

Thomas Hanke, Susanne König, Reiner Konrad, Gabriele Langer, Christian Rathmann

Published sign collections

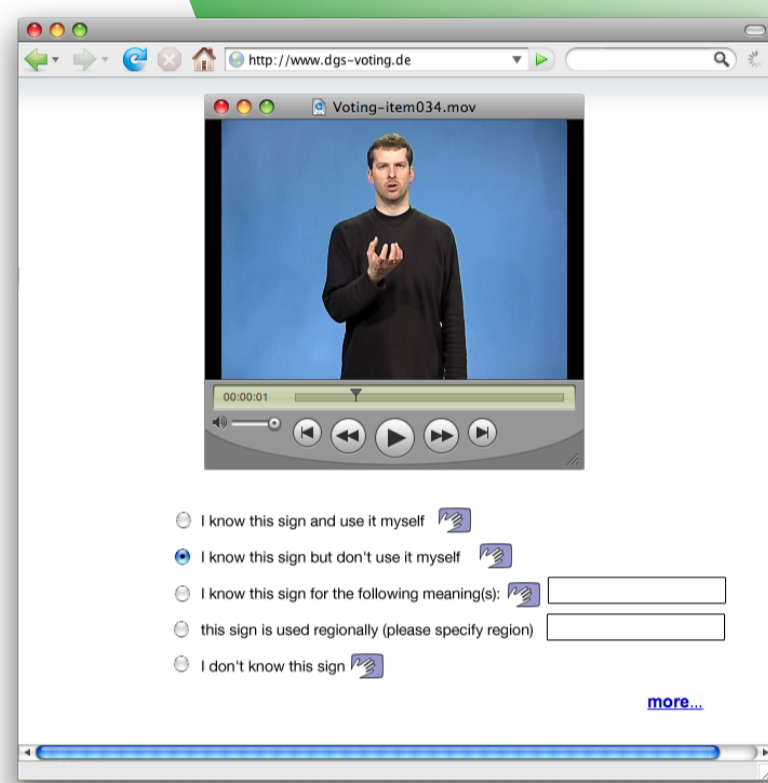
- no documented empirical basis
- valuable source for basic vocabulary
- a pool of signs to be evaluated by linguists and native signers
- compilation of a preliminary basic vocabulary for DGS to be published after 5 years
- ongoing validation by corpus data

DGS Corpus

- informants from all over Germany of different age, sex and social status; selected on grounds of language competence and regional rootedness
- approx. 350-400 hours
- 250-300 informants
- approx. 2.25 m. tokens
- comparable to large spoken language corpora in size & scope
- corpus should reflect a representative and well-balanced part of everyday communication
- design allows the use of the corpus for various tasks:
 - validation of the basic vocabulary,
 - thorough research on DGS grammar based on the transcriptions
 - identification of different meanings and collocations of a sign
 - the design anticipates a comparative sociolinguistic study comparable in kind and quality to Lucas et al. (2001) and Schembri/Johnston (2004).

Focus group

- direct representatives of the language community
- approx. 20 deaf experts from different regions
- trained and sensitized to linguistic questions
- consulted in cases of doubt concerning, e.g. the lexical status of a sign, citation form, language change, sign use and (regional) variation
- decisions concerning lemma selection or the well-formedness of grammatical constructions continuously validated by focus group
- filling gaps, avoiding additional surveys

