

## Anatolian

Class 1: The Anatolian language family



#### Roadmap

- Class 1:
  - Anatolian languages and their sources
  - The Anatolian family tree
  - Anatolian in the Ancient Near East context

- Class 2: Phonetics and phonology
- Class 3: Morphology
- Class 4: Syntax

# Anatolian languages and their sources





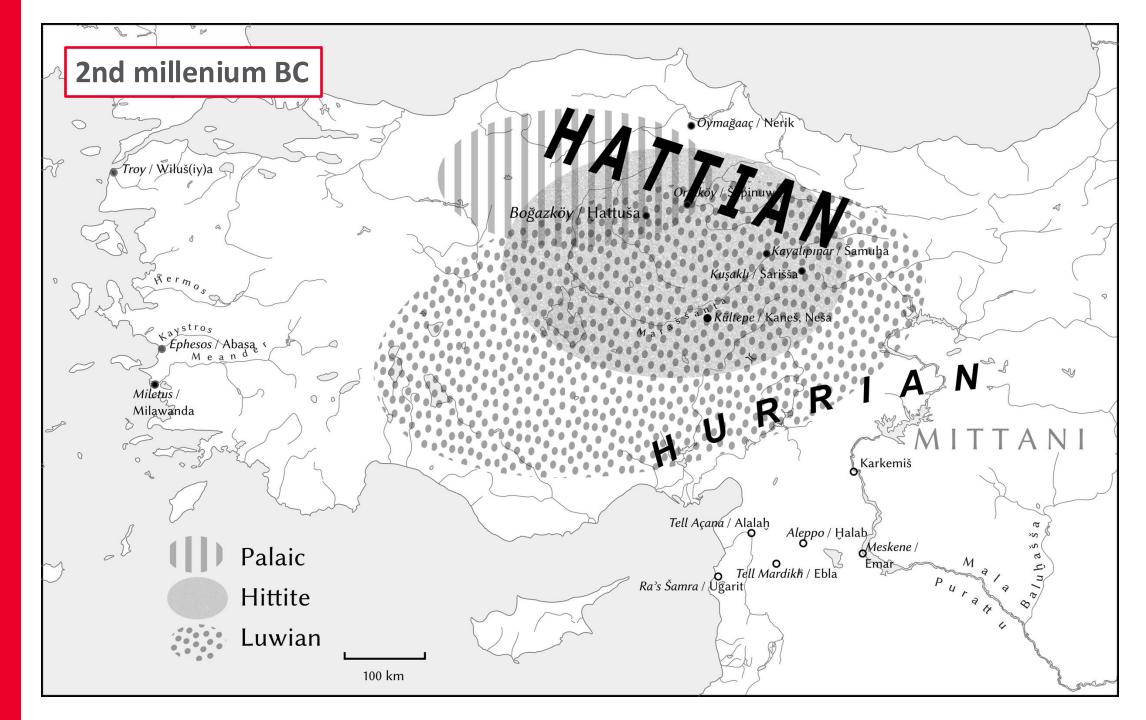
#### **Anatolian languages**

- Separate branch of the Indo-European language family, possibly the first to split off;
- Routinely divided into languages attested in the 2<sup>nd</sup> millennium BC and languages attested in the 1<sup>st</sup> millennium BC.

2nd millenium B.C.: Hittite, Palaic, Luwian, Kalasmaic?

1st millenium B.C: Lycian, Lydian, Carian, Sidetic, Pisidian







- Egyptian sources: interactions with a population named called Ht
- **Biblical** sources: reference to the *hittîm* people

#### 1902

Knudtzon et al. identify as IE the unknown language of the land of **Arzawa** in the archives of **Amarna** 

```
1 [u]m-ma ¹ni-mu-ut¹)-ri-ia šarru rabû šàr mātu mi-iṣ-ṣa-ri
2 [a]-na ¹tar-ḥu-un-da-ra-ba²) šàr (mātu ar-za-wa³) ki-bí-ma
3 kat⁴)-ti-mi dmq-in bit·zun-mi ⁵) dam·meš-mi ⁵) tur·meš-mi
4 amēlu·meš gal·gal-aš ⁵) zab·meš-mi ⁵) imēru kúr·ra·zun-mi
5 bi-ib ⁶)-bi-it-mi ⁵) kúr·kúr·zun-mi ˀ) kán an-da
6 ḥu-u-ma-an dmq-in
```



excavations by Winckler and Makridi in **Boğazköy** (nowadays Boğazkale) reveal the city of **Hattusa** with its archive of over 30.000 frgms of **cuneiform tablets** 

1902

1905



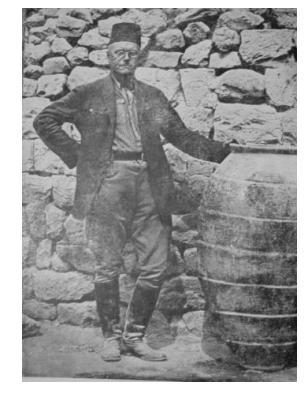




decipherment by Czech linguist **Bedřich Hrozný** 

Hrozný, Bedřich. 1915. Die Lösung des hethitischen Problems. *MDOG* 56: 17–50.



