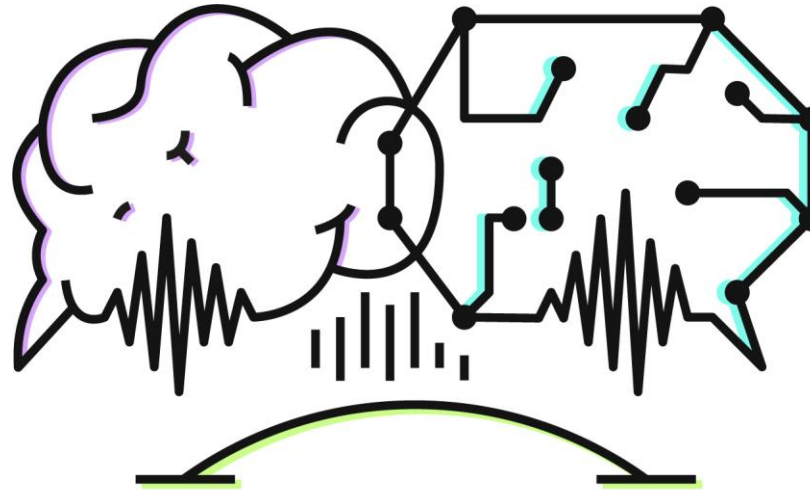


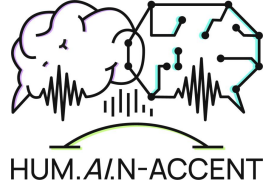


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HUM.AI.N-ACCENT

Bridging Communication Gaps in Human and Human-AI Interactions:
The Role of Accented Speech on Neurocognitive Mechanisms and Social Dynamics.



Doctoral Network: 39 members

Beneficiaries (12 + Switzerland) + 13 DCs



SPAIN

- Nebrija University (Coordinator)
- Basque Center on Cognition, Brain and Language
- University of Barcelona
- Open University of Catalonia



BELGIUM

- Free University of Brussels



FRANCE

- University of Lille



IRELAND

- University College Dublin



ITALY

- University of Padova



NETHERLANDS

- Radboud University



NORWAY

- University of Oslo



UNITED KINGDOM

- Bangor University

Academic Associated Partners



CANADA

- McGill University



NETHERLANDS

- TU Delft



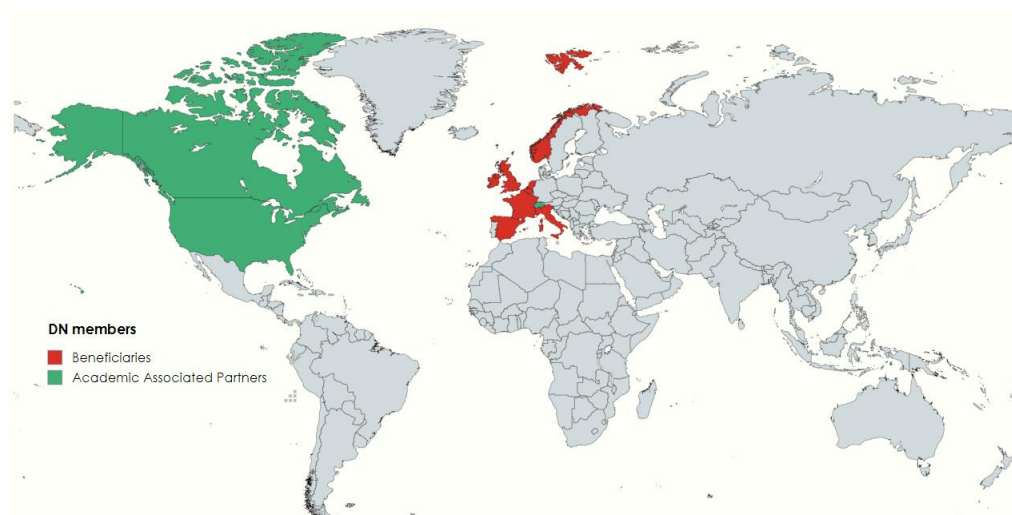
SWITZERLAND

- University of Bern



UNITED STATES

- Penn State University



DN members
■ Beneficiaries
■ Academic Associated Partners

Non-Academic Associated Partners



Project Manager

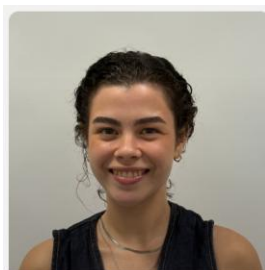


- Nebrija University



Yixuan Zhu

Basque Center on Cognition, Brain and Language (BCBL)



