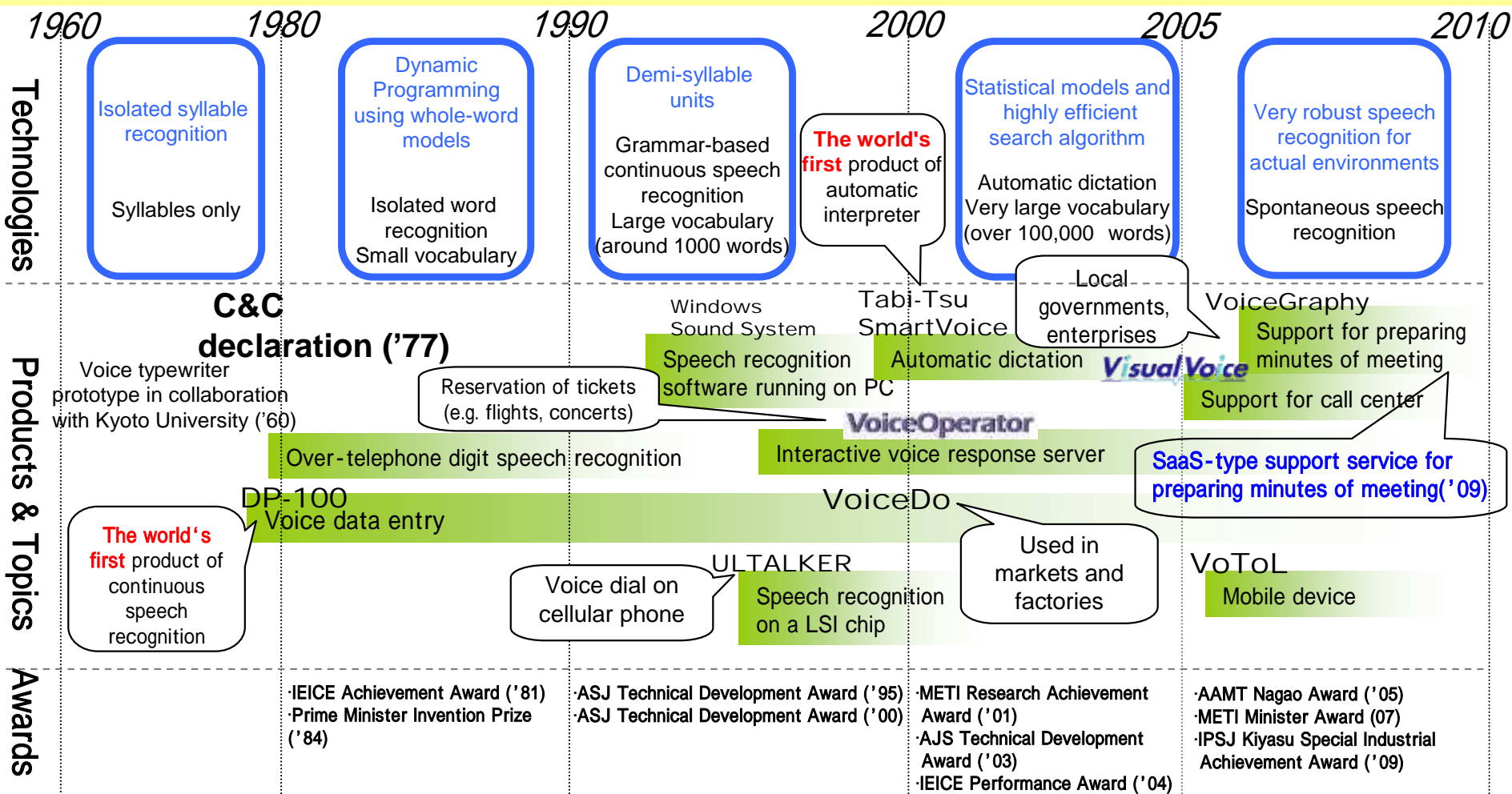


Spontaneous Speech Recognition for Human Communication Innovation

Our history

NEC has pursued research and development in the field of speech recognition technology since 1960, where it has continuously maintained world-class technological capabilities and commercialized products over half a century.



