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 (Labex EFL, Axe 7-EM2)

Cross-mediated elicitation and participative sociolinguistics: the ALMaz project



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María teopoxco, 2012

## • Introduction

- **Cross mediation:** the Cross-mediated elicitation (EM2) endeavor within the Labex-EFL (strand 7) stands itself at the crossroad between **bilingual education theory and practice** (cf. *sciences de l'éducation, pédagogie*), **linguistic anthropology**, **psycholinguistic** and **formal grammar**.
- **Diamesic Variation:** EM2 focuses on **written and oral texts and word lists** worked out by native speakers of Mesoamerican languages during **literacy and training workshops on Mesoamerican languages**. Most of them are **school teachers** who lack training in formal components of bilingual education. **It answers a crucial and acute collective demand.**
- **Goals:** It aims at developing an experimental methodology to make linguistic fieldwork with speakers of endangered languages strongly cooperative. It aims at **providing autonomous resources from inside the community.**

# Introduction

- **Output:** It produces materials for bilingual schools in Mexico and elsewhere in Mesoamerica (e.g. Guatemala, initially) and data for the linguists through **Alternative Educational Literacy Workshops (AELW)**.
- **Fieldwork at stake:** in the **Papaloapam Basin (South Eastern Mexico)**, the EM2 operation has made possible about **20** of these workshops, among which four on inflectional classes and tones, one on dialectology, and **15** focused on the production of educational materials for schools. Over **500** school teachers took part in these activities, which percolated a network of over **100** schools, and benefitted to thousands of pupils.
- **Multilingual setting:** AEW have been held particularly, but not only, with Mazatec and Nahuatl schoolteachers and their pupils and/or the teachers and students of pedagogical institutions and universities, over the last four years (2010-2013).
- E.g. the Santa Maria Teopoxco **AELW** in 2011 gathered eight languages (Mazatec, Nahuatl, Mixtec, Cuicatec, Valley Zapotec, Xhon Zapotec, Chinantec, Mixe) and five languages were used in the Tehuacan Forum (Nahuatl, Mazatec, Amuzgo, Totonac, Tsotsil), in 2012.

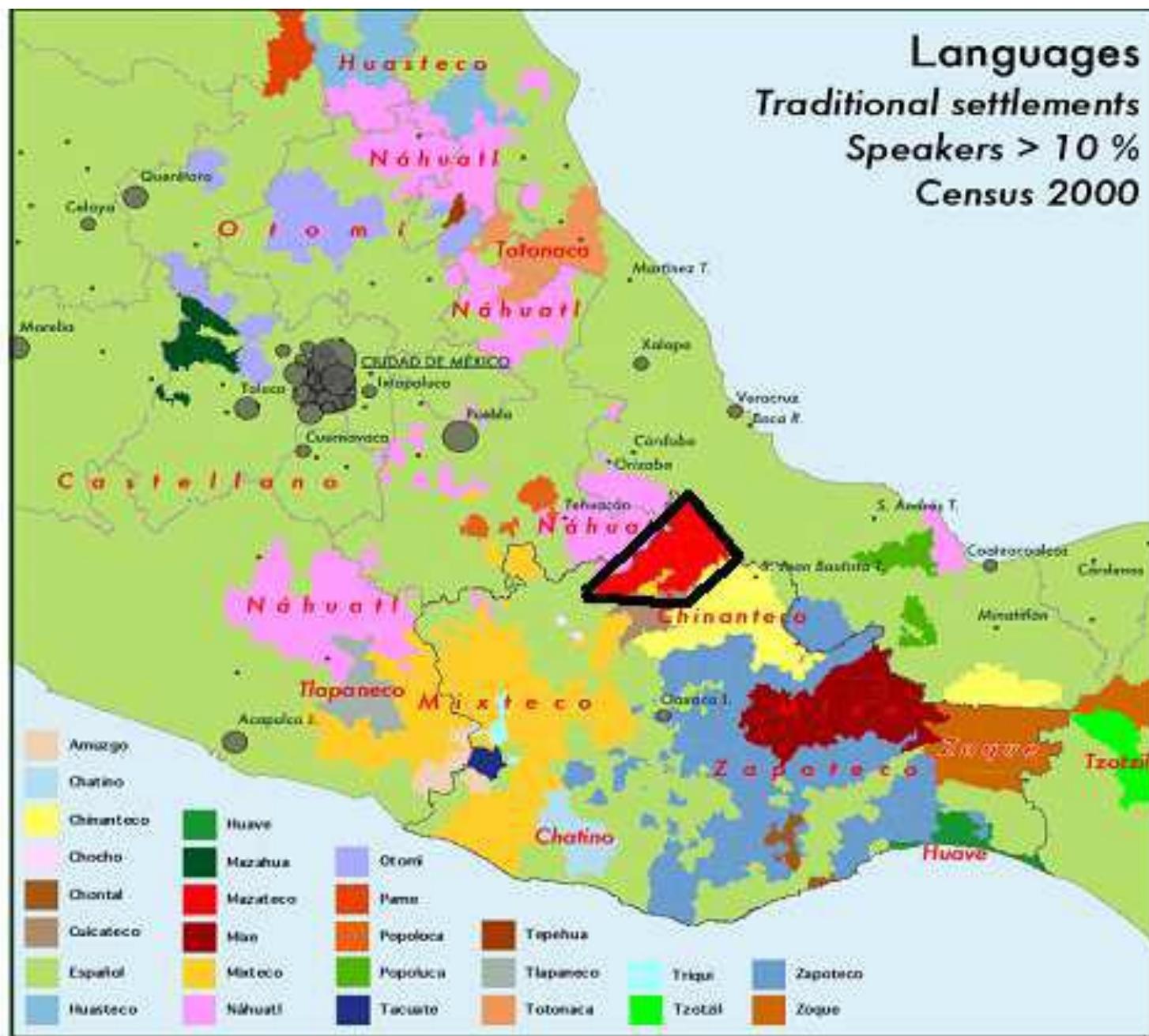
## 2. Challenging revitalization through formal collective praxis

- **Sociolinguistic gap:** so far, documentation and revitalization work has been mostly anecdotal; though it deals with properly sociolinguistic issues it neither draws on nor contributes to current sociolinguistic thinking.
- **Formal models:** In particular, it has no proper theoretical grounding, whether idiosyncratic or based on more general theoretical principles.
- **Framework:** Revitalization is at best an anecdotal field; not even a proper framework for description, much less a theoretical grounding or general principle that would make it possible to identify and replicate effective strategies.
- **Evaluation:** there are not even guidelines for evaluating progress in revitalization.

# Challenging revitalization through sociolinguistic praxis

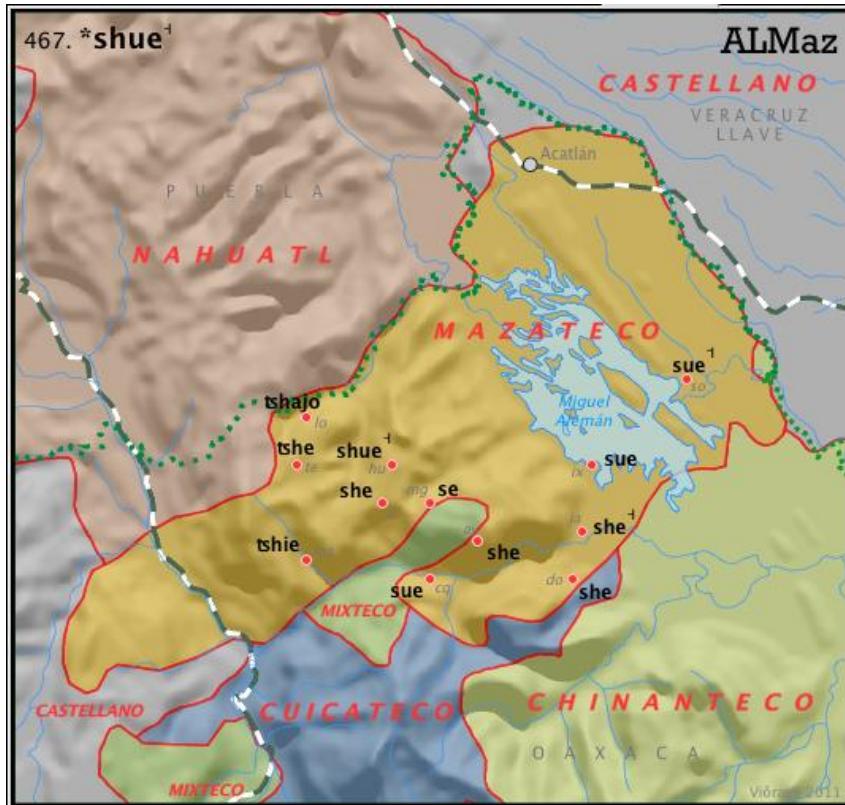
- **Praxis:** endangered languages documentation leads naturally to effective praxis. It helps to describe **resilient** communities and identify successful strategies of **resistance to assimilation and language loss (i.e. language shift)**.
- **Political settings:** Mexico is an ideal natural laboratory for such work because of its linguistic diversity (typological and genealogical), its complex and varied sociolinguistic and sociopolitical situation, and a usable body of descriptive and historical work on the political and social situation.