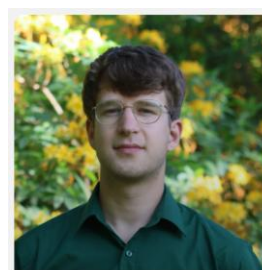
Gulsu Tecer

University of Barcelona (UB)



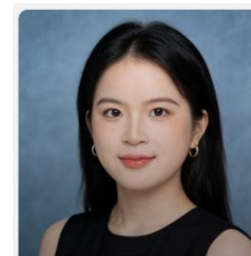
Marica Belmonte

Open University of Catalonia (UOC)



Lukas Hageman

University College Dublin (NUID UCD)



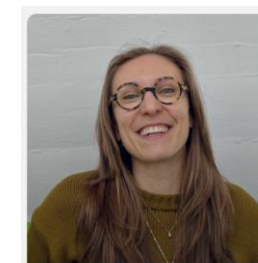
Hui Chen

Bangor University



Raphaël Trouille

Free University of Brussels (ULB)



Laura Marchesini

University of Lille (ULille)



Lea Gorisek

University of Padova (UNPD)



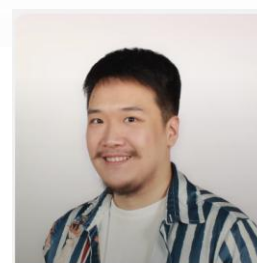
Niranjana Hegde

Norrija University (UNNE)



Alicja Kietpińska

University of Oslo (UiO)



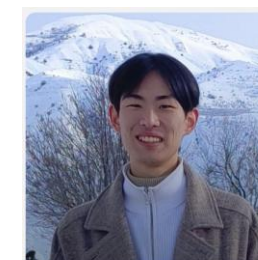
Haotong Zhao

University of Bern (UBERN)



Mohammad Keshiktar

University of Padova (UNPD)



Xingfeng Yang

Radoud University

Academic partners:

- Scientific expertise across disciplines
- International research networks
- Research methodologies
- Research supervision & doctoral training
- Access to participants
- Dissemination to scientific community



HUM.A/I.N-ACCENT

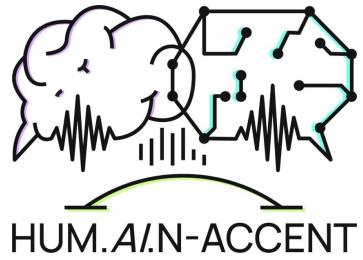
Non-Academic partners:

- Applied and societal perspectives
- Innovation & technology transfer
- Industry-relevant skills and practices
- Exposure to non-academic career paths
- Access to real-world users
- Broader dissemination and societal impact

International collaboration
Interdisciplinary science
A long-term research community
Societal impact
Innovation

Doctoral Candidates (DCs):

- New ideas and fresh perspectives
- Interdisciplinary thinking and creativity
- Energy and curiosity
- The future generation of researchers and innovators



Scientific objectives

WP5: Training
WP6: Dissemination
WP7: Management

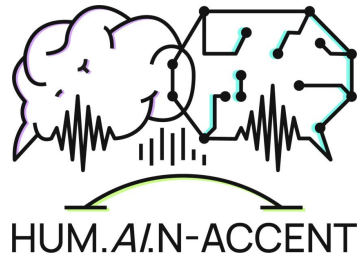
WP1: FA processing: neural dynamics, individual factors and impact on cognition across lifespan.

WP3: Ease in H-H multilingual communication: Phonetic training and foreign-accent adaptation

To explore how foreign-accented speech influences human-human and human-AI interactions and human behaviour

WP2: FA in Human-Human (H-H) and Human-AI (H-AI) communication

WP4: Foreign accent: social interaction and human behaviour



WP1: FA processing: neural dynamics, individual factors and impact on cognition across lifespan.

- **Project 1 (Niranjana Hegde & Alice Foucart – Nebrija U., Spain):**
Processing foreign-accented speech: social and cognitive impact

Project 2 (Mohammad Keshkar & Francesca Peressotti – Padova U., Italy):
The impact of speaker's accent on language prediction

Project 3 (Alicja Kielpińska & Natalia Kartushina, Oslo U., Norway):
Growing-up with accents: Role of accent exposure on language development.

