

Objective?

NII has established **Speech Resources Consortium (NII-SRC)** so as to promote dissemination and distribution of speech resources.

NII-SRC conducts **collection, distribution, investigation and research on speech resources** (including speech data and software tools) necessary for developing science, education and industry related to speech.

What are we doing?

We contribute to the development of various research including speech recognition and synthesis by collecting and distributing speech corpora or speech databases which are difficult to develop individually.

Another scientific contribution by supplying valuable material for phonetics and sociolinguistics by preserving dialects and minority languages.

1. What is "Speech Corpus/Corpora"



What is corpus/corpora?

A corpus means a systematic collection of data for research with some additional information to be used for research.

(Ex.) Speech corpus, text corpus, multimedia corpus, image corpus, etc.



Variety and use of speech corpora

[Use] Analysis, synthesis, recognition of speech; analysis of discourse and dialects; preservation of languages, etc.

[Variety] Isolated words, continuous speech, read speech, dialogues, dialects, multilingual speech; speech by non-native speakers, infants, aged people; speech in noisy or reverberant environments.



Recording media of speech corpora

The major recording media are used though it varies according to the use or data size. DVD-R is the most common currently. On-line distribution will be available soon.

[Recording media for speech corpora]

CD-R, DVD-R, HDD, DAT, LD, etc.



Contents of speech corpora



Analysis data

Video

Transcription data

2. What is SRC?



Why speech corpora, now?

- Development of speech processing technology
- Quantitative research in linguistics-related areas
- Importance of preserving languages and dialects

Massive speech data of various kinds necessary



Problems of speech corpora

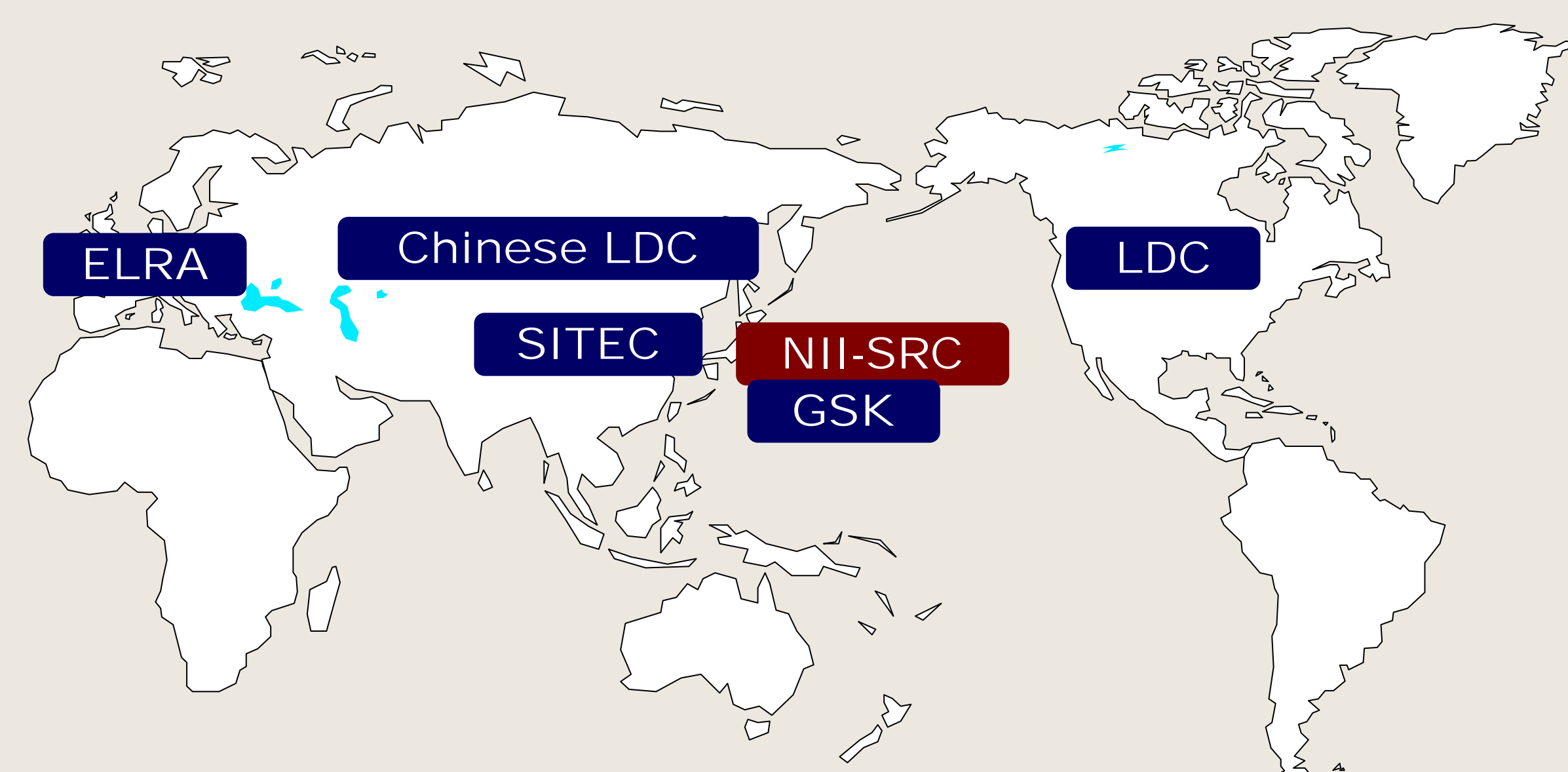
- Most corpora are developed for a project.
- It requires cost, time and labor to create.
- Expensive.
- Not open to the public.

A common framework is required for creation, collection, accumulation, distribution and sharing

Speech Resources Consortium (NII-SRC)

Launched by NII in 2006 in order to collect, manage, and distribute various speech corpora.

Currently, 31 corpora are available from NII-SRC.



Speech-related Organizations in the World.

3. Categorization of speech corpora

Corpus attributes (8 attributes and 58 items)

Attribute	Item
Input device	7 items Type of input device (ex. Desk-top microphone)
Input environment	5 items Recording environment (ex. Soundproof room)
Number of speakers	10 items Number of speakers
Speaking style	4 items Style of speech (ex. Continuous speech)
Speech mode	5 items Speech mode (ex. dialog, read speech)
Data mode	9 items Other information (ex. Sampling frequency)
Language	4 items Type of language (ex. Monolingual)
Purpose	14 items Keyword for use or development (ex. Recognition)

4. Corpus similarity visualization

