Whence the cimmerians came? transcontinental communications of the early nomads in the lights of the origin of the cimmerians

Abstract
Eurasian communication of the Early Nomads determined the main cultural and historical processes in the Ancient World, combining with each other remote regions and civilizations, forming a branched of the trans-continental channels of distribution excellence, inventions of various goods, which in turn stimulated the evolution, development and production of its own vehicles. This assertion is based on a detailed analysis of the relevant written, pictorial and archaeological sources; on the facts, argue the hypothesis of the origin of the Cimmerians1 of the inland areas from Central Asia, as well as based on the evidence of widespread use of chariot and cavalry. The author identifies the historical Cimmerians with carriers of Karasuk archaeological culture and its derivatives.

Keywords: Communications; Wheeled transport; Asian chariots; Karasuk culture; Cimmerians; Sakas; Xiongnu; Persopolis; Ecbathanae; Pasargadas; Akhemenid empire; Darius the great; Cyrus the great; Qin empire; Qin shihuang (Di); Pasyryk culture; North eurasia; North pre-black sea, Central asia.

1Because of the Cimmerian problem in the literature published by a huge amount of material, the author did not initially aims to analyze in detail within the framework of this brief article by numerous archaeological findings on this topic. Here we present an extensive bibliography and detailed references to these publications by means of which the interested reader will always find the right information. In this article, we have had more attention in the literature expressed concepts of archaeologists in this regard, as well as written and pictorial sources, which in our opinion, were less involved for understanding this complex puzzle of ancient history.

Introduction
At the time, Prof. Kemal Akishev drew attention to the considerable similarity of European Scythians culture and Asian Sakas,2 thus laying the foundation for the study of their transcontinental communications. Indeed, the very nomadic ordained main areas of communicative activity of Early Nomads in the entire Eurasian steppe zone. Cultural and economic type of their life estimated duration (in essence - migration) of all its society-clan (group of blood relatives), length of geographical areas, economic activity often several thousands kilometers cyclical, i.e. the inevitable return to their original territories; vertical nomadism in the fertile mountain pastures and many other features.2

New communication arose originally as a natural result of the formation and successful functioning in the vast territories of bureaucratic imperial infrastructures. They were determined and various internal factors emerging in these spaces societies (ethnic groups), their unique identity and external, including marriage and family ties. Priority in nomadic societies of both verbal and figurative (visual) communicative tradition, as opposed to writing, as explained by the mobile way of life, despite the fact that there were already quite complex patterns of sign communication. Thus, writing in the nomadic fixed monuments of Zhetysu’s Sakas3 and it seems that it is now close to the reading of.3 Saka-Scythian animal style, its decoding and spatial distribution in the synchronous monuments in the vast territory of the continent a vivid testimony to the development of transcontinental, as a matter of fact the iconic and imaginative communication of Early nomads in this period. The phenomenon of the origin of this style3,6 and its geographic distribution, decoding the images and messages of communication an independent research topic, far beyond the scope of this article.

The format of this work involves the analysis of only certain aspects of the communications of the Early nomads of Eurasia and is dedicated to attempts to compare the data of some sources: linguistic, visual and archaeological, in order to support in a working hypothesis of possible solutions to the problem of the origin of the Cimmerians as a carriers of Karasuk archaeological culture. This issue is already on the minds of many generations of scientists and the concept of the origin of the inland areas of Central Asia (the so-called Junggar or Central Asian hypothesis) finds more and more supporters.7–14

Written and pictorial evidence
A curious situation recorded ancient cuneiform documents Assyrian and Neo-Babylonian Empire VII–VI cent. BC. In the Babylonian literary tradition word Cimmerians describes, as a rule, all known to the Babylonians the nomadic peoples of the country: the Scythians, Sakas and, obviously, the actual Cimmerians and their country Gumiraia.15,16 In Assyria of VII cent. BC term Cimmerian (gumirayia) opposite used as the name of two independent nation, along with the Central Asian Sakas-ayshkuzaya: haumavarga, tigrahauda and paradrayya.15,17 At the same time the Assyrians in direct contact with the steppe peoples and better the Babylonians knew its steppe neighbors. For this reason, we feel rather strange widespread in the scientific literature review on the Sakas tribes circle as the main and almost sole dwellers in the steppes of Eurasia came from the depths of Asia, who actively collaborated with Assyria, Persia and the ancient Greeks. In written documents of Achaemenid’s times
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Just look at the well-preserved stone reliefs and read the inscription stairways ruins of the palace of Persepolis Apadana or Takhtara, which ceremoniously passed the procession and the conquered peoples subordinate Achaemenids. Detailed displayed anthropological and cultural differences tributaries come from the remotest corners of the vast empire, from its various satrapies, their specific gifts as tributes brought by the Persian kings. The composition of many peoples conquered by the Persians, were part of the Achaemenid Empire, was captured in the inscription of Darius the Great on the rocks in Besetune (or Bestune: so-called Behistun inscription); there is such a list directly on the statue of king Darius the Great, exhibited in the exposition of the National Museum in Tehran. Also lists the nations represented in other sources, such as cylinder of Cyrus the Great in the British Museum.

However, the earliest mention of the nomads of the Eurasian steppes appear in the second half of the VIII cent BC. Their military campaigns in Southwest Asia began no later than 714 BC, when they are first mentioned in Assyrian documents and continued, apparently, during the VII cent. BC.17 Previously, all the steppe in the Near East came Cimmerians, who repeatedly have made successful military raids on ancient Middle Eastern countries, subdued Lydian and Phrygian kingdom, acted as allies or mercenaries on the side of both Assyria and Urartu in their irreconcilable rivalry between them and the final of expulsion from Asia is attributed to the Lydian king Alyattes. New invasion of Scythian troops put an end to the Cimmerian invasion and some part of them joined the association Scythian tribes.15,17 Cimmerians, unlike Sakas, never were vassals of the Assyrian, Urartu, or the Persian kings and considerable time is itself a formidable military union,15,17 so powerful, that the Greek colonists in Asia Minor (Miletus) had to be built to protect against a rather complex system of fortifications.20

