otimizar operação, gestão e eficiência, transformando dados complexos em soluções simples e acionáveis.

Mendix
[Workshop 24 de Fevereiro](#)

Replicabilidade
Potencial de implementação em diferentes contextos



Análise Térmica

Os concorrentes concebem e otimizam quadros elétricos para datacenters, criando gémeos digitais para simular comportamento térmico, fluxos de ar e propor soluções inovadoras e sustentáveis.

Solid Edge & FloED
[Workshop 26 de Fevereiro](#)

Grau de Dificuldade
Complexidade técnica

Qualidade e Preparação
Clareza, organização e documentação do projeto

More information here <https://siemens.invitatorio.com/pt/accelerate-nextgen/registration>

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Accelerate NextGen

Webinar Indústria

Speaker

Nuno Costa

- Mendix Solution Architect
- Mendix MVP



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Accelerate Next Gen About Mendix

<https://www.mendix.com/academy/>

<https://docs.mendix.com/quickstarts/>

<https://sprintr.home.mendix.com/>

Get Mendix Certified



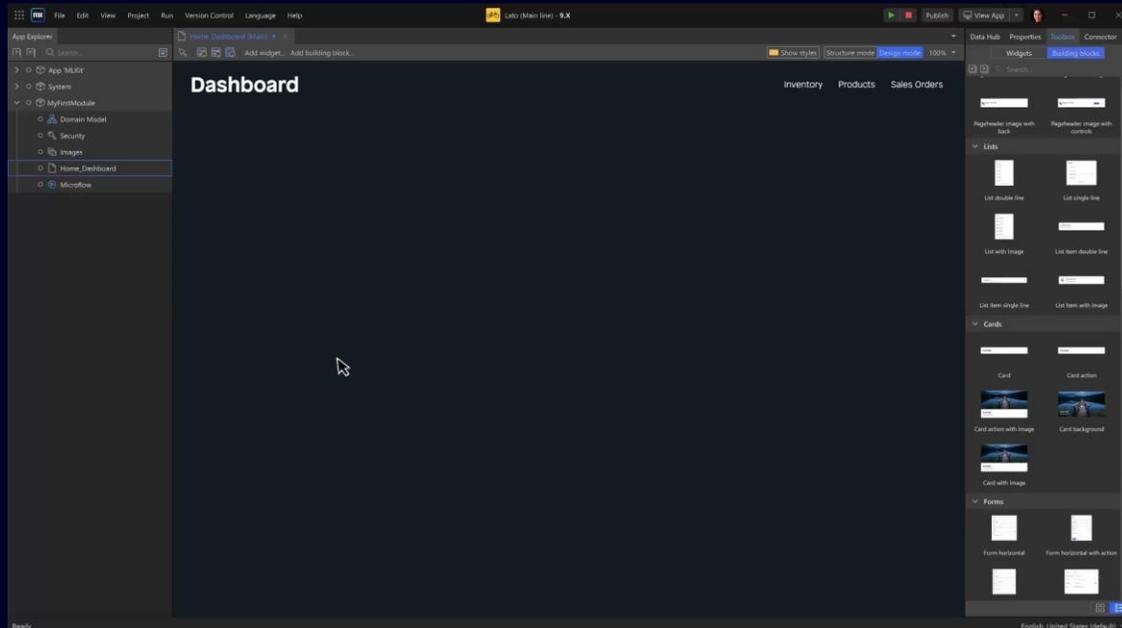
The image shows four circular icons representing different levels of Mendix certification. Each icon contains a symbol and the text 'MIX CERTIFIED' at the top and the level name at the bottom. The levels are: Rapid (lightning bolt), Intermediate (shield with 'I'), Advanced (gears), and Expert (stack of books).

Certification Level	Description	Action
Rapid Developer Certification	Rapid Developers can create simple features in Mendix and actively collaborate with experienced developers to turn ideas into outcomes.	View Rapid
Intermediate Developer Certification	Intermediate Developers can build sophisticated features under limited guidance and are ready for mission-critical projects.	View Intermediate
Advanced Developer Certification	Advanced developers can lead mission-critical projects, ensure best practices, and may consider becoming a Trainer to guide others.	View Advanced
Expert Developer Certification	Expert Developers can lead complex large-scale projects and are the most seasoned Mendix developers in an organization.	View Expert

Accelerate Next Gen About Mendix



Mendix is an industry leading, all-in-one, **low-code application development platform** that helps organizations **build multi-experience**, enterprise grade applications at scale. The platform is designed to accelerate the **entire development lifecycle, from ideation to deployment and operation**, while enabling collaboration at each step. Developers of varying experience levels can create multi-experience applications, without writing a single line of code, to help address the demand for solutions across the organization.