Speech Recognition Technology -- SaaS-type support service for preparing minutes of meeting

Service Features

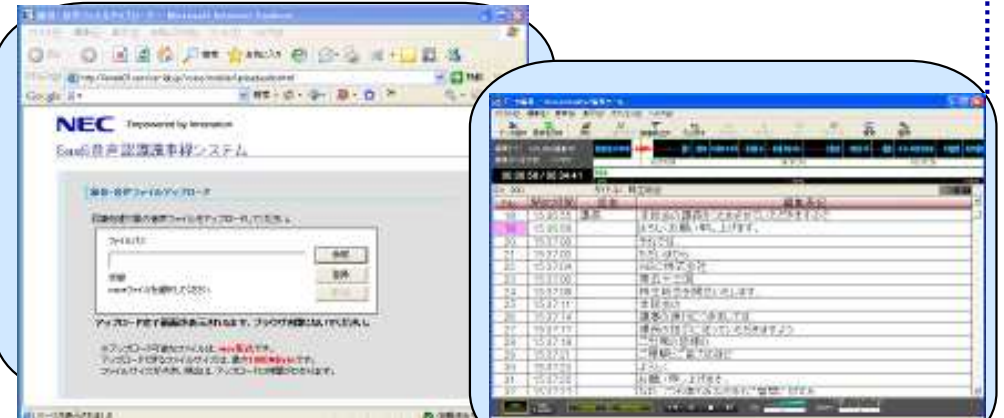
Support for preparing minutes of shareholder's meetings, earnings announcements, seminars, lectures, etc. Provide as SaaS-type service that enables users to introduce easily for speech recognition faculty

- ✓ 30,000 yen for one hour meeting

Technical features

- ✓ Speaker independent very large vocabulary continuous speech recognition (over 100,000 words)
- ✓ High recognition accuracy for multiple speaker utterances by automatic turn-taking detection (80% recognition accuracy in average)
- ✓ Robust against noises appeared in meetings (chair movements, coughing, etc.)

SaaS-type support service for preparing minutes of meeting



Speech recognition

Download recognition results

Prepare minutes with recognition result editor

Upload speech file



Record meeting speech with IC recorder



Publication

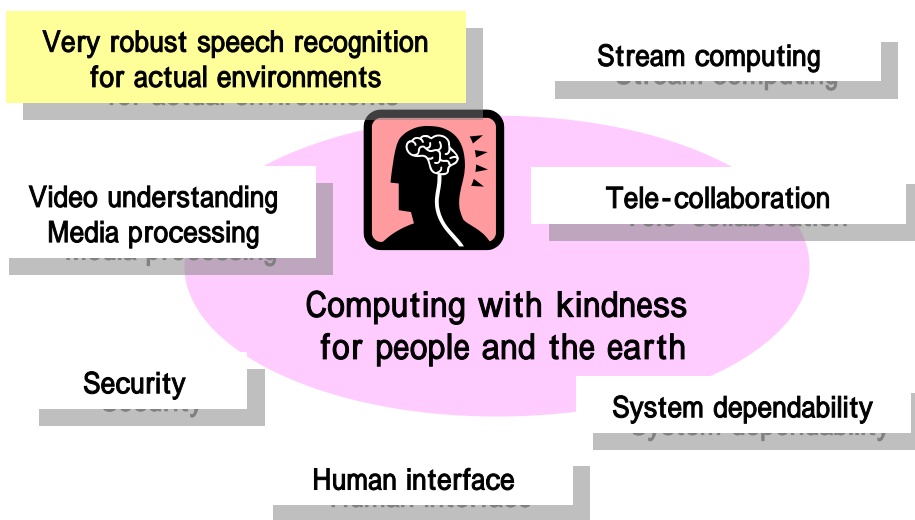
Speech Recognition Technology -- Innovation needed to "realize an information society friendly to humans and the earth"

Future research

Technical prospects

- Gather and value create from various types of information
 - Using multimedia information and data form various kinds of sensors
- Handle explosively increasing data
 - Gathering and analyzing for massive data with keeping reliability and dependability
- Eliminate the digital divide problems
 - Multi-functional information devices with advanced technologies

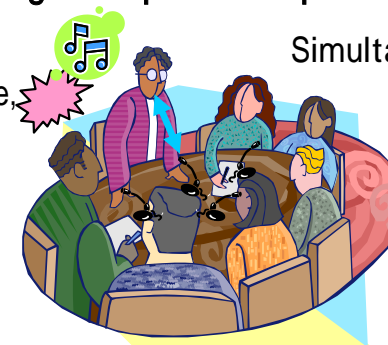
Technical innovations



Very robust speech recognition for actual environments

- Recognition of simultaneous speech by multiple speakers under various acoustic conditions
- Active microphone detection using the positional relationship among multiple microphones

Various types of noise, echo, etc.



Simultaneous speech

- Recognition of conversations including multiple topics
- Topic adaptation based on basis topic language models

