**MICa** makes use of a custom application, microphone, and voice capture technology on a student’s personal device to encapsulate student conversations.

Speech recognition and natural language processing within the application translate student conversations to text.

Computer linguistics in the cloud are used to identify spoken concepts and search all available resources for those concepts.

**MICa** uses application programming interfaces (API) to display images, videos, text, and simulations on a networked display device.

Student interactions are captured using server logs for further reference and study by teachers and researchers.

**Purpose of MICa**: To create a new genre of learning technologies that reduce cognitive load in the research and assessment of information in a classroom setting.

**MICa will** support:
1. concept interaction and collaboration with students
2. visual presentation during student discussion
3. dialogue repository for teachers and researchers and students