Perhaps to protect against such military organizations far to the east of the continent built the Great Wall of China’s first emperor-unifier Ichizhen (Qin Shihhuang) and its predecessors wants of northern states that are more likely to confirm earlier, Dynasty Xia and Shang in ancient Chinese inscriptions fortunetelling on bones (sheep’s scapula and tortoise shells) found in the amount of several thousand in the northern and western provinces of China. They clearly demonstrate a real and constant northern threat, an active contact with the steppe population comes from the north and northwest. These steppe nomadic clans could be tribes inhabiting gui-fan, gun-fan, in the State of Yan (one of the principalities of Western Zhou), which Shang and Zhou rulers constantly waged wars. In general, the following is recorded toponymy1 located in the north and north-west of the Central Plains of China ts-fang, kiwei-fang, giwon-fang and ngo-fang.21–23. It is noteworthy that the earliest sources described all northern neighbors, the ancient Chinese riwem (rong), they are also in Russian transcription zhuns (zhuns-northern and mountain), which

1Countries subordinates or bordering with China, traditionally called possessions China fan (fang).
2In a special article Dr. A. A. Kovailev examines in detail the well-known ancient Chinese ethnonim neighbors and cites numerous interpretations of options for transfers from different sources. Special attention should be given to them in ancient Chinese chronicles mention interest period of the iconic belt plaques, which are actively used nomads northern neighbors of the Chinese in the period of the Western Zhou and later.

literally means: warrior, war chariots, a large military campaign. It is noted that this term is not an ethnonym and is the common name for all the neighbors. The Shang fortunetelling inscriptions on bones and bronze vessels as referred to in the ethnonyms and other concepts: eastern yek (yei), northern ti- (ties), western riwem (zhuns, jungs).21

Insufficiently reasoned opinion submitted by Dr. A. Khodzhaev that riwem (rong, ron) and tiek (ti-di) different names are not two separate ethnic groups, as one people. These links to their military campaign of Jong-wang (1024-1005 BC), captured the leaders of the tribe tiuak (tiek) submitted incorrect and he referred to the military campaign took place much later the first known mention of riwems, as, however and said the author information from later sources.

It is more logical to assume the existence at an early stage, at least two different ethnonyms: riwem (and its derivative forms) earlier and tiuak (ti-di-tiek) later describing the related, but already ethnically diverse peoples. Furthermore, the author himself cites the opinion of Van Gouwmi mention ethnonim tiek (di) on metal vessels of Western Zhou period and it is used frequently in later written sources of VI cent. BC with its subsequent transformation into hu and xiongnu (hun) ethnonyms which has likely designated ancestors of turkic peoples.21,23

In her studies, Kathrine Lindaff16–27 on the basis of territorial distribution of Siberia, Kazakhstan and Altai’s weapons and metallurgic tradition, consistently proves the existence of significant and developed communication between the steppe tribes of the north and the population of the Central Plain of China for a long historical period. Across the northern and north-western border there were new settlements trading posts (factories); steppe women became wives, came to the houses of the local Chinese (Chinese right?), bringing everyday objects, their traditions and customs. Many factors have kept for centuries the material culture of the northern nomads virtually unchanged, without any notable was the influence of traditional Chinese culture.15–20

Leo Klein30,31 rightly believes that the ancient Chinese knew north from three Europeoid people: usuns (asia) yuedzhi and di (loki), while it permits on the basis of borrowed Chinese in terms that someone of them may be Tochars.30,31 The data confirm the use of linguists in Central Asia ancient language of Indo-European root Dardic, Kafir, Tocharian and Indo-Iranian languages of the Rig Veda and Avesta. It is likely that the ancestors of Usuns and Yuezidzhi may be Andronovos’s and Di (ties) Karasak’s peoples. Prof A Suleimanov supports the view of S Kiselev12 about the Türkic types of di (dinlins) direct heirs of Karasak culture and traditions, following the Chinese sources, defines ethnonyms types (di) and dinlins later the body as different forms of ethnonyms ancient Turkic-speaking tribes.3,33 This idea is being actively developed by some contemporary türkologists.14,35

Whatever it was, going back to the sources of the Near East, it is impossible to ignore the documented facts written tradition of borrowing by the Assyrians and Babylonians already in VII cent. BC the belts, bows and arrows by Cimmerian type of horse and military equipment, the Cimmerian Shine and later (since New Assirian and Neo-Babylonian times) Sakas special peaked hats for the riders.15–17,36,37

Indicative in this sense, we present some economic documents the times of Nebuchadnezzar II and Nabonidus. One of them, compiled in 564 BC says: Cimmerian leather straps (are) at the disposal of

2Representatives of the proto-ethnic group in our understanding. Linguists point out significant similarities the Indo-European languages and Altaic families and emit many common roots of words and tokens (up to 90% similarity!) in PIE (early indoarabic-boral after Prof. N.D. Andreev) language.44,46

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horses overseer Rimuta. In a private letter contains a request to send Cimmerian belts in another document a list of clothing, fielding eight archers carrying guard duty, which, inter alia, referred to 116 Cimmerian reed arrows (of which 46 - with iron arrows and the rest with bronze), 56 Akkadian arrows, one Cimmerian bow (along with Akkadian bows) and spears, daggers and shields.\textsuperscript{15} All documents indicate the ownership of these Cimmerian belts or to horse equipment, or to outfit soldiers. In written documents also recorded the names of the first three kings of the Cimmerian, the origin of which can not be reliably determined from the Iranian roots. It is possible their non-Iranian, Anatolian or composite origin.\textsuperscript{17}

**Archaeological sources**

How do the foregoing linguistic data with archaeological finds and dating? According to most researchers, historical monuments identified Cimmerians with Chernogorovsk and Novocherkassk cultures of Eastern European steppes.\textsuperscript{11,13,20} Despite criticism of this concept,\textsuperscript{17,46} a sound is not currently proposed.\textsuperscript{12,14,20} The current state of research Antiquities of Cimmerian by SV Mahotykh\textsuperscript{6} described in, which contains evidence of a link with historical Cimmerians as carriers of Chernogorovsk and Novocherkassk cultures.\textsuperscript{43}