Project 4 (Marica Belmonte & Marco Calabria - U. Oberta Catalunya, Spain):
Comprehension of foreign-accented speech in older adults: cognitive and linguistic functions



Niranjana Hegde
Nebrija University (UNNE)



Alice
Foucart



Mohammad Keshkar
University of Padova (UNIPD)



Francesca
Peressotti



Alicja Kielpińska
University of Oslo (UiO)



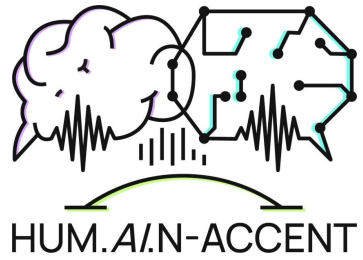
Natalia
Kartushina



Marica Belmonte
Open University of Catalonia (UOC)

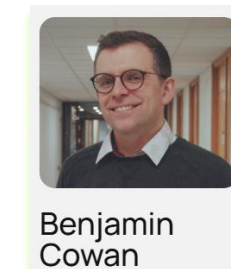
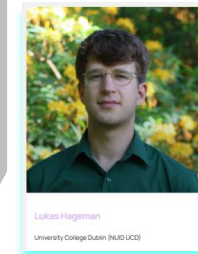
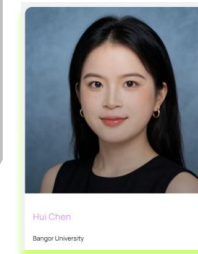
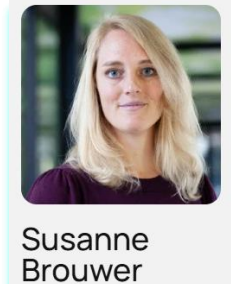
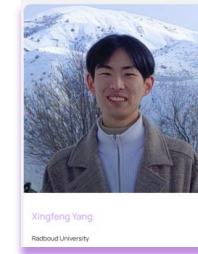


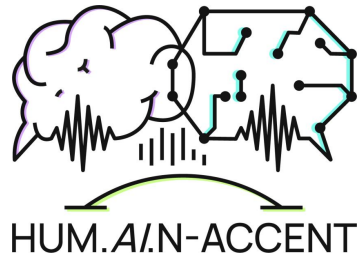
Marco
Calabria



WP2: FA in Human-Human (H-H) and Human-AI (H-AI) communication

- **Project 5 (Xingfeng Yang & Susanne Brouwer – Radboud U., NL):**
Understanding Speech Processing in Multilingual Contexts: Insights from Virtual Reality and Eye-Tracking
- **Project 6 (Hui Chen & Guillaume Thierry, Bangor U., UK):**
Neural mechanisms underlying accent processing in naturalistic conversations: Insights from brain oscillations and fNIRS
- **Project 7 (Lukas Hageman & Ben Cowans, U. College Dublin, Ireland):**
Using foreign accented synthesised speech in human-conversational AI dialogue





WP3: Ease in H-H multilingual communication: Phonetic training and foreign-accent adaptation

- **Project 8 (Yixuan Zhu & Clara Martin – BCBL, Spain):**
Individual variability in foreign accentedness: Origins and improvement
- **Project 9 (Raphaël Trouille & Mathieu Bourguignon, Free University of Brussels, Belgium):**
Neuronal tracking of accented speech adaptation during speech comprehension
- **Project 10 (Laura Marchesini & Angèle Brunellière – U. Lille, France):**
Adapting linguistic representations in multilingual communication: the impact of collaborative dialogic settings



Yixuan Zhu
Basque Center on Cognition, Brain and Language (BCBL)



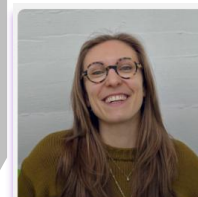
Clara
Martin



Raphaël Trouille
Free University of Brussels (ULB)



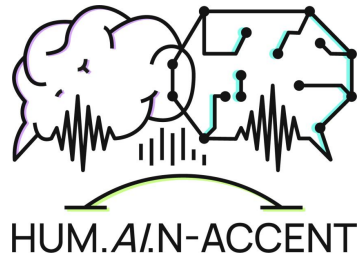
Mathieu
Bourguignon



Laura Marchesini
University of Lille (U.Lille)

