



# Stimulations and drawbacks in the cooperation between SSH and STEM scientists

**Aliyah Morgenstern**

Professor of Linguistics



# Sorbonne Nouvelle University: Humanities: 3 departments

**Arts and media**

**Literature, Linguistics, Didactics**

**Foreign Languages, Literatures,  
Cultures and Societies**

Language

Speech  
Gesture  
Sign



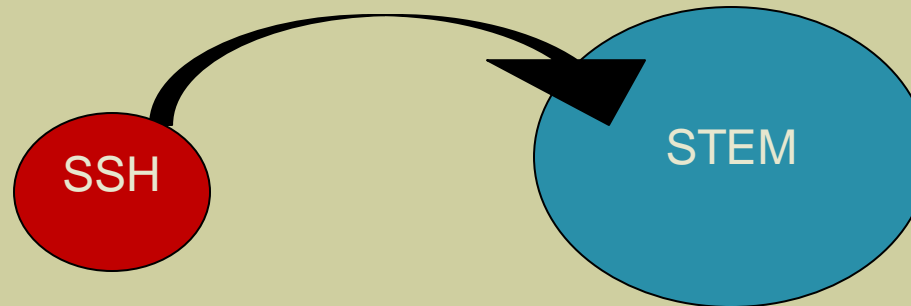
English Studies



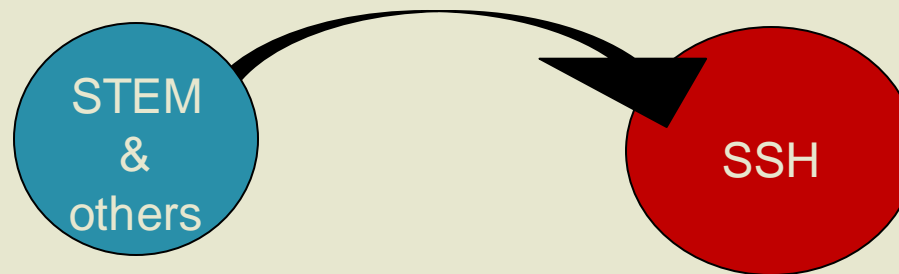
# Turning the aim of the workshop upside down

“the workshop addresses existing barriers to achieving high-quality **integration of SSH in STEM-led projects** under the EU funding instruments”

