GRAMMATICALIZATION VS. REANALYSIS: EVIDENCE FROM RUSSIAN ADVERBIAL STRUCTURES

I. The dilemma: grammaticalization vs. reanalysis

- For many researchers grammaticalization necessarily involves a change in the (syntactic) distribution of an element and, thus, grammaticalization *ipso facto* presupposes reanalysis.
 - ⇒ This kind of understanding is not followed any further.
- ➤ A more specific understanding: the two processes are viewed as **distinct** phenomena.

«Unquestionably, reanalysis is the most important **mechanism of** grammaticalization» [Hopper & Traugott 1993: 32].

«[T]ypically, reanalysis **accompanies** grammaticalization» [Heine et al. 1991: 217].

Reanalysis & grammaticalization: <u>definitions</u>

Reanalysis: «[A] change in the structure of an expression or class of expressions that does not involve any immediate or intrinsic modification of its surface manifestation» [Langacker 1977: 59]. Grammaticalization: "an evolution whereby linguistic units lose in semantic complexity, pragmatic significance, syntactic freedom, and phonetic substance" [Heine & Reh 1984: 15].

➤ Haspelmath's approach

Reanalysis without grammaticalization:

- (4a) $[Er\ ging\ [um\ Wasser_i]_{PP}\ [\emptyset_i\ zu\ holen]_{S-INF}]_S.$
- (4b) $[Er ging [um_{COMP} [Wasser zu holen]_S]_{S'-INF}]_S$.

considering

failing

Grammaticalization without reanalysis:

from [Kortmann & König 1992: 684] lowest degree of grammaticalization

preceding

facing

highest degree

past

ago

during

pending

Grammaticalization	Reanalysis
loss of autonomy/substance	no loss of autonomy/substance
gradual	abrupt
unidirectional	bidirectional
no ambiguity	ambiguity in the input structure
due to language use	due to language acquisition

according to

owing to

II. The data

- > Empirically-driven study;
- Russian structures that synchronically function as (less-than-clausal) adverbials;
- > Synchronically opaque (idiosyncratic? non-compositional?) syntactic structure;
- ➤ Thus, potential explanation by way of a (micro-)diachronic analysis;
- ➤ Data from the National Corpus of the Russian Language (NLRC, www.ruscorpora.ru)
 - > 140 000 000 words
 - XVIII-XXI centuries

III. Case study 1: vo glave s ... 'headed by'

The use under study:

(1) ... ucheniki sobiralis'... i vo glav-e s direktor-om exali na promysel.
and in head-LOC with director-INS went
'The pupils gathered and went to the work headed by the director' (Panteleev, 1938-1952)

Golova & glava in Modern Russian:

golova (< Old Russian) 'head (body-part)'
glava (< Old Church Slavonic) 'chapter', 'chief, boss'</pre>

⇒ Glava lost its original body-part reading.

Frequency of golova & glava:

	1700-1800		1850-1900		1930-1950		1980-2000	
	N	per mln						
golova	871	327	20449	966	17744	933	25525	928
glava	848	319	3437	162	3695	194	5593	203

(Semi-)predicative vo glave 'to head, to command, to lead' (from 18th century onward)

- (2) Knjaz' Lambez ... vstupaja ... v Tjul'erijskij sad vo glav-e svoego polk-a ... udaril... entering in Jardin des Tuileries in head-LOC of.his regiment-GEN 'Prince Lambez, who entered Jardin des Tuileries heading his regiment, hit ...' (Zhurnal..., 1789).
- (3) Pobedonoscev byl vo glav-e dobrovol'nogo flot-a...

 was in head-LOC fleet-GEN

 'Pobedonoscev was heading the volunteer fleet' (Vitte, 1911).
 - > Human protagonist as the subject, group-noun as the headed 'location';
 - > Vo glave in the 'heading' meaning: almost never with agreeing modifiers;
 - ➤ *V glave*: almost never in the 'heading' meaning;

