



Language Technologies for Lifelong Learning

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Problem Statement & Approach

The availability of support is crucial for effective task performance. Current e-learning and personal development environments provide too little effective support to the users in their various tasks.

LTfLL fully concentrates on offering the learners a set of next-generation support services that enhance individual and collaborative building of competences and knowledge creation.

The services will run (semi) automatically and thus require no or only limited tutor-based support and will make extensive use of *language technologies*.

Research lines

1. Relating the learners and their domain

Services are developed to establish *the current position of the learner* in a domain. Services will offer semi-automatic analysis and comparison of:

- (a) learner portfolios to the domain knowledge and
- (b) continuous modelling and measurement of conceptual development.

2. Contemporary pedagogical models, tutoring and tutor support

Support and feedback services are developed based on analysis of the

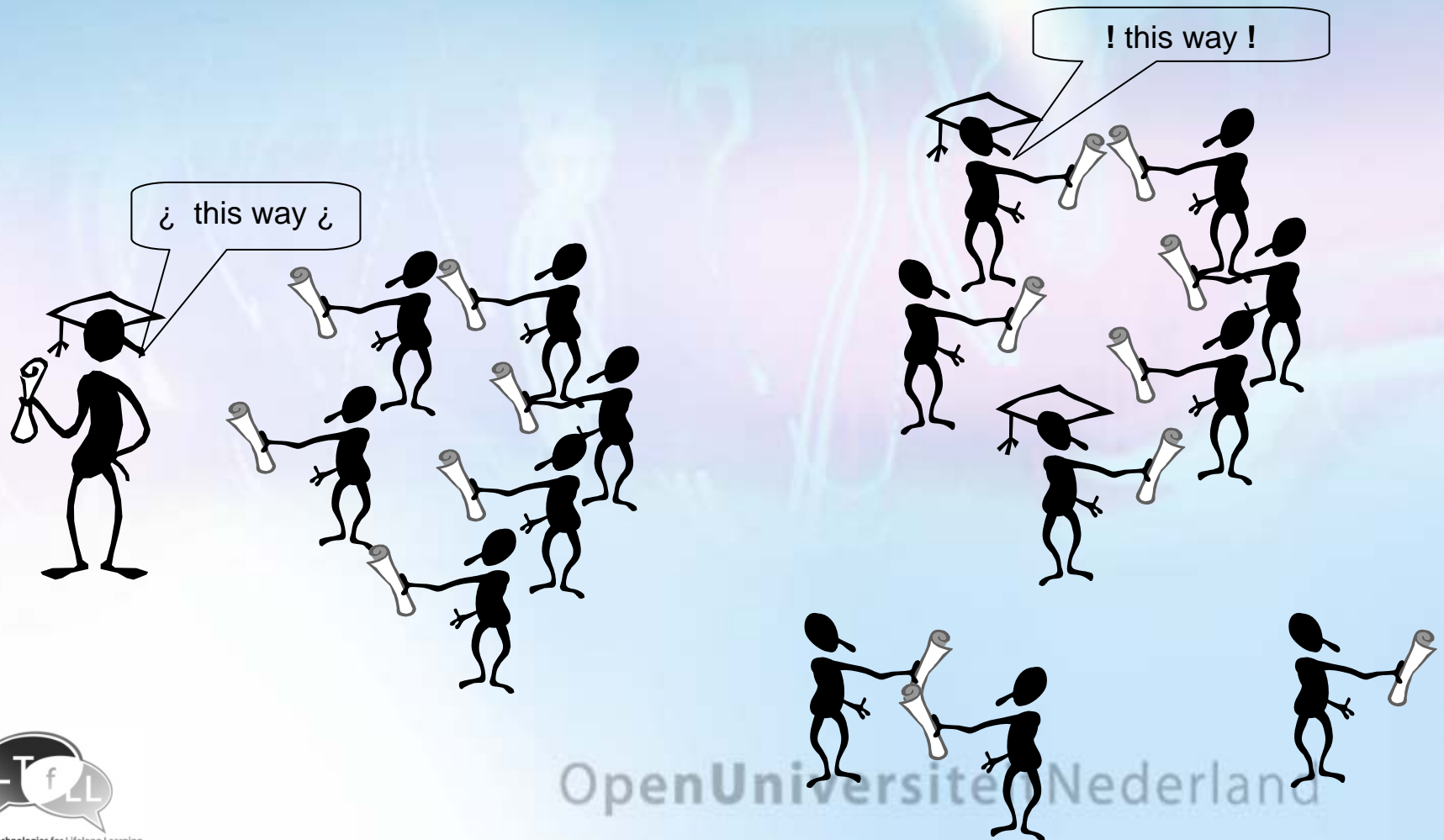
- (a) interactions of students - using Natural Language Processing (NLP) and Social Network Analysis (SNA) and
- (b) textual output of students - using Latent Semantic Analysis with contributions from NLP.

