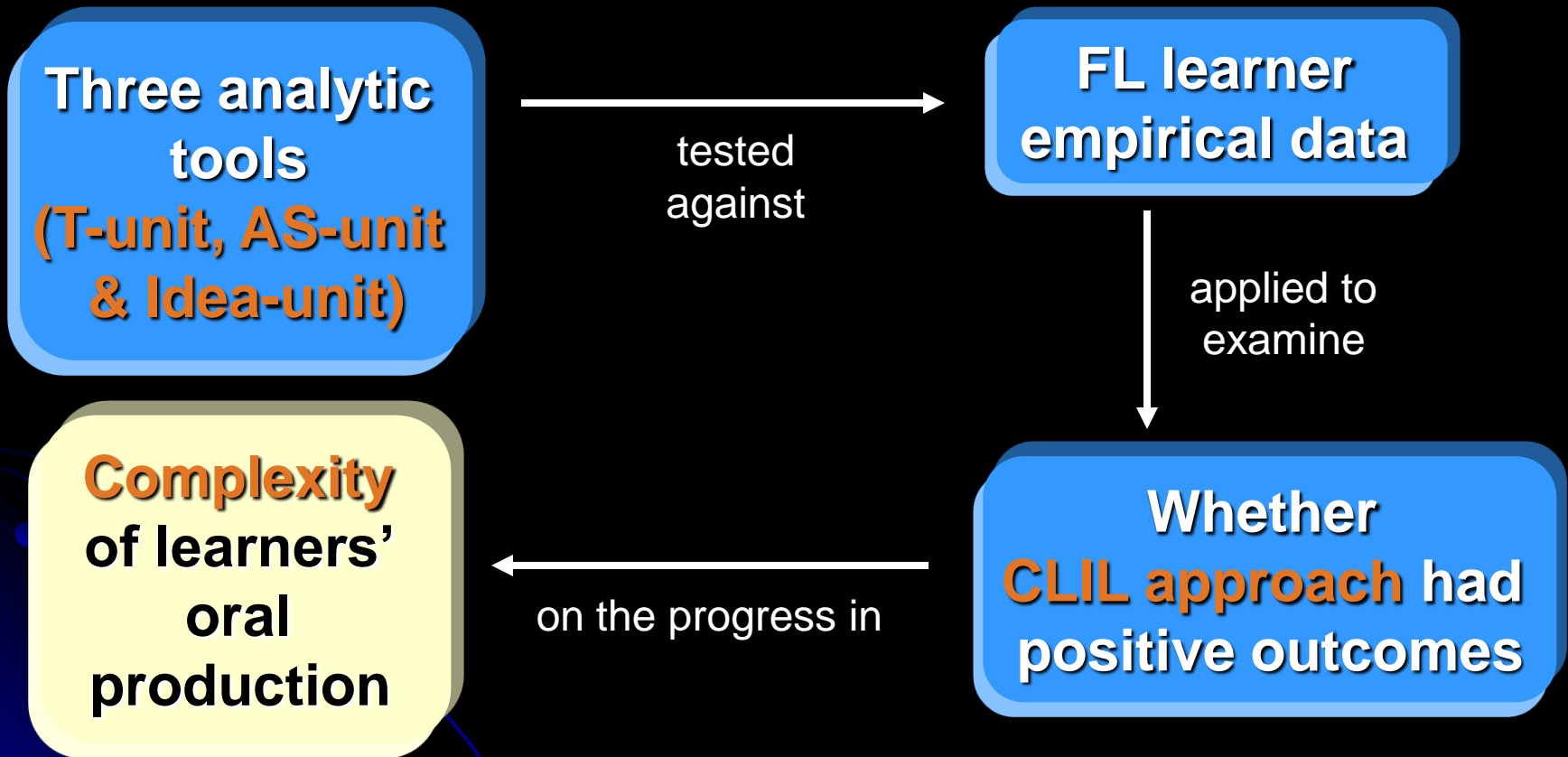


# What is Behind Statistically Significant Results in SLA Research? Challenges in the Segmentation of CLIL Learner Oral Data

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# INTRODUCTION



# THEORETICAL FRAMEWORK I

- A language aspect which concerns the elaboration of the language which is produced (Skehan 1996)
- The capacity to use more advanced language and to encode more complex ideas (Ellis & Yuan 2004)



What enables learners to progress and produce more complex language is their willingness and preparedness to take risks and restructure their interlanguage by experimenting with language (Skehan & Foster 1999)