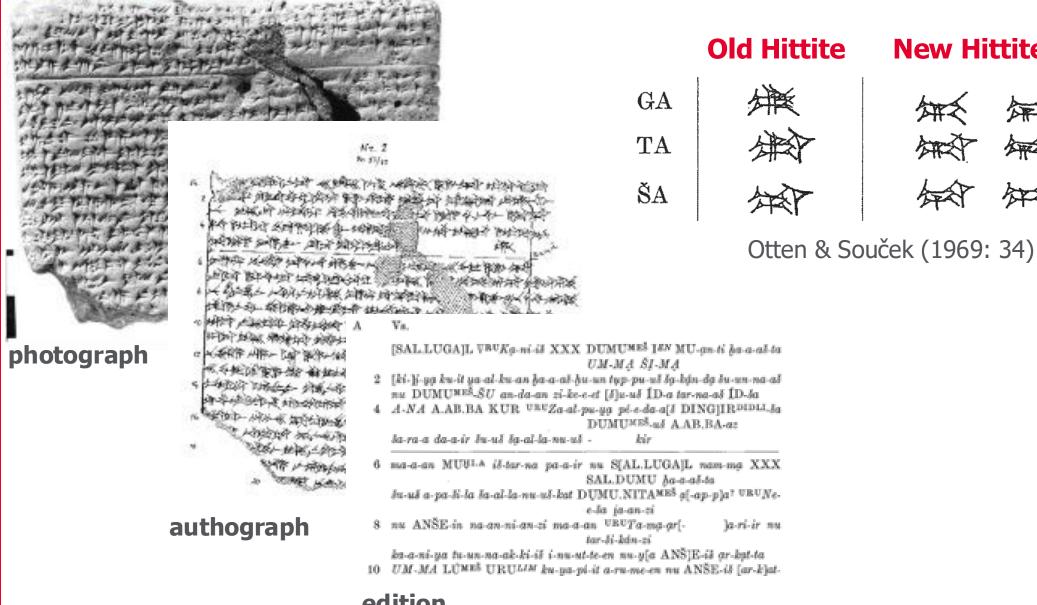


Bedřich Hrozný (1879-1952)

When and where did the Hittite learn to write?

Cuneiform script (Old Babylonian) via northen Syria (van den Hout 2021, Klinger 2022)





**New Hittite** 

#### edition

#### **Hethitologie Portal Mainz**

https://www.hethport.uni-wuerzburg.de



#### 2nd mill. languages: Hittite

- 'Official' language of the Kindgom of Hatti (De Martino 2022)
- Best preserved language in terms of corpus size
- Chronology: **Old Hittite** (17th/16th cent. 1500), **Middle Hittite** (ca. 1500–1375) and **Neo-Hittite** (ca. 1375–1200)
- Dialectal split?
  - Hattusa Hittite (Nešili `language of Neša' = Kaneš)
  - Kanišite Hittite: Hittite onomastics in the Assyrian texts found in Kaneš (Kloekhorst 2019 vs. Yakubovich 2020), already 18th cent.



#### 2nd mill. languages: Palaic

- Hitt. *palaumnili-* 'language of the land of Pala' (Laws)
- Dating (uncertain): 16th-13th cent.?
- Writing: Hittite cuneiform syllabary with additional sign for <f>
- Only 12 known texts: Palaic exceprts in Hittite liturgical texts (e.g. Hattian god *Zaparfa*)



#### 2nd mill. languages: Luwian

Hitt. *luwili-* 'in the language of Luwiya' (Laws)

#### 'Cuneiform' (Kizzuwatna) Luwian

- Luwian variety attested already in Kaneš (names) in the 18th cent.
- Loans and textual excerpts within Hittite religious texts (16th-15th centuries, copied until 13th cent.)

#### 'Hieroglyphic' (Empire and Iron Age) Luwian

- Luwian variety attested in stone inscriptopns (ca. 260) and seals in a native hyeroglyphic script
- 15th-14th cent. on seals, 13th-7th cent. on inscriptions



## **Hieroglyphic Luwian**

ALEPPO 1



https://libdigitalcollections.ku.edu.tr/digital/collection/GHC/id/1784



1812

Swiss scholar J.L. **Burckhardt** reports carved stone blocks in the **Syrian** city of Hama

**NB**: Cuneiform Luwian recognized as distinct from Hittite already by Forrer (1919)



**1812 1876** 

A.H. **Sayce** identified the Hama iscriptions with the **Hittites** 



1812 1876 1900s'

**L. Messerchmidt** publishes a number of inscriptions and seals



1812 1876 1900s' 1930s'

Several **partial decipherment** attempts by Gelb, Forrer, Bossert, Hronzy and Meriggi





Discovery of the **Karatepe** bilingual (Luwian/Phoenician)





E. **Laroche** publishes *Les*hiéroglyphes hittites providing the first official sign list

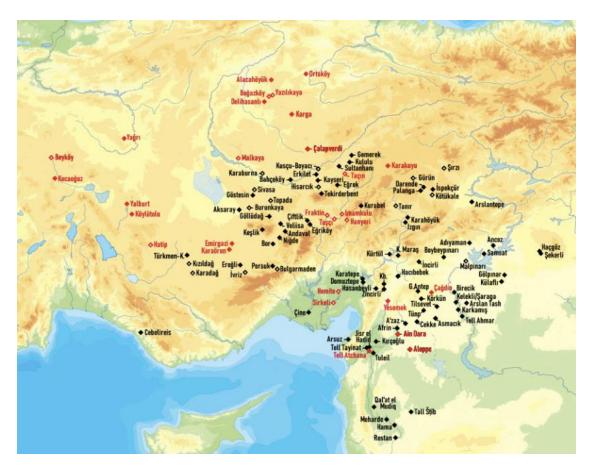




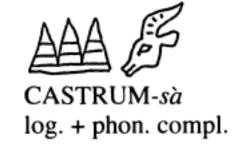
J.D. Hawkins, A. Morpurgo Davies and G. Neumann propose a number of 'new readings' for individual signs

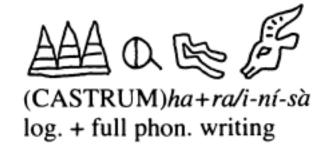


## Hieroglyphic luwian



CASTRUM log.





(Payne 2010: 7)