Mendix is a Low-Code Leader – Again!
Mendix has been a Leader for **9 consecutive years**

2025 Magic Quadrant™ for Enterprise Low-Code Application Platforms by Gartner® Recognizes Mendix as a Leader for **eight** Consecutive Time



<https://www.mendix.com/platform/#support>



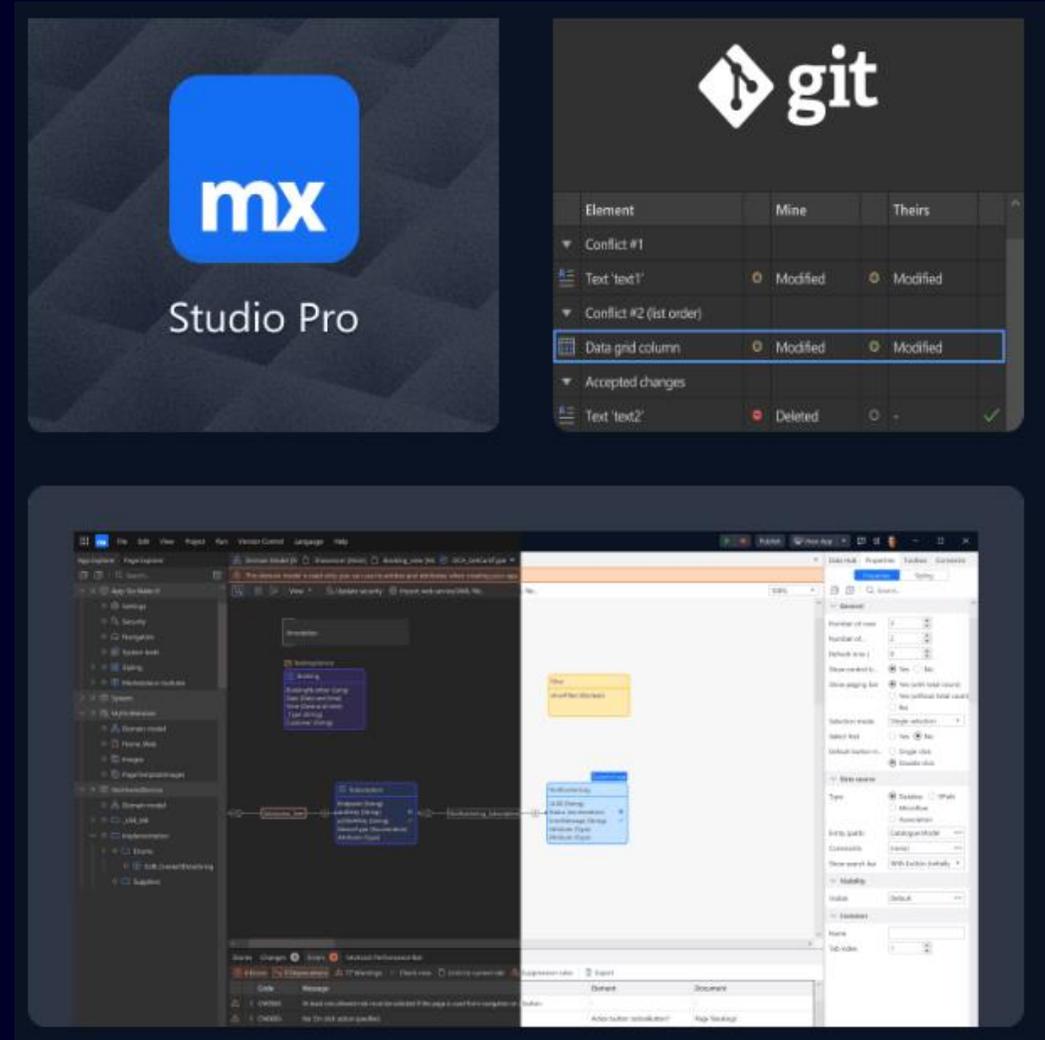
Accelerate Next Gen

Unmatched developer experience

IDE AI Collaboration Cloud UI/UX Extensibility Data Governance

Based on the principles of **model-driven development**, Mendix provides an IDE where all skill levels can thrive. From **creating data models to integrating with other systems**, developers can build with confidence and take on complex tasks with ease.

