

# DISCO

## Development and Integration of Speech technology into Courseware for language learning

Radboud Universiteit Nijmegen



# DISCO partners

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# Aim of DISCO

To develop and test a prototype of an ASR-based CALL application for training oral proficiency for Dutch as a second language, which provides intelligent feedback on various aspects of speaking, such as pronunciation, morphology and syntax.

# Rationale

- one-on-one interactive learning, corrective feedback
- time-consuming and costly
- particularly applies to oral proficiency
- ASR-based Computer Assisted Language Learning (CALL) → solution

# Main challenge

To develop exercises that are

- suitable for training pronunciation, morphology and syntax

and that

- elicit spoken responses which can be assessed automatically.

# Acknowledgments

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Work-package	Principal party	Other parties involved	Deliverables
A.Courseware application			
A1. Design	UA	CLST	Design
A2. Development & Integration	PDL		Development & application integration
B. Exercises			Database with exercises
B1. Content	UA	CLST, UTN	Content of the exercises
B2. Responses	PDL		List of correct and incorrect responses
B3. Feedback	UA	CLST, UTN	Specification of feedback for the responses
C. Speech technology			
C1.Speech recognition	CLST		Speech recognition module
C2. Error detection	CLST		Error detection module
D. Evaluation	UA, UTN	CLST	Evaluation reports
E. Dissemination of results	CLST	UA, UTN, PDL	Website, reports, papers & presentations
F.Project management	CLST		Progress reports, final report