<u>V glave vs. vo glave</u>: frequency per mln

	1700-1800	1850-1900	1930-1950	1980-2000
v glave	13,9	28,7	5,5	1,9
vo glave	3,4	2,6	46,6	35,0

Comitative vo glave-construction:

- ➤ Only 1 example from the 18th century:
- (4) *Vperedi* ... *exala* ... *kavalerija*, *s de-Lafaet-om vo glav-e* was.moving cavalry, **with** de-Lafayette-INS in head-LOC 'The cavalry was moving in front, headed by de Lafayette' (Zhurnal, 1789).
 - > Sporadic uses in the texts up to the mid-19th century;

Frequency of comitative vo glave-constructions:

	1800-1850	1850-1900	1900-1920	1950-1970	1990-1995
N of comitative vo glave	8	97	195	206	138
per mln	1,1	4,6	15,7	13,9	13,6
% among <i>vo glave</i>	6,1%	16,0%	24,3%	43,1%	54,6%

- > These structures become increasingly frequent from the mid-19th century;
- ➤ A slow decline of other uses of *vo glave*

Transparent constituent structure & compositional semantics:

nachalo dejstvovat' tret'je [otdelenie [s [Benkendorf-om_i [__i vo glav-e]_{SC}]_{NP}]_{PP}]_{NP} started to operate third department with Benkendorf-INS in head-LOC 'The third department, headed by Benkendorf, started to operate' (Gershenzon, 1826-1905).

Cf. other prepositional phrases (small clauses?) embedded in the comitative structures:

- (6) ... v nebe letal ... [mal'chik ... [s [luk-om_i [__i v ruk-ax]_{SC}]_{NP}]_{PP}]_{NP} was.flying boy with bow-INS in hands-LOC 'A boy with a bow in his hands was flying in the sky' (Grishkovec, 2004).
- (7) [Dar'ja ... [s [rebenk-om_i [__ina ruk-ax]_{SC}]_{NP}]_{PP}]_{NP} poshla sledom Dar'ja with child-INS on hands-LOC 'Dar'ja went behind with the child in her arms' (Sholoxov, 1928-1940).

No increase of frequency of comitative *vo glave* constructions from the beginning of the 20th century!

Did its development stop?

NO!

Semantic inseparability of *s NP vo glave*, hence, can be qualified as "**circumpositional**". A shift towards "secondary" preposition:

- (8) Prochaja molodjozh' vo glav-e s Barcev-ym rezvilas'...
 youth in head-LOC with Barcev-INS
 'The rest of the youth, headed/led by Barcev, was frolicking' (Bykov, 2002).
 - ⇒ No multi-layered constituent structure can be posited any more.

Word order in comitative vo glave constructions:

	1850-1900	1900-1920	1950-1970	1990-1995
s [NP-Instr] vo glave ("circumposition")	78	75	26	12
vo glave s [NP-Instr] ("preposition")	19	120	180	126
% of preposition	19,6%	61,5%	87,4%	91,3%

Summary:

- ➤ No evident semantic development throughout;
- ➤ No loss of substance;
- ➤ Gradual increase in frequency;
- > Other uses are getting archaic;
- ➤ Hence, idiomaticization (exparadigmaticity and decline of semantic separability);
- ➤ Loss of transparent multi-layered constituent structure;
- ➤ A crucial role of what happened to **other** constructions;
- Overt changes in word order on the final stages

IV. Case study 2: nazad 'ago'

The use in the focus:

- (9) Katrin uexala v Avstraliju **god tomu nazad. year that.DAT ago** 'Katrin went to Australia **a year ago**' (Gazdanov, 1950).
- (10) Boris Safonov byl naznachen komandirom eskadril'ji vsego **god nazad**.
 only **year ago**'Boris Safonov was appointed squadron commander only a year ago (Gil'jardi, 1950).

