



LILT

Why AI is the only way to transform multilingual translation



Fast, accurate translation is essential for a wide variety of government missions, and AI helps agencies keep pace with demand

Jeff Rothblum | LILT

Language translation is a key facilitator of many government missions. National security, for example, frequently involves working with foreign partners and intercepting and understanding adversary communications in foreign languages so the U.S. military needs multi-modal language translation when dealing with both adversaries and allies.

Even in situations where we think we know what the language will be, we are often surprised. Let's say, for example, the U.S. military interdicts a Chinese-flagged vessel that was observed leaving China. However, when officials board the ship, with their Chinese linguist, they find that the entire crew only speaks Vietnamese.

Looking beyond national security, tens of millions of people in the United States speak a language other than English at home. Under federal law, communities with a large number of foreign-language speakers must translate election content into other languages, including where, when and how to vote. Giving everyone access to that information is a central part of our democracy.

Translating content faster and more accurately

Governments face a persistent shortage of critical-language linguists,

compounded by the limited number who can obtain security clearances or have subject-matter expertise in fields such as medicine, hypersonic missiles or nuclear energy. Artificial intelligence is the only way to keep pace with the rapidly growing translation demand.

At LILT, we have developed a multilingual AI platform that delivers fast, accurate translation of text, audio and video. But we haven't replaced humans with AI. Instead, human-in-the-loop reviews ensure the quality and accuracy of translations and fine-tune each agency's model in real time, based on its particular mission, terminology and area of expertise. This approach leads to far more accurate translations than one-size-fits-all models. And all the translated content and fine-tuning data remain with the agency, so the information stays secure and private.

Customers have told us that LILT's technology helps them translate content five to 10 times faster than before. One military unit said what used to take a month can now be done in three days, and that's with a human reviewing everything. In addition, LILT has helped the National Weather Service move from emailing content to meteorologists for translation to issuing extreme-weather alerts simultaneously in English and five other languages.

LILT's platform is flexible, allowing for deployments to commercial or customer clouds, integrating with agency's existing systems, and allowing for uploads of bulk or user-identified foreign language content.

Producing content at scale in multiple languages

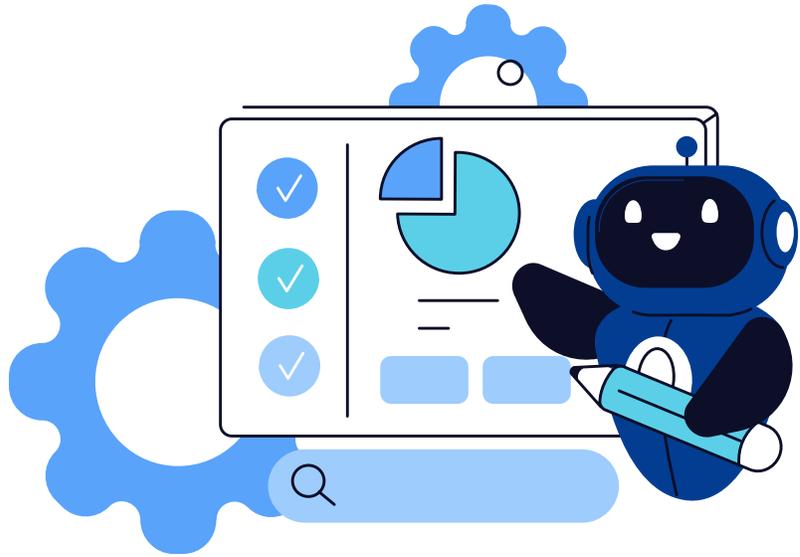
We've also developed LILT Converse, a live voice-to-voice interpretation capability where multiple language models are distilled down small enough to sit on an off-the-shelf tablet or cell phone. These models work even when the devices are not connected to the internet or other networks, unlike other AI models that require a connection to data centers. Converse allows military officials on a ship in the middle of the ocean to talk instantly with our allies or first responders in a disaster zone to communicate with their colleagues when the internet is down.

Agentic AI will further improve language translation by taking over human-driven activities such as sending material to the right linguist, and grabbing content from the appropriate repository and formatting it correctly. Employees will set the parameters for how the AI agents work, and those agents will only need to engage with users when they have a question or concern. This saves money and allows

people to do the most challenging and most interesting work.

Producing content at scale in multiple languages is essential to a wide variety of government activities in our increasingly complex world. LILT continues to augment its AI-driven platform to serve as a mission-critical translator for agencies. ■

Jeff Rothblum is head of government affairs and strategy at LILT.



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LILT Converse Secure, Real-Time Speech Translation.

Communicate clearly anywhere without WI-FI, cellular, or cloud

Hello, good to see you.

Hola, es un gusto verte también.

Hello, good to see you. Hola, es un gusto verte también.