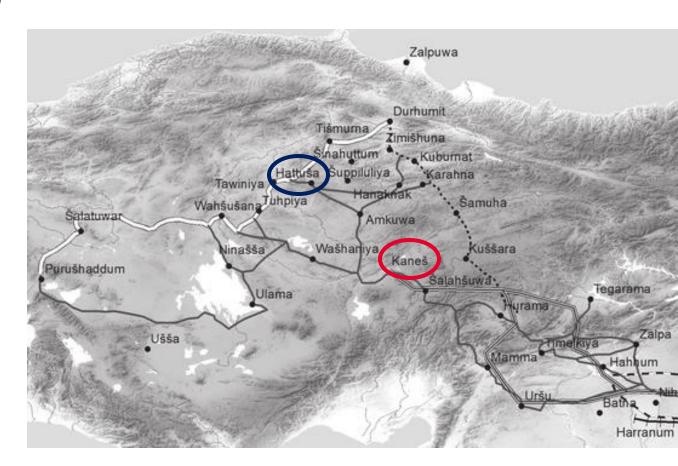
https://www.hittitemonuments.com/



#### **How old are Hittite and Luwian?**

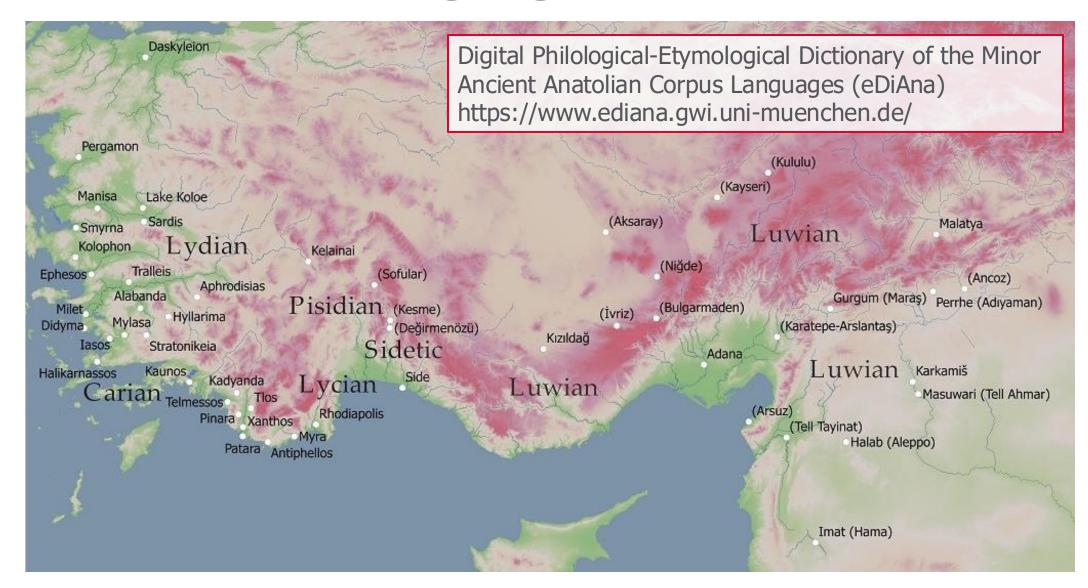
Kaneš (or Neša) was a *kārum* = Assyrian trading colony (20th-18th sec)

- Hittite (Kanišite per Kloekhorst 2019) and Luwian proper names
- Hitt. išhiul `treaty' > Akk.
   išhiullum
- Luw. tarkummai- 'report' >
   Akk. targumannum
   'translator'





#### 1st millenium languages





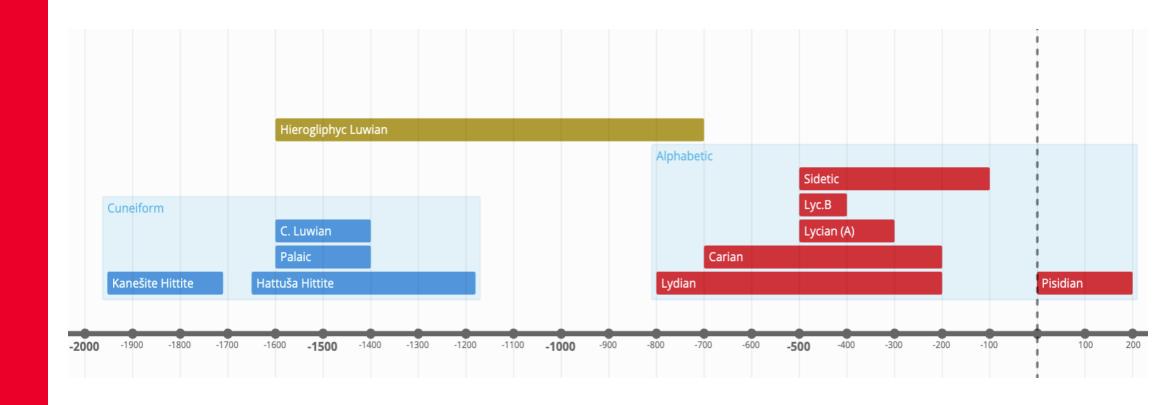
#### 1st millenium Luwic languages

→ group of longer attestation: 16th BC > 2nd AD

- Lydian: 7th-3rd cent., various inscriptions
- Carian: 7th-3rd cent., ca. 200 inscriptions (even in Egypt!)
- Lycian (A): 5th-4rd cent., 176 inscriptions
- Mylian (Lycian B): 5th cent., 2 texts (w. dialectal differences)
- Sidetic: 5th-2nd cent. V-II sec., various inscriptions
- Pisidian: 1st-2nd cent. AD, 21 funerary inscriptions



## **Anatolian languages and scripts**



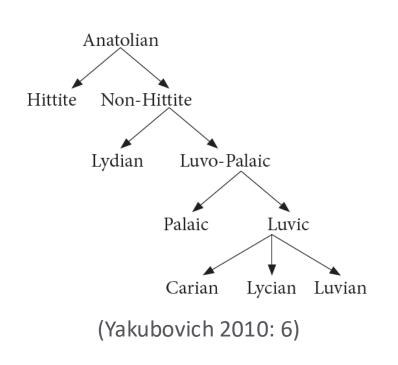
# UNIVERSITÀ DI TORINO

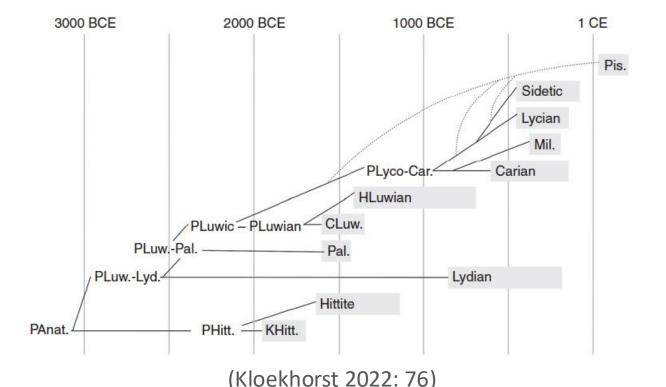
# The Anatolian family tree



## The Anatolian language family

"There is no question that we can start from the basic assumption that the attested Anatolian languages go back to a **common ancestor**, **Common Anatolian**, that must be reconstructed as an intermediate step between Proto-Indo-European and the Anatolian daughter languages." (Rieken 2017: 299)