1



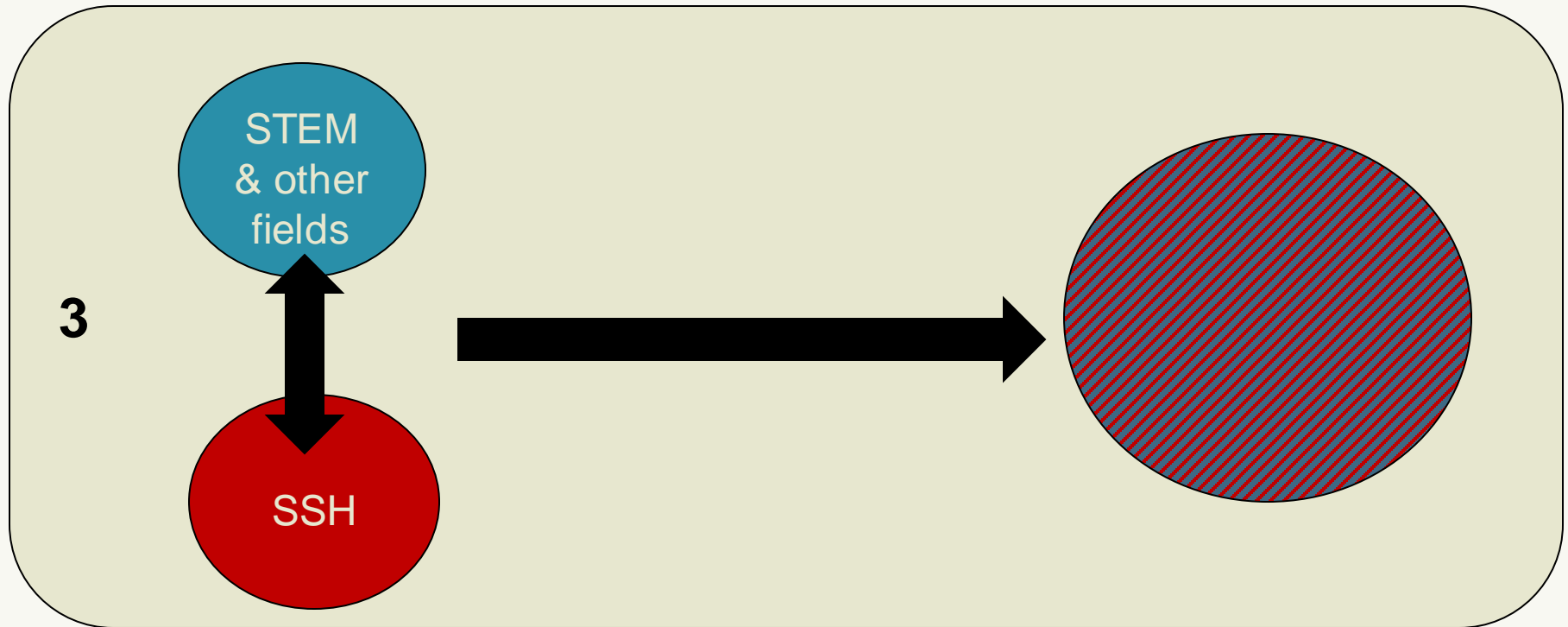
2



**Integration of other scientific fields  
in SSH research and issues**



# Desired process ?





# Inter and transdisciplinarity

PSYCHOLOGY

PSYCHOANALYSIS

SPEECH  
THERAPY

COMPUTER  
SCIENCE

STATISTICS

LINGUISTICS

Phonology  
Morphology  
Syntax  
Pragmatics  
Semantics  
Gesture...