- ✓ Access the Mendix Marketplace, utilize **AWS connectors**, and build **extensions for third-party tools**.
- ✓ Integrate with other **external or internal systems** and **services with REST connectors, database connectors, and Event Brokers/Business Events** capabilities.
- ✓ Work comfortably with **light and dark modes**.
- ✓ Customize the platform to your enterprise needs with the **Model SDK** and **platform APIs**.
- ✓ Collaborate with other developers using **Git-based version control**.
- ✓ Increase app quality with automated **testing and debugging**.

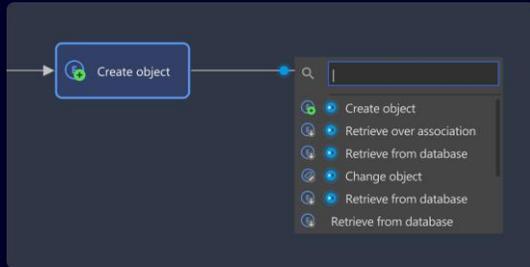


Accelerate Next Gen

Enhanced AI and ML capabilities

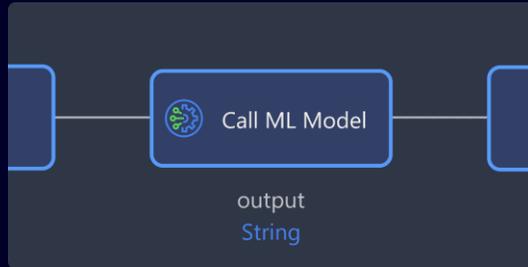
IDE AI Collaboration Cloud UI/UX Extensibility Data Governance

Build and deliver smart apps with **intelligent, contextualized, and proactive user experiences**. The **AI-enhanced** Mendix platform features virtual co-developer **bots** to streamline processes and is the first LCAP to support embedded **machine learning (ML)** models versus **API-based integration**.



MxAssist

Our AI-assisted development includes three specialized virtual co-developer bots: MxAssist Logic Bot, MxAssist Best Practice Bot, and MxAssist Data Validation Bot. From identifying and fixing issues to automating tasks and providing recommendations, each bot helps both beginner and experienced developers build and innovate faster.



The Mendix ML Kit

Embed AI models into smart apps without the need for third-party hosted services. The Mendix ML Kit helps developers bridge the gap between AI frameworks and low-code, enabling enterprises to deliver ML-enhanced smart apps faster and easier than ever before.



Leverage low-code and AI to deliver next-gen apps

Elevate your app development game and maximize your enterprise's growth potential with our AI-enhanced low-code development platform.

Featuring AI-assisted development (AIAD) and AI for smart apps, Mendix streamlines development and empowers enterprises to create apps that deliver intelligent, contextualized, and proactive user experiences.



AI-assisted development (AIAD)

Accelerate development with the guidance of our built-in virtual co-developer assistants.

[See more about Mendix Assist AIAD](#)



AI for smart apps

Build game-changing smart apps faster and easier with AI services and custom

[Read more about AI for smart apps](#)