#### Hittite vs. Luwic: phonetic and morphology

• Proto-Anatolian (PAnat.) \*k > PLuwic  $*y>\emptyset$ 

PAnat. \*késr- 'hand'

> Hitt. keššar, HLuw. istri, Lyc. izri-

PAnat. NOM.PL \*-es > PLuwic\*- Vns-i

Hitt. -*eš* vs. CLuw. - *Vnzi* /-Vntsi/, HLuw. -*V-zi* /-Vntsi/, Lyc. -*i* (< \*-*insi*), -*ẽi* (< \*-*onsi*), -*ãi* (< \*-*ānsi*)



## Hittite vs. Luwic: syntax (possession)

#### **Hittite**

DUMU<sup>MEŠ</sup>-an parna

son.GEN.PL house.ALL

'to the house of the sons'

#### Luwian

tatarriyamna kuwar-ašša{n}

curse.N/A.N.PL army-ADJ.POSS-N/A.N.PL

'the curses...of the army'

#### **Adjectival gentives**

PAnat.\*-oso/i-

CLuw. -ašša/i-

HLuw. -asa/i-

Lyc. -ehe/i-

Mil. -ehe/i-

Car. -š (?)

Sid. -asV

Pis. -s (?)



#### **Geneaolgy vs. contact**

"Clear evidence has accumulated in the past decade that convergence leading to Sprachbundtype phenomena played a great role in the development of the Anatolian languages."

(Rieken 2017: 298)

**Criterium**: creation of new affixal morphology (Rieken 2017)

Genealogical tree vs. dialect continuum with varying isoglosses (Melchert 2017)



#### **Hittite & Luwian: prehistorical contacts**

Hittite and Luwian coexist since a period predating the

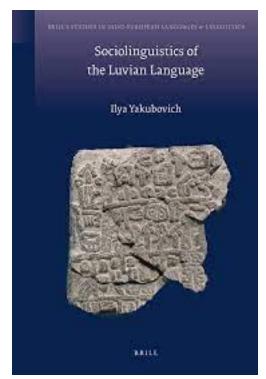
earliest attestations:

The reflexive particle = za

PIE \*toi > Hitt. \*te

PIE \* toi > Luw.  $ti \rightarrow$  Hitt. =z(a)

"the symbiosis of the Luvians and the Hittites in central Anatolia [is] attested throughout most part of the second millennium BC." (Y. 2010: 299)



Yakubovich 2010



#### **Hittite & Luwian: historical contacts**

«In 14th-century Hattusa, Hittite functioned as the **official written language** in most situations, while its use in oral discourse conveyed the connotations of **authoritative speech**...The Hittite elites apparently began to perceive Luvian not as a regional dialect of some prestige, but rather as a **vernacular** used by the common people in Hattusa.» (Yakubovich 2010: 301-302)

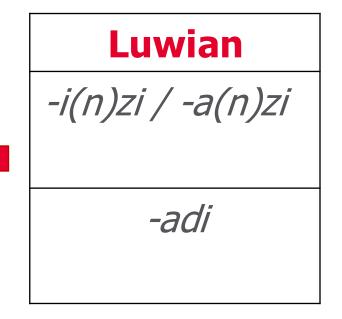
#### **Evidence:**

- (i) increase of Luwian proper names in Hititte texts
- (ii) grammatical influence?



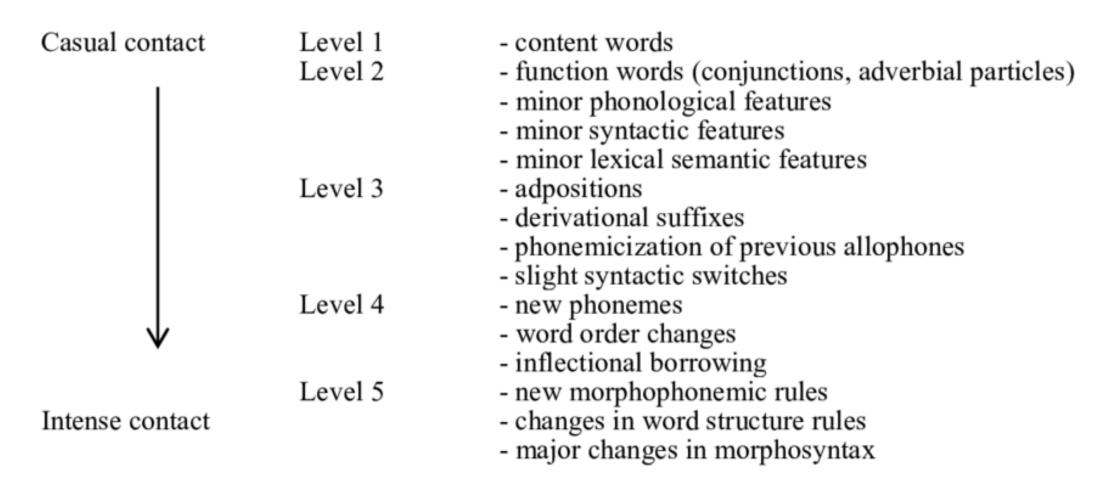
#### **Grammatical contact Luwian > Hittite**

Case	OH: plural	NH: plural
NOM.C	-eš	-eš, -uš, -aš
ACC.C	-uš	-eš, -uš, -aš
ABL.	<i>-az, -za</i>	-az, -za
INS.	-it, -d/ta	





## The 'borrowability' scale



from Thomason & Kaufmann 1988



# Anatolian and Indo-European



#### Hittite as an Indo-European language

#### Lexicon

- nepiš'sky' = Ved. nábhas, Gk. néphos'cloud'
- kuiš 'who?' = Lat. quis, Gk. tís 'someone', Av. ciš, Got. hwas (ing. who)
- ēšzi`is' = Ved. ásti, Gr. estí, Lat. est, Lit. esti