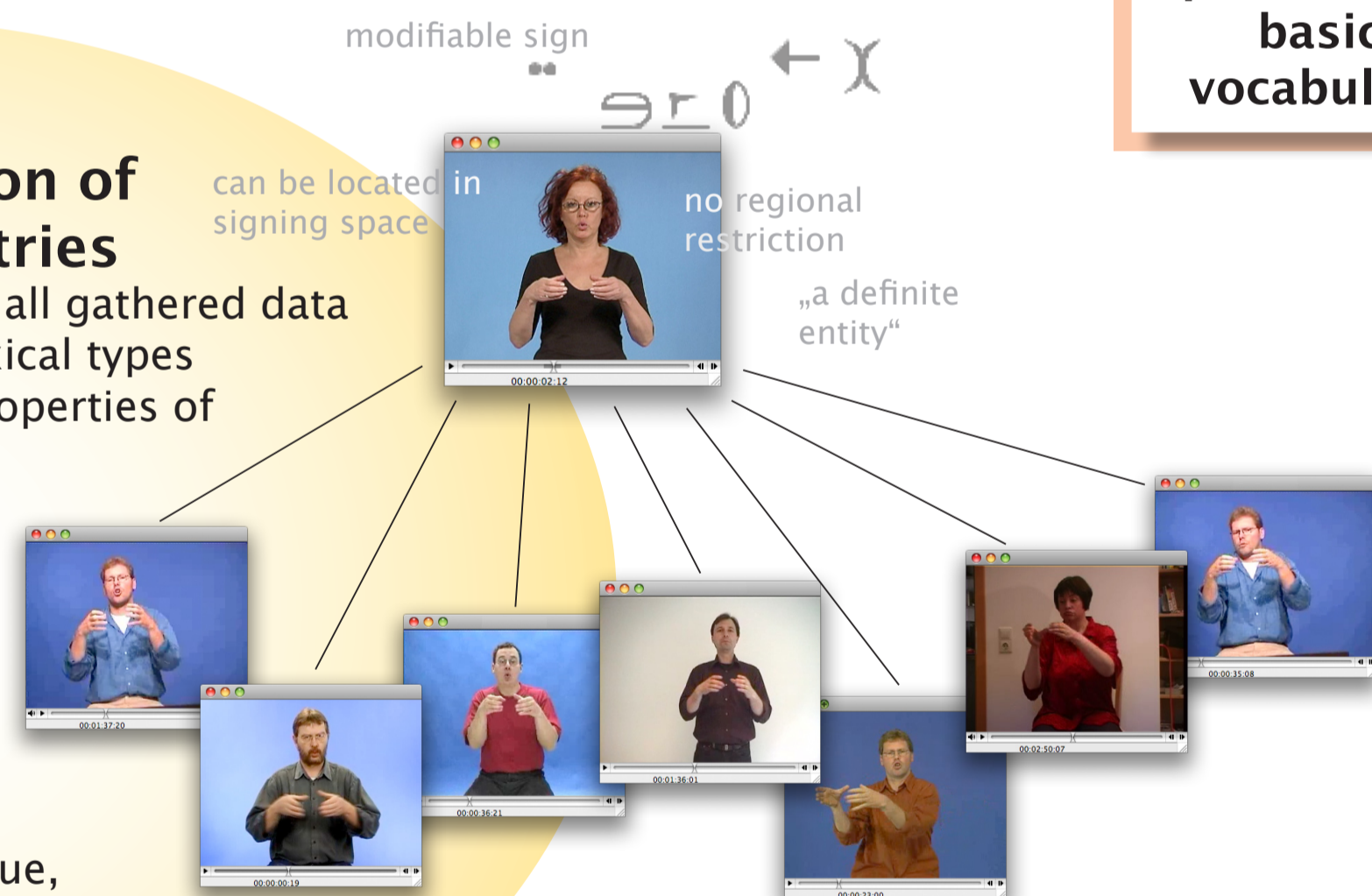


Feedback from the sign language community

- web-based feedback system
- all interested members of the language community are entitled to give feedback (after registration)
- verification of signs of previously published sources and basic sign vocabulary
- validation of dialectal variants
- discussion of probable variants, sign forms and sign meanings

Analysis and compilation of dictionary entries

- abstracting from occurrences and all gathered data on a sign to obtain a description of lexical types
- description of regular grammatical properties of classes of lexical items
- description of form, phonological variants, use of space, morphology, word class/syntactic functions, meaning(s), possible translations into German, iconic value & visualisation technique, dialectal information, cross references to related and similar signs, synonyms, antonyms, examples of use