Etymology:

nazad < na-zad '(on)to+back'</pre>

Early uses: subordinator kak 'as':

(11) $\textit{Desjat'let} \quad \textit{tomu}_i \quad \textit{nazad}, \quad [\textit{kak ozero sie pokryto bylo sol'ju}]_i.$

10 years that.DAT ago as

'It is ten years ago that this lake was covered by salt' (Lepexin, 1768-1769).

Lit.: 'It is ten years backwards to that, as the lake...'

➤ *Kak* 'as' heads a **dependent clause**. It is **optional** in the early texts and disappears almost entirely in the Modern texts (cf. development of similar adverbials in English [Kortmann 1996: 298]).

	1700-1800	1800-1900	1900-
nazad kak (per mln)	0,75	0,41	0,08

Early uses: non-integration into the clause

- In the older uses the *X-time* (tomu) nazad structure is found in the periphery of the sentence.
- ➤ Thje use of commas: "naive" constituency (intonation breaks? Parentheticals?)
- (12) Odin iz vashix filosofov, tomu uzhe neskol'ko vekov nazad, vstupil v moju sluzhbu.
 , that.DAT already several centuries ago,

'One of your philosophers, (it is) already several centuries ago, came to my service' (Krylov, 1789).

- ➤ Occasional use of the nominative case marker on the time-span NP. (NB: Accusative and nominative are not distinguished in non-feminine nouns):
- (13) Nedel-ja tomu nazad kak ja videl takoj ekzemplar ... week-NOM that.DAT ago as

'A week ago I saw such a specimen' (Leskov, 1888).

Lit.: It is a week ago to that, as I ...'

- > tomu is a pronominal element that is related to the whole dependent clause, cf. (11).
- ⇒ The construction at issue goes back to a multi-layered (bi-clausal) structure.

The time-reference point

- ➤ NB: Russian is a zero-copula language. Very rarely in texts one finds non-zero forms of the copula in *nazad-constructions*:
- skoro budet dva goda tomu nazad, kak on zastrelilsja soon will.be two years that.DAT ago as 'It will soon be two years since he shot himself' (Vitte, 1911).

 Lit.: 'It will soon be two years ago to that, as he...'
 - \Rightarrow In all other cases *nazad* has the reference point that coincides with the "now" of the speaker! (cf. English *ago* and [Boguslavskij 1996: 76]).

The frequency of temporal *nazad* structures:

	170	1700-1800		1800-1900)-2000
	N	per mln	N	per mln	N	per mln
god (tomu) nazad	32	12,0	1389	51,8	15244	113,4
'(X) year(s)' ago						
mesjac (tomu) nazad	0	0	258	9,6	1740	12,9
'(X) month(s)' ago						
chas(ov) (tomu) nazad	0	0	138	5,1	892	6,6
'(X) hour(s)' ago						
minut(u) (tomu) nazad	0	0	69	2,6	750	5,6
'(X) minute(s)' ago						

Contemporary Russian: positional freedom:

- ➤ In the nowadays Russian the temporal *X-time* (*tomu*) *nazad* structures can be found **in any position** within the sentence, it is usually not separated by intonation breaks (in the speech) or commas (in the writing):
- (15) Ona vsego **god nazad** vernulas' iz kapital'nogo remonta. it only **year ago** came.back from 'It [= missile] underwent a complete overhaul only one year ago (Abarinov, 2003).

Contemporary Russian: the fate of *tomu*:

- > Once the bi-partite structure is released, *tomu* is rendered **functionless**.
- (16) ejo sestra uchilas dva goda (tomu) nazad v shkole. studied two years (that.DAT) ago in school. 'Two years ago her sister was studying in the school'.