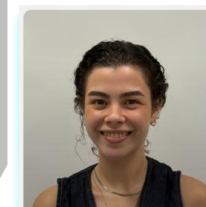


Angèle
Brunellière

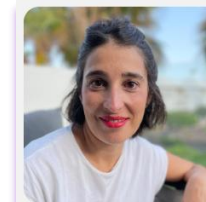


WP4: Foreign accent: social interaction and human behaviour

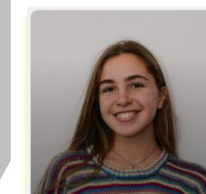
- **Project 11 (Gulsu Tecer & Cristina Baus, U. Barcelona, Spain):**
The social side of foreign-accented speech
- **Project 12 (Lea Gorisek & Eduardo Navarrete - Padova U., Italy):**
Impact of foreign-accented speech on thinking, judgment and decision-making
- **Project 13 (Haotong Zhao & Erez Levon – U. Bern, Switzerland):**
Social consequences of accents: Inferred credibility in the courtroom



Gulsu Tecer
University of Barcelona (UB)



Cristina
Baus



Lea Gorisek
University of Padova (UNIPD)



Eduardo
Navarrete



Haotong Zhao
University of Bern (UBER)



Erez
Levon

DN key aspects: Mobility and Training

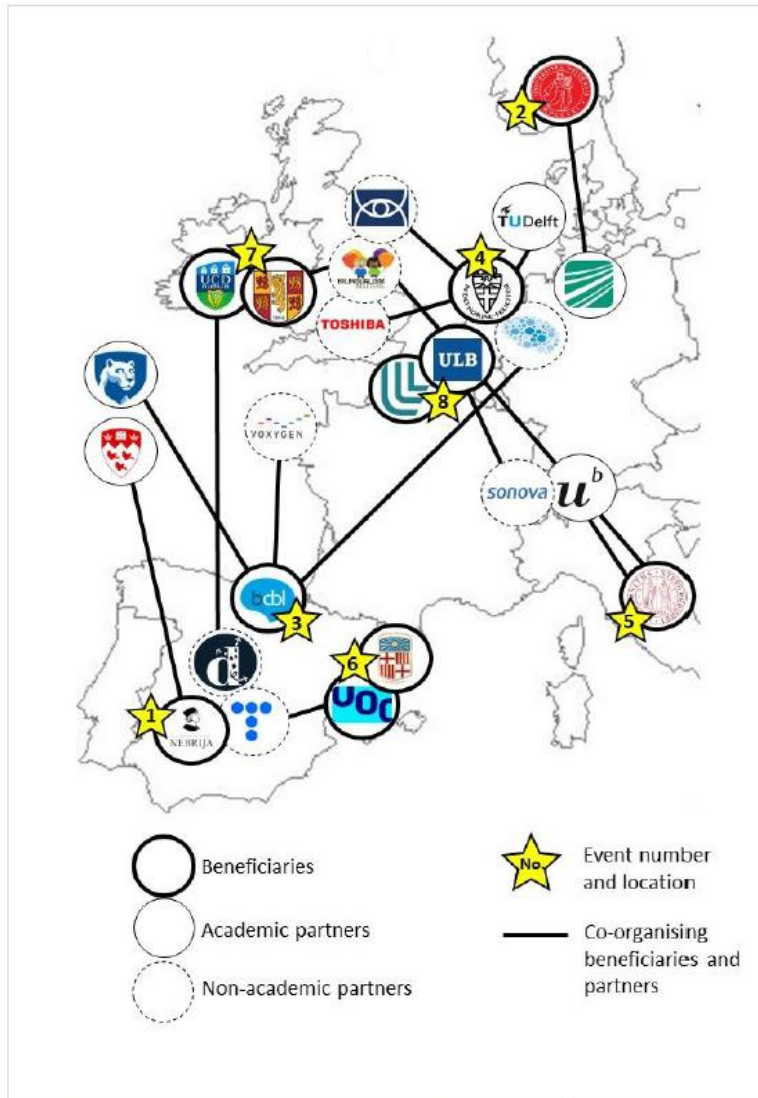
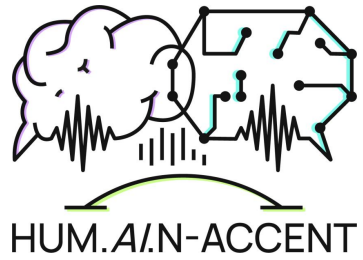