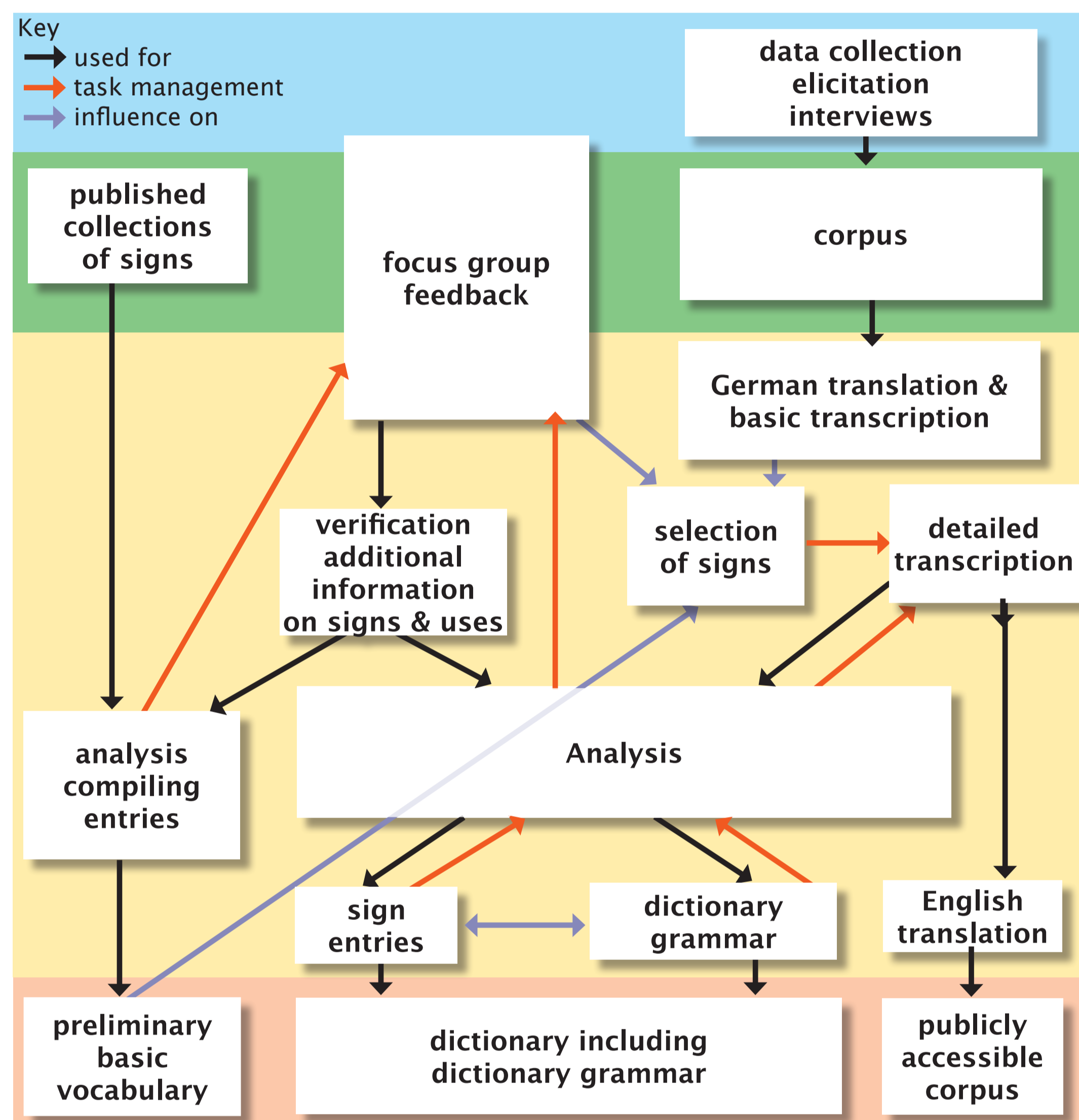


Preliminary basic vocabulary

- basic vocabulary of DGS and German
- not based on corpus data but on published sign collections
- signs verified by focus group and public voting
- to be replaced by the general, comprehensive dictionary after 10 years