**Complexity  
of learners'  
oral  
production**

# SOME PROBLEMS

- Many researchers “do not present their primary data in their publications and hence the reliability of major sections of their analyses is not available for scrutiny” (Seedhouse 2005)
- Transcribed and segmented data samples should be available to other researchers (Pallotti 2007)
- Only 7 studies from 30 provided segmented transcripts (Foster, Tonkyn & Wigglesworth 2000; Sotillo 2000; Ellis & Barkhuizen 2005; Gilabert 2005; Kawauchi 2005; Iwashita 2006; Larsen-Freeman 2006)

**Absence of  
illustrative  
examples**



**Focus on data  
segmentation**

# RESEARCH TOOL: Idea-unit

“A message segment consisting of a topic and comment that is separated from contiguous units syntactically and/or intonationally” (Ellis & Barkhuizen 2005)

- o Alternative tool to T-unit and AS-unit
- o Semantic & intonational criteria
- o ‘Major’ and ‘Minor’ Idea-units
- o Non-interactive narrative tasks (Larsen-Freeman 2006)
- o Attractive and promising tool for assessing complexity of learner academic discourse

# OBJECTIVES

**To evaluate the appropriateness and effectiveness of the chosen tools for the assessment of complexity of learners' academic oral discourse produced in the CLIL classroom:**

- ❖ To examine the methodological issues that arise when each tool is applied to our data
- ❖ To observe what information each tool provides about complexity of the language produced

# METHODOLOGY: THE CORPUS



- ❖ CLIL teaching sequence about Amazon rainforests and their actual problematic situation
- ❖ State secondary school in Metropolitan Barcelona in 2005