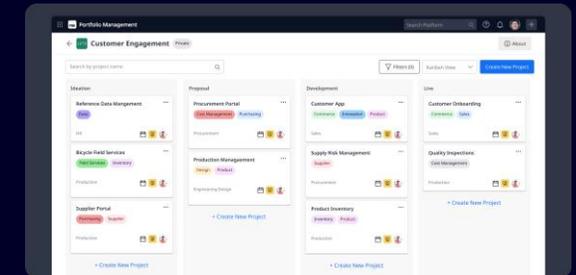
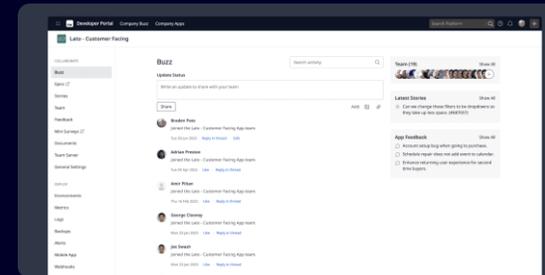
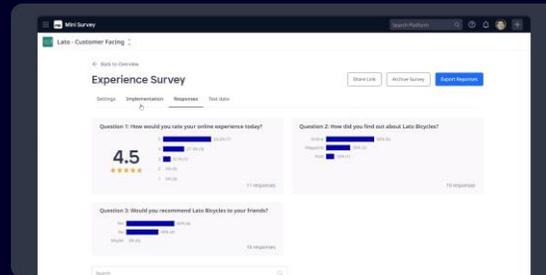
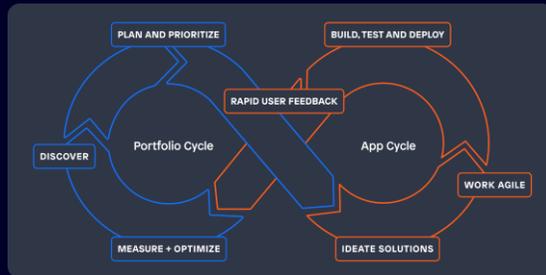
Accelerate Next Gen

Powerful tools for team development



IDE AI Collaboration Cloud UI/UX Extensibility Data Governance

Mendix keeps teams and projects aligned with the most robust low-code collaboration and communication tools.



Portfolio Management

Capture, prioritize, track, and assess the value of the initiatives in your portfolio. Mendix Portfolio Management helps enterprises mitigate risk, maximize value, and ensure alignment with business and IT goals..

App Insights

App Insights measure the impact of an app with tools to gather and process end-user feedback. Use Mini Surveys to ask end users questions, collect experience ratings, and gather NPS scores. End users can also report issues and share ideas via the Feedback Management Model.

Collaborative project spaces

In the Mendix Developer Portal, each app lives in its own central project space with tools for collaboration, Agile project management, backlog management, feedback management, and DevOps.

Agile project management

Manage projects easily with built-in tools for Agile project management methodologies like Kanban and Scrum. Mendix enables teams to create, refine, and prioritize user stories collaboratively using conversation threads.

Accelerate Next Gen Cloud-native deployment

IDE AI Collaboration **Cloud** UI/UX Extensibility Data Governance

All apps developed with Mendix are cloud-native, containerized, and portable by default. Developers have the freedom and **flexibility to deploy and scale anywhere — public, private, or hybrid clouds or on-premises.**

With this flexibility, Mendix apps benefit from auto-provisioning, auto-healing, low infrastructure overhead, CI/CD support, and cloud interoperability.

- ✓ Deploy apps to **any cloud, on-premise environment, or edge device.**
- ✓ **Scale** apps for growth **without rearchitecting or redesigning.**
- ✓ Incorporate **existing DevOps** practices or create your own.
- ✓ **Migrate** easily from one cloud provider to another.



Complete Cloud Freedom

Mendix's cloud options give you the freedom to deploy fast, frequently, and on your own terms.

Build new apps, modernize legacy systems, and go forth with your digital transformation. Our flexible multi-cloud capabilities include high availability, robust security, and maximum reliability with single-click deployment to our public Mendix Cloud, Mendix Cloud Dedicated, or Mendix for Private Cloud.

SUPPORTED CLOUD PROVIDERS



Mendix is also backed by Siemens and maintains partnerships with AWS, SAP, IBM, and Microsoft.

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Accelerate Next Gen Cloud-native deployment

IDE AI Collaboration **Cloud** UI/UX Extensibility Data Governance



Minimize risk and maximize uptime



Cloud-native by default

Mendix apps are containerized, portable, scalable, and resilient out of the box.



One-click deployment

Simplify operations with one-click deployment to our public cloud.



99.95% enterprise uptime guarantee*

The industry's best uptime, with mission-critical resiliency and instant backup and recovery.

*For premium versions.