**Languages**  
**Traditional settlements**  
**Speakers > 10 %**  
**Census 2000**

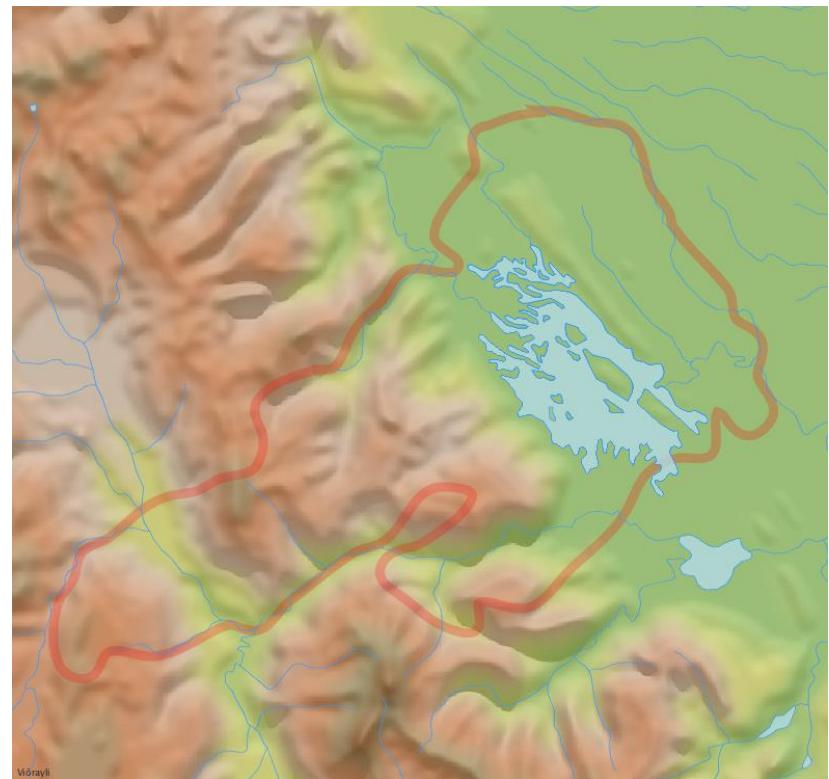
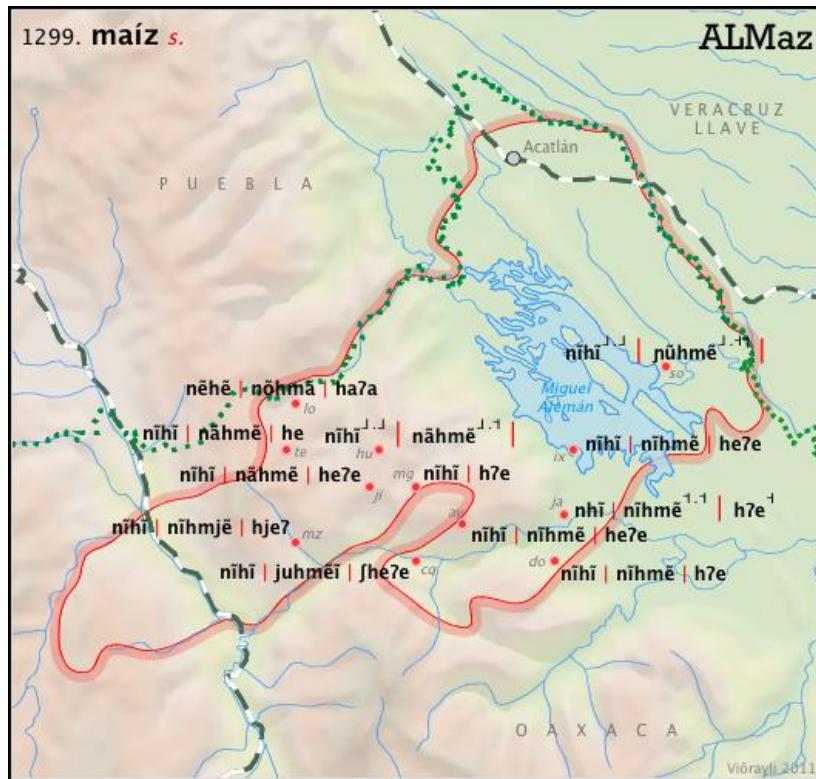


Mesomerican languages (Cartography: Vittorio dell'Aquila)

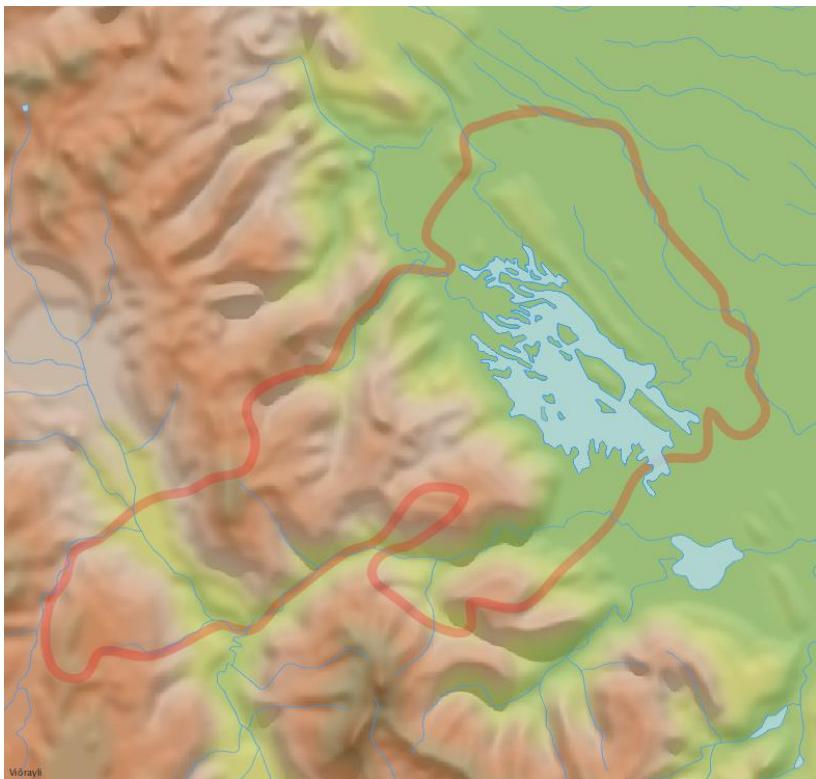
# A glimpse at the Papaloapam Basin and the ALMaz area



# Highlands, Midlands and Lowlands



# Highlands, Midlands and Lowlands



## • Our standpoint (the Beaver's Lesson):

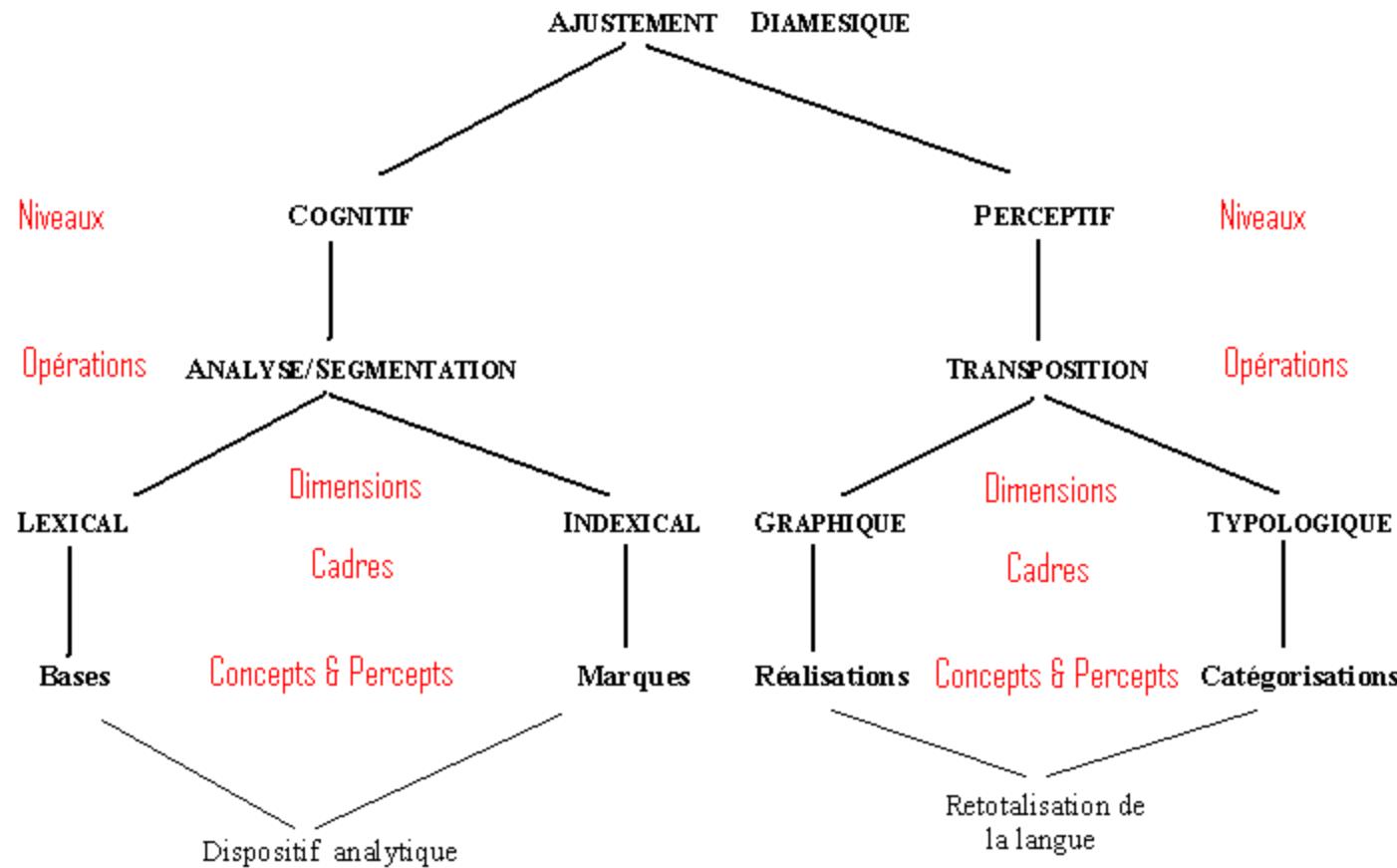
- The Meso-American Morphophonology Project (MAMP, 2009-14) team realized that:
- **Know-How:** the linguistic and pedagogical *know-how* its members possess in **formal grammar, dialectology, endangered language documentation, linguistic anthropology**, could, and furthermore *should*, directly benefit the communities whose languages are being mapped in this project. In other words, linguistics is power... Linguistics can contribute to **empowerment in civil society**.
- **Social Networks:** Providing tools to these communities would also enable contact with larger numbers of speakers with the language skills required for MamP's linguistic questionnaires by creating a type of bilateral exchange of information (see Léonard & al. 2013).
- **Critical empiricism:** contributing to typological studies and also to social dialectology, based on a critical position, in close collaboration with the speakers of endangered languages.

# •Methods

- The workshop entitled *Imaginary Homelands*, inspired on Calvino's book *Invisible Cities*, aims at generating teaching materials on local history and geography, with a critical position on the environmental and socio-economic issues the community might face today (cf. Lazos & Paré, 2000; Solis & Solano, 2006) or have faced in the past (e.g. Boege, 1988; McMahon, 1971).
- Emerging literacy : the ethnomethodology applied in these workshops shows that the transition orality-literacy-orality in indigenous languages is, and could be, flowing continuously during teaching activities.
- In this vein, our methodology is an alternative way to do elicitations as it puts in practice a *diamesic process*, through the production and analysis of both written and oral tokens of word lists, paradigms, texts, discourse, etc.

- *The psychological reality of phonemes and morphemes:*
- A multi-source of descriptive models and datas that exploits an enormous amount of corpus: the files of lexis and grammar.
- In a few words, remembering Michel Foucault:
  - « Un ensemble multisource de modèles descriptifs et de données, qui exploite une gamme diversifiée de corpora constituant ce qu'on pourrait appeler, en termes foucaldiens, les *archives* du lexique et de la grammaire » (Léonard, 2012).