A Terenozhkin\textsuperscript{11} defined chronological framework of Cimmerian culture within 900-650 BC, while stressing the two successive stages of its development Chernogorovsk approx. 900-750 BC and Novocherkassk 750-650 BC. Obtained as innovations in material and spiritual culture associated with this alien population: A strong tradition of bronze casting production of new high-quality weapons\textsuperscript{8} primarily knives and daggers of Karasuk type bladed bronze socketed arrowheads with rhombic or keeled head.\textsuperscript{11,14,46} Types of horse bridles, similar to Arzhan’s: bronze or bone three-holes cheek-pieces spaced along the edges of side holes and the two-parts bits with missing protrusions on the edges of the loops\textsuperscript{51,12,14,69} Cimmerian anthropomorphic stele, possibly originating from the Central Asian deer stones.\textsuperscript{30-54} Prof V Murzin links the origin of the Cimmerians with the penetration of groups of early nomads in the northern Black Sea region, people from the eastern regions of the continent and mixing with the local Iranian-speaking tribes Belozersk native culture of the Late Bronze Age.\textsuperscript{11,17}

Such an understanding of the origin of Antiquities Cimmerian support some other researchers. So, Konstantine Chugunov, developing the concept of Prof. Alexandr Terenozhkin, combines in a single chronological layer of Arzhan-Chernogorovsk antiquity, attributing to him the earliest monuments of Blykentsk culture of Altai and Early Tagar’s monuments of Podgorovsk stage in the Minusinsk Bassin, as well as synchronous from neighboring regions.\textsuperscript{12,58,50} We believe that the origins of the Cimmerians, perhaps rooted in Karasuk antiquities.

**The origin of the karasuk culture**

The main monuments of this type mounds are very rare settlements and cult objects are located mainly in southern Siberia, East Turkestan, Mongolia and North China (Ordos). The entire suite of archaeological cultures Karasuk appearance: Elovsko-Irmensk (Western Siberia, Altai, Southern Urals), Begazy-Dandibay and Dongal (Central Kazakhstan), Early Tagar, Byikensk (Altai, Minusinsk Basin), Aldi-Belsk, Mayemirsk (Sayano-Altai), culture of Kherceurs and Deer stones (East Turkistan, Mongolia) live up to VIII-VI cent. BC.

Most of the carriers of these cultures and cultural traditions united as part of a powerful military-political union in the Central Asia Arzhan’s Tribal Alliance,\textsuperscript{17} formed on the territory of Tuva, Altai and northwestern Mongolia. The term suite of karasukoid cultures we are quite arbitrarily combine different in their characteristics archaeological materials of the Befor Sakas time, perhaps a chronological horizon, which, in our opinion, clearly shown single metallurgical tradition allows for bronze weapons certain types of hollow sleeve and certain products from more durable metal ferrum (iron).\textsuperscript{6}

The property itself dates back to 1440-1130 Karasuk culture (1450-1050 BC) and is synchronized with the period of the reign of ancient Chinese Shang Dynasty, radiocarbon dating is somewhat different with the dynastic chronology. According to radiocarbon dating a period of 1700-1050 BC or the 1600-1046 BC the results of comparing the radiocarbon and dendrochronological scales. Probably with the accumulation of the series will take place some narrowing of the interval and the two systems will be harmonized better.\textsuperscript{20} Modern views on the formation of the culture, history, the stages of its development in detail in the works of P Lazareтов and A Polyakov\textsuperscript{41} and other researchers.\textsuperscript{1,12,62,63}

Traditionally considered the two main concepts of the origin of the Karasuk culture autochthonous\textsuperscript{10,24,44} and the migration.\textsuperscript{18} Moreover, all the researchers are unanimous in the opinion that it is bright and unique culture, is fundamentally different from her previous Eneolithic cultures.\textsuperscript{44} Divided by autochthonous and migration concept is rather conditional, since supporters of both hypotheses recognize the nomadic nature of this culture and do not exclude the migration of some of the clans its carriers. The differences lie in understanding the genetic basis of this culture and direction of local movements.

Prof. Sergay Kiselyov\textsuperscript{12} believed that the appearance of the Karasuk culture in Southern Siberia due to the influx of a new population of the south-east of North China. Prof. Mikhail Gryaznov\textsuperscript{66,64} defines it as a purely South Siberian phenomenon occurring from Andronovo

\textsuperscript{6}We share here the two concepts of “karasaks” and “karasukoids”, based on sociobiological factors\textsuperscript{44} because the latter are derived from the first - "parent" lines of ethnicity in the early stages of its formation with a different geographic location created by the cyclical migrations of these clans. Karasukoids probably are direct descendants of karasaks. Russell in search of new pastures over large areas of the continental steppes, foothills and perceiving through their wives' new elements alien to the spiritual and material culture, to develop their own identity within their clan or community themselves. The time frame of the process defined by a single chronological formation (cultural horizon), dated within the IX-VI cent. BC.

\textsuperscript{6}We do not assume here a detailed analysis of Karasuk archaeological materials contained in these works as part of this brief article, focusing only on the reader's conceptual findings in the study of the history of this vibrant culture.
monuments. Prof. Helonov Novgorodova, based on statistical methods of processing materials, has come to the conclusion that among the tribes of Mongolia, Tuva and Southern Siberia in Karasuk time there was an ethnic connection, the cause of which in a great migration wave swept from the mountain-steppe regions of Central Asia in the north-west side of the Yenisei River and to the west of Mongolia. At the same time, expressed the concept could not explain the origin of the skills development of metal processing and production of bronze, characteristic of Karasus as its own development and earlier time-bronze casting tradition in China and in Mongolia is not fixed.