Figure 1c. Representation of the events location and co-organising beneficiaries and partners

- **2025**
 - Recruitment event (Madrid, Spain – Dec.)
- **2026**
 - Intensive starter workshop (Barcelona, Spain - May)
 - Autumn school (San Sebastian, Spain – Oct.)
- **2027**
 - International Symposium of Psycholinguistics (Padova, Italy - May)
 - Summer school (Nijmegen, The Netherlands – Sept.)
- **2028**
 - Winter school (Bern, Switzerland – Jan.)
 - Spring school (Oslo, Norway – June)
 - Summer school (Bangor, UK/Dublin, Ireland – Sept.)
- **2029**
 - Final meeting (Lille, France/Brussels, Belgique - May)



DN key aspects: Mobility and Training

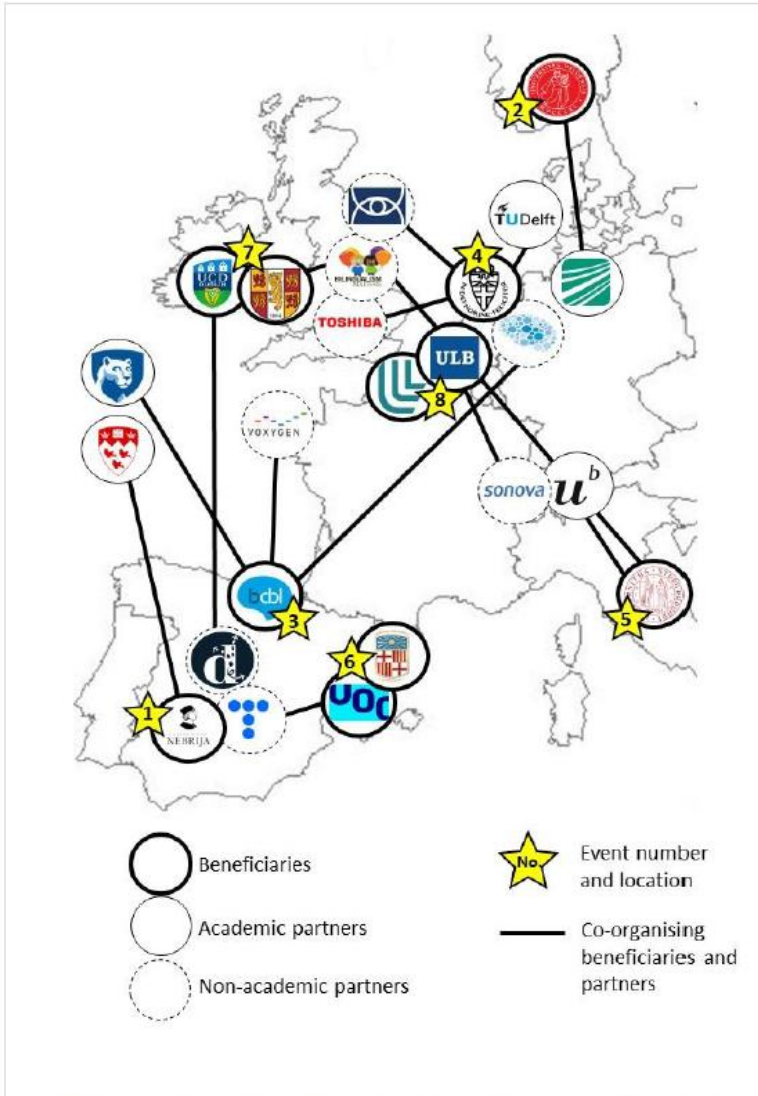
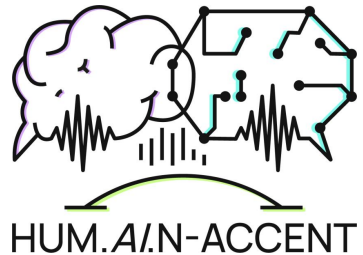


Figure 1c. Representation of the events location and co-organising beneficiaries and partners

- **International training:** estancias en universidades y empresas para adquirir 'transferable skills' para carreras académicas y no-académicas
- **Multidisciplinary training** (formación específica al proyecto con charlas con expertos, talleres, ej. redacción de artículos)
- **Experimental methodology training** (metodología experimental, estadística)
- **Digital skills training** (*programming, AI*)
- **Open Science training**
- **Science with and for society (SwafS)** ('Tu tesis en 3 min', 'Pint of Science')
- **Well-being training**
- **Green science training**
- **Gender and diversity training**
- **Teaching and Mentorship**



DN key aspects: Mobility and Training

Two research stays
of 3 months.