- ❖ Oral pretest – posttest: three open-ended questions

**Learners' oral explanatory productions in the target language (English)**



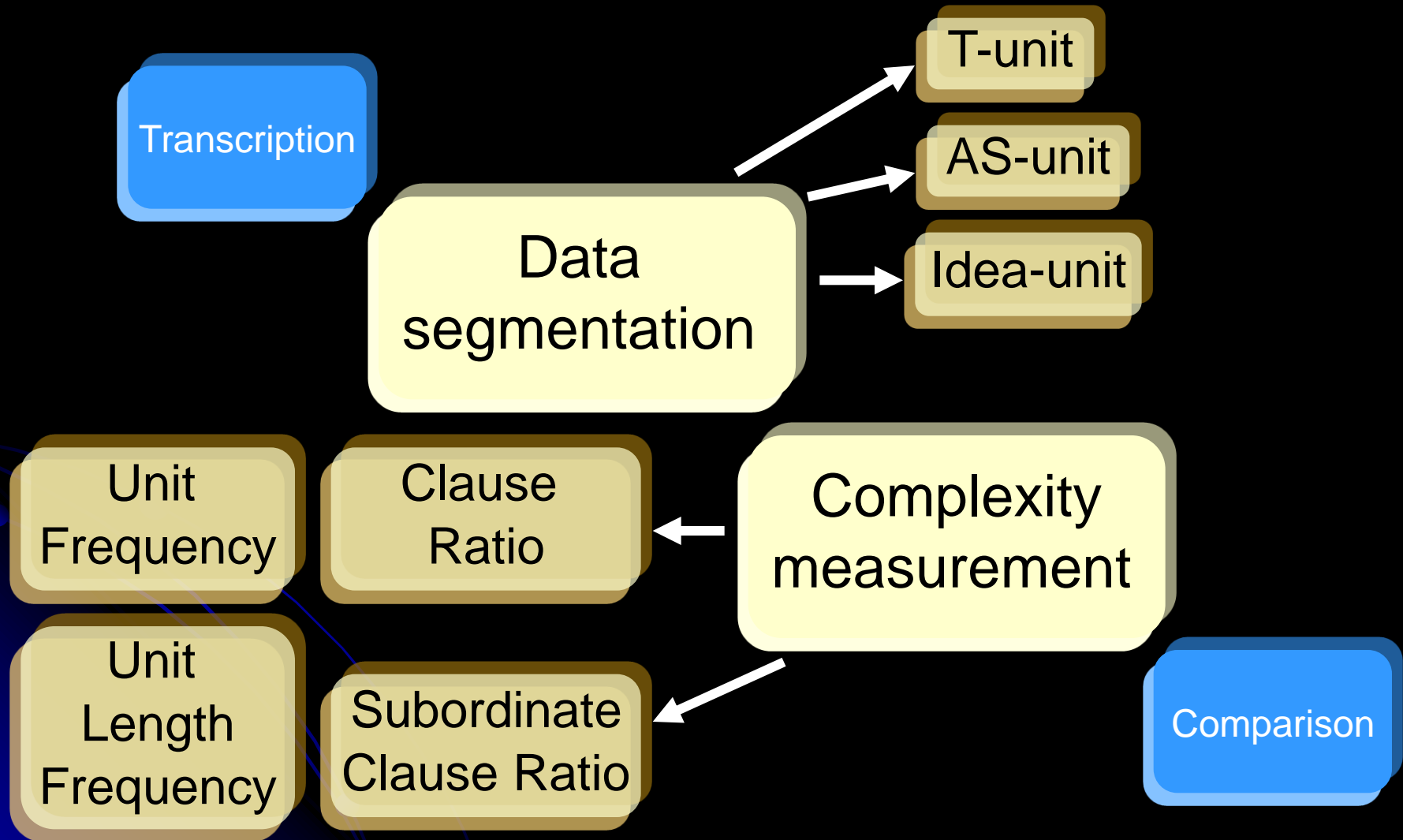
# METHODOLOGY: PARTICIPANTS

- 2 learners: Laura and Montse
- Age: 15-16 years
- L1: Catalan and Spanish
- Level of English: A1-A2