#### **Morphology**

• NOM.PL  $-e\check{s} = \text{Ved.} -as$ , Gk. -es, Lat. -es



#### IE syntax: Wackernagel's law

```
1) tám te hinvanti

DEM.ACC 2SG.DAT drive.PRS.3PL

'This one they push for you.' (RV 3.46.5)
```

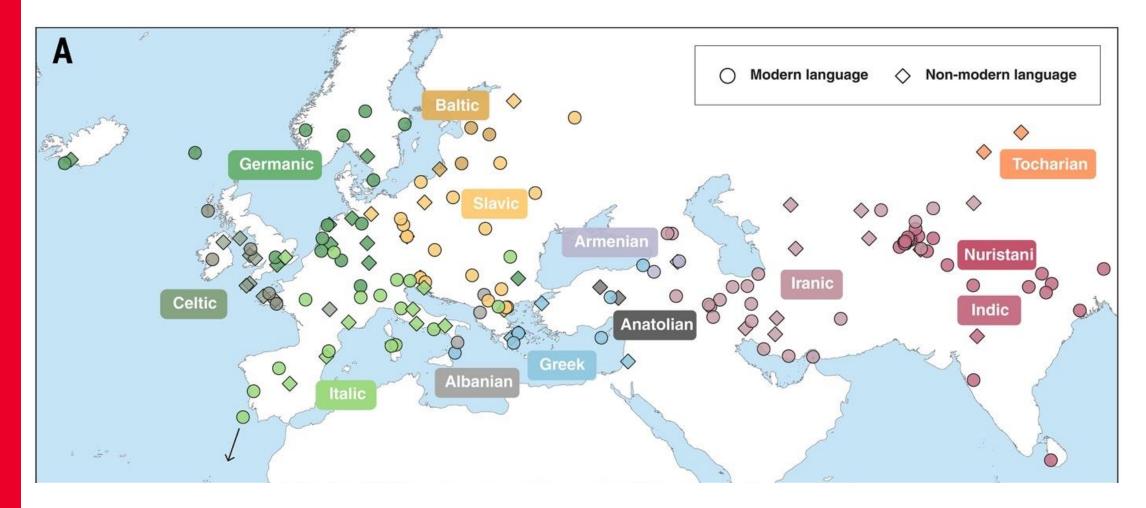
- 2) *liēn se* páros g' oút' eíromai

  ADV 2SG.ACC formerly PTC NEG ask.PRS.1SG.M/P

  'In the past I have not been accustomed to inquire you.' (*Il.* 1.553)
- 3) piran=ma=at=mu  $mD30^DU-aš$  DUMU mZida maniyahhiškit before=CONN=3SG.ACC=1SG.OBL A.NOM child Z. administer.ITER.PST.3SG `Before me Armadatta, the son of Zida, had administered it' (KUB 1.1 i 28)