PEDIATRICS

NEUROLOGY

ANTHROPOLOGY

ETHNOGRAPHY

SOCIOLOGY

ETHOLOGY

LITERATURE

MUSIC

CINEMA



# Inter and transdisciplinarity

## Topic 1: Family dinners





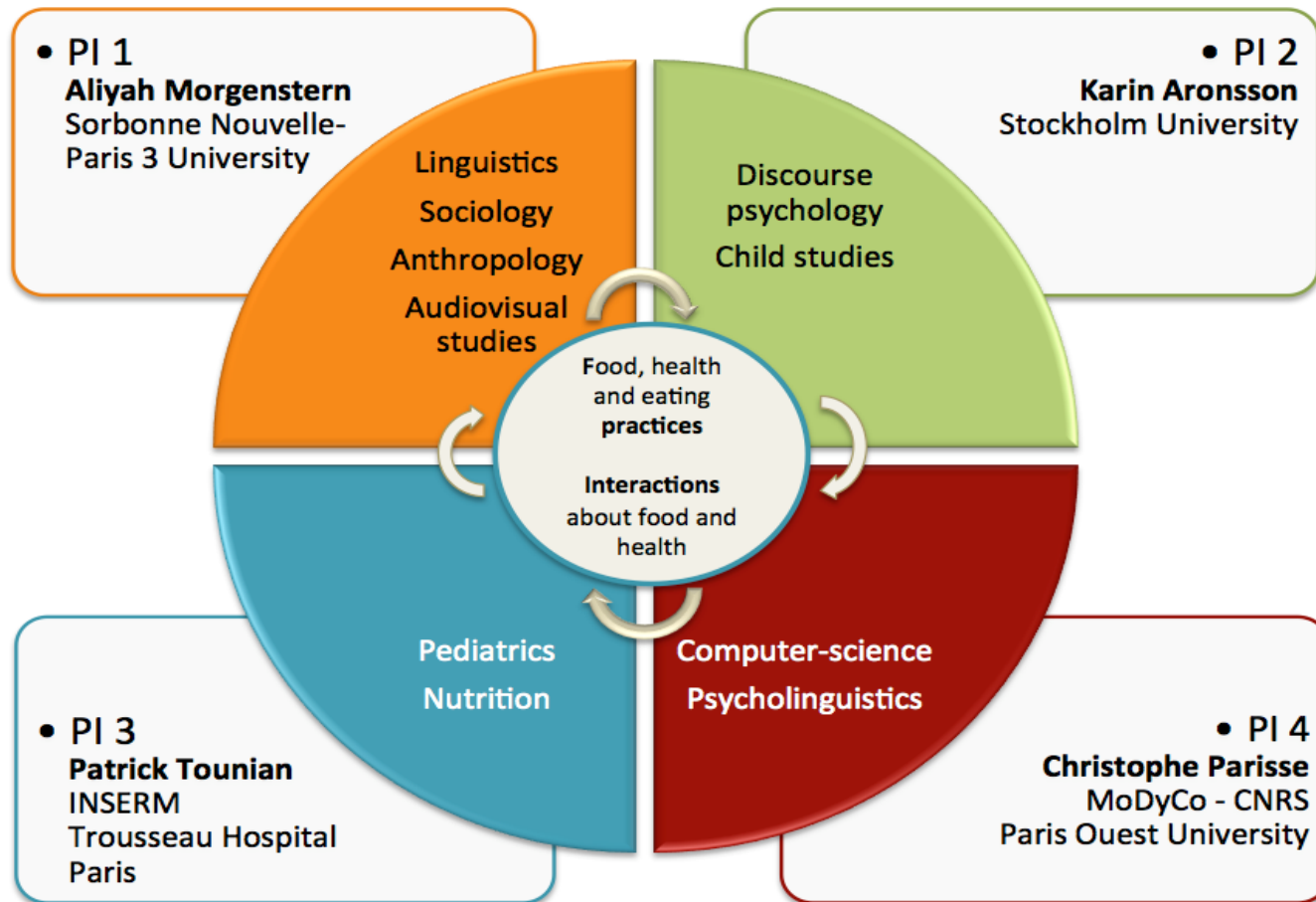
# Interdisciplinarity Attempt 1

- Observation of Family life
- Health issues in the dining process
- Giving societal impact to our research
- Feeling useful for other scientific fields



# Synergy grant: LANGFOOD Project

## THE **LangFood** SYNERGY GROUP

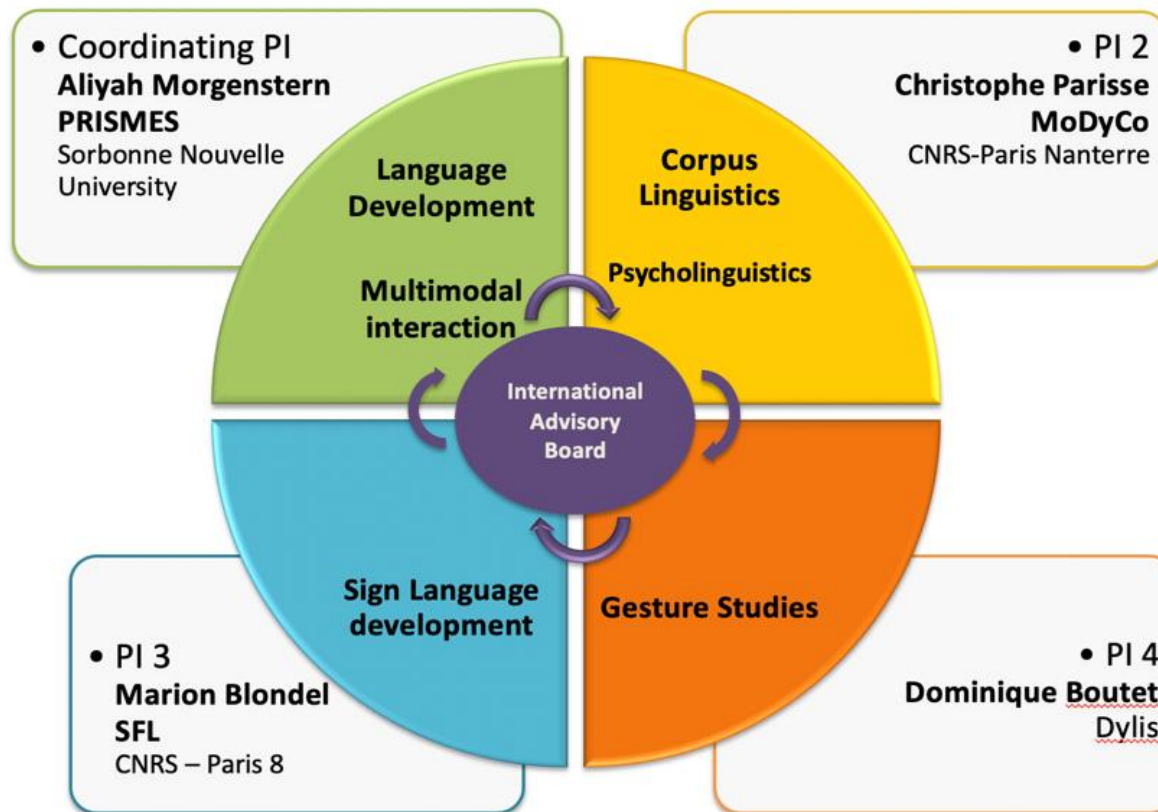






# DINLANG Project (ANR funding)

## THE **DINLANG** CONSORTIUM





# Inter and transdisciplinarity

## Topic 2: A multimodal approach to language development



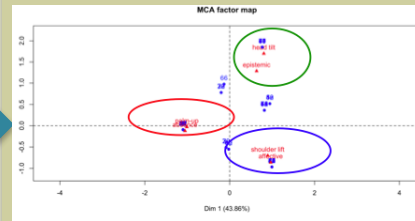
# Multimodal approach to language development



**Favorable environment**

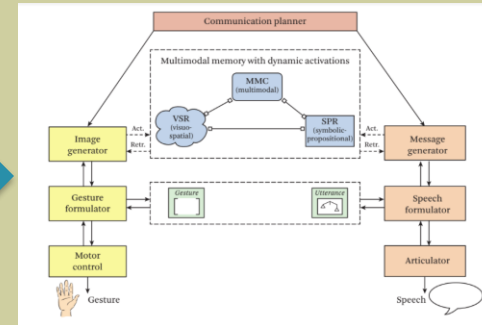
# Combining spontaneous data analysis and modeling

