

Breakpoint One Introduces New Edge AI Platform for Local AI Applications

Polypreter, the first product based on the new platform, combines local AI processing, real-time translation and low latency while ensuring complete data security and privacy.

Artificial intelligence does not necessarily have to run in the cloud. Breakpoint One is introducing a new Edge AI platform that enables companies to run AI applications locally, securely and with minimal latency. The first application based on the platform is Polypreter – a system for secure real-time translation that will be available for pilot projects and initial customer deployments from Q4 2026.

As more and more organizations seek to adopt artificial intelligence, cloud-based solutions often face limitations. Data protection requirements, latency and limited or unavailable internet connectivity can make their use difficult in many environments.

With its new Edge AI platform, Breakpoint One takes a different approach: powerful AI applications run directly on local hardware – securely, quickly and independently of external services.

The Solution

Demand for sovereign AI solutions continues to grow. Companies and public-sector organizations want to benefit from modern AI without giving external providers access to sensitive data. At the same time, requirements for fast response times and operational reliability are increasing.

Breakpoint One's Edge AI platform addresses these developments by providing the foundation for a new generation of local AI applications. The platform was developed to run artificial intelligence directly where data is generated – securely, with minimal latency and without requiring a permanent internet connection. At the same time, it provides the foundation for future local AI agents and other generative AI applications within corporate IT environments.

Polypreter demonstrates the potential of the platform through a practical application: it provides live translation entirely locally, without transmitting sensitive data to external services. Whether in an international board meeting, a medical consultation or communication within public authorities, language should never be a barrier.

Polypreter translates spoken language directly and provides the translation immediately as text and audio. All processing takes place locally on the Edge AI platform, ensuring that confidential conversations and sensitive information remain under the operator's control at all times.

In addition to data protection, local processing offers further significant advantages. Direct processing minimizes response times and enables the system to operate even in environments with limited or no internet connectivity. This makes the platform suitable for companies, public authorities, healthcare, industrial applications and international events, helping organizations strengthen their digital and AI sovereignty.



Polypreter by Breakpoint One enables local real-time translation without dependency on external services.

The Edge AI platform can be expanded with additional AI applications. Beyond live translation, future applications will include local AI assistants. Polypreter therefore represents the first step in Breakpoint One's broader platform strategy for secure, powerful and sovereign AI applications.

Olaf Sacher, Managing Director of Breakpoint One: "We are convinced that powerful AI will not operate exclusively in the cloud in the future. Many companies want to keep their data in-house while still benefiting from state-of-the-art AI. With our Edge AI platform, we provide exactly that capability – fast, secure and independent of an internet connection."

Breakpoint One's Edge AI platform is designed for environments where artificial intelligence needs to be available in real time while meeting high requirements for data protection, responsiveness and operational reliability. With Polypreter as its first application, internationally active companies, public-sector organizations and event organizers in particular can benefit from secure and reliable live translation – independently of external service providers.

Typical applications include international conferences, corporate events and town hall meetings, trade shows and customer events, public authorities and government organizations, hospitals

and healthcare facilities, as well as industrial production and service environments. The platform also opens up new possibilities for educational and research institutions and mobile applications where a stable internet connection cannot always be guaranteed.

Availability

Polypreter will be available from Q4 2026. Live demonstrations, pilot projects and initial customer installations can already be arranged with Breakpoint One.

About Breakpoint One

Breakpoint One GmbH develops innovative hardware and software solutions in the fields of artificial intelligence (AI), Extended Reality (XR) and interactive 3D technologies. For more than ten years, the company has delivered research and customer projects for industry, public-sector organizations and international partners.

Breakpoint One focuses on developing powerful, practical technologies that make complex digital applications intuitive to use. The expertise gained through numerous research and industrial projects forms the foundation for the development of its new Edge AI platform.

With this new Edge AI platform, Breakpoint One is expanding its portfolio with a powerful infrastructure for local AI applications. The goal is to enable companies and organizations to deploy modern AI technologies securely, quickly and independently – without compromising data protection, performance or availability.

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