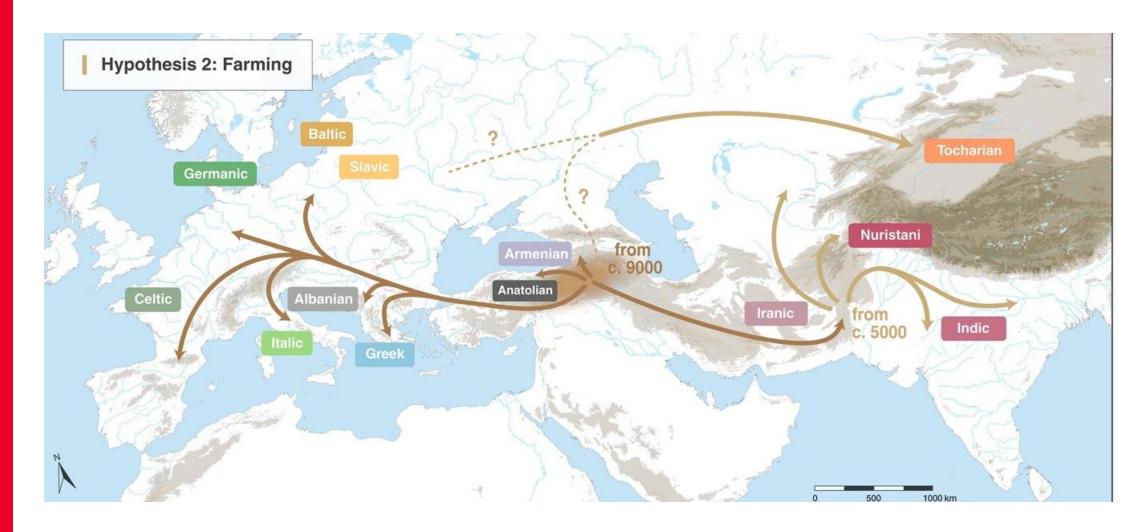


## The Indo-European (IE) language family



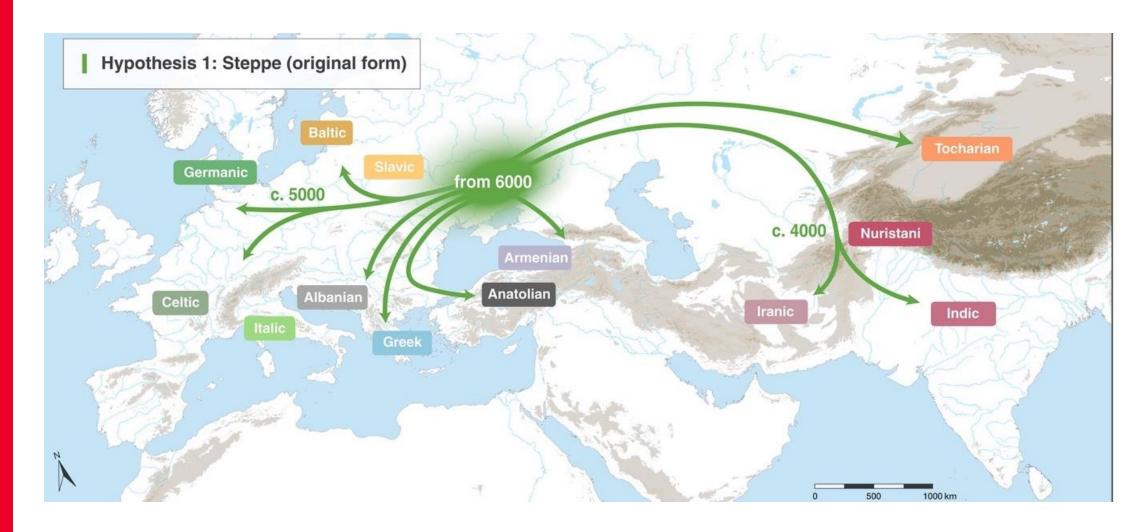


### Anatolian and the homeland of IE Igs



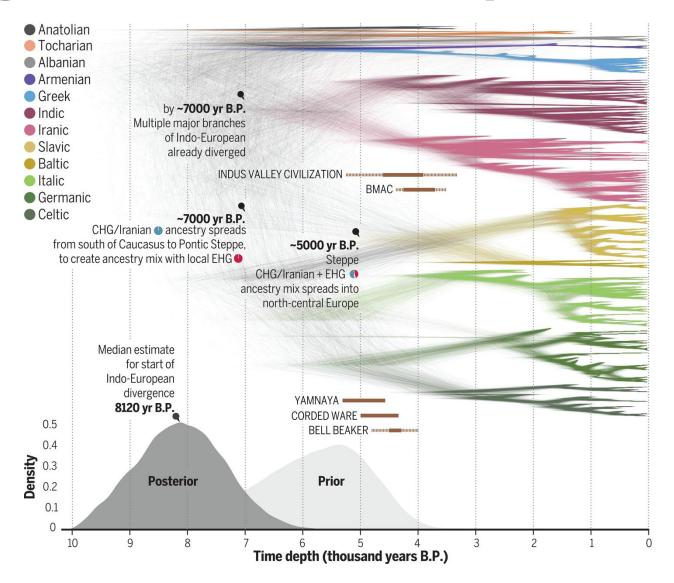


## Anatolian and the homeland of IE Igs





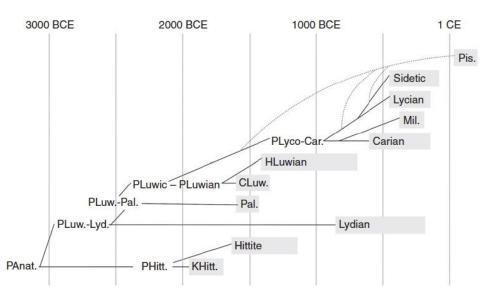
### The origin of the Indo-Europeans





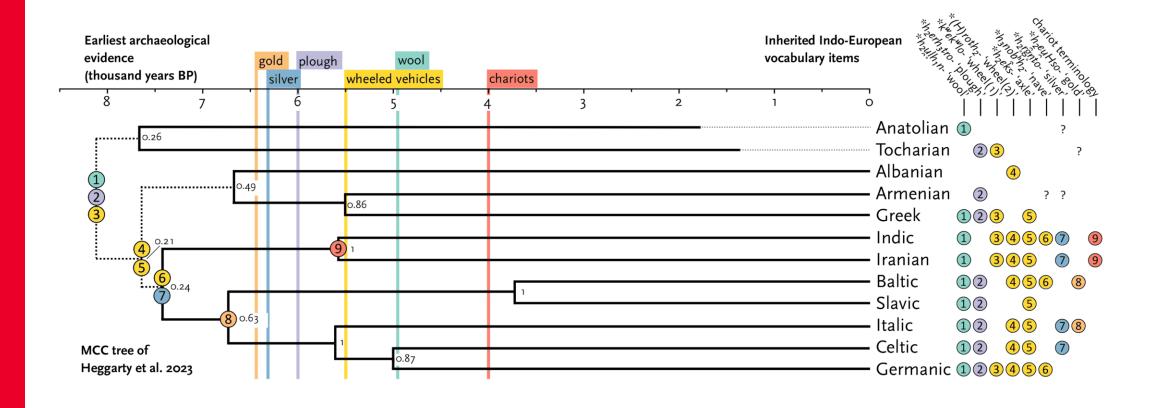
### The dating of Anatolian

"The attested degree of differentiation of the IE Anatolian languages such as Hittite and Luvian already by the beginning of the second millennium requires at a minimum that their divergence from Proto-Anatolian began by the middle of the third millennium. It may easily have begun as early as the end of the fourth." (Melchert forthc.)





#### **Archeolinguistic issues?**





#### The Anatolian branch: phonological innovations

- Merger of mediae and aspirate > lenis series
- "Lenition" of voiceless stops and  $*h_2$
- Lenghtening: PIE  $*\acute{o}$  > PAnat.  $*\acute{o}$
- Shortening: PIE V > PAnat. V
- PIE \*h<sub>2</sub>w > voiceless fricative [x<sup>w</sup>]



# The Anatolian branch: morphological innovations

- the creation of an acc.-dat. form \*/?m:u(-)/ 'me' (vs. PIE \* $h_1$ mmé-)
- the creation of a demonstrative pronoun \*/?op $\delta$ -/ (from virtual PIE \* $h_1o$ - $b^h\delta$ -)
- the loss of the distinction between present and agrist (the "tezzi-principle")<sup>20</sup>
- the creation of the *hi*-conjugation (cognate to the PIE perfect)<sup>21</sup>
- the 1pl. ending \*/-uén(i)/ (cognate to the PIE dual ending \*-ué)<sup>22</sup>
- the replacement of the post-consonantal pret.act.3sg. ending \*-t by the middle ending \*-to (> Hitt. -tta, CLuw. -tta, HLuw. -ta, Lyc. -te)<sup>23</sup>
- the loss of the subjunctive and optative moods.