### 3. The *Diamesic Accommodation* (DA) model (Léonard, 2012)



# Application to the voice quality correlation

VALEUR => CRAQUEMENT ET SOUFFLE Soit {QUALITE DE VOIX}	
TRANSPOSITION	
GRAPHIQUE	TYPOLOGIQUE
Réalisations	Catégorisations
Groupes consonantiques (cf. P&P 1947) Ou attaques branchantes => répartition plurisegmentale	Voix craquée ou soufflée => Organicité segmentale, coalescence, alignement
- <b>Alignement flottant</b> : constituance indéterminée ou sous-spécifiée	- Constituance fusionnée
- <b>Absence, oblitération</b> : non discrétisé, omission, cumul	- Discréture floue
- <b>Erratisme</b> : notation aléatoire	- Variation libre
- <b>Interpolation</b> : <‘> pour <j>, <j> pour <‘>	- Syncrétisme croisé

# An intricate inflectional class system: the Chiquihuitlan preverbal taxonomy model (Jamieson, 1982)

Classe Flexionnelle (Cl. Flex)	3 DEF. ou 1 SG.	3 DEF. ou 1 SG.	Autres Personnes	Autres Personnes
	NTR	INAC.	NTR	INAC.
A	<i>be-</i> <sup>3</sup>	<i>kue-</i>	<i>be-</i>	<i>kue-</i>
B	<i>ba-</i>	<i>kua-</i>	<i>ba-</i>	<i>kua-</i>
C	<i>bo-</i>	<i>sko-</i>		<i>cho-</i>
D	<i>bu-</i>	<i>sku-</i>		<i>chu-</i>
E	<i>ju-</i>	<i>sku-</i>		<i>chju-</i>
F	<i>ji-</i>	<i>ski-</i>		<i>chji-</i>
G	<i>fa-</i>	<i>kjua-</i>	<i>fa-</i>	<i>kjua-</i>
H	<i>tsi-</i>	<i>tsi-</i>		<i>nin-</i>
I	<i>su-</i>	<i>su-</i>		<i>nun-</i>
J	<i>bu-</i>	<i>ku-</i>	<i>bu-</i>	<i>ku-</i>
K	<i>ba-</i>	<i>kua-</i>		<i>cha-</i>
L	<i>ka-</i>	<i>ska-</i>		
M	<i>fa-</i>	<i>kjua-</i>		<i>nan-</i>
N	<i>ba-</i>	<i>kua-</i>		
O	<i>bi-</i>	<i>kui-</i>	<i>bi-</i>	<i>kui-</i>
P	<i>bu-</i>	<i>sku-</i>		<i>ntu-</i>
Q	<i>ji-</i>	<i>si-</i>	<i>chi-</i>	<i>xi-</i>
R	<i>fa-</i>	<i>kjua-</i>		<i>chja-</i>

A disystemic model fot the ALMaz, according to JLL & Alain Kihm (2014): Highland diasystem

Classe morphonologique	Classe préverbale	Pv	Classe morphosémantique
Attaques labiales	I	A <i>b'é-</i>	Collocatif non scindé
		B <i>ba-</i>	
		C1 <i>bi-</i>	
	II	C2 <i>ba-/bi-</i>	Dynamique scindé
		C3 <i>bá-/fa-</i>	
	III	D <i>b'a-/ch'a-</i>	Collocatif scindé
Attaques coronales	IV	E <i>sí-/ni-</i>	Causatif
	V	F <i>tsjoa-</i>	Dation, scindé
Attaque dorsale	VI	G <i>kjoa-</i>	Mouvement, scindé

# 4. Literacy and language training workshops (Mazatec highlands)

	CLASE A Habitual	Actual	Cercano
an	bátē	tibaté	kabate
Ji	bataí	ti batai	ka batai
Jé	bátē	ti baté	ka baté
ñá'	batee	ti batéejin	ka batéej
Jin	bataijin	ti batao	ka batajin
Jón	batao	ti baté	ka batao
Jé	bátē		Ka baté
	CLASE B Ha	(b'ene)	
an	b'ene	tib'ene	kab'ene
Ji	b'enai	ti b'enai	Kab'enai
Jé	b'ene	ti b'ne	Kab'ene
ñá'	b'enee	ti b'enee	Kab'enee
Jin	b'enaijin	ti b'enaijin	Kab'enaijin
Jón	b'nao	ti b'nao	Kab'enao
Jé	b'ene	ti b'ne	Kab'ene
	CLASE C ba/bi		
an	batsé	tibatsé	kabatse
Ji	bindai	ti bindai	Kabindai

Remoto	Pluscuampierto	Futuro
tsakate	tsakate tsakae	Kuaté
tsa kai	tsa kai tsakae	Kua tai
tsa katé	tsa katé tsakae	Kua té
tsa kai tée	tsa kai té tsakae	Kuaaté
tsa kai tajin	tsa kai tajin tsakae	Kuatajin
tsa katao	tsa ka tao tsakae	Kuatao
tsa katé	tsa ka té tsakae	Kuaté
tsak'ene	tsa k'ene tsakae	Kue ne
tsa k'enai	tsa k'ene tsakae	Kue nai
tsa k'ene	tsa k'ene tsakae	Kuetne
tsak'enee	tsa k'eneé tsakae	Kue neé
tsa k'ena jin	tsa k'ena ijinsakae	K'uenaijin
tsa k'eno	tsa k'eno tsakae	K'uenao
tsa k'ene	tsa k'ene tsakae	K'ue ne
tsa katse	tsa katsetsa tsakae	Kuatse
tsa kindai	tsa kindaitsa tsakae	Kuin dai
	tsa katsetsa tsakae	Kuatse



**CLASE A**  
**Habitual**

an	baté
Ji	ba tai
Jé	ba té
ñá	ba tee
Jin	bataijin
Jón	batao
Jé	baté

**CLASE B**

an	b'ene
Ji	b'enai
Jé	b'ene
ñá	b'enee
Jin	b'enaijin
Jón	b'enao
Jé	b'ene

**CLASE**

an	batsé
Ji	bindai

**Actual**

tibaté
ti ba tai
ti baté
ti batée
ti batijin
ti batao
ti baté
(b'ene)
tib'ene
ti b'enai
ti b'e nee
ti b'enee
ti b'enaijin
ti b'e nao
ti b'e ne
c ba/bi
tibatsé
ti bindai

**Cercano**

kabate
ka ba tai
ka ba té
ka ba tee
ka ba taijin
ka ba tao
ka ba té
kab'ene
kab'enai
kab'ene
ka b'enee
ka b'enaijin
kab'enao
kab'ene
kabatse
ka bindai

**Remoto**

tsaka te
tsa ka tai
tsa ka té
tsa ka tee
tsa ka taijin
tsa katao
tsa katé

tsak'ene
tsak'enai
tsak'ene
tsak'enee
tsak'enaijin
tsak'enao
tsak'ene

tsa katse
tsa kindai

**Pluscuamperfecto**

tsakatetsa kae
tsa katalisa kae
tsa kate sa kae
tsa kateesa kae
tsa kataljin sakae
tsa katalo tsakae
tsa kate tsakae

tsak'enetsakae
tsak'enaitsa kae
tsak'enetsakae
tsak'eneetsakae
tsak'ena ijinsakae
tsak'enao tsakae
tsak'ene tsakae

tsakatsetsa kae
tsakindaitsa kae
tsakatsetsakae

**Futuro**

kuaté
kua tai
kua té
kua até
kuataijin
kuataao
kuaté

kue ne
k'ue nai
k'uetne
k'ue nee
k'uenaijin
k'ue nao
k'ue ne

kuatse
kuindai
kuatsé
kuindao

# A sample of Kenneth Pike's matrices (1948), tonal classes

TABLE 9a

Second (as Last) Main Stem of Personal Compound Verbs Ending in Toneme 1 with Fused Dependent Subject Pronouns