Multi-cloud freedom

As your strategy evolves, Mendix apps will run and scale on your chosen platform.



Low ops, high impact

Make changes securely and easily with manageable microservices.

Multi-cloud deployment options

Choose from our public Mendix Cloud, a single-tenant Mendix Cloud Dedicated, or Mendix for Private Cloud — the industry's first and only private cloud. Rest assured that as your strategy evolves, your Mendix solutions will run in any environment, whether in the cloud or on-premises.

Accelerate Next Gen

Modern, cross-platform UI and UX

IDE AI Collaboration Cloud **UI/UX** Extensibility Data Governance

Create **offline-first native mobile apps, PWAs**, and **responsive web apps**. With Mendix, it's easy to deliver consistent, engaging multi-channel experiences across **web, mobile, wearable, conversational, and immersive touch points**.



Easy-access Atlas

Accelerate development with pre-built and reusable models, templates, widgets, and components. The Mendix Atlas UI design language empowers teams to create intuitive UI and UX or build a unique design language with the Atlas UI framework.



Responsive apps across touchpoints

Build native iOS and Android apps, progressive web apps (PWAs), web-based portals, IoT-enabled smart apps, and beyond — all in a single platform.



Bespoke UX

Mendix leverages open-source JavaScript frameworks (React and React Native) to empower teams to build engaging user experiences.

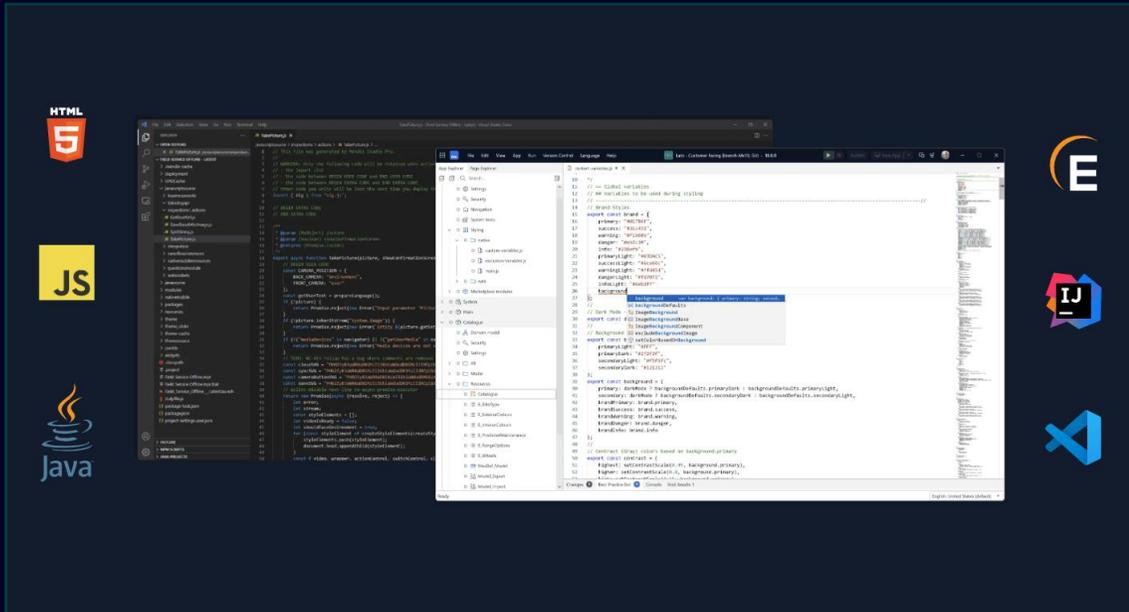
Accelerate Next Gen Unlimited extensibility

IDE AI Collaboration Cloud UI/UX **Extensibility** Data Governance

Customize and **extend** both the Mendix platform and your apps **without limitations**. Out of the box, the platform and apps are open and extensible at every level, enabling teams to tailor Mendix to enterprise needs and extend app capabilities.