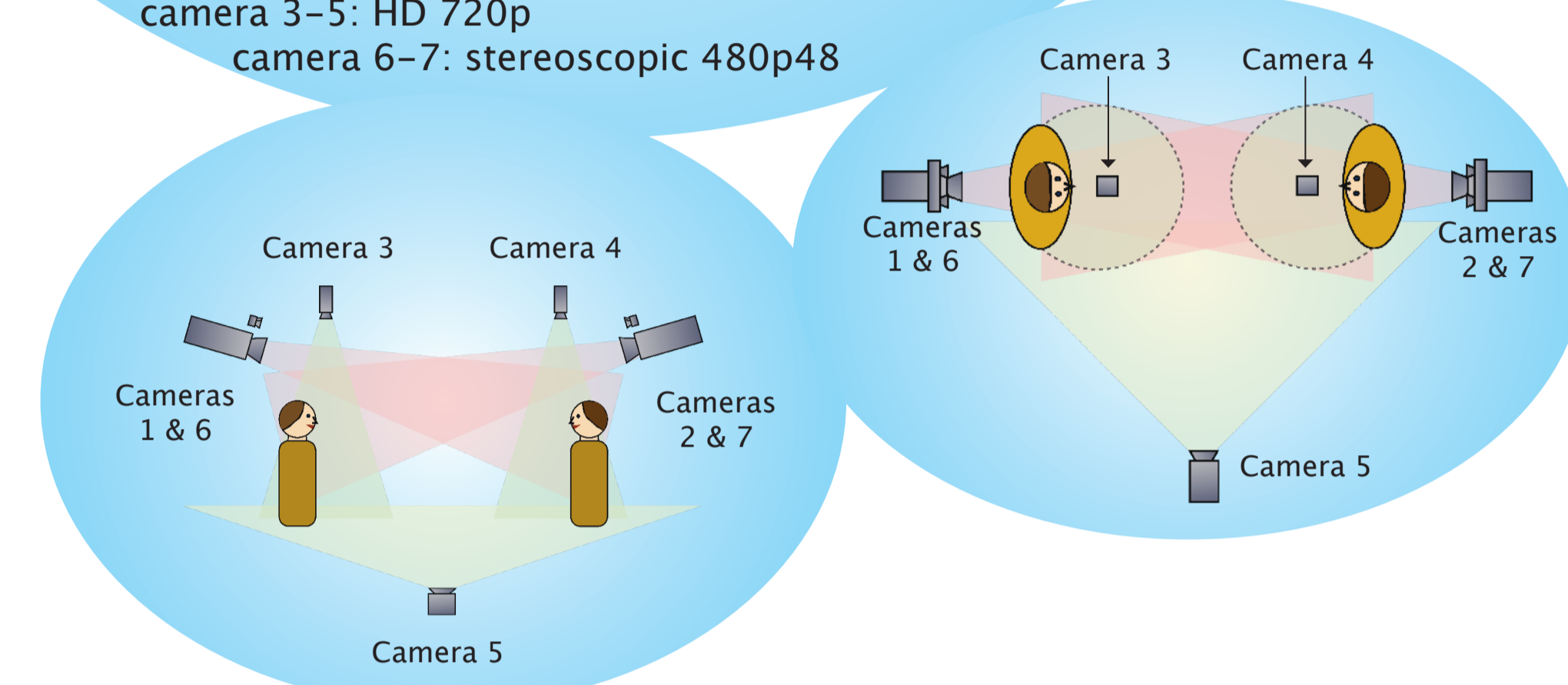
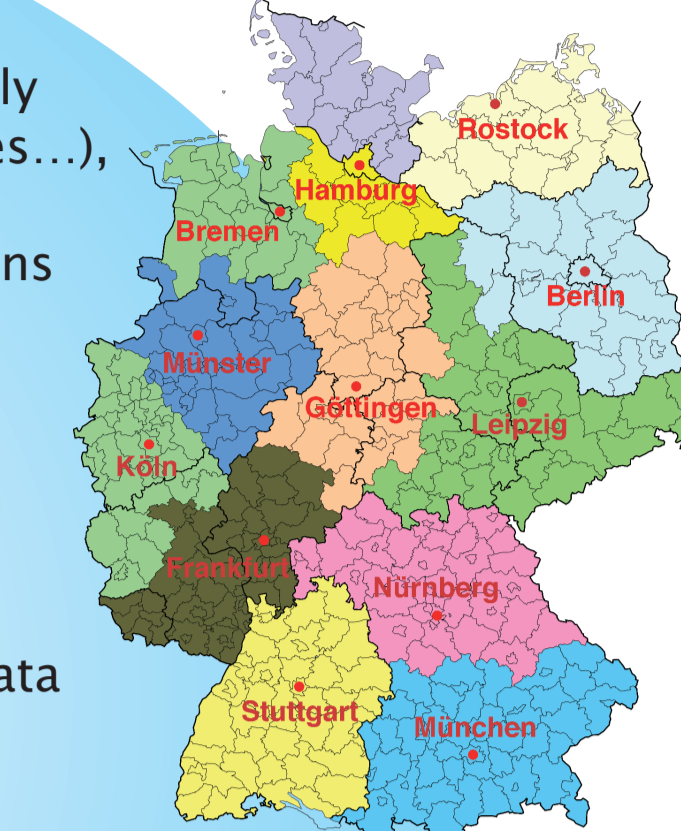
State of the art:

- no large corpus of DGS available
- no comprehensive dictionary of DGS on linguistic principles available
- many sign collections of DGS available; differing in size, standard and degree of documentation
- several smaller project-based corpora from technical sign dictionaries available
- complex lexical database system (iLex) available
- experience and know-how from more than 10 years of dictionary making in Hamburg
- several other national corpus projects under way or in preparation
- cooperations, transfer/exchange of know-how, workshops



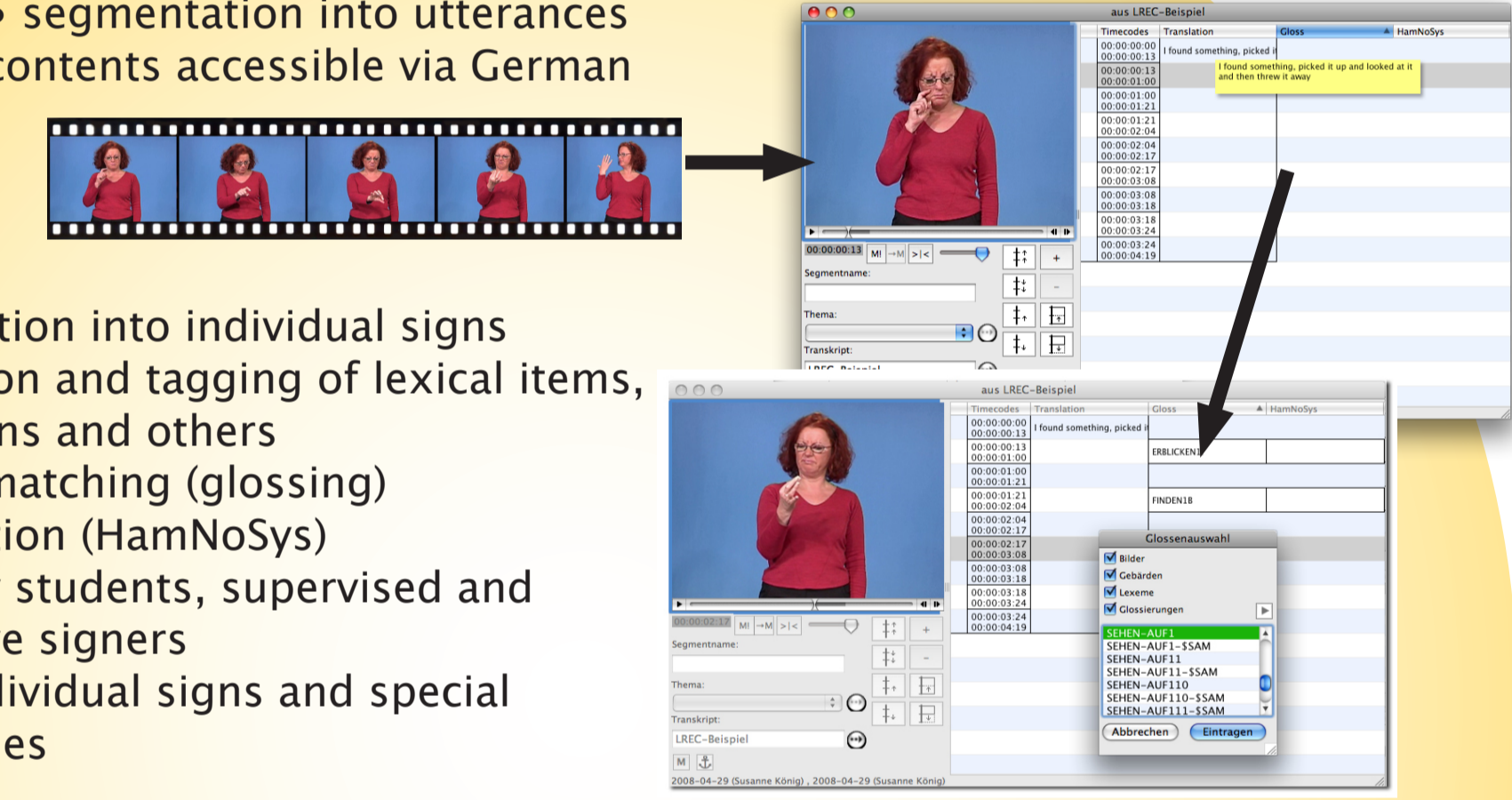
Data collection (Methods and Setting)