Main stems	Auxiliary stems: zero, ki <sup>3</sup> -, koi <sup>4</sup> -	Third persons singular and plural: zero	First person singular: -a <sup>3</sup>	Second person singular: -i <sup>3</sup>	Second person plural: -o <sup>3</sup>	First person plural exclusive: -i <sup>4</sup>	First person plural inclusive: -a <sup>2</sup>
'to send'	Timeless	v?e <sup>1</sup> ša <sup>1</sup>	v?e <sup>4-3</sup> ša <sup>1-3</sup>	v?e <sup>2</sup> šai <sup>1-3</sup>	v?e <sup>2</sup> šao <sup>1-3</sup>	v?e <sup>2</sup> šai <sup>1-4</sup>	v?e <sup>2</sup> ša <sup>1</sup>
< v?e <sup>1</sup> - 'he deposits'	Complete	ca <sup>3</sup> k?e <sup>1</sup> ša <sup>1</sup>	ca <sup>3</sup> k?e <sup>4-3</sup> ša <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> šai <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> šao <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> šai <sup>1-4</sup>	ca <sup>3</sup> k?e <sup>2</sup> ša <sup>1</sup>
+ ša <sup>1</sup> - 'work'	Incomplete	k?oe <sup>4-2</sup> ša <sup>1</sup>	k?oe <sup>4-3</sup> ša <sup>1-3</sup>	k?oe <sup>1</sup> šai <sup>1-3</sup>	k?oe <sup>1</sup> šao <sup>1-3</sup>	k?oe <sup>1</sup> šai <sup>1-4</sup>	k?oe <sup>1</sup> ša <sup>1</sup>
'to braid'	Timeless	v?e <sup>1</sup> n?iq <sup>1</sup>	v?e <sup>4-3</sup> n?iq <sup>1-3</sup>	v?e <sup>2</sup> n?iq <sup>1-3</sup>	v?e <sup>2</sup> n?iq <sup>1-3</sup>	v?e <sup>2</sup> n?iq <sup>1-4</sup>	v?e <sup>2</sup> n?iq <sup>1</sup>
< v?e <sup>1</sup> - 'he deposits'	Complete	ca <sup>3</sup> k?e <sup>1</sup> n?iq <sup>1</sup>	ca <sup>3</sup> k?e <sup>4-3</sup> n?iq <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> n?iq <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> n?iq <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> n?iq <sup>1-4</sup>	ca <sup>3</sup> k?e <sup>2</sup> n?iq <sup>1</sup>
+ n?iq <sup>1</sup> 'strong'	Incomplete	k?oe <sup>4-2</sup> n?iq <sup>1</sup>	k?oe <sup>4-3</sup> n?iq <sup>1-3</sup>	k?oe <sup>1</sup> n?iq <sup>1-3</sup>	k?oe <sup>1</sup> n?iq <sup>1-3</sup>	k?oe <sup>1</sup> n?iq <sup>1-4</sup>	k?oe <sup>1</sup> n?iq <sup>1</sup>
'to play'	Timeless	si <sup>1</sup> ska <sup>1</sup>	si <sup>1-3</sup> ska <sup>1-3</sup>	ni <sup>2</sup> skai <sup>1-3</sup>	ni <sup>2</sup> skao <sup>1-3</sup>	ni <sup>2</sup> skai <sup>1-4</sup>	ni <sup>2</sup> ska <sup>1</sup>
< s?i <sup>1</sup> - 'he makes'	Complete	ki <sup>1</sup> si <sup>4-3</sup> ska <sup>1</sup>	ki <sup>3</sup> si <sup>1-3</sup> ska <sup>1-3</sup>	ki <sup>3</sup> ni <sup>2</sup> skai <sup>1-3</sup>	ki <sup>3</sup> ni <sup>2</sup> skao <sup>1-3</sup>	ki <sup>3</sup> ni <sup>2</sup> skai <sup>1-4</sup>	ki <sup>3</sup> ni <sup>2</sup> ska <sup>1</sup>
+ ska <sup>1</sup> 'it is foolish'	Incomplete	si <sup>1-2</sup> ska <sup>1</sup>	si <sup>1-3</sup> ska <sup>1-3</sup>	si <sup>1</sup> skai <sup>1-3</sup>	si <sup>1</sup> skao <sup>1-3</sup>	si <sup>1</sup> skai <sup>1-4</sup>	si <sup>1</sup> ska <sup>1</sup>
'to wrap'	Timeless	v?e <sup>1</sup> hte <sup>1</sup>	v?e <sup>4-3</sup> hte <sup>1-3</sup>	v?e <sup>2</sup> htai <sup>1-3</sup>	v?e <sup>2</sup> htao <sup>1-3</sup>	v?e <sup>2</sup> htai <sup>1-4</sup>	v?e <sup>2</sup> hte <sup>1</sup>
< v?e <sup>1</sup> - 'he deposits'	Complete	ca <sup>3</sup> k?e <sup>1</sup> hte <sup>1</sup>	ca <sup>3</sup> k?e <sup>4-3</sup> hte <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> htai <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> htao <sup>1-3</sup>	ca <sup>3</sup> k?e <sup>2</sup> htai <sup>1-4</sup>	ca <sup>3</sup> k?e <sup>2</sup> hte <sup>1</sup>
+ hte <sup>1</sup> - 'a bundle'	Incomplete	k?oe <sup>4-2</sup> hte <sup>1</sup>	k?oe <sup>4-3</sup> hte <sup>1-3</sup>	k?oe <sup>1</sup> htai <sup>1-3</sup>	k?oe <sup>1</sup> htao <sup>1-3</sup>	k?oe <sup>1</sup> htai <sup>1-4</sup>	k?oe <sup>1</sup> hte <sup>1</sup>
'to wear (clothes)'	Timeless	v?a <sup>3</sup> kha <sup>1</sup>	v?a <sup>3</sup> kha <sup>1-3</sup>	č?a <sup>2</sup> khai <sup>1-3</sup>	č?a <sup>2</sup> khao <sup>1-3</sup>	č?a <sup>2</sup> khai <sup>1-4</sup>	č?a <sup>2</sup> kha <sup>1</sup>
< v?a <sup>3</sup> 'he carries'	Complete	ca <sup>3</sup> k?a <sup>3</sup> kha <sup>1</sup>	ca <sup>3</sup> k?a <sup>3</sup> kha <sup>1-3</sup>	ki <sup>3</sup> č?a <sup>2</sup> khai <sup>1-3</sup>	ki <sup>3</sup> č?a <sup>2</sup> khao <sup>1-3</sup>	ki <sup>3</sup> č?a <sup>2</sup> khai <sup>1-4</sup>	ki <sup>3</sup> č?a <sup>2</sup> kha <sup>1</sup>
+ -kha <sup>1</sup> 'slantwise'	Incomplete	k?oa <sup>4</sup> kha <sup>1</sup>	k?oa <sup>3</sup> kha <sup>1-3</sup>	č?a <sup>4</sup> khai <sup>1-3</sup>	č?a <sup>4</sup> khao <sup>1-3</sup>	č?a <sup>4</sup> khai <sup>1-4</sup>	č?a <sup>4</sup> kha <sup>1</sup>
'to tighten'	Timeless	va <sup>1</sup> htj <sup>1</sup>	va <sup>4-3</sup> htj <sup>1-3</sup>	vha <sup>3</sup> htj <sup>1-3</sup>	vha <sup>3</sup> htj <sup>1-3</sup>	vha <sup>3</sup> htj <sup>1-4</sup>	vha <sup>3</sup> htj <sup>1</sup>
< va <sup>1</sup> - 'he places'	Complete	ca <sup>3</sup> ka <sup>1</sup> htj <sup>1</sup>	ca <sup>3</sup> ka <sup>4-3</sup> htj <sup>1-3</sup>	ca <sup>3</sup> kha <sup>3</sup> htj <sup>1-3</sup>	ca <sup>3</sup> kha <sup>3</sup> htj <sup>1-3</sup>	ca <sup>3</sup> kha <sup>3</sup> htj <sup>1-4</sup>	ca <sup>3</sup> kha <sup>3</sup> htj <sup>1</sup>
+ htj <sup>1</sup> - 'a pile'	Incomplete	ko <sup>4-2</sup> htj <sup>1</sup>	ko <sup>4-3</sup> htj <sup>1-3</sup>	khoa <sup>1</sup> htj <sup>1-3</sup>	khoa <sup>1</sup> htj <sup>1-3</sup>	khoa <sup>1</sup> htj <sup>1-4</sup>	khoa <sup>1</sup> htj <sup>1</sup>

# Huautla Mazatec, causative inflectional class (data from Pike, revisited according to PFM: Léonard & Kihm, 2012)

- *síská* = « he/she plays »
- (i) PF(ská σ {AGR {PERS 3}}) = *síská*, σ
- (ii) PF(ská σ {AGR {PERS 2 NUM *sg*}}) = *nískái*, σ
- (iii) PF(ská σ {AGR {PERS 1 NUM *sg*}}) = *siiskáa*, σ

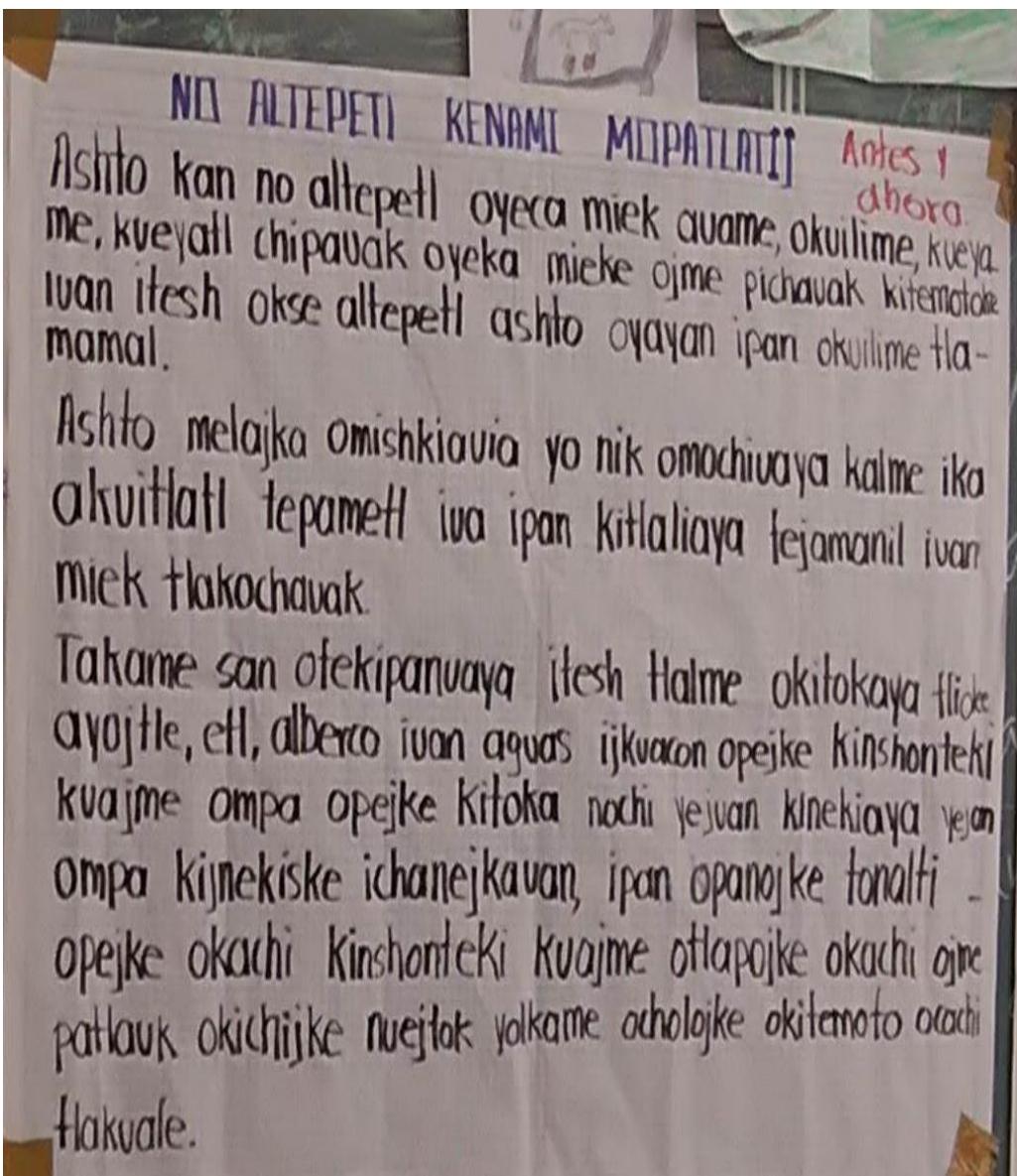
# Tone: three basic constraints

- Preservation of lexical structures: **Pres. Struct.**
- OCP through neutralization of preverbal prosodic content: **PCO Default**
- Restricted inflectional marking by a contour on the preverb: **1 SG & Incomplete Preverbal Dowstep** (RIDS: Restricted Inflectional Downstep).

# Rewriting

- (i)  $\text{FP}(\sqrt{\sigma \{ \text{AGR} \{ \text{PERS } \beta \} \}}) = \textcolor{red}{\mathbf{T}} \mathbf{Pv} \sqrt{\sigma}$
- (ii)  $\text{FP}(\sqrt{\sigma \text{AGR} \{ \text{PERS } -\beta, -1sg \}}) = \textcolor{red}{\tau} \mathbf{Pv} \sqrt{\sigma}$
- (iii)  $\text{FP}(\sqrt{\sigma \{ \text{AGR} \{ \text{PERS } 1 \text{NBR } sg \}, \text{ASP} \{ CMPL \} \}}) = \textcolor{red}{\mathbf{BM}} \sqrt{\sigma}$

## 5. Náhuatl (Uto-Aztecan): TEPETITLÁN, Santa María teopoxco, 2012



- NO ALTEPETL KENAMI MOPATLATIJ
- “Mi pueblo cómo ha cambiado”
- September 04, 2012.
- Bilingual Elementary School “Pablo Neruda”.
- Authors: teachers Teresa, Yolanda and Agnelo; pupils Adolfo, Rodrigo, Karla, Marcos, Yamilet and Andrea.