➤ Its use within *nazad*-adverbials reduces over time. Frequency per mln.:

	1700	-1900	1900-		
	N per mln		N	per mln	
let tomu nazad '(N) years ago'	543	18,7	1448	10,8	
let nazad '(N) years ago'	296	10,2	7668	57,0	

Summary:

- ➤ a very subtle semantic shift (fixation of the speaker-oriented reference point);
- > gradual loss of substance (synchronically optional *tomu*);
- > increase in frequency;
- > separate clause-like structure > clause-internal temporal modifier;
- ➤ nazad: predicatively used adverbial > **post**position

V. Case study 3: uzhe ... kak 'It is already X-time since / that...'

Early two-sentence structure:

(17) [A on, uxodja, prigrozil mne...]_i, — da tol'ko [tomu]_i uzhe pjat' let proshlo, i nichego. that.DAT already five years passed

'And he threatened me when leaving that...; but five years have passed, and nothing happened' (Koshko, 1928).

Lit: '... but five years passed to that, and ...'

Early two-clause structure (subordinator *kak*, anaphoric or cataphoric):

[Tomu]_i uzhe neskol'ko let, [kak ja zaexal v selo P.]_i that.DAT already several years

'Several years have passed since I went to the village of P.' (Fonvizin, 1788).

Lit.: 'It is already several years to that, as I'

Diachronic trend:

- These two-partite structures decline towards the first half of the 20th century (the last reliable example comes from 1928).
- Anaphoric / cataphoric *tomu* is released (as in scenario IV), **obligatorily** in this case.

Word order change as the indicator of development towards monoclausality:

- > One of the earliest examples of use within the clause:
- (19) On uzhe poltora goda kak sidit voevodoj v Dubne he already 1,5 years as

'He is the governor of the province of Dubna for already one year and a half' (Gogol, 1835-1841).

Lit.: 'He already 1,5 years as governs in Dubna'.

Nowadays, these adverbials are freely used in any position in the clause.

Tense-aspect forms of the predicate:

- A. Present Tense of the imperfective verbs (as in (19)) + non-verbal predicates;
- B. Past Tense of the perfective verbs (as in (18)).

A. *uzhe* X-time-ACC *kak* V.IPFV-PRS = 'has/have been V-ing for already X-time' Compare:

(20) On uzhe nedel-ju rabotaet v biblioteke.

He already week-ACC works

'He is working in the library for already a week'.

- Accusative (not Nominative!) NPs one of basic adverbials of duration (thus, in imperfective contexts) in Russian, independently of *kak*;
- *uzhe* is related to speaker's expectations [Bogulslavskij 1996: 237 ff.] & retrospectivity [Pertcov 2003].

- B. *uzhe* X-time-ACC *kak* V.PFV-PST = 'it is already X-time since V happened' *Kak* is obligatory, cf. (18) and:
- *uzhe neskol'ko let ja zaexal v selo P.

 already several years I went to village P.

 Lit. *'I went to the village P. for already several years'

Case-marking of time-span Ns in *uzhe* X-time *kak* constructions:

- Non-feminine and plural feminine inanimate nouns: Accusative = Nominative.
- Case marking of **feminine** *nedelja* 'week': Nominative (22) or Accusative (23):
- (22) Uzhe nedelj-a kak nachalas' kampanija already week-NOM as

 'It is already a week since the campaign started' (Tolstoy 1867-1869).
- (23) Vsex prilichnyx ljudej uzhe nedel-ju kak arestovali. all decent people.ACC already week-ACC as arrested 'It is already a week since all the decent people were arrested' (Voronel', 1975-2003).

	NOM: uzhe nedelj a kak	ACC: uzhe nedelj u kak
1813-1930	13	1
1930-1990	6	6
1990-PRESENT	4	17

[⇒] Case-pattern is acquired through **analogy** in **both** types of temporal-aspectual structures!

