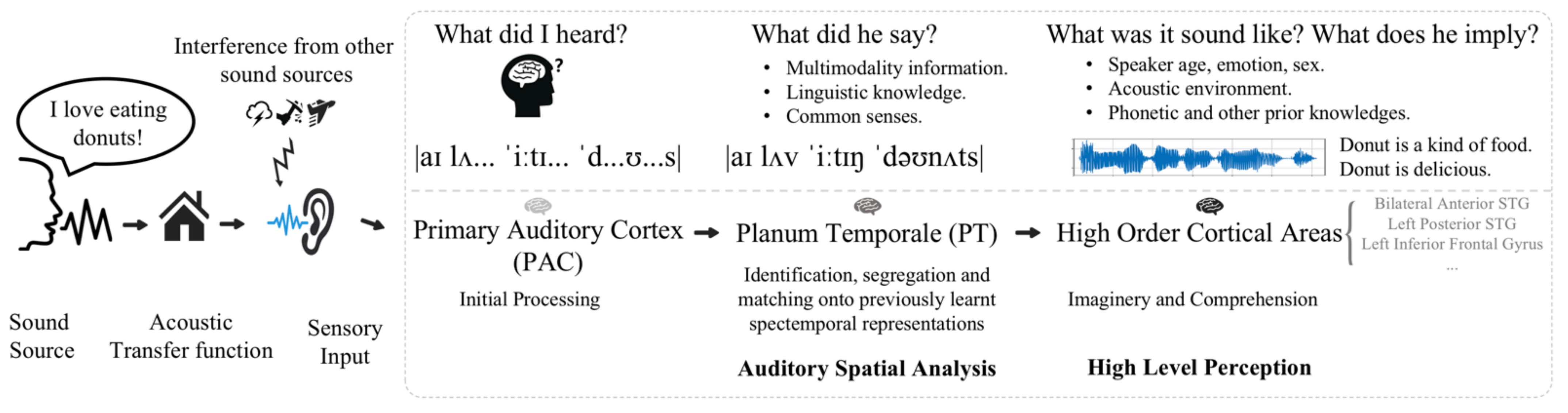




**Motivation**

How do we perceive speech in a noisy environment?

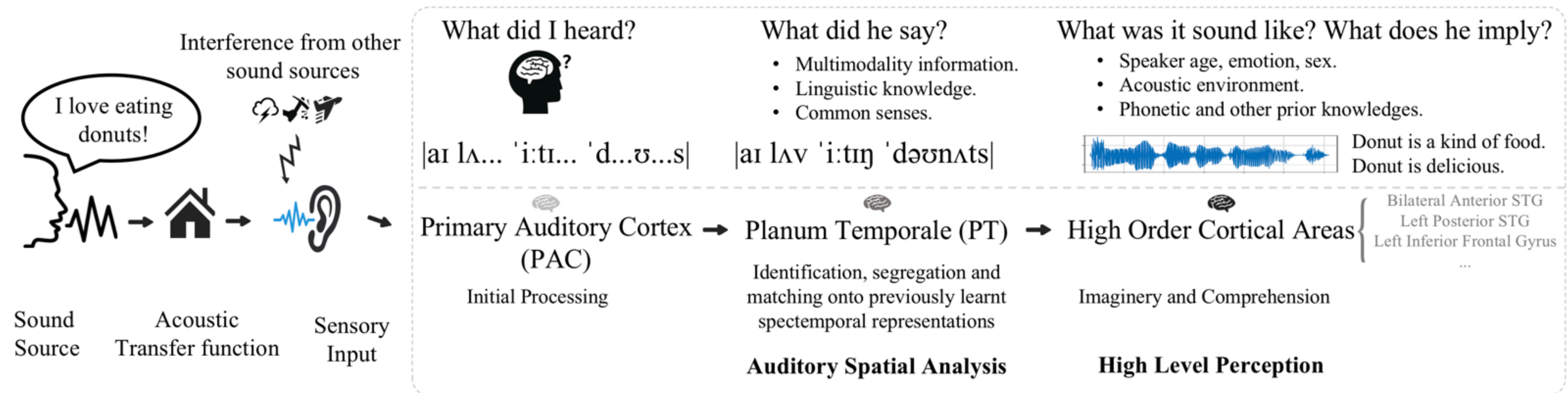


3. Can we use the similar two stage processing?

Answer: Yes, we can divide it into two sub-tasks.

# Motivation

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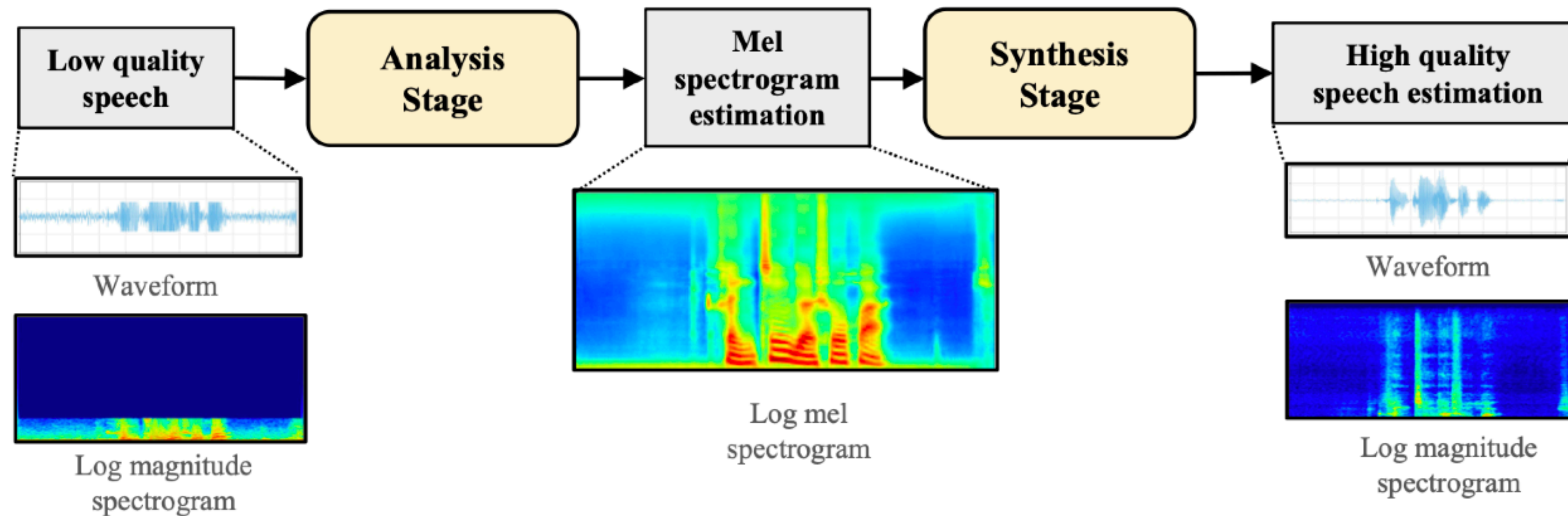


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Answer: Yes, we can divide it into two sub-tasks.

# VoiceFixer

## Overview



- Two Stage Processing  $f: x \rightarrow z, z \rightarrow \hat{s}$ 
  - Analysis Module: Input distorted mel spectrogram and output restored mel spectrogram.
  - Synthesis Module: Input restored mel spectrogram and output waveform