Multiple  
correspondence  
analyses



Beaupoil &  
Morgenstern 2018

Modeling



Kopp & Bergmann, 2016

Data analysis



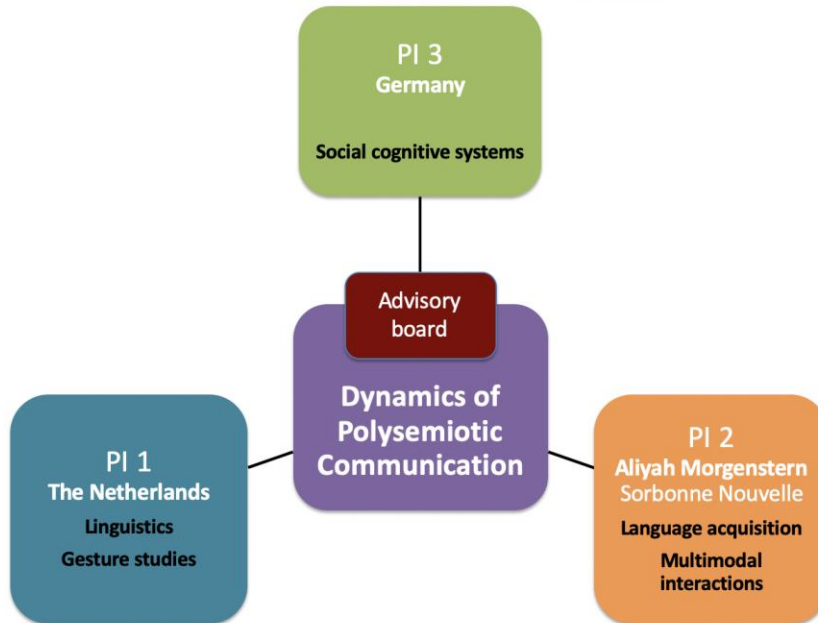
Plurisemiotic  
approach  
to language  
development



# Interdisciplinarity Attempt 2

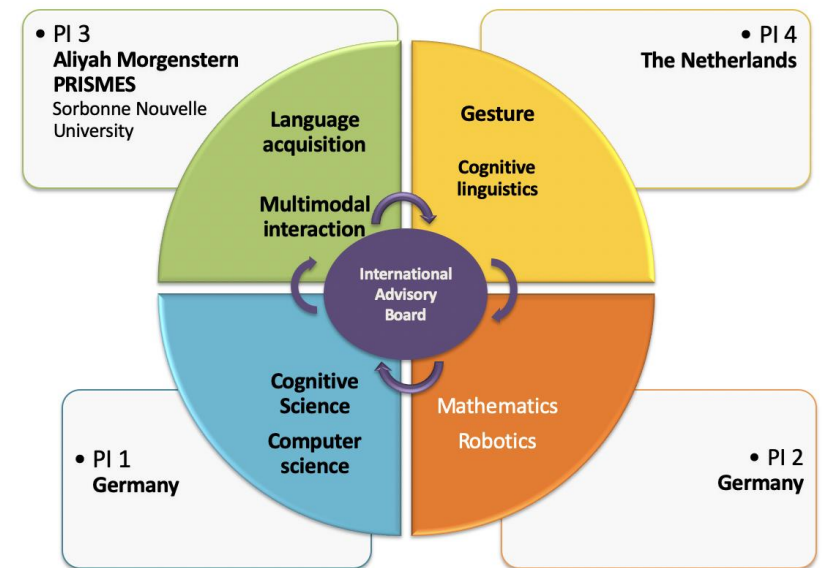
## Year 1

### THE **PolySem** SYNERGY TEAM



## Year 2 Submission

### THE **CapCom** CONSORTIUM





# Interdisciplinarity Attempt 3

## Parametric relationships of location and movement in French Sign Language

Formal transcription and motion capture.

Towards the modeling of the gestural constituents of the shape of signs.

Léa Chevrefils-Desbiolles

Linguistics – Biomechanics - Computer science





# Lessons? Recommendations?

Personal enrichment

Continue to search for other frontier openers

Importance of understanding all the aspects of the projects you submit

Get socialized to other fields' methods, tools, approaches, deliverables, language....



# Suggestions

Increase SSH funding in general

Interdisciplinary training/education

Interdisciplinary reviewing

Interdisciplinary journals/deliverables



# Thank you - Merci



[Aliyah.Morgenstern@sorbonne-nouvelle.fr](mailto:Aliyah.Morgenstern@sorbonne-nouvelle.fr)