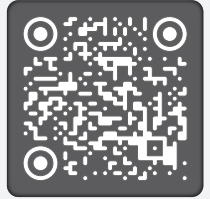


Next-gen Interactive COunterpart



NICO, a pioneering digital counterpart technology, revolutionizes training and simulation by enhancing traditional role-playing methods with intelligent avatars, accessible through both Virtual Reality (VR) and Augmented Reality (AR) platforms. This innovative solution addresses key limitations of conventional training by eliminating the need for scheduling live role players, thereby providing unmatched flexibility and efficiency in training preparation and execution.

Ready to be part of your team today, NICO is highly adaptable – the perfect companion for applications across diverse domains.



Voice Recognition

NICO uses an advanced voice recognition service and image processing to help understand the environment and provide data to its brain.



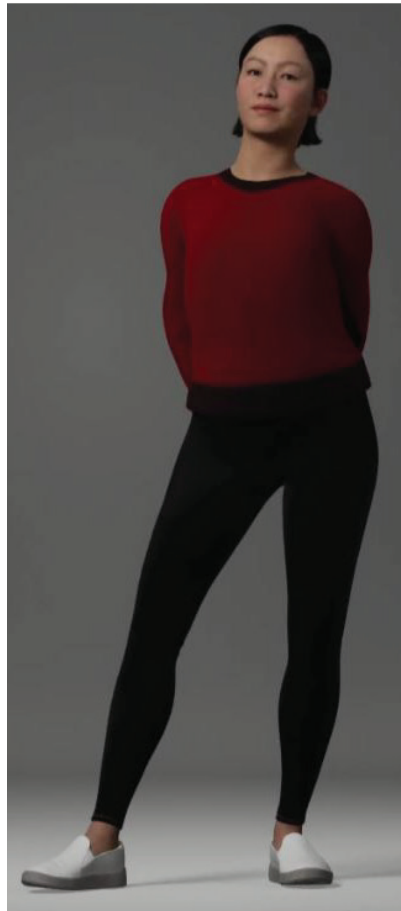
Natural Language Processing

Natural Language Processing enables NICO to engage in meaningful conversations. It currently speaks and understands multiple languages.



Retrieval Augmented Generation

NICO loves to learn, and with its Retrieval Augmented Generation (RAG), it can extend its knowledge base by learning from documents, conversations, visual inputs, and email/chat interactions.



Large Language Model

NICO's advanced brain service uses a Large Language Model (LLM) to reason about sensory inputs. This lets NICO interpret verbal cues and body language and respond thoughtfully to those around it.



Computer Vision

NICO's integrated computer vision service means that NICO can recognize and react to a diverse library of objects, gestures, faces, and events.



Unreal Game Engine

NICO generates visual responses using the Unreal Metahuman within the Unreal Game Engine.



NICO Tech Sheet

Next-gen Interactive **CO**unterpart

MULTI-MODALITY

NICO's underlying architecture represents true multi-modal technology, where the NICO avatar can come to life in Augmented Reality (AR) or Virtual Reality (VR) environments.

Instructors can place QR codes in a training facility, for example, and when students wearing the AR headset encounter the QR codes, NICO avatars appear and interact directly with the trainees.

NICO VR avatars are easy to set up within a range of displays; the standard setup is a large standing tv monitor.

DATA

NICO features a retrieval augmentation generation (RAG) capability that allows it to gain knowledge relevant for specific scenarios.

NICO learns from interactions and stores valuable data.

The 2025 roadmap includes the introduction of a data warehouse, enabling the storage and management of large data sets.

DEPLOYMENT

NICO's base offering is deployable at the Point of Need (PoN) and will be available as a Cloud service in 2025.

Our PoN solution is mobile, enabling NICO avatars to be deployed through 5G in remote and austere environments, delivering a low overhead training environment.

NICO comes preconfigured on hardware that allows for immediate use.

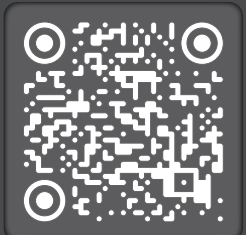
CONFIGURABLE

NICO is highly configurable, allowing users to tailor scenarios to meet their unique needs. With NICO, users can:

- Select from multiple languages
- Customize NICO's look and feel
- Build backgrounds and environments in the Unreal Game Engine
- Teach avatars to recognize and react to objects and body language

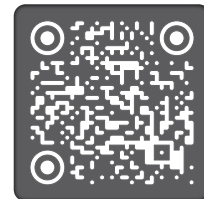
NICO can be configured to support any environment and any context, especially complex modern warfighting scenarios.