Summary:

- ➤ Most structural properties are lost (incl. loss of substance):
 - *Tomu* (lost entirely);
 - Bi-clausal structure, incl. word order pattern (lost entirely);
 - Case-marking of the time-span NP (levelled due to analogy);
 - *Uzhe* is not obligatory (though frequent):

	1990-2000
uzhe goda kak 'already X years'	32
goda kak 'for X years' (no uzhe)	19

- > Kak ("subordinator") seems to be the only remnant of the original structure.
 - However, it does not signal any syntactic boundary,
 - nor does it seem to express any particular piece of meaning.
 - **Exaptation**: Thus, *kak* loses its status of a conjunction and becomes a relatively free marker of the construction as a whole that no longer plays a role of a linking element.
 - **Loosening** of its linear position in modern varieties of Russian: *uzhe* X-time *kak* V (original), but also *uzhe kak* X-time V (24), V *uzhe* X-time *kak* (25), X-time *uzhe* V *kak*, V *uzhe kak* X-time etc.
- (24) Tamozhni jantarnogo kraja **uzhe kak god** lixoradit. **already as year** cause.fever

'The amber region's customs are fevering for already a year' (Mazepov, 2004).

(25) ... usilenno reklamiruemyj uzhe polgoda kak. already half.year as

"... strenuously advertised for already half a year".

VI. Discussion

Conclusion 1 (methodological): An eulogy to microdiachrony!

Syntactic change in peripheral structures can be **very rapid**. However, they are hard to notice unless studying **large corpus data**. One **doesn't need deep diachronic coverage** in order to unearth the **mechanisms of syntactic change**.

		I. vo glave 'headed'	II. nazad 'ago'	III. uzhe X-ACC kak
	(increase in frequency)	Yes	Yes	Yes
Rean-alysis	A change in constituent structure without immediate overt manifestation	Yes	Yes	Yes
	Unidirectionality (biclausality–to-monoclausality)	Yes	Yes	Yes
on	Loss of pragmatic significance	No	Yes	Yes
zati	Loss of substance	No	Yes (optional)	Yes
aliz	Lexicon-to-grammar drift	Yes	Yes (rather)	No
Grammaticalization	Loss of autonomy (exparadigmaticity)	Yes	No	No
Gram	Loss of syntactic freedom	No	No	INCREASE! (tigh-to-loose development)
	Semantic change (concrete-to-abstract drift etc.)	No	(almost) No	No

<u>Conclusion 2</u>: A **unitary** path of diachronic development might encompass processes that are typical of **both** grammaticalization and reanalysis.

Reanalysis and grammaticalization are not strictly counteropposed.

Question: Recall now two of Haspelmath's criteria:

Grammaticalization	Reanalysis
Gradual	Abrupt (either or)
Due to language use	due to language acquisition

To be honest, I don't know which is the answer in the cases analyzed. However, the hypothesis is that quantitative changes in use increase the probability of abrupt changes in acquisition.

References

Bogulslavskij, Igor. 1996. Sfera dejstvija leksicheskix edinic. Moskva: Jazyki russkoj kultury.

Haspelmath, Martin. 1998. Does grammaticalization need reanalysis? Studies in Language 22, 315-351.

Heine, Bernd, Ulrike Claudi and Friederike Hünnemeyer. 1991. Grammaticalization: A conceptual framework. Chicago: University of Chicago Press.

Hopper, Paul and Elizabeth C. Traugott. 1993. Grammaticalization. Cambridge: Cambridge University Press. (2nd edition 2003).

Kortmann, Bernd & Ekkehard König. 1992. Categorial reanalysis: the case of deverbal prepositions. Linguistics 30: 671-697.

Langacker, Ronald W. 1977. Syntactic Reanalysis. In: Charles Li (ed.), Mechanisms of Syntactic Change, 57-139. Austin, University of Texas Press.

Percov, N.V. 2002. O vozmozhnom semanticheskom invariante russkix frazovyx chastic *uzhe* i *eshchjo*. In: Logicheskij analiz jazyka. Semantika nachala i konca (ed. by N.D.Arutjunova et al.). Moscow: Indrik. 137-144.