- ✓ Extend the platform with APIs and integrate existing tools, CI/CD pipelines, and test automation suites
- ✓ Build reusable components with Java and Javascript to extend the capabilities of your applications
- ✓ Integrate third-party tools, migrate, adjust, and analyze Mendix Models programmatically with Mendix Model SDK
- ✓ Leverage open AI/ML models inside your apps with the Mendix Machine Learning Kit



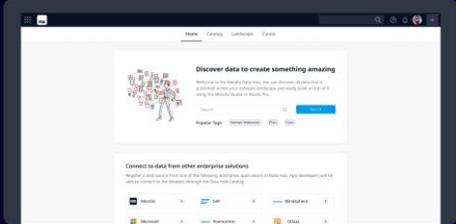
Accelerate Next Gen Universal access to data

IDE AI Collaboration Cloud UI/UX Extensibility **Data** Governance

Quickly find, understand, and use your data in a connected ecosystem. Mendix empowers **enterprises** to **quickly and securely share data** across projects and teams.



- ✓ Monitor data activity, including what system is retrieving what data
- ✓ Build reusable components and microservices fast with seamless access to data
- ✓ Ensure that data is used securely and consistently with Mendix Connect External Entities
- ✓ Visualize data with charting capabilities or by connecting Mendix to your existing BI tools



Control your data with Mendix Connect

Locate metadata, connect apps and BI tools to the right datasets, and ensure data consistency throughout your organization. In the Mendix Connect Catalog, teams can describe data sources, assign business and technical ownership, and tag data sources appropriately.

Integrate external data with standard protocols

Mendix supports integrations with your existing data sources and services through industry-standard interfaces and protocols — REST, SOAP, MQTT, JDBC, ODBC, BAPI, OPC, and OData — enabling developers to connect to systems like Oracle, Salesforce, MS Dynamics, SAP, AWS, and others.

Integrate without frustration
Connect to data, applications, and third-party services with out-of-the-box connectors, or use SOAP, SQL, REST, OData, and more.

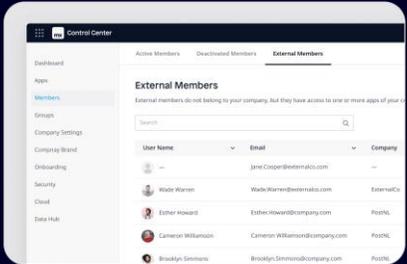
[See all integrations](#)

Accelerate Next Gen Trusted security and governance

IDE AI Collaboration Cloud UI/UX Extensibility Data Governance

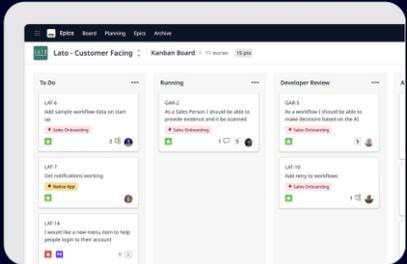
Mendix is equipped with the most trusted security and governance tools and controls of any LCAP.

Out-of-the-box features include standard DevOps and governance tools and services, plus automated quality monitoring, consistency checks, and testing. You can also bring your own identification provider (BYOIDP) to better secure your data and automate third-party CI/CD pipelines with the Mendix Webhooks API.



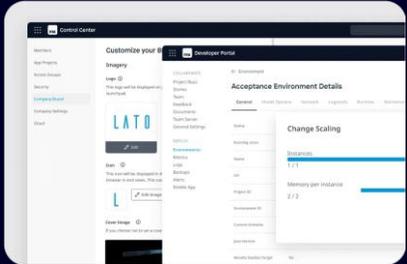
Control access levels

Maintain full control over who is allowed access and what they can do in the platform.