Dr. Natalia Chlenova attempted to remove this contradiction and to associate the origin of Karasak metal with Louristan bronzes of Iran. She assumed penetration of Karasak elements from Iran through Afghanistan and Xinjiang in Mongolia and then in southern Siberia, Tuva, North China, Trans-Baikal region (from west to east of the continent). Another branch of the Karasak community, in her opinion, was distributed to the west, up to Central Europe. However, it soon became clear that the Louristan bronzes can not be dated before the XII cent. BC and some of the findings were simply fakes in Ziwie. Prof. Helonov Novgorodova the concept of criticism, rightly pointed out that animal style in the Zagros Mountains appear with established canons and forms that are not associated with the traditional images of animals in Iran. Of fundamental importance in this story are identified by Natalia Chlenova areas of spread of the Early Karasak daggers. The most archaic daggers, according to its typology found in the Minusinsk Basin, Ordos and Inner Mongolia, as well as in the Middle East, the Caucasus and northern Iran. Daggers similar type presented by findings from East and Central Kazakhstan and on the west from the steppe Trans-Urals (Bashkirtia). There are daggers unit of this type in Ukraine, up to the North-Western Black Sea.

We believe that after the Natalia Chlenova and Leo Vasilyev that Karasak and Shang culture genetically traced back to some third, still insufficiently known bronze culture. Surely this could be the basis of metallurgical bronze casting tradition, recorded in the monuments of Seima-Turbino transcultural phenomenon. Seima-Turbino finds, first of all weapons: spears and daggers, apparently made of bronze, characteristic of Karasus as its own development and earlier time-bronze casting tradition in China and in Mongolia is not fixed.

Status lap belts and deer stones

It seems that the repeated mention in written sources Cimmerian belt shows their obvious religious significance in society. They are listed as a specific ethnic and social sign, a kind of fashion trend, using modern concepts. Sources tell about their exclusivity, a close acquaintance to manufacture them with the skills to master the care of horses and methods of control animals on horseback or in a carriage. In all of these sources, Cimmerian belts are mentioned only in the context of military uniforms, or as part of a horse harness. Perhaps these straps are connected not only with the horse harness, but also directly with the outfit belts warrior horsemen or charioteers, functional, symbolic and sacred meaning of which is already well described in the literature.

Numerous finds remnants of status double belts are ubiquitous in the archaeological sites Scythian (Befor-Scythian) time on the Eurasian continent and made the reconstruction of these findings, compare them with the pictorial sources and experimental test of their functional purpose prove that they are traditionally used by nomads, in addition to its direct purpose and also for a comfortable fit (suspension) and if necessary the use of different types of weapons associated everyday objects, as well as in communication purposes to demonstrate their own social status.

For horsemen, besides the above advantages, this belt is absolutely necessary and even as a rigid fixation of the waist and internal organs in a significant shaking and lack of adequate depreciation chariots. In full it is also true for both riders and charioteers for other types of carts; confirmed discoveries in the tomb of Tutankhamun the famous amateur riding a chariot, where alongside his crew found disassembled special clothing long strips of fabric that are very tightly wrapped around their travels around the body of the pharaoh in the area of the waist, chest and fixed like a semi-rigid body korset. Operable model yoke as the belt buckles for remote control of the chariot to free the hands of the charioteer archery or the use of other weapons during the battle.
battle has already been proved their location in Karasuk graves and ancient Chinese chemakyns in situ.\textsuperscript{94-96} We do not exclude the use of such plates and the front fence of the body as the chariot of hooks for tying the reins to them chariots. However, this is only possible in later designs of chariots: there is still no evidence of the use of such barriers in the early chariots, dated the first half of the second millennium BC. Anyway, we know iconic monuments and the remains of the crews in the most excavated graves of Early period of the Shang Dynasty show open platforms, without any trace of handrails or high fences (boards), where there was a charioteer who was constantly held in an upright position while on the platform and move balancing on.\textsuperscript{96-97} It was, of course, an individual carriage and riding on it was a serious test. Charioteer maintain its position on this mobile platform on wheels sheer force of the tension of the reins the chariot, the fixed position of feet on the platform with special straps (Gotszyszhan necropolis) own skills and trick riding. The art of managing a chariot, according to ancient Chinese chronicles (Shih Tzu), considered a very dangerous occupation, led to frequent falls chariots and breakdowns require the highest skill, serious driving skills and long training.\textsuperscript{97}

Therefore, we believe that only the most appropriate way of fixing plates on the human body only a leather waist belt in the abdomen. The second belt of this belt sword belt fastened charioteer melee weapon a dagger, check, as well as suspended quiver and / or grindstone. The fastening of the buckle on the belt in the case of tying allows its chariot reins, comfortable enough to drive a chariot and quickly by simply turning the housing in the right direction. The hands remain free chariot archery, javelin, placed usually in the rear of the crew, or to use any type of melee weapons hung from his belt. This way of remote control chariot when the reins tied around waist of charioteer and his hands are free for archery, well known for his paintings of ancient Egyptian chariots rushing into battle compositions and hunting scenes, where the pharaohs and nobles Egyptians exactly manage their crews.

If this is true, it becomes clear standard image on Karasuk deer stones weapons of various types and forms, clearly suspended from the belts depicted in these characters. This kind of pictorial sources\textsuperscript{98} can be considered as a kind of ethnic marker. Geographical distribution of anthropomorphic steles far to the west of the continent be mapped to promote themselves carriers of this tradition.,\textsuperscript{52,53} In our view, this type of Karasuk tribes actively developed this megalithic tradition installation of anthropomorphic stone sculptures (deer stones - Cenotaph) complexes such peculiar cult of honoring soldiers horsemen ancestor aruahs,\textsuperscript{99} in conjunction with the very recognizable Karasuk pictorial tradition, dedicated to the petroglyphs on the rocks.\textsuperscript{93,100}

**Dating**

Based on the above observations, the proliferation of images and the actual finds of real chariots, their production technology and associated set of arms, related cultural traditions: the actual tradition of making themselves chariots, as well as megalithic, pictorial, metallurgical; learning management skills chariots and distribution of a special social status of their respective owners, no doubt, allow to clarify many ethno-cultural and communicative processes during

\textsuperscript{98}We strongly oppose the allocation by Dr. Alex Kovalev the culture of Deer stones, but fully support the conclusions of the two different traditions\textsuperscript{98} in their origin and the territorial extension to the west of the continent, in South Siberia and Kazakhstan.\textsuperscript{52} The idea of these complexes as a cenotaph in our view the most likely correspond to the historical reality.\textsuperscript{99}

this period and become sufficiently reliable guide in the chronology of events and processes of formation of communication of the Early nomads.