3. Collaborative and social dimensions in learning and knowledge structuring

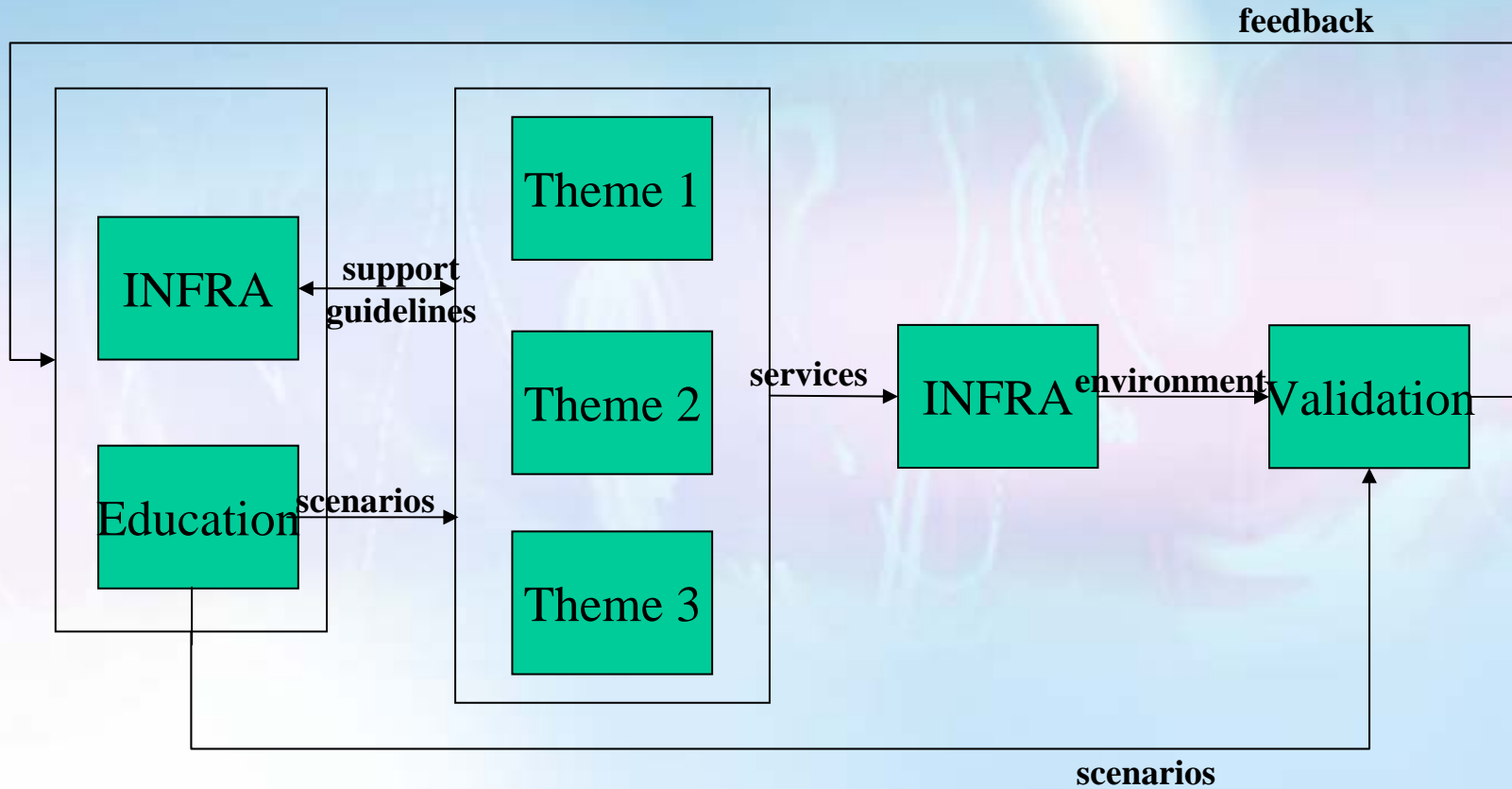
A knowledge sharing infrastructure is construed that allows comparison and sharing of private knowledge to give rise to new common knowledge and social learning. Ontologies for formal domain representation are combined with social tagging.



Next Generation Support Services



Project structure



For questions:

Open Universiteit Nederland (coordinator)

Universiteit Utrecht

Eberhard Karls Universität Tübingen

Wirtschaftsuniversität Wien

Université Pierre-Mendès France

Politehnica University of Bucharest - National Center for information technology

Aurus Kennis- en Trainingssystemen BV

The University of Manchester

Institute for parallel processing of the Bulgarian Academy of Sciences

BIT MEDIA E-learning solution GMBH and CO KG