Structuring participles

- 1. In this paper we discuss three types of adjectival participles in Greek. We propose that a number of semantic as well as syntactic differences shown by these derive from differences in their respective morpho-syntactic composition. The paper is a further argument for the view that finer distinctions are necessary in the domain of participles (Kratzer 2001, Embick 2004).

 2. Next to adjectives, Greek has two participial constructions that can be used in an adjectival function: the participle in *-menos* and the one in *-tos* (1). Like adjectives, they appear in attributive and predicative positions. However, semantic and syntactic differences between the two can be observed (Anagnostopoulou 2003 and references therein). i) The participles in *-menos* refer to a state as a result of a previous action, while the participles in *-tos* simply refer to a state. The *menos*-participle in the first conjunct of (2a) denotes that the boat is in a state
- resulting from a pumping event. Negating this event in the second conjunct of (2a) results in a contradiction. The *-tos* participle in (2b) does not entail the existence of a prior event and the negation of the event in the second conjunct does not lead to a contradiction. ii) There are distributional differences between the two: the verb *ginome* 'become' (3) and transitive verbs of creation *kano*, *ftiaxno* 'make', which select complements lacking event implications, may only combine with *-tos* participles. iii) The *-menos* participle can be modified by manner
- adverbs, the -tos participle cannot (5). iv) The -menos participle licenses instrumental PPs, the -tos participle doesn't (6). iv) -menos participles can license by-phrases and control into purpose clauses, -tos ones cannot (7). Closer inspection reveals that -menos participles fall into two classes, labelled 'target states' and 'resultant states' by Kratzer (2001). Target state menos participles do not license agent and instrument PPs and agentive adverbials (8). The
- three types are thus as follows: (I) -tos participles involve no implication of an event and no agentivity (no agent-oriented modification, no by-phrases and instruments); (II) -menos target state participles involve implication of an event and lack agentivity: (III) -menos resultant
- state participles involve implication of an event and lack agentivity; (III) -menos resultant state participles involve an implication of an event and agentivity.
- 3. Following Marantz (2001), Alexiadou & al. (2006) and others, we take agentivity and event implications to be located in functional heads, Voice and vCaus, respectively. Moreover, we assume that there two places for word formation: i) attaching a morpheme to the root before attaching a functional head that determines the category of the word (N, V, Adj) or (ii) attaching the morpheme outside the domain of the functional head that determines syntactic category the little v's, n's, and a's. We propose that a layer Asp (stativizer) is present in the structure of all three types (9). Where the three differ is the height of attachment of Asp. Specifically, -t- and -men- are exponents of Asp, the -os part being a reflex of agreement. Since -tos participles lack agentivity and event implications, we take it that they involve root attachment of Asp. Note that roots such as \DOLOFON/MURDER cannot form -tos participles because they require the presence of Voice (as they are agentive/externally caused, Anagnostopoulou 2003; Alexiadou et al. 2006). -men- is an exponent of Asp that in target states attaches to vP explaining why they contain event implications. Finally, resultant states with event implications and agentivity have Voice in addition to v. Voice licenses agent- and instrument-PPs and agent-oriented adverbs.
- 4. Finally, we address crosslinguistic differences between Greek and German/English participle formation. While target state participles behave alike in Greek and German/English, Greek resultant state participles crucially differ from their German/English counterparts (Kordoni 2002, Anagnostopoulou 2003). First, agent PPs and control into purpose clauses are not licensed with participles in these two languages but they are in Greek. Second, adverbs that are sensitive to the presence of Voice (agentive features) can be licensed in Greek -menos participles, but not in German/English. This would suggest that the structure of German/English resultant state participles is identical to the structure of Greek target states participles. However, target state participles do not differ, i.e. they behave alike in all three languages. We take this to be related to the semantics of the roots, providing further evidence for the view that encyclopedic knowledge about the roots plays a role in word formation processes (cf. Kratzer 2001, Marantz 1997, Harley & Noyer 2000, Alexiadou & al. 2006).

Data											
(1)	a.	vraz-o	o vras-men-os			vras-t-os			"boiled"		
	b.	psin-o	psi-men-os		psi-t-o		S		"grilled"		
(2)	a.	#Afti	Ī	varka	ine	fusko-	meni	alla	den		
		This	the	boat	is	pumpe	ed	but	not		
		tin	exi	fuskos	i	kanis		akoma	l		
		it	has	pumpe	ed	noone		yet			
		'This b	oat is p	umped	up but	noone l	nas pum	as pumped it up yet			
	b.	Afti	i	varka		ine	fusko-	t i	alla	den	
		This	the	boat		is	pump-	ed	but	not	
		tin	exi	fuskos	i	kanis		akoma	l		
		it	have	pumpe	ed	noone		yet			
	'This boat is of the type that can be pumped up but noone									has pun	nped it up yet'
(3)		To	kotopo		egine		vras- t o				
		The	chicken		became		boiled				
		'The chicken was made boiled'									
(4)		*To	o kotopoulo		egine		vras- n	nen o			
		The	chicke	en	became		boiled				
(5)	a.	Ta	malia		ine		atsala		htenis men a		
		The	hair		are		11 2		combe	ed	
	b.	*Ta	malia	ine	atsala		ahtenis	s t a			
		The	hair	is	sloppi	ly	uncom	mbed			
(6)	a.	Ta	malia	tis	basilis		ine		men a	me	xrisi xtena
		The	hair	the	queen-		are		combed		golden comb
						combed with a golden comb'					
	b.	*Ta malia ine ahtenis t a me hrisi htena									
(7)	a.		0	-	pinakas			ografis men os		apo	mia
		This	the	paintir	_	is pair				by	a
		omadh		aktivis		gia	na	sokaru		tus	anthropus
				sts-GEN		for	to	shock-		the	people
								vists in order to			the people'
	b.	*Aftos		pinaka		ine .	zograf		apo	mia	
			the	paintir		is pair		by	a	4	41
		omadh		aktivis		gia	na	sokaru		tus	anthropus
				sts-GEN		for	to	shock-		the	people
(0)			_								the people'
(8)	a.	Ta	lastixa		`	/	ko men a	-	tin	Maria	
		The	tires	are		inflate		by	the	Mary	
	1.			still inf					4:	4 1 1	_
	b.	Ta	lastixa		•		ko men a		tin	tromba	a
		The 'The ti	tires	are		inflate		with	the	pump	
(0)	[Aan [The ti XP]] w		still inf							
(9)	[Asp [Ar]] W	neie A	F - 100	ı, vCau	SI OI V	oicer				