The earliest graves with chariots (chemakyns) is traditionally dated in the early periods of Chinese historiography of the Shang Dynasty. In general, a series of dates Shang chemakyns quite heterogeneous.\textsuperscript{94-96,101-103} Materials from Syaomintun, Dasykunst can be attributed to the average period of the Shang Dynasty, radiocarbon dated 1750-1400 BC. Calibration of these dates for dendrochronological scale determines the upper limit of no later than 1550-1520 BC, which is consistent with the dating of the Shang chemakyns by other researchers.\textsuperscript{104-106} This is despite the fact that the earliest two-horse chariot on the Eurasian continent for the first time appeared in the northwest of China, in the Ural-Kazakhstan steppes, much earlier at the turn of the III-II mill. BC.\textsuperscript{52,57,107} and most likely, it is in those places invented as a form of arms and the revolutionary military and economic innovation.\textsuperscript{108,109}

Refine Zhou’s finds dating allows rod-shaped horn cheek-piece (psalii) in the cemetery Bayufu, calibrated radiocarbon dates back to 1120 (+/- 90) BC\textsuperscript{102} or 1085 (+/- 130 BC. This Western Zhou period burial has pronounced features of the steppe the similarity of the materials. Necropolis Luyihe it relates to the already mentioned above the ancient state of Yan in North China, which was, according to archaeological and written sources, active contacts with Late Shang population of the Central Plain of China and with the tribes of the steppe and foothill regions of Central Asia. It is noteworthy that as money in this state used Karasuk knives.\textsuperscript{10} Established and published radiocarbon dating of Bayufu does not coincide with the data of traditional Early Chinese chronicles, which recorded the migration of Yan population of Henan Province in the province Hebei\textsuperscript{11} only during the reign of Cheng-wang in 1024-1005 BC, that may indicate a permanent earlier and later migrations of the steppe nomads on this territory and the existence of a permanent channels of communication.

Necropolis Shantsunlin associated with the ancient Go kingdom, which was destroyed by another state Jin in 655 BC. According to the inscriptions on the vessels of this repository established real officials of the State, who lived in the time of Wang Xuan, who ruled in 827-782 BC. In general, this monument dates back to different times within the second half of the IX - first half of VII cent. BC, which also contradicts radiocarbon dating. Necropolis Chzhantszyaopo dates back to the reign of Cheng Wang and Kang Wang (1004-967 BC) and dated within the end of XI - the first half of the X cent. BC. Parameters dating of model yoke are defined as follows: are the earliest examples of a large grave in Uguantsun (Shang dynasty, second phase of Dasykunst) and the tomb of Fu Hao.\textsuperscript{106} These tombs are dated by radiocarbon (1255 (+/- 160) BC), but this date requires an adjustment of dendrochronological scale, that in any event it determines Karasuk time.

Models yoke spread in the monuments of the Central Plain of China, dated X-IX cent. BC. In the northern regions remained

\textsuperscript{10}However, such a “currency” was also circulated in some other neighboring countries to the north in the Warring States period before the unification of China's Qing emperor Shi Huan-di and even much earlier. Individual images of karasukotids knives life-size carved on the rocks among petroglyphs Maimak sanctuary in southern Kazakhstan, which also speaks in favor of their particular sign and communicative function.

\textsuperscript{11}On the territory of this province is a modern city of Beijing, in the vicinity of which excavated burial Bayufu
relatively primitive form of these products, which is quite late reaches Minusinsk Basin and more western areas.\textsuperscript{106} According to the author, based on written sources (annals of bamboo), Shang civilization began in 1523 BC and In\textsuperscript{13} ends in the 1300 BC\textsuperscript{106} and the transition from Shang to Western Zhou took place in 1027 BC. Questions dating final stages of the existence of things north complex on the territory of modern China, especially the Late Bronze Age daggers and corresponding chemakyns and chariot equipment, discussed in detail by Dr. Jung Suk Bae: daggers with zoomorphic tops and curved handle type Chadaogou he dates within the XIII-X cent. BC; daggers with a curved handle and pommele the second half of XII - the middle of the IX cent. BC; daggers with straight handle with grooves or without them the end of the X cent. until the VIII cent. BC (Nanshangen, Bayfu) and even later.\textsuperscript{9} Such dating may be similar to findings by its control of daggers in the Iranian Louristan and syncing.

**The Iranian channel of communication**

Prof. E Grantovsky\textsuperscript{10,11} based on the analysis of some Iranian names of the rulers of Asia Minor and synchronous archaeological materials found that Protoiranian first began to appear in the territory of the Iranian plateau at the end of the II mill. BC and became plentiful here in the VIII cent. BC. In the culture of Iran in this period, a number of significant innovations in the monuments of fixed objects become known now as the Louristan Bronzes. Thus, in Hasanlu, Dink Tepe, Marlik, Babakan found alien ancient cultures of Iran rite ritual burial horses and in Louristan and Sialk VI ritual burial harness; bronze art in this period, notes the many images of people, riders, horses, griffins found in Amlashe and executed in the traditions and canons of the animal style. In Sialk VI and Gyan found the bronze bridle of Scythian type.\textsuperscript{17,111} Prof. R Ghirshman\textsuperscript{17,68} first compared these innovations in culture, tracked them Sialk, with the migration of the Indo-Iranians. This assumption is supported by the fact that these new features in the spiritual culture of Iran have a long tradition in the development of the Eurasian steppes.\textsuperscript{111-115} Apparently, the ritual burials and images of horses and riders record the path of the Iranian-speaking tribes to move to the Iranian plateau and brought with them skills of chariotry, horse-ridding, horse breeding and horse cult in general. Illustrative and key in this sense, we are the so-called Louristan Bronzes a collection of many different items, artfully poured out of high-quality metal with a high content of tin, made in an elegant art style, found mainly on the territory of the Iranian province of Louristan and presented today in expositions many of the largest museums in the world. Unfortunately, the vast majority of these remarkable objects are random finds, objects looting tombs, settlements, poorly documented, they themselves are not described in full and are not classified properly.