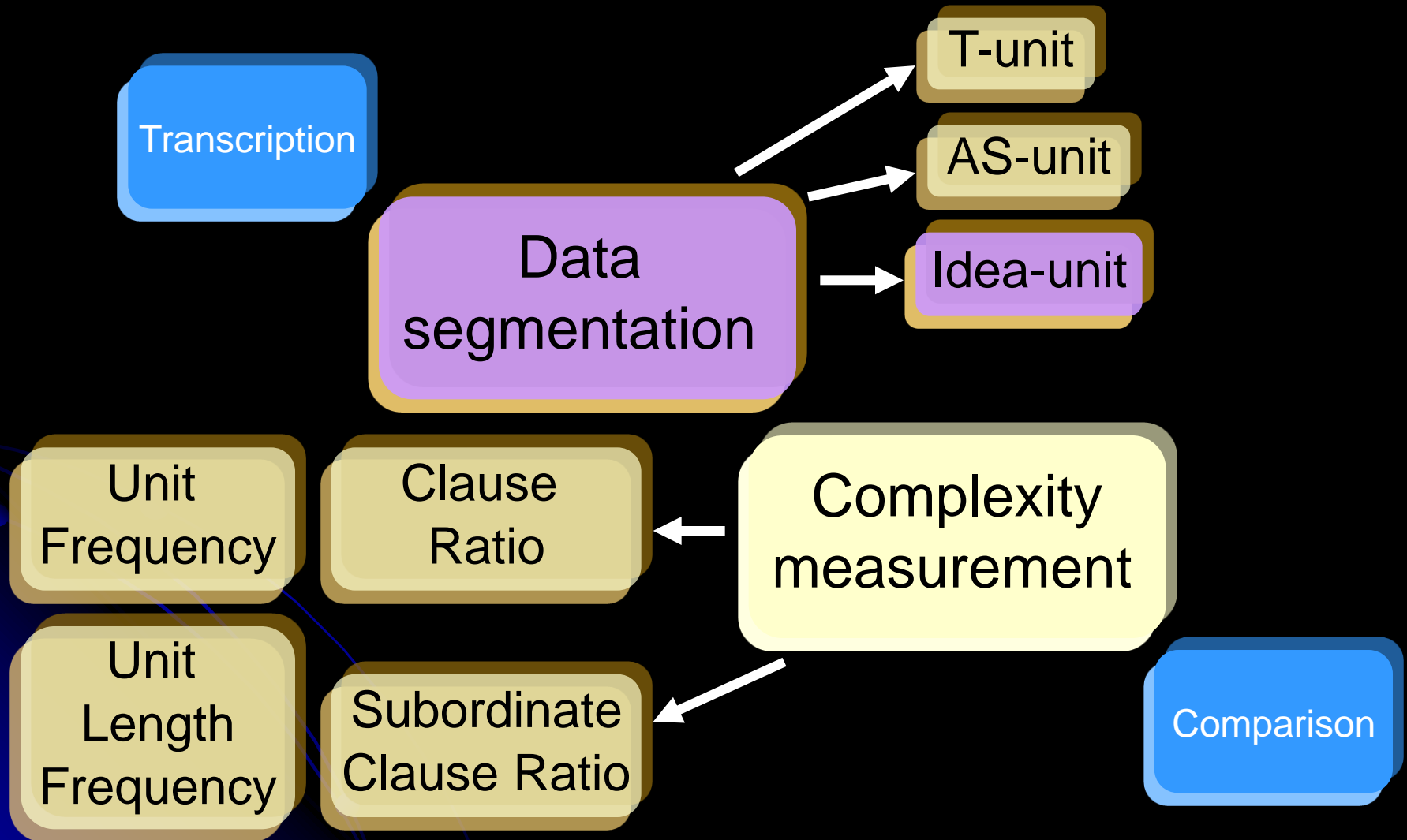




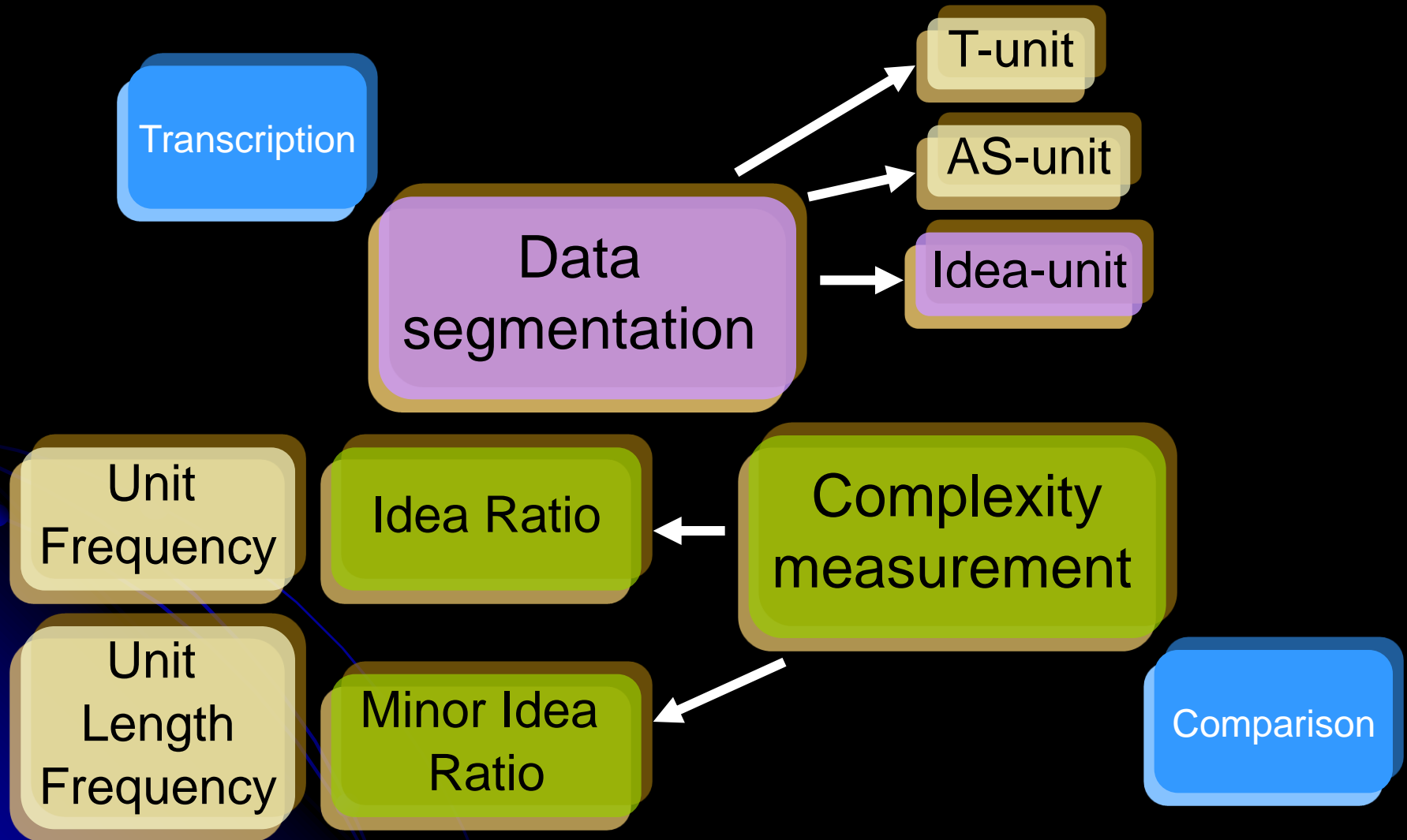
# METHODOLOGY: ANALYTIC PROCEDURES



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# ANALYSIS

## Excerpt 1 (PRETEST): non-segmented

e: and the principal: place is in the- is the Amazon and is in South America. e: the weather is ↑wet a::nd there (.) rains a lot.

