

# Municipality Council Public Meetings Refined Transcription

We developed and deployed the application on Compute Engine using Google Cloud tools like Speech-to-Text V2 Chirp and Gemini. We implemented the processing pipeline to deliver an automated efficient solution accessible via web interface.

## The challenge

The customer needed an efficient way to process and transcribe large volumes of video content. Their challenge was to accurately transcribe lengthy videos, intelligently segment audio, and generate refined transcripts with chapter divisions and summaries—all automated to reduce manual effort and accessible via a web interface.

## The solution

An application deployed on Compute Engine uses Speech-to-Text V2 Chirp model and Gemini Flash and Pro 1.5. The pipeline: download video, convert to audio, split on silence, merge into 5–10-minute chunks, transcribe with Chirp, send to Gemini with transcriptions and adjacent audio for refinement, chaptering, and summarization. Output is saved in Markdown format and accessible via a web interface.

## The result

The solution represents a fully automated system that efficiently processes large volumes of video content. It accurately transcribes videos, intelligently segments audio, refines transcripts with chapters and summaries using Vertex AI, and makes them accessible via a web interface. This reduced manual effort and improved transcription accuracy.

We employed Google Cloud's Vertex AI Pipelines to streamline our workflow. Utilizing Speech-to-Text V2 Chirp and Gemini models, we achieved high transcription accuracy and generated comprehensive summaries. Intelligent audio segmentation allowed us to create precise chaptering. The final outputs, saved in Markdown format, are readily accessible through the web interface.



### About Praha 6

Praha 6 - Municipal District of Prague 6.

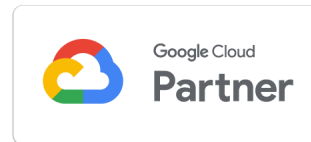
Vertical/horizontal solution: Other

Primary project location: Czech Republic



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### Products

Google Cloud Platform