In the examples from the collection of Louristan Bronzes in the National Museum in Tehran and in the Archaeological Museum in the city of Hamadan\textsuperscript{12} of the Islamic Republic of Iran, with which the author was able to read, definitely divided into the following categories: anthropomorph plastic items; parts of horse harness (bridle sets, some cheek-pieces and bells); jewelry (bracelets, pins, badges, earrings) and superior weapons a unique form of axes, daggers and arrowheads of Karenk types.\textsuperscript{8,10,10} As part of this article briefly on only one category horse equipment and related communications features. Louristan bridle sets are solid bronze objects with one-piece rod mouthpiece, the edges of which there is cast bronze. Ends gnawed decorated in a twisted ring, which is attached to the ends of the reins. The design of such a kit is very painful for the horse in operation since literally breaks the edge of the animal’s mouth and repeats the action functional snaffle bridle type (using the cheek-piece (psali) with spikes). According to experts, these early forms of the Middle East bridle sets could only be used in the chariot teams, which required a very strict remote control as opposed to riding a horse, because only they can ensure adequate and effective remote impact on the harness horses is in the management of fast chariot.\textsuperscript{116} This innovation could also be used for ill-trained, semi-wild horses from the herd, which only started to go around. It is likely that the first riding horses has become a well-trained and trained horses of the chariot rides pair.\textsuperscript{116,117}

With the communicative point of view these bridle sets also noteworthy: highly artistic pictorial tradition in which they are made, very close to Central Asian figurative tradition in Zhetysu and Saryarka (Kazakhstan)\textsuperscript{118} and finds some similarities in synchronous Caucasian bronzes.\textsuperscript{119} Besides the general similarities in the iconography and repertoire, refers to the paired figures of animals: feline predators and horses, arranged vertically and feet together. These compositions were sealed and some bronze cheek-piece (psali) considered bridle sets (one gnawed + are always a couple of cheek-pieces (psali) in the form of figures of horses, wild rams, at least other animal species, but always pair) and other categories of objects of Louristan Bronzes (ornaments, plaques, tops of cults heads or special tops that were used to decorate the carriages) and petroglyphs on the rocks in Central Asia.\textsuperscript{91}

Binary cheek-piece’s motifs, their plots, species composition depicted animals and most importantly the manner of their implementation are very close to already established canons of the Scythian-Siberian (Saka) animal style.\textsuperscript{11} Moreover, one of the cheek-piece in the form of figurines of horses, found during excavations of Ebetana, the horse on his thigh, found tamga-shaped sign in the shape of a cross inscribed in a circle. This fact evidence of ancient and very important tradition of marking horses at the steppe, recorded by many sources, both written (Chronicles of Tanhuyyao, ancient Chinese, for example) and iconic (petroglyphs of Kulzhabasy, for example [120]). Customs entries in check-points in the north-western border of the Chinese empire firmly fixed on this tradition and more show the schedule of specific tamgas (signs of identity) genera steppe clans traditionally supplying trained horses in China.\textsuperscript{121}

It is noteworthy that the tradition of branding horses are still preserved in Mongolia, Tuva, Khakassia, virtually all known nomadic peoples, the Kazakh Zhuzu among 31st varieties graphics of tamga members of the confederacy of tribes 13 tamgas (slightly less than half !) make different variations of the circle (the possible symbols of the sun, moon or wheel).\textsuperscript{122} Dr. Napi Bazylhan rightly so round tamgas connects with one of the most ancient Kazakh tribes Dulat (tou-lou in the Chinese annals).\textsuperscript{14} Curiously, the picturesque ruins of the capital of Cyrus the Great Pasargades, her once majestic buildings and religious temples, now labeled tamgas as circles and petroglyphs, who confidently identified as the traditional Turkic petroglyphs Numerous Turkic tamgas plot drawings mountain goats, horsemen, archers, anthropomorphic characters, peculiar to Turk’s petroglyph pictorial tradition,\textsuperscript{91} widespread in the northern regions of Central Asia Kazakhstan, Altai, East and West Turkestan. Obviously, these

\textsuperscript{12}There is absolutely no images executed in early Arzhan-Mayemirk style, dedicated to their time by Prof. Jacob A Sher on specific images of deer and their posterises to "tups hoves" of Arzhan 1

\textsuperscript{14}And it seems to us - this sign can be identified already mentioned in these pages clan tele-di-dinlins.

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petroglyphs were carved on the already ruined buildings of the city and left specific nomadic Turkic roots, as the fact of fixing stay here and ownership of these iconic for their land, directly related to their already distant forefathers, the memory of which are stored in the genetic component of this society in its code of self-identification.  

On no less significant role in the ancient Iranian society trained horses, horse riders and chariots evidenced by numerous written sources: the title of the ruler, indicating in a literal translation the control of horses and the names of the rulers of one of the etymologies: Tvishratha having a racing chariot, Abirattash Stand facing the chariots, Vridhashva has great horses. 124 The existence of a privileged class of soldiers (charioteers and/or riders) indicates the term Marianne, indicating to know from the Indo-Iranian Mar a man. 111 In general, the situation on the Iranian plateau is consistent with the ideas expressed by Prof. Helena Kuzmina is localization and development of the Indo-Iranian (Aryan) ethnics including in Central and Southwest Asia, including the north of the Indian subcontinent (Andronovo), their progress from the Ural-Kazakhstan and South Russian, Ukrainian steppe (Subnaya) in the south; 125-127 It can be explained in the light of the theory of L. Gray and T. Barrow, the resettlement of Indo-Aryans and Protoiraniens. 124,125 Indeed, identified channels of communication corresponds to the assumption of several waves of migrations of ancient Aryan (Indo-Iranians) and are reflected in the Avesta legends about the general ancestor of the Indo-Iranians and Yam (Yima), which is three times expanding their land to the south, when it overflowed cattle, humans, dogs, birds and red lights glowing. In ancient Avesta texts described the central karshvar Hvanirata 110 the country’s of good chariots bordered by two mighty rivers Raha and Vahvi-Dayta taking its origins in the world mountain Hara and the current in the Middle Sea Varukarta. On the whole territory of the country takes another 18 rivers. In another description of the ancestral home of the country’s stated view Aryan-Vaydzha (Aryan space), where only river Vahvi Dayta is the center of the Aryan world order. Some scholars identify Raha rivers as the Volga and Vahvi-Dayta to the Amu Darya. 126 