## **Verbal conjugations**

Person	Sinular		
	<i>mi-</i> conjugation: <i>eš-</i> 'be'	<i>ḫi</i> -conjugation: <i>dai-/ti-</i> 'put'	
1	eš-mi	te-ḫḫi	
2	eš-ši	dai-ti	
3	eš-zi	da-i	



# The Anatolian branch: morpho-syntactic innovations

 Development of 3rd person enclitic pronouns and rise of split intransitivity

• Grammaticalization of the individualizing \*-e/ont-suffix as an **ergative case marker** for neuter nouns, e.g. Hitt. -anza/-anteš



# **Anatolian innovations: morpho-syntactic innovations**

PIE \*-e/ont- possessive (Fellner & Grestenberger 2018)

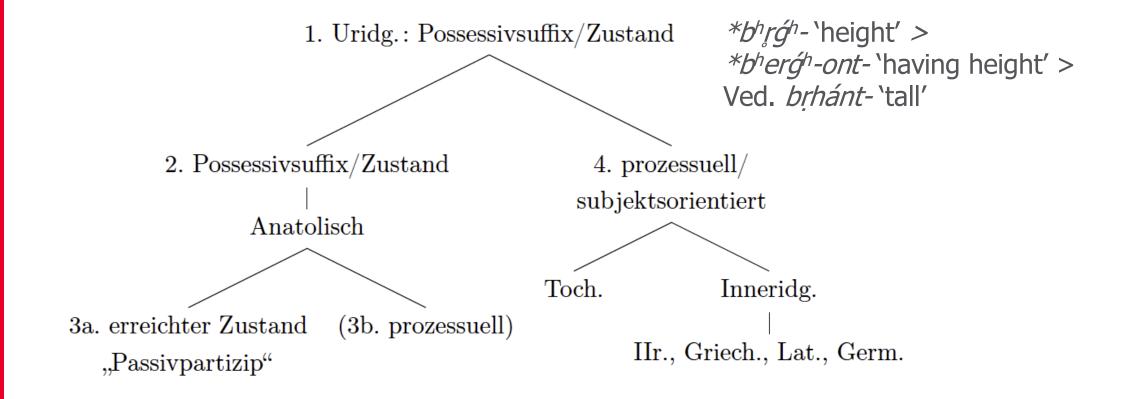
#### > Hittite

- Resultative (telic vbs.)

  - intransitive vbs.: S-oriented pai- `go' → panza `gone'
- Non-resultative (atelic vbs.)
   huwai- 'move' → huwanza 'moving, fugitive'
- > Core-IE: \*-e/ont- > present active participle: lat. amantes, gr. phílontes 'loving' vs. new PTCP e.g. -\*to- > amatus 'loved'



## The development of PIE \*-e/ont-





Luwic: participles in \*-omno-, e.g. Luw. upamma/i- 'granted'

Palaic: both \*-ent- and \*-omno-



#### Anatolian vs. Indo-European

Anatolian nominal and verbal morphology displayes fewer grammatical categories and fewer values thereof with respect to other IE languages

	Anatolian	Other IE languages
gender	common, neuter	masculine, neuter, <b>feminine</b>
number	singular, plural	singular, plural, <b>dual</b>
tense	present, past	present, past, <b>future</b>
mood	indicative, imperative	indicative, imperative, optative, subjunctive
aspect	_	present, aorist, perfect



Before the discovery of Anatolian Igs. these categories were unproblematically reconstructed to PIE (Graeco-Aryan model)





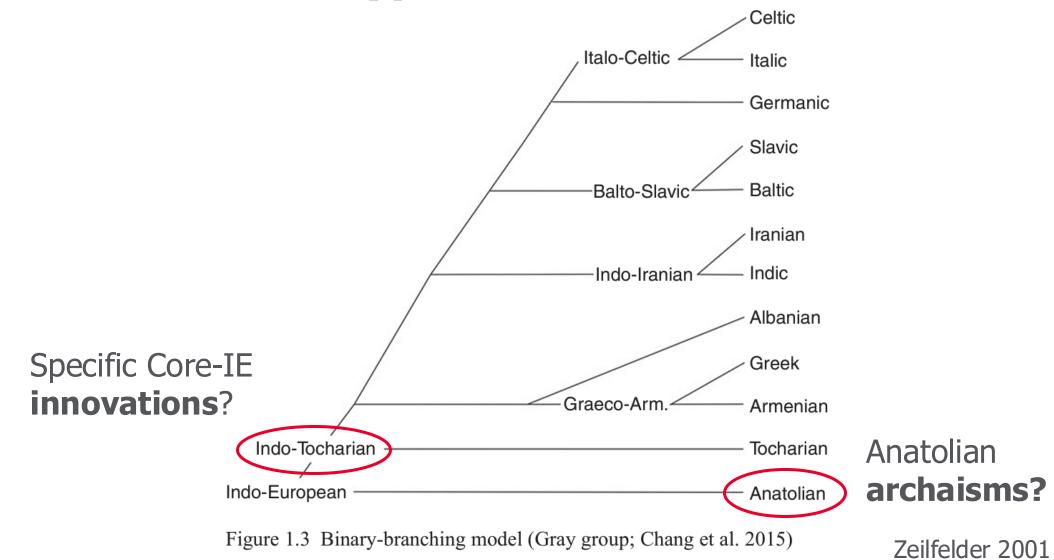
#### Anatolian vs. Indo-European

Three main approaches:

- 1. Indo-Hittite hypothesis (Sturtevant 1933)
- 2. Schwundhypothese (Pedersen 1938)
- 3. Kuryłowicz (1927, 1964) and others: radical reconstruction of PIE as source of both Anatolian and the rest of IE



### **Indo-Hittite hypothesis**





### **Anatolian archaism: laryngeals**



Gk. astér, Lat. stella, Arm. astl, Skt. tár-



PIE \*Xster- (de Saussure 1879)

= Hitt. *hasterza* 



#### **Anatolian archaism: relative clauses**

I destroyed those regions [that rebelled against the Sungod]

**Embedded relative clauses**: [V N [REL V]]



# Anatolian innovation: the periphrastic perfect

```
nu=wa=za karū 30 É<sup>TUM</sup> ašešan

CONN=QUOT=REFL already 30 house(ACC) settle.PTCP.NOM/ACC

harzi

have.PRS.3sG

"[Pihinakki is occupying the town of Lipisira] and he has already settled 30 houses."

(HMK 10 rev. 6, MH/MS)

n=aš mān karū pānza

CONN=3sG.NOM if already go.PTCP.NOM

"And if he has already/formerly gone."

(HKM 75, 23–24, MH/MS)
```