- (1) No altepetl                    kenami            mo-patla-ti-**j**
- 1POS pueblo-ABS int      3REFL-cambiar-CAUSAT-PAS
- “Mi pueblo cómo ha cambiado”

- This diamesic process, in both the cognitive and the perceptive term, shows a language retotalization:
- Morphosyntactical level :
- *-No altepetl*: *POS* is represented as an independent unit.
- **Interference**: this segmentation follows Spanish grammar rules (i. e. “mi casa”) ≠
- Nahuatl is a polysynthetic language → suggesting a typological change, in written terms, as Flores Farfán (2009) and Magnus (2003) have evidenced in other nahuatl varieties.

- (1) No altepetl kenami mo-patla-ti-**j**
  - 1POS pueblo-ABS int 3REFL-cambiar-CAUSAT-PAS
  - “Mi pueblo cómo ha cambiado”
- 
- Morphological level:
  - *-No altepetl*: simplification of the nominal paradigm POS  $\neq$  ABS:
  - Ungrammatical in conservative Nahuatl varieties and Classical Nahuatl (Flores Farfán 2004)

- (1) No altepetl                    kenami            mo-patla-ti-**j**
- 1POS pueblo-ABS int        3REFL-cambiar-CAUSAT-PAS  
“Mi pueblo cómo ha cambiado”

- Phonological level:
- -Written simplification of the phonemic distinctions of vowel length (VV) or (V:) as in *altepetl*, *kenami* or *mopatlatij* (cf. -patla “to change” vs. “paatla” “to melt”). Not produced in oral contexts.
- -Written hypercorrections of /k/, a productive morpho-phonological marker. In this case, a past marker in *mopatlatij* emerges
- Represented by [j], during the workshops, this item has produced oral misunderstandings or confusions between the Spanish phoneme /x/ and the Nahuatl glottal /ʔ/.

# 6. Outcome

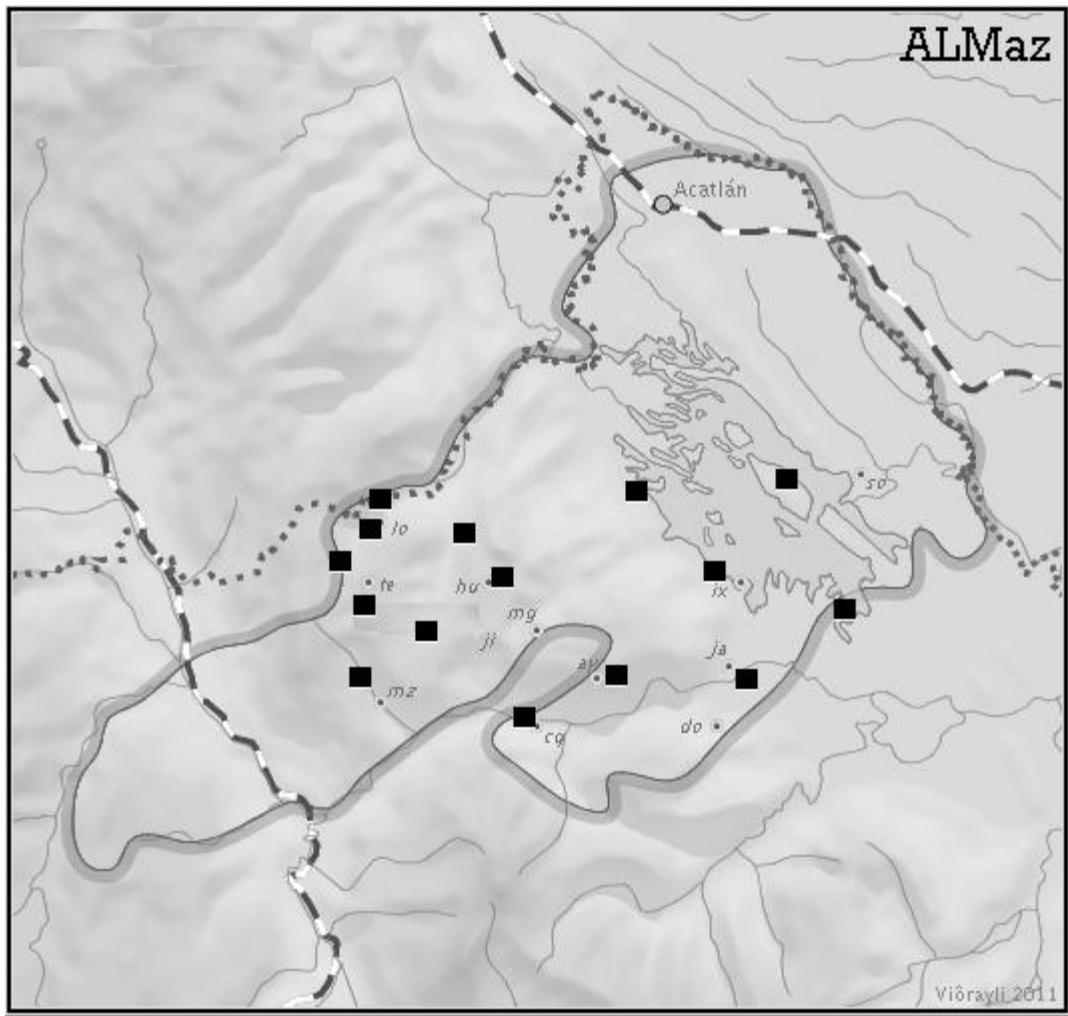
- -32 workshops held from 2010 to 2013, within the MAmP project
- -Almost half of these 32 workshops (13) have been entirely transcribed and compiled within the Cross-mediated Endangered Language Elicitation (EM2) operation. We want to thank the Labex EFL (and the IUF) for their efficient support.
- -The EM2 endeavour has thus contributed to develop an *epistemological (i.e. critical, reflexive) corpus* of lexical and inflectional models for several Mesoamerican languages, in partnership with native speakers.

## 6. Outcome

- -Furthermore, focused on the psychological dimensions of lexis and grammar, the EM2 unravels ideologies such as endangered languages are considered as being passed on through oral tradition, yet many of them are written to a large extent, or have experienced processes of code elaboration (Léonard & al 2013).
- -Literacy is no more the only asset of First World or (inter)national languages, and is a key for efficient revitalization and the promotion of linguistic rights... And practice.

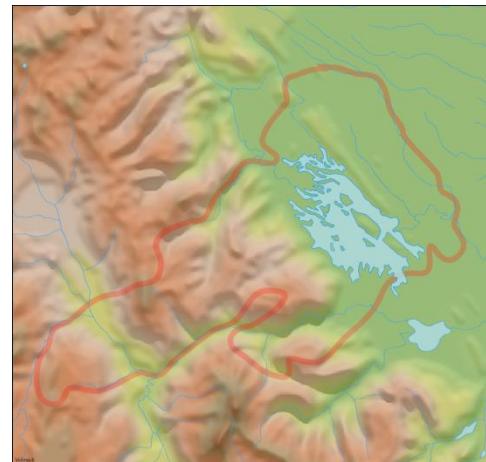
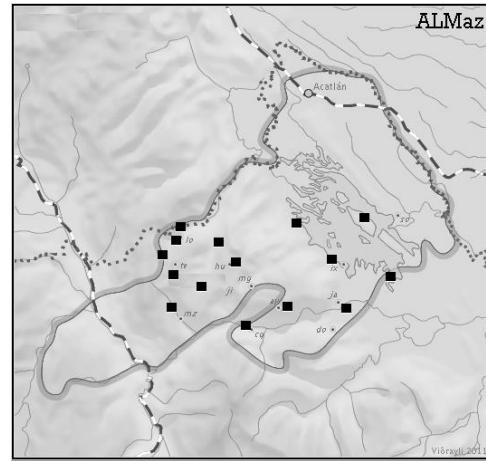
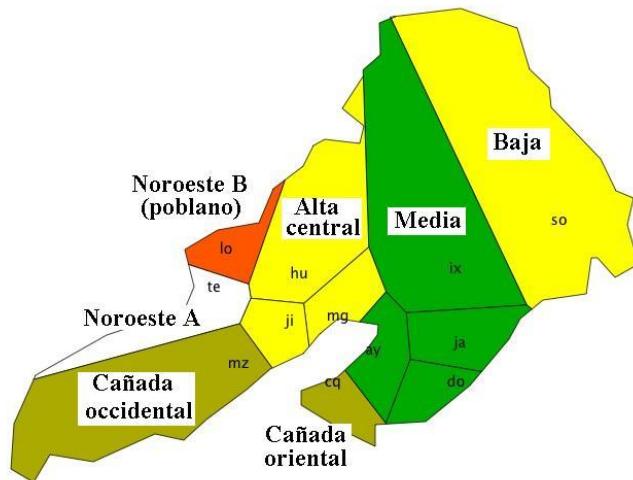
# Appendix

