

PREDIX

Industries are reinventing themselves for the digital age. Predix makes it possible.

Predix is a distributed application and services platform optimized for developing, managing, and monetizing Industrial Internet applications. GE created Predix to transform industrial operations—leveraging their broad industrial experience into a continually evolving comprehensive Industrial Internet of Things (IIoT) platform. With Predix, industrial companies can dramatically improve the performance of their assets and operations, lower costs, and develop innovative new revenue streams faster and for less than with homegrown industrial or traditional enterprise platforms.



Scalable framework for data ingestion and management

Data in the industrial world is growing faster than any other sector, and yet less than 3% of that data is tagged and used in a meaningful way. Industrial data is also messy and moving fast —arriving as multi-terabyte streams in different formats and from multiple sources such as equipment sensors, assets, and control systems. Yet, once the data is captured, it can be fragmented and siloed, making it difficult to analyze and reuse. Predix provides real-time access to industrial data by using machine intelligence to automate the data ingestion and mapping process. By automating data mapping, Predix can generate operational insights rapidly, providing a contextual view of your data in days instead of months. Predix security services also helps protect data with network-level data isolation, encryption, and key-management.

Features include:

Connection to the source

Connect to GE and non-GE machine sensors, controllers, gateways, enterprise databases, operational historians, and content stores

Automated data ingestion and mapping

Processing and bulk upload tools for unstructured, semi-structured, and structured data—for speedier

design, testing, and generation of code, leading to easier management and monitoring of projects. Data conversion for analytics on “data-in-motion” and data modeling. Governance and cataloging services for data cleansing, quality, enrichment, tagging, and processing.

Data management using machine intelligence

Using machine intelligence, perform complex data integration and analysis across connected devices, OT and IT systems, and external sources. There is also storage in the right data store, whether it's machine sensor data, large images, or relational and unstructured content. Data federation capabilities allow users to extract value, find patterns, and process complex events.

Industrial-grade security and integrated governance

The Industrial Internet demands a high level of security and data governance. That's why the Predix environment is continuously being monitored for availability, safety, and compliance — monitoring for anomalies and suspicious events, with penetration testing of defenses.

Predix is secure and resilient by design:

- Support for a variety of international security standards
- Designed with a defense-in-depth approach
- 24x7 network and security operations

- Protecting data through tenant segregation and restricted access with data protection from the moment of asset connection

Predix is also supported by security-related processes and tools for secure software development:

- Mandatory application security
- Secure development guidelines, tools, and services that help innovate with confidence



Get started with Advisory Services

Uncover the outcomes that are critical for your business. Design a solution that maps to your specific business needs and fully utilize your data and intelligence for actionable insights and outcomes. GE Digital services teams will accommodate your unique requirements and provide an IIoT roadmap designed to transform your business.

Start your journey with IIoT workshops

GE will partner with you to chart your IIoT future. We will assess your current state, determine your new capabilities and business goals, and develop an action plan on how to get there.

Tap into data science expertise

Our team of world-class data scientists can uncover relationships between your data and key business drivers, providing you with the information you need to achieve your specific business outcomes.

Kick start your Predix projects with developer training and certification

Maximize the return on your IIoT investments by developing and validating your expertise through structured education journeys. Learn to identify and combine services that simplify development and accele-

rate your application delivery through instructor-led courses in a classroom or online. Self-paced e-learning is also available. Learn to leverage the power of Predix to create scalable applications. Don't miss out on receiving best-in-class training and certifications for Predix.

For more information:

predix.io/resources/training

Create your first killer app in the Predix Dojo

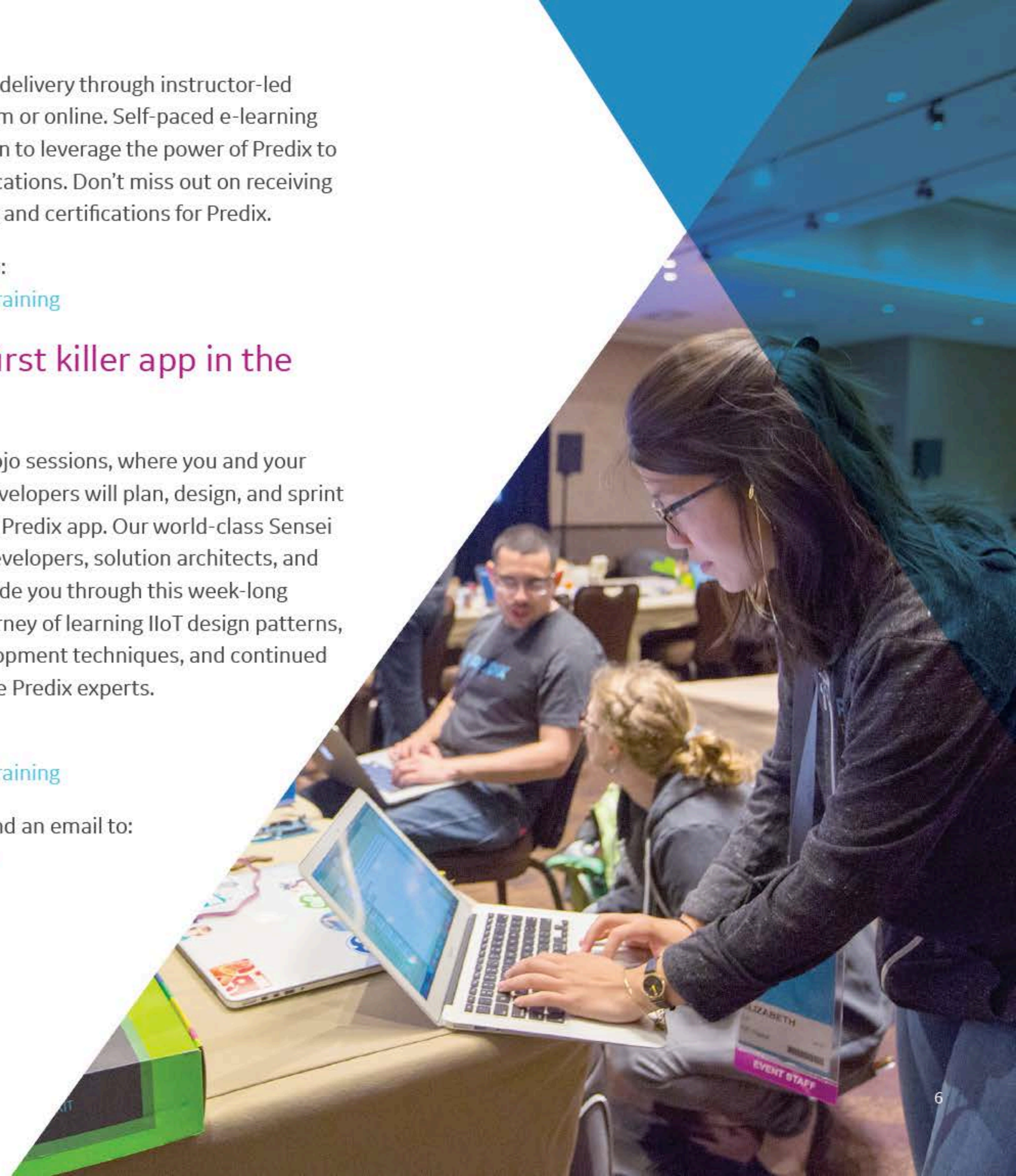
Register for Predix Dojo sessions, where you and your team of four to six developers will plan, design, and sprint your way to your first Predix app. Our world-class Sensei team consisting of developers, solution architects, and Agile coaches will guide you through this week-long hackathon—for a journey of learning IIoT design patterns, best practices, development techniques, and continued collaboration with the Predix experts.

Predix Dojo details:

predix.io/resources/training

To sign up, please send an email to:

predix-dojo@ge.com



About GE Digital

GE Digital connects streams of machine data to powerful analytics, providing industrial companies with valuable insights to manage assets and operations more efficiently. World-class talent and software capabilities are driving big gains in productivity, availability and longevity. For more information, visit ge.com/digital.

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1. GE estimates: <http://gereportsasean.com/post/128822053685/ge-predix-article-the-industrial-cloud-is-here>

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