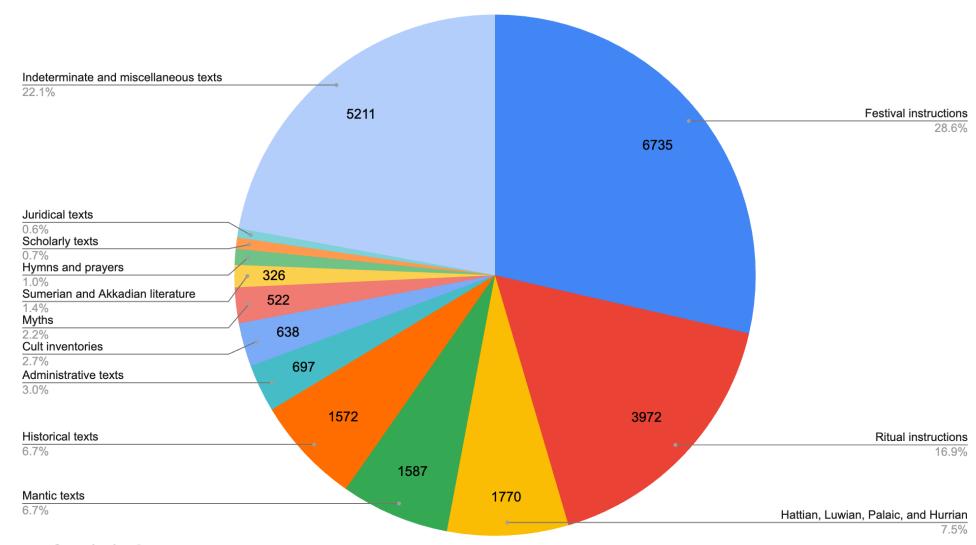
**Independent** development that anticipates by ca. 2500 years the rise of periphrastic perfects in Europe (Drinka 2017)



# Anatolian in the Ancient Near East and Aegean context



#### Hattusa: a multilingual archive

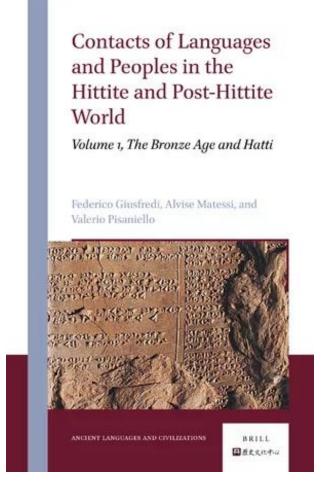




#### **Hittite in the Ancient Near East context**

Akkadian > Hittite (?)

*šumma* 'if' → itt. *takku* < \**to*+*k*<sup>w</sup>*e* (Zorman 2017)





#### **Anatolian in the Ancient Near East context**

Hurrian > Anatolian: Suffixaufnahme

```
eni(i)=n(a)=až(v)e=ne=da šarri=ne=da
god-art.pl-gen-art.sg-dir king-art.sg-dir
"to the king of the gods" (from Wilhelm 1995, 118)
```

DINGIR.MEŠ-assanzati wassarahitati gods-ADJ.PL.INSTR favor:INSTR "by the favor of the gods" (from Melchert 2003, 188)

```
takku LÚ.ULÙ<sup>LU</sup>-an ELLAM KAxKAK=šet kuiški waki
if man-acc free nose 3sg-poss-a someone-n-sg bite-3sg-pres
"if someone bites a free man on his nose" (Laws § 13 = B i 33, Middle Hittite)
```



# Hittite in the Aegean context: Ionic preterites

#### Classical Greek

presents in -sk-: bóskō 'feed', gignośkō 'know', mimneśkō 'remember'

#### Archaic Greek (Homer, Hesiod)

'Ionic preterites': verbs in -sk- with secondary endings, e.g. phaínō >> phainé-sk-e-to

- iterative/distributive: tharsúneske 'kept inciting' (△ 431)
- habitual: naietáske 'used to live' (o 385)
- <u>intensive</u>: *philéeske* 'loved (much)' (Γ 388)



### The suffix -ške/a- in Hittite

#### **CONTINUATIVE**

takku LÚ-aš  $GU_4=\check{S}U$  ÍD-an **zī-nu-ški-zzi** 

if man:NOM ox=3sg.poss river:ACC cross-CAUS-IPFV-PRS.3sg

tamaiš=an šu[wezzi]

other:NOM=3SG.ACC push:PRS.3SG

'If a man is making his ox cross a river, and another man pushes him off (the ox's tail)'

[KBo 6.2 ii 30, OH]

#### HABITUAL

karū 1 MA.NA KÙ.BABBAR **pi-šk-er** kinuna

formerly 1 mine silver give-IPFV-PST.3PL now

20 GÍN KÙ.BABBAR *pāi* 

20 shekel silver give:PRS.3SG

'Before they used to give 1 mine of silver, now he gives 20 shekels of silver'

[KBo 6.2 i 10, OH]



## Ionic preterites as an Anatolian calque?

Characteristic of the suffix -sk-	Hittite	Greek - IPs
ORIGINALLY MARKS IMPERFECTIVE ASPECT	+	+
CAN OCCUR WITH OTHER ACTIONAL MARKERS	+	+
CAN OCCUR WITH VERBS WHICH ALREADY HAVE -sk-	+	+
FORMS IN -sk- CAN OCCUR IN SEQUENCE	±	+
USED IN PAST NARRATION	±	+
"ASPECTUAL METAPHOR" IN SOME CASES	+	+
RESTRICTED TO INDICATIVE	+	+
FOUND WITH PROTOTYPICAL [STATES]	_	+
NO DIFFERENCES BETWEEN TYPE OF PRETERITE	+	+
NO AUGMENT	(+)	+

Bianconi 2019



# Hittite in the Aegean context: poetic phraseology

#### A. 'black earth' = netherworld

Hom. gaîa mèlaina << Hitt. dankui tekan << Hurr.

#### **B.** 'speak in front of one's hearth' = soliloquy

• Hom. *pròs hòn thumón eipeîn* << Hitt. *=za karti=ši/šmi peran mema-* (es. Zalpa) << Akk. *itti libbi dabābu* 



Grazie per l'attenzione! Domande?