ALMaz

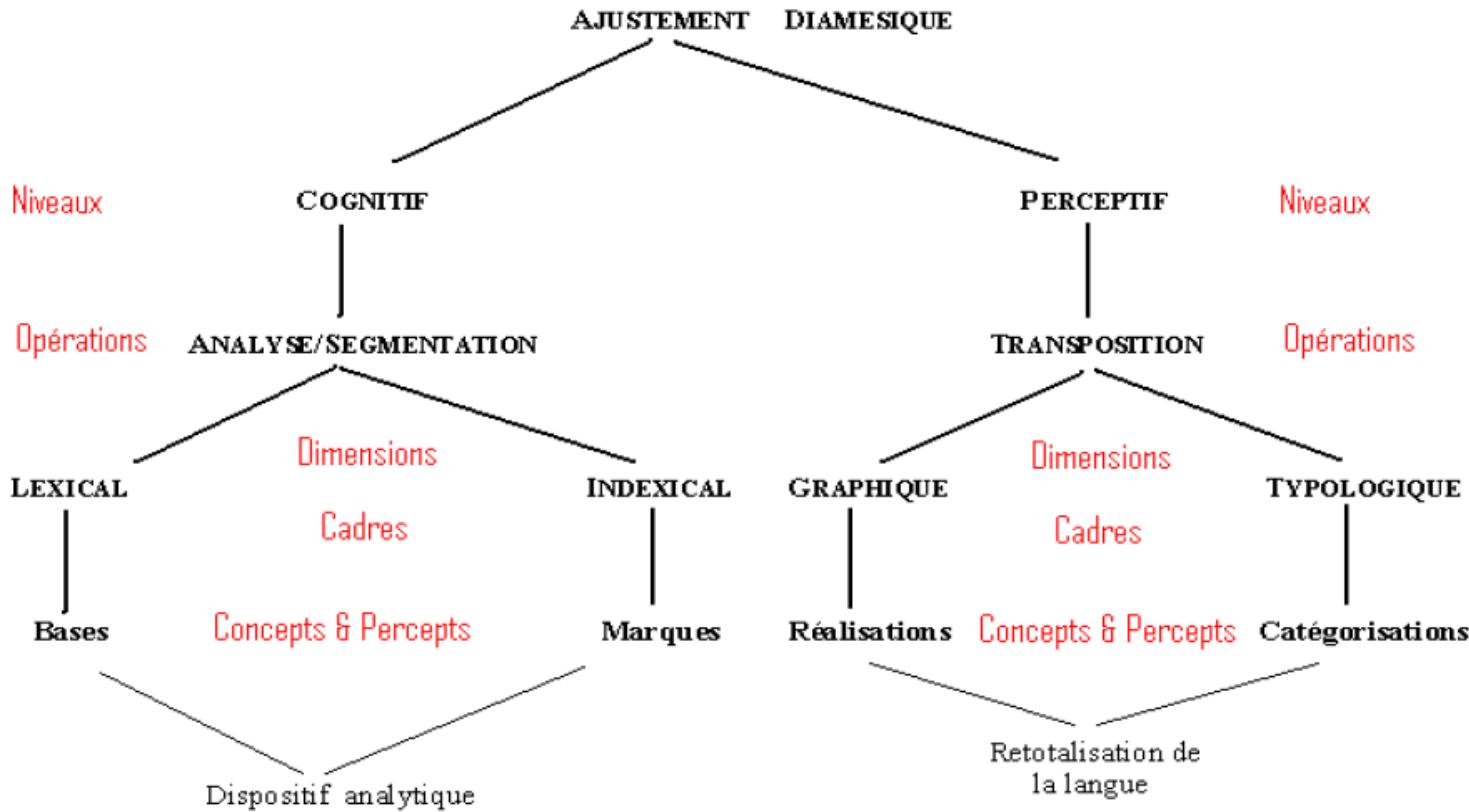


Viñayli 2011

# Couverture des aires dialectales du mazatec par les enquêtes ALMaz



## 5. MODÈLE D'AJUSTEMENT DIAMÉSIQUE



Le modèle *d'ajustement diamésique* (Léonard 2011)

## Application au système des obstruantes sifflantes et chuintantes

TRANSPOSITION	
GRAPHIQUE	TYPOLOGIQUE
<b>Réalisations</b>	<b>Catégorisations</b>
Solutions graphémiques : <i>&lt;ts, ch, z, s, x&gt;</i>	=> système d'obstruantes du mazatec riche en sifflantes, chuintantes et rétroflexes simples et affriquées
- <b>Alignement flottant</b> : <s, st> pour < <u>ts</u> >	- Constituance
- <b>Syncrétisme, convergence</b> : <x, d...> généralisés, pour <ts>	- Généralisation
- <b>Erratisme</b> : notation aléatoire des affriquées autres que <ch>, attestée dans la langue toit/parangon (l'espagnol)	- Contrastés segmentaux entre langue couverte (maz.) et langue couvrante (esp.) sur le plan diglossique
- <b>Interpolation</b> : transfert de constituance par effet de langue-toit/parangon : <ts> maz. => <st, d> esp.	
- <b>Persistance</b> : <sh> pour <x>	- Inertie de solutions graphiques antérieures
- <b>Surmarquage</b> : <z'> pour <x>	- Polarisation & réinterprétation de solutions graphiques

# Le modèle *d'ajustement diamésique* (Léonard 2011)

## Application au système tonal mazatec

VALEUR => TONS PONCTUELS & CONTOURS Soit {QUADRIPARTITION TONALE & CONTOUR}	
TRANSPOSITION	
GRAPHIQUE	TYPOLOGIQUE
Réalisations	Catégorisations
Solutions graphémiques : á, à, a, <u>a</u> áa, <u>aa</u> , etc.	=> 3 ou 4 paliers tonaux Contours, sandhi tonal
- Alignement flottant : contours non discréétisés	- OCP
- Absence, oblitération : tons ponctuels non discréétisé, omission, cumul	
- Erratisme : notation aléatoire	- Discréétude polarisée sur le ton haut
- Interpolation : < á > pour < à, <u>a</u> >, contours notés comme tons simples si contiennent le ton haut, etc.	

# Atelier ALMaz de phonologie diachronique (et de dialectologie) mazatèque (août 2010, Huautla)

## 6. REALITE PSYCHOLOGIQUE DES PHONEMES ET DES TONEMES : L'ATELIER PARTICIPATIF DE DIALECTOLOGIE MAZATEQUE

Nº		Nº Kirk 1966	Etimol.	Maza- tlán	Jalapa	Huautla de J.	Jiotes (Santa Maria)	Soyal- tepec	San Lorenzo
1	quatre	426	*ñunjun	ñunju	ñjun	ñ <u>u</u> n	ñinjun	ñunjún	ñinjin
2	gousse de maïs	329	*ninjin	ninjin	njin	nínjín	ninjin	nínjín	nenjen
3	papier	560	*xujun	xujun	xujun	x <u>u</u> n	xun	xujun	xöjön
4	deux	128	*jau	jo	jo	jau	jo	jó	jwö
5	oisif-	690	*'a	-	'a	'a	-	'a	o
6	dix	570	*te	te	te	te	te	te	ta
7	proche	621	*tyisñaán	tiñan	tiñan	chian	chiñan	tiñaan	chiñon
8	huipil	45	*tsú'ú	ts'u	ts'ú	ts'ú	ts'u	ts'u	tsö'ö

Tableau 5.1. Micro-corpus : du protomazatec à six variétés modernes, d'après les données de Kirk 1966.

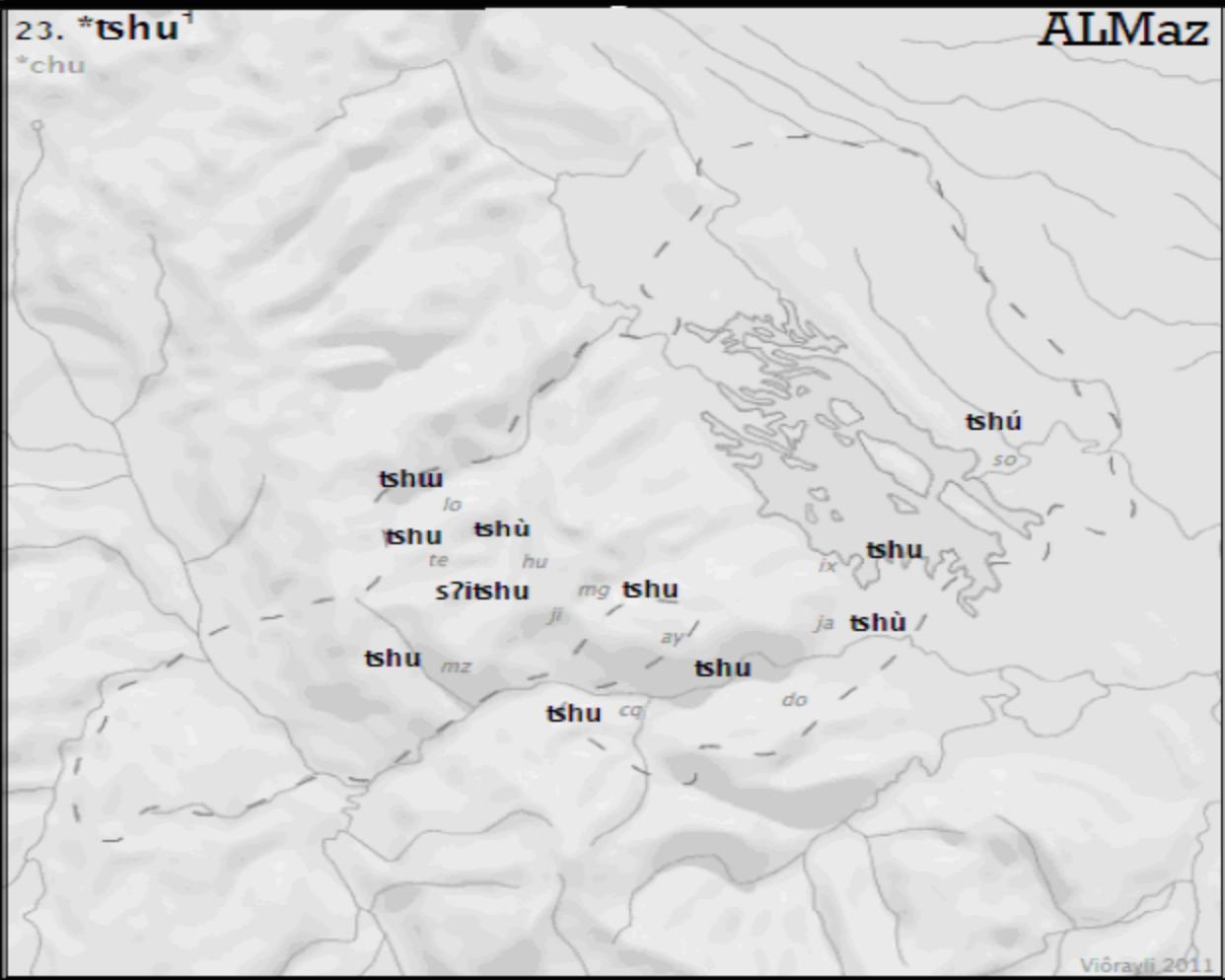
	Nº Kirk	Trad.	Etym.	SanM Soyal.	HTep	Maz.	Maz.	Huautla de Jímenez			
	A	B	C	D	E	F	G	H	I	J	K
1	107	animal	* <u>chu</u>	<i>chu</i>	<i>chu</i>	<i>chu</i>		<i>cho</i>		<i>chó</i>	
2	610	bras, épaule	* <u>tyja</u>	<i>tjiá</i>	<i>tjia</i>	<i>tjia</i>		<i>xja</i>	<i>xja</i>	<i>z'a</i>	<i>xja</i>
3	202	loin	* <u>kjín</u>	<i>kjín</i>	<i>kjin</i>		<i>kjin</i>	<i>kjin</i>		<i>kjin</i>	
4	23	grillé	<u>tsjù</u>	<i>tsju</i>	<i>tsju</i>	<i>tsju</i>		<i>tsjo</i>			<i>tsó</i>
5	271	nopal	<u>nanta</u>	<i>nanda</i>	<i>nanda</i>		<i>nanda</i>	<i>nanda</i>		<i>nanda</i>	
6	392	chemin	* <u>ntiyá</u>	<i>ndiya</i>	<i>ndiá</i>	<i>ndiyá</i>	<i>ndiyá</i>	<i>ndiá</i>	<i>ndiaa</i>		<i>ndia</i>
7	394	fourmi	* <u>nti'yu</u>	<i>ni'yu</i>	<i>niy'u</i>	<i>ninyu</i>	<i>niyu</i>	<i>ni'yo</i>			
8	397	large	* <u>ntuju</u>	<i>ndujú</i>	<i>ndu</i>	<i>ndujú</i>		<i>ndo</i>	<i>ndoo</i>	<i>ndo</i>	
9	406	pierre	* <u>ntyaju</u>	<i>ndiajo</i>	<i>lojo</i>	<i>laju</i>		<i>lajao</i>	<i>lao</i>	<i>lajao</i>	<i>lajao</i>
10	411	feu	* <u>nti'i</u>	<i>ndi'i</i>	<i>l'i</i>	<i>lí</i>	<i>li</i>	<i>li'i</i>	<i>l'i</i>	<i>lií</i>	
11	100	cochon	* <u>chinka</u>	<i>chinga</i>	<i>chinga</i>		<i>chinga</i>	<i>chinga</i>		<i>chinga</i>	<i>chinga</i>