- 12 different locations (see map); areas of relatively high deaf population density (deaf schools, deaf centres...), which are easy to reach from surrounding rural areas
- mobile studio is successively set up in each of the locations
- each elicitation: pair of two informants
- peer-to-peer procedure
- interviews conducted by a local deaf contact person to secure an elicitation of regional sign variants with as little influence from the interviewer as possible
- each elicitation consists of
 - a standardized interview covering language and social data (approx. 20 min./informant); aim: description of data on metadata level → IMDI standard
 - filming of spontaneous conversations on a given topic (2-3 topics from a list, 60-90 min. for each pair of informants). → elicitation of as much basic vocabulary as possible; list of topics covers about 20 subject areas.
 - different tasks with selected stimuli (approx. 120 min. for each pair). Tasks aim at capturing special phonological, morphological, syntactic and lexical phenomena.
- setting: see illustrations



Basic transcription

- translation into German
- segmentation into utterances
- contents accessible via German



- segmentation into individual signs
- identification and tagging of lexical items, productive signs and others
- token-type matching (glossing)
- form description (HamNoSys)
- carried out by students, supervised and checked by native signers
- access via individual signs and special sign categories

Lemma selection and controlling of detailed transcription

- lemma selection on grounds of frequency of occurrence and distribution among signers, votes from focus group and public voting (see left side)
- approximately 6000 lemma entries expected
- review of all tokens of selected signs
- preliminary assessment of sign kind (invariant or modifiable sign)
- selection of signs in context: differentiation of separate meanings (senses) of a sign, instances of grammatical uses of a sign, different sign forms
- selection of suitable utterances as sample sentences for the dictionary
- preparation of information for focus group and feedback
- selection of passages for detailed transcription

Detailed transcription

- approx. 50% of the basic transcriptions
- differentiation of phonological variants, grammatical sign forms (e.g. plural, negation), modifications
- coding of mouthing & mouth gesture, (lexical) facial expression, notation and classification of token form, contextual meaning, syntactic category, aspects of spatial use...
- tagging of phrases and sign strings (within utterances)
- coding and annotation of productive sign forms
- more detail: transcription of surrounding context of a sign

Annotated public corpus

- representative parts of the corpus (approx. 50 hours)
- English translation of content, glosses and metadata
- suitable exchange formats provided (e.g. ELAN, IMDI)
- accessible online

Comprehensive, corpus based, electronic dictionary DGS-German

- contains approx. 6000 sign entries
- all contained information is corpus based
- entries contain descriptive information on signs
- entries include example sentences taken from the corpus
- dictionary focus on DGS part
- German part provides access to DGS for hearing users; deaf users get basic information about German words
- combination of different types of dictionary functions
- primarily serves the following target groups:
 - DGS learners, e.g. hearing parents of deaf children, students of Deaf Studies/sign language interpreting
 - professional sign language interpreters for DGS - German,
 - native signers of DGS: deaf adults, CODAs,
 - deaf children or pupils, acquiring DGS as native language,
 - sign language teachers, linguists and others concerned with sign language structure

Dictionary grammar

- based on the corpus and information from the focus group
- general overview of the most important grammatical features of DGS, supplemented by examples taken from the corpus
- written in easily understandable terms
- sign entries become shorter, more compact and therefore more clearly

Publication of the first comprehensive, corpus based, electronic dictionary DGS-German

2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
data collection				basic transcription		lemma selection, analysis & compilation of dictionary entries				detailed transcription				production
				feedback & consultation of focus group										