Written sources, mostly Vedic indicate Aryan ethnic heterogeneity: widespread tales of struggle devas (protoinduses) with his older brothers the asuras (protoiraniens), the latter are divided into daityas and danavas descendants of river goddesses Diti and Danu. The Rigveda asuras mentioned as very real and specific enemies. Each of the ancient Iranian people there ethnogenic own legend in which he was represented by a descendant of the hero-ancestor and spirit (is always in female form), the main river in the country of residence of the people. 126 In addition, the Indo-Iranian sung and written sources are often referred to permanent and powerful enemies of Avestan Aryans mysterious tours. The names of their leaders do not like the Iranian or Indian and, apparently, these tribes are very different ethnic group, but very close and related to the initial stage of the ethnogenesis of Indo-Aryan or Tocharian. 

Obviously, such a heterogeneity of the Indo-Iranian ethnic group comes from the nature of the territorial settlement of these societies the gradual carting young members of the clan in search of new pastures, new ecological niches, in one - steppe landscape. The internal rules of the world order and self-sufficient and independent of the clan, its own mini-universe of its own world order within the boundaries of the clan, regulated by sociobiological factor the status-sex. 58,97,127 The interaction of parents with the local population, as well as migration of the youngest part of the clan, is constantly given new lines of development of this ethnic-clan (group of related clans) in the form of the formation of new technological skills in the material culture by means of their generation, or borrowing through their local women, the perception of other cultures customs and traditions of their own ethnic identity traits. All this led to a gradual transformation and sometimes complete assimilation and the dissolution of the local environment, primarily the parent lines of development, which, however, depended on the specific local conditions and the surrounding cultural environment. This is a feature of ethnogenesis nomads in the absence of well-defined area of formation of the ethnic group (or rather the complexities of the definition of such), the ancestral home of the mobile nature of any nomadic ethnic group. 93 

Thus, in the monuments Karasuk appearance and before Sakas time found plates with images of chariots (Arzhan 2, necropolis Kara-Sak, Turquoise, Arzhan 3, necropolis Karasuk, Tagar, Khyzyl), Karasuk petroglyphs on the rocks, 128 details of chariot harness 58,94,96 and a set of weapons of charioteers (in petroglyphs, deer stones and graves), other artifacts, 129 the production of which is based on technology of socketed cast a unique bronze casting tradition. It seems that such a strong tradition figurative and metallurgical could occur in these areas under the influence of Seima- Turbin pulse, which apparently became the basis of formed later Karasuk and Tagar cultures. Graphic of Karasuk tradition manifested in numerous petroglyphs in Kazakhstan, Southern Siberia, Mongolia, China and Eurasian deer stones, as well as in the art of the Caucasus and Louristan bronzes. 

Bright metallurgical tradition originally actively developing in the territory of Altai, Kazakhstan, East Turkestan and Inner Mongolia and then, as a result of interaction with the cultures of the Central Plains of China, the Iranian plateau, just expands its borders up to Eastern Europe and the Black Sea region. 46, 47 Perhaps this tradition of bronze casting, in combination with other advanced skills early developed a natural monopoly on the mass breeding and training horses for riding in chariots, became the basis of the power of Karasuk-Cimmerians and provided them with a significant advance far to the west of the continent. Traditionally, in the era of Early nomads riding horse and cavalry, as an effective new means of warfare, the communicator and how to clear a military innovation, coupled with the progressive forms of horse equipment 17 and weapons 18 allowed to make successful military campaigns in the territory of Western Asia, Near East and Eastern Europe become a formidable force in the context of geopolitical relations in all the Ancient East. 

110Thus, on these ruins was captured popular petroglyphs and especially in the Turkic time, the mens series - "I was here (my clan) favorite" content like other famous epigraph monuments of Turkic inscriptions on ceramics, on the artifacts and on the rocks. Their meaning in the analysis of the text messages, reduced to almost one statement (and fixing and the proclamation) ownership of the object, terrain, territory, pitcher, mirror and so on. According to verbal communication and amiable advice of Prof. Sergy Yatsenko, these petroglyphs and tangas may be associated with many nomadic Turkic Qashqai tribe, settled in this area 300 years ago as a military settlers. However, we expect a more ancient age of these tangas and petroglyphs. In any event, the detailed study of this phenomenon deserves a separate study and should be applied in other specific applications. 

111It is possible, in a form transmitted name of the country of the Cimmerians - Gumirayya. 

124This refers to the different types of horse bridle horse: semi-rigid - at Sakas and hard saddles, stirrups Turks. 

125This refers to the specific types of bows and arrows and later with a long shaft of copies of the Sarmatians and Turks. Evolutionary this series is made in the complex weapons steppe knights - cataphractas (katafraktries) - a symbiosis of a horse and rider, perfectly protected by a special armor of all types of offensive weapons.
However, in developed countries of the Old World at the time, as in the West in Assyria, Persia, the Hittite kingdom in the ancient Greek polis and in the east in the ancient China, the army of their rulers were formed on the basis of mobile and well-trained units, consisting, in particular, of the large number of well-equipped with chariots, wagons baggage (supply vans) and yet very few groups of horse-riders. It is possible that to successfully resist such a huge and well-armed armies of Early nomadic tribes would have to use in their military units along with a well-trained and armed more riders and chariots. New findings on the territory of modern Kazakhstan and adjacent regions, allow to clarify this thesis. Among these amazing testimonies relate primarily wooden comb with a picture of the chariot and horse equipment some items from the burial of mound 6 in the Taksai I complex in the West Kazakhstan region, dated VI - the beginning of the V cent. BC.\textsuperscript{133}\textsuperscript{17} We can not say that the plot of chariots on the Taksay crest is only borrowed, or comb is made by the order in Persia, Assyria or Urartu. Features of technology of its execution, iconography, some of the details: the arcuate side of the body, physical type of characters and their position clearly indicate that the ridge is made, most likely by local craftsmen. In addition, there are direct analogies in the materials of Tasmola culture monuments and some burials of Arzhan I in Tuva, in southern Siberia,\textsuperscript{95,97,130,131} in Arzhan I,\textsuperscript{42,112} in the burial of mound 6 in the Taksay I,\textsuperscript{134} in the necropolis Kyrkyk Obu\textsuperscript{135} and in Tuva and in the southern foothills of the Urals, it was found important evidence of the complex of Asian chariots chariot obvious achievements of local technology. The presence in the grave of Taksay I the persian glass jugs, comb with chariots, plot and accidentally found next to a silver rhyton indicates active communication and cultural contacts with Assyria, Persia and other regions of the Near East during the time recorded in the written records of military campaigns of Cimmerians and then the Sakas of the Central Asia. These countries and their subsequent integration (disintegration) as part of the Achaemenid Empire.\textsuperscript{124,148}