Tableau 5.2. Résultats de l'élicitation par écrit sur posters à partir d'une liste d'étymons de Paul Kirk (1966), atelier de Huautla 2010 (suite)

ALMaz

23. \*tshu<sup>†</sup>

\*chu



Viôrayfi 2011

\***tshu**<sup>H</sup> *p.p.* toasted; tostado ◊ mz **tshu**, ay **tshu**, cq **tshu**, ja **tshù**, hu **tshù**, ji **sitshu**, so **tshú**, ix **tshu**, mg **tshu**, lo **tshw**, te **tshu**

## Comentarios





\***ntsha**/\***ntsa** s. hand; mano ◊ mz  
**ntsha**, mz **ntsa**, ay **ntsha** s. 3s. his/her hand; su mano, ay **ntsa** s. 1s. my hand; mi mano, cq **ntsha** a s. 3s. his/her hand; su mano, cq **ntsa** s. 1s. my hand; mi mano, hu **ntsha**, hu **ntsa**<sup>B</sup>; so **tsha**, so **ntsa**<sup>B</sup>; ix **ntsha** s. 3s. his/her hand; su mano, ix **ntsa? a** s. 1s. my hand; mi mano, lo **tsho** s. 3s. his/her hand; su mano, lo **ntsaha** s. 1s. my hand; mi

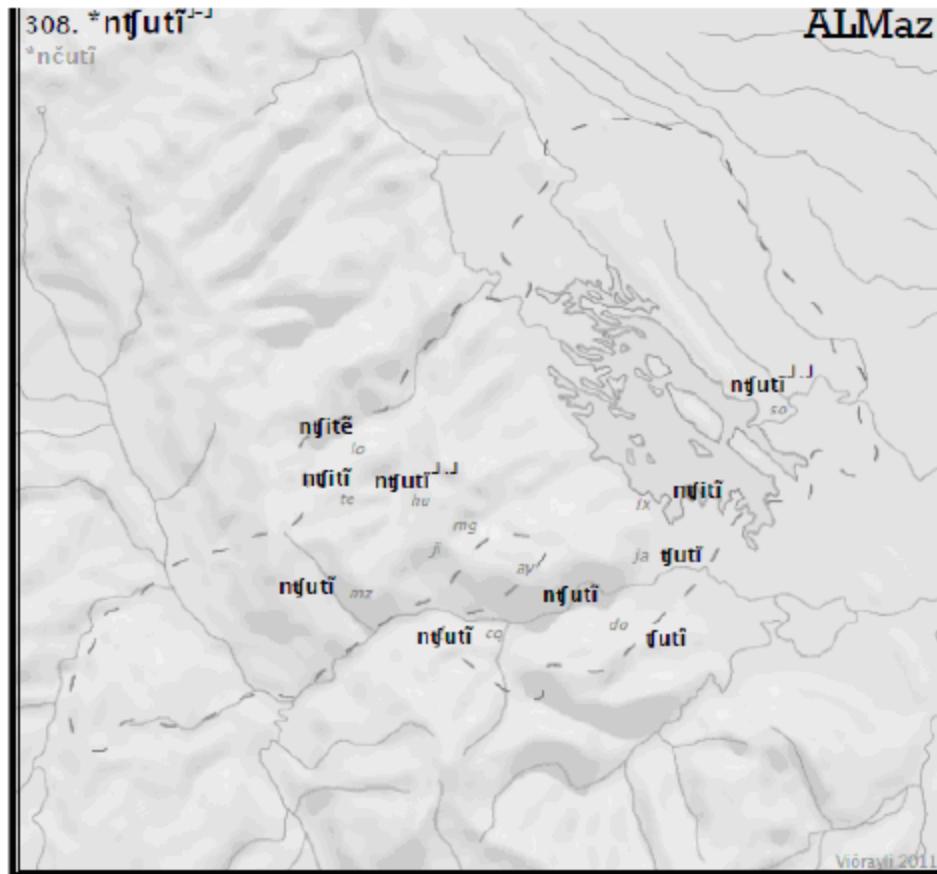
#### Comentarios



Figure 7. « Main », « ma main », « sa main » : contrastes flexionnels de qualité de voix (possession/personne)

	Nº Kirk	Traduc-tion	Etymolo-gie	SanMSOyal.	HTepc	Mazatlán		Huautla de			
	A	B	C	D	E	F	G	H	I	J	K
13	349	menton	*nki'wa	<i>ngui'b<u>a</u></i>	<i>ngi'ba</i>		<i>ngui'ba</i>	<i>ngui'ba</i>		<i>ngui'b<u>a</u></i>	<i>ngui'ba</i>
14	294	bouche	*nts <u>u'</u> wa	<i>ts'u<u>a</u></i>	<i>ndsub'a</i>	<i>tsu'b<u>a</u></i>	<i>tsa</i>	<i>ts'o<u>bá</u></i>	<i>tso'b<u>a</u></i>		<i>ndo 'ba</i>
15	568	chèvre	*téntsu <u>u</u>	<i>tendsu</i>	<i>tindsu</i>	<i>tendsu<u>u</u></i>	<i>tendsú</i>	<i>tindso</i>	<i>tindso<u>u</u></i>		<i>tindso</i>
16	297	atole	*nchajá	<i>nchaja</i>	<i>nchyá</i>	<i>nchajá</i>	<i>nyaja</i>	<i>ncha</i>	<i>nyia</i>		<i>nya</i>
17	308	épis de maïs	*nchutin <u>u</u>	<i>nchutín</i>	<i>nchutin</i>		<i>nyutín</i>	<i>nchotín</i>			<i>nyotín</i>
18	302	nixtamal	*nchě	<i>nche<u>e</u></i>	<i>nyee</i>		<i>nyea</i>	<i>nchee</i>			<i>nyee</i>
19	369	vent	<u>ntjau</u>	<i>tjao</i>	<i>ntjo</i>	<i>t<u>jo</u></i>	<i>ntjo</i>	<i>tjao</i>	<i>ntja<u>o</u></i>		<i>ntjao</i>
20	288	cheveux	*ncha <u>u</u>	<i>tsja<u>u</u></i>	<i>tsja<u>u</u></i>		<i>ntsja</i>	<i>ntsja</i>		<i>nsja</i>	<i>ntsja</i>
21	303	Il/elle parle	*nchja <u>u</u>	<i>tjichja</i>	<i>tichja</i>		<i>tinchja</i>	<i>tjichja</i>		<i>jinchja</i>	<i>tinchja</i>
22	149	salé	*jnty <u>a</u>	<i>ndia</i>	<i>ndia</i>	<i>ndiá</i>	<i>ndia</i>	<i>nra</i>	<i>nrja</i>	<i>nrja<u>a</u>, njra</i>	<i>nra</i>
23	143	aile	*jnka <u>u</u>	<i>tjiunga<u>u</u></i>	<i>ngà</i>	<i>langa</i>	<i>langa</i>	<i>nga</i>	<i>ng'a</i>	<i>ngaa, njga</i>	<i>nga</i>
24	523	adobe	*xi'n <u>te</u> (adobe)	<i>xinde<u>e</u></i>	<i>xind'e</i>	<i>xindie<u>e</u></i>	<i>xinde</i>	<i>xinde</i>	<i>xi'nde<u>e</u></i>	<i>rinde, xinde</i>	<i>xinde</i>
25	709	haut	*'n <u>ka</u>	<i>k'a</i>	<i>nk'a</i>		<i>nga</i>	<i>jnga</i>		<i>nga</i>	<i>n'ga</i>
26	705	mouillé	*'n <u>chi</u>	<i>nchi</i>	<i>ny'i</i>		<i>nyi</i>	<i>nchji</i>		<i>nchyi, nyi</i>	<i>nyi</i>
27	485	poisson	*st <u>i</u>	<i>ti</i>	<i>ti<u>i</u></i>		<i>ti</i>	<i>jti</i>		<i>dji<u>i</u>, jti</i>	<i>jti</i>

Tableau 5.3. Résultats de l'élicitation par écrit sur posters à partir d'une liste d'étymons de Paul Kirk (1966), suite.



\**nfutí*<sup>B-B</sup> s. corn on the cob; elote ♀ mz  
*nfití*, ay *nfití*, cq *nfití*, ja *gutí*, do  
*gutí*, hu *nfití*<sup>B-B</sup>, so *nfití*<sup>B-B</sup>, ix *nfití*, lo  
*nfité*, te *nfití*

Comentarios



Figure 8. Ton bas à plateau, affriquée palatale prénasalisée

# Ateliers d'écriture et d'élaboration de matériaux pédagogiques (ALMaz, 2010-2012)

Tiempo presente		
Yo	<i>Nantsé ña an b'ajmenguiña jno, kjine ña nyitin, xka ko zanahoria. Nga bena chjita b'ena tjo mangatjenguina koa sitoka tjenguina nañale, tsakie ijona, naxí fisenguia tsokjonle chjita nga skinena.</i>	Yo soy un conejo que anda en las milpas, como elotes, hojas y zanahoria. Cuando me ven las personas me balacean, me corretean y me echan los perros, le gusta mi carne, me meto debajo de las cuevas, me da miedo las personas no quiero que me coman.