<...>

e:: (2.5) e: the:y- (.) e: they does- they don't (.) <wear (.) our (.) clothes, and they wear e: another clothes. the:y- the:y put earrings i:n the: noses, mouth and in a lot of parts of the- of their body.>

# ANALYSIS

## Excerpt 1 (PRETEST): segmented into Idea-units

### I. Hesitation phenomena (blue):

4. e: and the principal: place is in the- is the Amazon and is in South America.

5. e: the weather is ↑wet a::nd there (.) rains a lot.

<...>

• 10. e:: (2.5) e: the:y- (.) e: they does- they don't (.) <wear (.) our (.) clothes, and they wear e: another clothes.

11. the:y- the:y put earrings i:n the: noses, mouth and in a lot of parts of the- of their body.>

# ANALYSIS

## Excerpt 2 (POSTTEST): non-segmented

e: (..) and- (.) e: we have to:- we have to:-  
protect these- the:- these animals because  
e: some animals are:- only live there in  
rainforests. e:: (2.5) we h- e: we have to  
create r- natural reserves a:nd (.) don't kill  
animals for fun, and the: indigenous only kill  
for- for eat not for fun. e: the same of  
creatures.

# ANALYSIS

## Excerpt 2 (POSTTEST): segmented into Idea-units

### II. Verbless structures (unit boundaries) (orange):

6. e: (..) (an-) (.) e: we have to:- we have to:  
protect these- the:- these animals because e:  
some animals are:- only live there in  
rainforests.

7. e:: (2.5) we h- e: we have to create r- natural  
reserves a:nd (.) don't kill animals for fun, and  
the: indigenous only kill for- for eat not for fun.  
e: the same of creatures.

# ANALYSIS

## Excerpt 3 (POSTTEST): non-segmented

and it's very important that we replant the:-  
these trees. if we cut down- if the coachers  
cut down a tree they could- they replant, for  
example, two or three new trees. and then  
e: if we: and if they did it (.) the:- the  
Amazonia never ↑die and the trees (.) of  
Amazonia never d- never- (.) m:: disappear.



# ANALYSIS

## Excerpt 3 (POSTTEST): segmented into Idea-units

### III. Reformulated false starts and subordinate clauses (green):

11. and it's very important that we replant the:-  
these trees. if we cut down- if the coaches cut  
down a tree they could- they replant, for  
example, two or three new trees.

12. and then e: if we: and if they did it (.) the:-  
the Amazonia never ↑die and the trees (.) of  
Amazonia never d- never- (.) m:: disappear.

# ANALYSIS: RE-SEGMENTATION I

- 2 methodological principles proposed for *AS-unit* (Foster, Tonkyn & Wigglesworth 2000):
- **Intonation principle**: ‘a message segment’ to be separated from the next unit by:
  - falling intonation + pause  $\geq 0.5$  sec

# ANALYSIS: RE-SEGMENTATION II

- **Problematic cases:**
- Separate incomplete / incomprehensible Idea-units → to be included into the previous unit to which they were related.
- Self-repaired Ideas → to be considered Idea-units only those elaborated into a minimally understandable utterances.
- Self-repaired versions + a comprehensible version = one Idea-unit

# CONCLUSIONS: SEGMENTATION

## Idea-unit

Advantages:	Problems:
<p>interest in the propositional aspect of the language produced:</p> <ul style="list-style-type: none"><li>• hesitation phenomena</li></ul>	<p>definition's impreciseness in respect to:</p> <ul style="list-style-type: none"><li>• 'Ideas' extent &amp; unit boundaries</li><li>• reformulated false starts and subordinate clauses</li></ul> <p>→ tested twice</p>

**only after the tool's refinement and the data re-segmentation, it started to function more accurately, precisely & effectively**

# CONCLUSIONS: MEASUREMENT

Subject	Measure	Progress	Significance
Laura	UF	5	-
	<b>ULF</b>	9.05	<b>.046</b>
	IR	0.45	.327
	MIR	0.11	.716
Montse	UF	9	-
	ULF	2.61	.322
	IR	0.07	.823
	MIR	0.15	.260

*Note:* UF = Unit Frequency; ULF = Unit Length Frequency; IR = Idea Ratio; MIR = Minor Idea Ratio

**Thank you very much!**

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