Tailor your DevOps

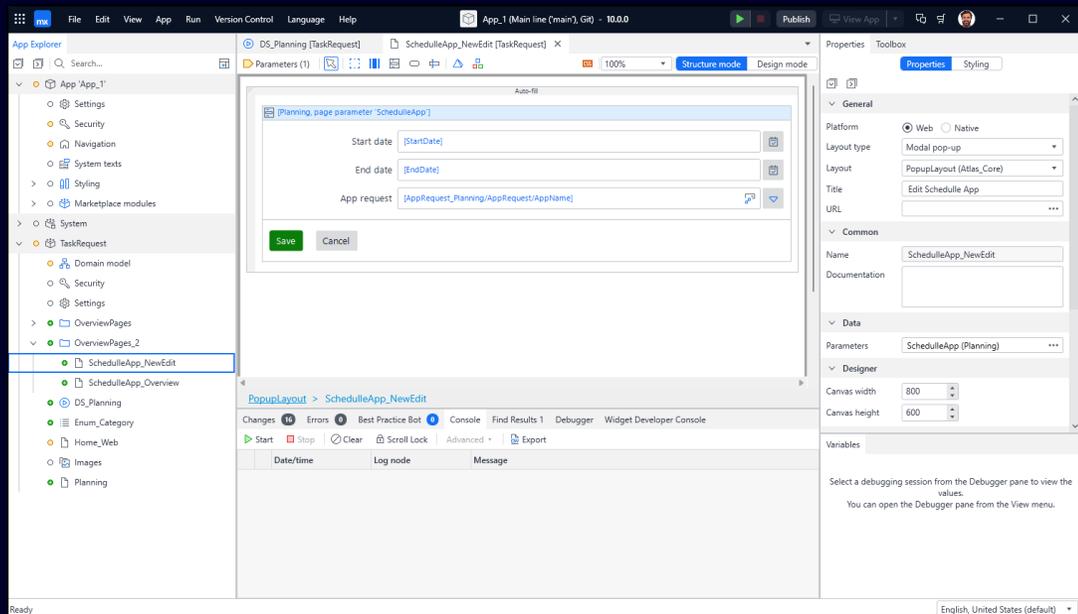
Use our built-in DevOps tools or implement custom practices with the platform's open tooling.



Govern without limits

Set up guardrails with user-based security, version control, and a comprehensive admin suite.

Accelerate Next Gen Hands-on



Accelerate NextGen

OBRIGADO

Contactos:

Sónia Palma

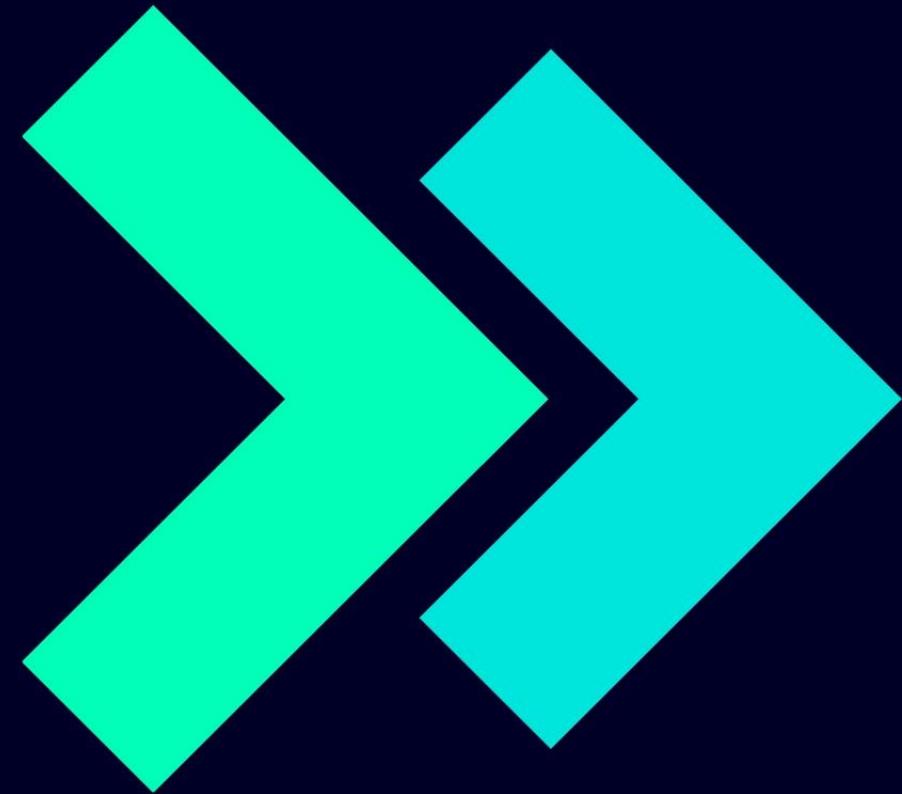
sonia.palma@siemens.com

91 010 72 99

Nuno Costa

nuno.gc@bool.pt

93 326 75 50



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