Tú	<p><i>Natsé ni jí bitojmenguini jno chinení nyitín, xka ko zanahoria.</i></p> <p><i>Nga belí chjita b'eli tjo mangatjenguili koa sitokatjenguili nañale, tsakie ijoli, naxí misenguí, biskonlí chijta nga skinelí.</i></p>	<p>Tú eres un conejo andas en las milpas comes elotes, hojas y zanahoria. Cuando te ven las personas te disparan, te corretean y te echan los perros, le gusta tu carne, te metes en las cuevas, te da miedo de las personas no quiero que te coman.</p>
Nosotros	<p><i>Natsé nia jña bimanguña jno chineña nyitín, xka ko zanahoria.</i></p> <p><i>Nga bená chjita b'ena tjo, mangatjenguina koa sikanga tjenguina nañale, tsakie ijona naxí mangasenguía, biskonle chjita nga skinena.</i></p>	<p>Somos unos conejos, andamos bajo la milpa, comemos elotes, hojas y zanahoria. Cuando nos ven las personas nos disparan a balazos, nos corretean y nos echan a los perros, le gusta nuestra carne, nos metemos en las cuevas, nos da miedo de las personas a que nos coman.</p>

Tableau 6. Prosopopée du lapin, atelier de San Antonio Eloxochitlán, septembre 2011  
 (transcription Karla Janiré Avilés González, Labex EFL, 7-EM2, 2013)

## 7. Réalité psychologique des Morphèmes (et des ... « Flexèmes ») : les ateliers participatifs de Grammaire mazatèque (ALMaz, octobre 2012, San Mateo et Huautla)

						barrer
An	Batechá	Tibatechá	Kabatechá	Tsakatechá	Tsakatechatsakae	Kuatechá
Ji	Batechai	Tibatechai	Kabatechai	Tsakatechai	Tsakatechaitsakae	Kuatechai
Jé	Batécha	Tíbatécha	Kabatécha	Tsakatécha	Tsakatéchatsakae	Kuatécha
Ñá	Batechaá	Tibatechaá	Kabatechaá	Tsakatechaá	Tsakatechaátsakae	Kuatechaá
Jin	Batechajin	Tibatechajin	Kabatechajin	Tsakatechajin	tsakatechajintsakae	kuatechajin
Jón	batechao	Tibatechao	Kabatechao	Tsakatechao	Tsakatechaotsakae	kuatechao
Jé	bátécha	tjíobatécha	kabatécha	tsakatécha	tsakatéchatsakae	Kuatécha
	barrer					
					Hacer lumbre	
An	B'etse	Tib'etse	Kab'etse	Tsak'etse	Tsak'etsetsakae	K'uetse
Ji	B'etsai	Tib'etsai	Kab'etsai	Tsak'etsai	Tsak'etsaitsakae	K'uétsai
Jé	B'étse	Tib'étse	Kab'étse	Tsak'étse	Tsak'étsetsakae	K'uetse
Ñá	B'etseeé	Tib'etseeé	Kab'etseeé	Tsak'etseeé	Tsak'etseeétsakae	K'uétseeé
Jin	B'etsaijin	Tib'etsaijin	Kab'etsaijin	Tsak'etsaijin	Tsak'etsaijintsakae	K'uetsaijin
Jon	B'etsao	Tib'etsao	Kab'etsao	Tsak'etsao	Tsak'etsaotsakae	K'uetsao
Jé	B'étse	Tjíob'étse	Kab'étse	Tsak'étse	Tsak'étsetsakae	K'uetse

Tableau 7.1.

Modèle de Juan Casimiro Nava (Huautla, 2010)

**Classe A**

<b>Clase A Barrer</b>	<b>Habitual (asp. Neutro)</b>	<b>Actual (progresivo)</b>	<b>Cercano (completivo 1)</b>	<b>Remoto (completivo 2)</b>
1sg. <i>an</i>	<i>batechá</i>	<i>tibatechá</i>	<i>kabatechá</i>	<i>tsakatechá</i>
2sg. <i>ji</i>	<i>batechai</i>	<i>tibatechai</i>	<i>kabatechai</i>	<i>tsakatechai</i>
3sg. <i>jé</i>	<i>batécha</i>	<i>tíbatécha</i>	<i>kabatécha</i>	<i>tsakatécha</i>
1pl.incl. <i>ñá</i>	<i>batechaá</i>	<i>tibatechaá</i>	<i>kabatechaá</i>	<i>tsakatechaá</i>
1pl.excl. <i>jín</i>	<i>batechaijín</i>	<i>tibatechajín</i>	<i>kabatechajín</i>	<i>tsakatechajín</i>
2pl. <i>jón</i>	<i>batechao</i>	<i>tibatechao</i>	<i>kabatechao</i>	<i>tsakatechao</i>
3pl. <i>jé</i>	<i>batécha</i>	<i>tjíobatécha</i>	<i>kabatécha</i>	<i>tsakatécha</i>

Tableau 7.1.

Modèle de Juan Casimiro Nava (Huautla, 2010)

**Classe B**

<b>Clase B Alumbrar</b>	<b>Habitual (asp. Neutro)</b>	<b>Actual (progresivo)</b>	<b>Cercano (completivo 1)</b>	<b>Remoto (completivo 2)</b>
1sg. -an	<i>b'etse</i>	<i>tib'etse</i>	<i>kab'etse</i>	<i>tsak'etse</i>
2sg. -ji	<i>b'etsai</i>	<i>tib'etsai</i>	<i>kab'etsai</i>	<i>tsak'etsai</i>
3sg. -jé	<i>b'étse</i>	<i>tib'étse</i>	<i>kab'étse</i>	<i>tsak'étse</i>
1pl.incl. -ñá	<i>b'etseeé</i>	<i>tib'etseeé</i>	<i>kab'etseeé</i>	<i>tsak'etseeé</i>
1pl.excl. -jin	<i>b'etsaijin</i>	<i>tib'etsaijin</i>	<i>kab'etsaijin</i>	<i>tsak'etsaijin</i>
2pl. -jón	<i>b'etsao</i>	<i>tib'etsao</i>	<i>kab'etsao</i>	<i>tsak'etsao</i>
3pl. -jé	<i>b'étse</i>	<i>tjíob'étse</i>	<i>kab'étse</i>	<i>tsak'étse</i>

Tableau 7.1.

Modèle de Juan Casimiro Nava (Huautla, 2010)

**Classe C**

<b>Clase C</b> <b>Banarse</b>	Habitual (asp. Neutro)	Actual (progresivo)	Cercano (completivo 1)	Remoto (completivo 2)
1sg. - <i>an</i>	<i>bangoya</i>	<i>tibangoya</i>	<i>kabangoya</i>	<i>tsakangoya</i>
2sg. - <i>ji</i>	<i>bindoyai</i>	<i>tibindoyai</i>	<i>kabindoyai</i>	<i>tsakindoyai</i>
3sg. - <i>jé</i>	<i>bangoya</i>	<i>tibangoya</i>	<i>kabangoya</i>	<i>tsakangoya</i>
1pl.incl. - <i>ñá</i>	<i>bindoyaá</i>	<i>tíbindoyaá</i>	<i>kabindoyaá</i>	<i>tsakindoyaá</i>
1pl.excl. - <i>jin</i>	<i>bindoyaijin</i>	<i>tibindoyaijin</i>	<i>kabindoyaijin</i>	<i>tsakindoyaijin</i>
2pl. - <i>jón</i>	<i>bindoyao</i>	<i>tibindoyao</i>	<i>kabindoyao</i>	<i>tsakindoyao</i>
3pl. - <i>jé</i>	<i>bangóya</i>	<i>tjíobangóya</i>	<i>kabangóya</i>	<i>tsakangóya</i>

Tableau 7.1.

Modèle de Juan Casimiro Nava (Huautla, 2010)

**Classe D**

<b>Clase D</b> <b>Bailar</b>	<b>Habitual</b> (asp. Neutro)	<b>Actual</b> (progresivo)	<b>Cercano</b> (completivo 1)	<b>Remoto</b> (completivo o 2)
1sg. -an	<i>tée</i>	<i>titée</i>	<i>katée</i>	<i>kitée</i>
2sg. -ji	<i>chái</i>	<i>tichái</i>	<i>kachái</i>	<i>kichái</i>
3sg. -jé	<i>té</i>	<i>tité</i>	<i>katé</i>	<i>kité</i>
1pl.incl. -ñá	<i>chá</i>	<i>tichá</i>	<i>kachá</i>	<i>kichá</i>
1pl.excl. -jin	<i>cháijin</i>	<i>ticháijin</i>	<i>kacháijin</i>	<i>kicháijin</i>
2pl. -jón	<i>cháo</i>	<i>ticháo</i>	<i>kacháo</i>	<i>kicháo</i>
3pl. -jé	<i>té</i>	<i>tjíoté</i>	<i>katé</i>	<i>kité</i>

Tableau 7.1.

Modèle de Juan Casimiro Nava (Huautla, 2010)

**Classe E**

<b>Clase E</b> <b>Trabajar</b>	Habitual (asp. Neutro)	Actual (progresivo)	Cercano (completivo 1)	Remoto (completivo 2)
1sg. -an	<i>sixá</i>	<i>tisixá</i>	<i>kasixá</i>	<i>kisixá</i>
2sg. -ji	<i>nixái</i>	<i>tinixái</i>	<i>kanixái</i>	<i>kinixái</i>
3sg. -jé	<i>síxá</i>	<i>tísíxá</i>	<i>kasíxá</i>	<i>kisíxá</i>
1pl.incl. -ñá	<i>nixá</i>	<i>tinixá</i>	<i>kanixá</i>	<i>kinixá</i>
1pl.excl. -jin	<i>nixájjin</i>	<i>tinixájjin</i>	<i>kanixájjin</i>	<i>kinixájjin</i>
2pl. -jón	<i>nixáo</i>	<i>tinixáo</i>	<i>kanixáo</i>	<i>kinixáo</i>
3pl. -jé	<i>síxá</i>	<i>tjíosíxá</i>	<i>kasíxá</i>	<i>kisíxá</i>

Tabla 7.2. Classes flexionnelles du verbe mazatec de Huautla, selon Juan Casimiro Nava (remanié)

	Présent	Futur	Prétérit
A	<b><i>wa-</i></b>	<b><i>kua-</i></b>	<b><i>tsa-ka-</i></b>
B	<b><i>we-</i></b>	<b><i>ku-</i></b>	<b><i>tsa-kV-</i></b>
C1	<b><i>wa-</i></b>	<b><i>kua-</i></b>	<b><i>tsa-ka-</i></b>
C2	<b><i>wi-</i></b>	<b><i>kui-</i></b>	<b><i>tsa-ki-</i></b>
D1	<i>Radical_1</i>	<i>(j)-Radical_1</i>	<i>ki- Radical_1</i>
D2	<i>Radical_2</i>	<i>j- Radical_2</i>	<i>ki- Radical_2</i>
E1	<i>si-</i>		<i>ki-si-</i>
E2	<i>ni-</i>		<i>ki-ni-</i>