Visit us at **mak.com/NICO** to learn how NICO can transform your training approach, offering scalable and effective solutions tailored to the modern battlefield.



NICO is powered by





NICO as a Virtual Role Player

Next-gen Interactive **CO**unterpart

NICO's intelligent avatars are designed to interact realistically with users, responding dynamically to both verbal commands and non-verbal cues, mirroring human reactions in complex scenarios. This advanced capability allows for the simulation of high-risk or otherwise impractical real-life situations, providing a safe and controlled environment for critical skills development. Trainees can engage in a wide range of scenarios—from delicate negotiation and conflict resolution to emergency responses—without the logistical constraints and safety concerns associated with human role players.



Ideal for military, law enforcement, and emergency services training, NICO offers a scalable, cost-effective solution that enhances the depth and realism of training exercises, preparing personnel for the unpredictable dynamics of real-world situations. With NICO, organizations can consistently deliver high-quality, immersive training experiences that are crucial for effective decision-making and performance under pressure.

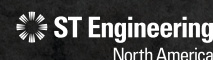
KEY FEATURES

- NICO can learn roles and scenarios via document ingestion.
- Available in both Virtual Reality (VR) or Augmented Reality (AR) configurations.
- Engages with both verbal and visual cues for natural interactions.
- Uses 5G technology for live simulation environments.
- Accessed via QR codes through Magic Leap glasses.

NICO, a pioneering digital counterpart technology, revolutionizes training and simulation by enhancing traditional role-playing methods with intelligent avatars, accessible through both Virtual Reality (VR) and Augmented Reality (AR) platforms. This innovative solution addresses key limitations of conventional training by eliminating the need for scheduling live role players, thereby providing unmatched flexibility and efficiency in training preparation and execution.

Building on MAK Technologies' legacy of excellence, MAK Simulation Solutions is committed to creating high-value solutions that address the evolving needs of today's training landscape.

NICO is powered by





NICO BRAIN

	Base	Plus	Custom
Advanced Data Fusing	✓	✓	✓
Natural Language Processing	✓	✓	✓
Real-time Data Fusion			✓

COMPUTER VISION

Computer Vision Library		✓	✓
Object Library Editor			✓

HEARING

Voice to Text		✓	✓
Multilingual		✓	✓

SPEECH ENGINE

One Shot Voice Cloning		✓	✓
Multilingual voices		✓	✓
Customized Voice Learning			✓

MODALITY

Virtual Reality	✓	✓	✓
Augmented Reality		✓	✓

DEPLOYMENT

Commercial Cloud		✓	✓
Private Cloud			✓
5G Networking*			✓
On Prem	✓	✓	✓

AVATAR

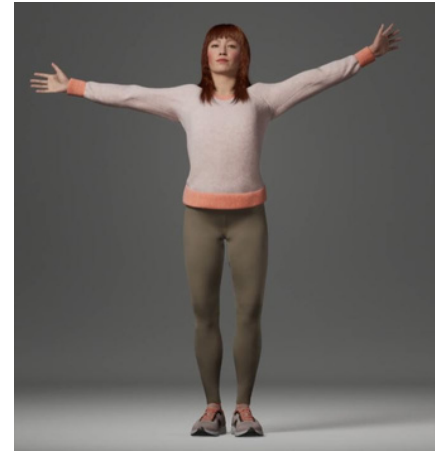
Library of 20 Avatars	✓	✓	✓
Create Custom Avatars**			✓
Multiple Avatars in Scenarios***		✓	✓

SIMULATION ENVIRONMENTS

DIS/HLA Connections		✓	✓
Interact with Simulation Events		✓	✓
Control of Simulation			✓

CORE PLATFORM

Exchange NICO MOSA Services			✓
Integration Plugins		✓	✓
Retrieval Augmentation Generation	✓	✓	✓
Hardware Included	✓	✓	Custom



"We are proud to present NICO with a competitive price to the M&S community and beyond. Our patent-pending architecture and work with Unreal Engine, Magic Leap, and other partners have allowed us to get NICO off the ground in less than a year.

With our 1.0 version, we are offering three options. This allows us to support multiple use cases ranging from straightforward to very complex, where users have requirements on specific technologies, enhancements, etc.

Reach out and get NICO for your organization. We can share exciting developments planned for NICO 1.5 and 2.0 during 2025. The journey is just beginning."

- Alicia Combs
VP, MAK Simulation Solutions



* Private 5G Athena Tek solution

** Unreal Metahuman editor

*** Plus version is limited to 2 avatars