The tradition of building a two-horse chariots and wheeled carts appeared in the Bronze Age, was developed in Karasuk and Late Karasuk environment, as more likely to show an image of chariots on the Taksay crest is only borrowed, or comb is made by the order in Persia, Assyria or Urartu. Features of technology of its execution, iconography, some of the details: the arcuate side of the body, physical type of characters and their position clearly indicate that the ridge is made, most likely by local craftsmen. In addition, there are direct analogies in the materials of Tasmola culture monuments and some burials of Arzhan I in Tuva, in southern Siberia,\textsuperscript{95,97,130,131} in Arzhan I,\textsuperscript{42,112} in the burial of mound 6 in the Taksay I,\textsuperscript{134} in the necropolis Kyrkyk Obu\textsuperscript{135} and in Tuva and in the southern foothills of the Urals, it was found important evidence of the complex of Asian chariots chariot obvious achievements of local technology. The presence in the grave of Taksay I the persian glass jugs, comb with chariots, plot and accidentally found next to a silver rhyton indicates active communication and cultural contacts with Assyria, Persia and other regions of the Near East during the time recorded in the written records of military campaigns of Cimmerians and then the Sakas of the Central Asia. These countries and their subsequent integration (disintegration) as part of the Achaemenid Empire.\textsuperscript{124,148}

The tradition of building a two-horse chariots and wheeled carts appeared in the Bronze Age, was developed in Karasuk and Late Karasuk environment, as more likely to show an image of chariots on the walls of tombs in the petroglyphs on fences in Arzhan II, imitation burials with chariots in Arzhan I, picture chariots with Karasuk weapons and items chariot complex on deer stones. New findings of the Kazakh archaeologists confirm the active use of chariots in Sakas-Sarmathian communities.\textsuperscript{140,141} Opening in Pazyryk mounds of different types of vehicles trucks gigs, carts and four-wheel covered wagon executive type indicates the development of local traditions of their production,\textsuperscript{142} which embodies the underlying ideas of ancient Alti and skills, preserved by the times of their ancestors horsemen.

From a brief review of the development of vehicles in the Early nomads\textsuperscript{15,199} the following assumptions about the use of a variety of types of wheeled vehicles and much more active than previously thought, the use of wheeled transport in their daily lives. This conclusion is evidenced by the data later written and pictorial sources of Turkic period. Known information about wagons loaded with treasures, at the headquarters of the Western Turkic Kagan Istemi, seen there Zemarh, envoy of the Byzantine emperor and in the “History of the Sui Dynasty” Referred to the nomadic Turkic tribes with a common name is already known to us the body, that “when moving used covered wagons with high wheels”.\textsuperscript{199} It is with the ancestors of the Turkic-speaking tribes of the body and their alleged more distant relatives dinlins clearly identified with the carriers of Karasuk culture perhaps known in the Near Eastern literary tradition as the Cimmerians.

In general, as set out here understand the historical significance of Seima-Turbin andronovo and Karasuk antiquities, as the dynamics of its development and in the relationships of carriers with other communities, based on communication which lay sociobiological factor status-sex, a common ethnic roots, the overall framework, to form the vast Ural-Altau-Kazakh, Minusinsk steps within our earlier concept of the ancestral home of the nomadic Indo-Europeans.\textsuperscript{93} Indo-Aryan or Tocharian ethnic identity later became possible base formed later Karasuk (Cimmerian?) Ethnic group is inherently identification proto, somewhere on the steps of Eastern Turkestan, Mongolia, Ordos (Gumirayi?) and the population carcase and Andronov communities and also, apparently, it was Tazabagyab culture and Indo-Iranian ethnic basis Scythian-Sakas tribes community. Perhaps it Karasuk tribes later became known in ancient Iranian sources as tours to the ancient Chinese as the tiekis - the (di) in Assyrian kevi or as a Cimmerian. Ancient Chinese written sources specify ethno-cultural situation in Central Asia and give reason to assume the existence of several large ethnic groups of rivems (possible ancestors wusuns and yuezhdy and tyres (di) tieks dinlins - (possible karasukians) on the northern and western borders of the Central Plains China.

Attempts to find the remains of material culture tours-ti-Cimmerian-karasukians in the territories of the ancient Near East\textsuperscript{17} submitted in advance doomed to failure because they were mobile raids, hiking exclusively for prey, “lightning” on the historical scale; probably fallen soldiers according to the prevailing burial traditions were burned and in memory of their heroic deeds at home in Gumiraye, unique cenotaphs erected many memorial complexes with deer stones and without them.\textsuperscript{199} Considered period in the history of the population of Eurasian steppe communications demonstrate the formation of loops and channels of communication livestock on the basis of new inventions, which brought to the forefront of world history, as opposed to the soldier-charioteer, horseman warrior on horseback.\textsuperscript{51,197,198,199} Development of communications at this time leads to important historical events the development of new routes of the Silk Road, to the Great Migration return migration from east to west on the ancestral home of his distant ancestor, had become semi-mythical and revered heroes of verbal and visual art, the characters of the heroic epic, mythological stories and legends.\textsuperscript{200-223}

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