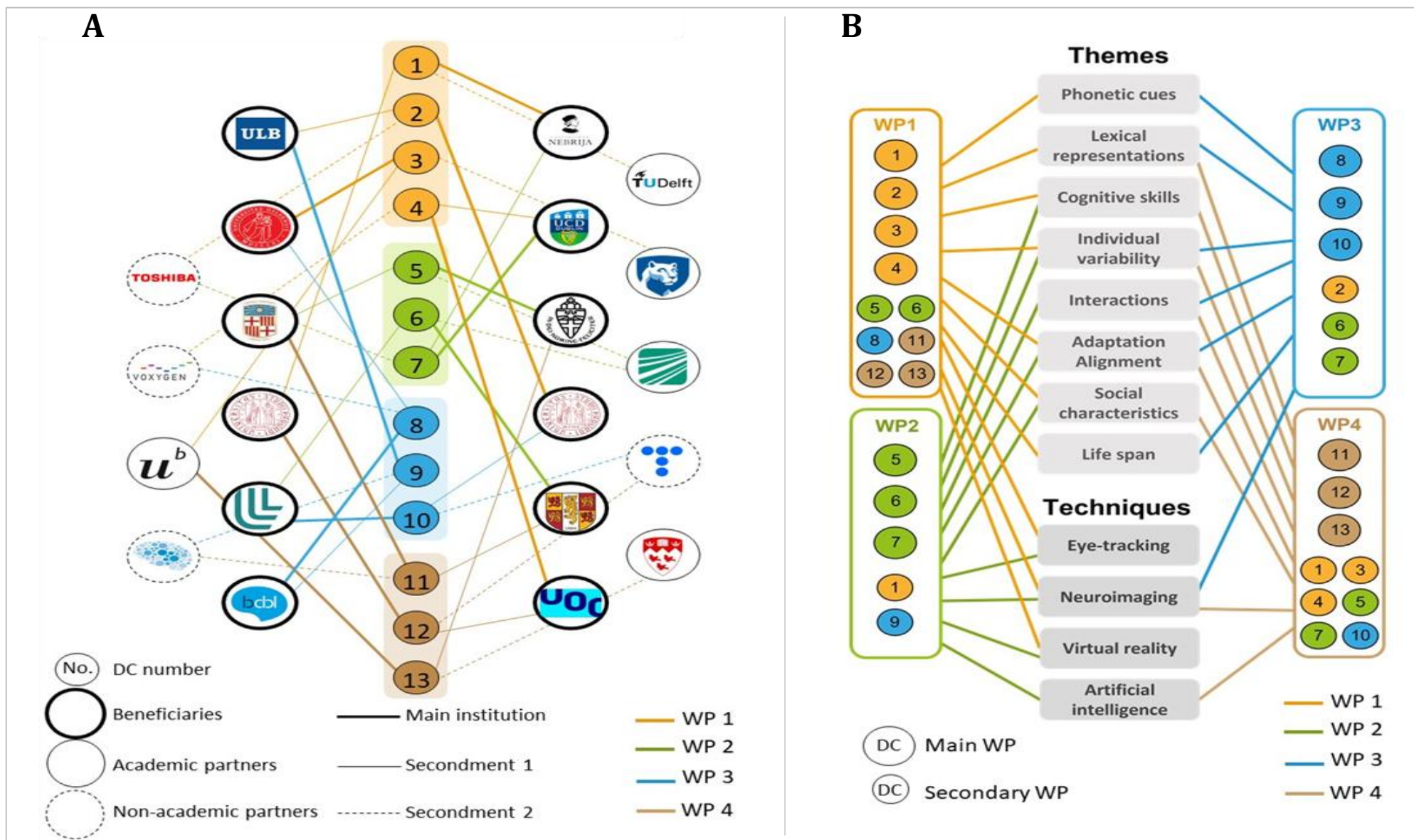


Figure 1a. Representation of the HUM.AI.N-ACCENT network: Panel A depicts the mobility of DCs and the links with their host and secondment organisations. Panel B represents DCs participation in WPs as well the themes and techniques part of the training programme.



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<https://humain-accent.eu/#>

QUESTIONS?

