LVI. Methodology for Systemic Geopolitical Analysis according to the Lakatosian Model

۲

[Published first in: Contribution au Séminaire de Avrasya Ensitüsü İstanbul Üniversitesi, 5 mars 2014]

Definition of Modern Systemic Geopolitics [I. Th. Mazis]

The Geopolitical analysis of a geographical System characterised by an uneven distribution of power is "the geographical method that studies, describes and predicts the attitudes and the consequences ensuing from relations between the opposing and distinct political practices for the redistribution of power as well as their ideological metaphysics, within the framework of the geographical complexes where these practices apply".

()

Designing a methodological proposal (1st Stage)

Decoding the title of the topic:

()

The title of the topic of a study of geopolitical analysis (should) define(s) the facts and the objectives of our problem. In particular it defines:

1) The **boundaries of the Geographical Complex** which constitutes the geographical area to be analyzed.

2) The (internal or external) space of the Complex under study as a field of distribution or redistribution of power due to the activity of a specific geopolitical factor.

3) The **above-mentioned geopolitical factor**, the impact of which may affect the distribution of power, within or outside this Geographical Complex.

 (\blacklozenge)

Decoding the title of the Topic -Example

Topic: "The Geopolitics of the Islamic movement in the Greater Middle East"

Analysis of the Title

()

i) Identification of the boundaries of the Geographical Complex:

The boundaries of the Geographical Complex are defined by the term "Greater Middle East".

ii) The precise identification of the Space under study:

The Space under study of this specific Complex is the "interior" space of the Geographical Complex of the Greater Middle East and this is evident by the use of "in", i.e. "in the inside of...", "within the boundaries of...".

iii) Identification of the Geopolitical Factor:

The designated Geopolitical Factor is the "Islamist movement".

Identifying the boundaries of the Geopolitical Systems under study (2nd Stage)

At this stage, we identify the boundaries of the Geopolitical Systems within which we are going to study the activity (or activities) of the Geopolitical Factor defined in the title.

There are three levels of Systems defined according to the extent of the geographic area they refer to:

i) **Sub-systems** that are subsets of the Systems.

ii) The **System** that is the Geographical Complex under investigation.

iii) **Supra-Systems**, containing the main System under study -as a subset along with other Systems that may not concern the current analysis.

In order to define the System/Geographical Complex in question in terms of geographical extent, a qualitative trait is also required, one that will identify -with its very presence, its forms and its level of influences- the extent of the geographical areas of the above-mentioned Systemic levels/scales.

()

Without this qualitative trait and its particular characteristics, the definition of the three above-mentioned levels of Systems would not only be impossible, but also meaningless.

Defining the Systems - Example

In the above-mentioned topic the boundaries of the Systemic levels are defined as follows:

1) System:

 (\bullet)

The Geographical Complex of the **Greater Middle East**, not only because it is stated in the title, which already consists a fundamental criterion, but also because of the fact that the "Geopolitical factor", i.e., the "Islamist movement", exists, acts, and affects the whole geographical area of the Complex.

2) Sub-systems:

• The "Islamist movement in Maghreb" constitutes a Sub-system due to its peculiarities that relate to the cultural, economic, political and organisational character of Islam in this geographical area.

• The "Islamist movement in the Middle East", for the same reasons.

• The "Afghan-Pakistani and the Iranian Islamic movement".

3) Supra-system:

We can define as Supra-system the entity with the following characteristics: i) state Power Poles; ii) International Collective Security Systems (e.g., NATO); iii) supranational Collective Systems in general (e.g., EU, UN); iv) International Multinational Financial or Operational Power Poles which influence the "Geopolitical factor" acting, however, from the External space of the Geographical Complex.

Defining the fields of influence of the "geopolitical factor" (3rd Stage)

۲

Once we have defined the three levels of Systems, we should identify the fields of geopolitical influence of the "geopolitical factor" under study.

In other words, we should determine which combination of the four "fields" or "geopolitical pillars" of the given "geopolitical factor" we are going to investigate, always within the framework of the chosen Systemic scale (e.g. on the level of "System" or on the level of "Subsystems").

In order to follow a rational order in the examination of the influences of the Geopolitical Factor (GP) we should start the investigation from the "Supra-systems" level and continue with the "System" level. Such a sequential order should prove that, in most cases, if the analysis of the influences of the GP on the level of the Sub-systems is completed, and if Sub-systems have been correctly identified, the respective analysis on the level of the whole System is also completed.

The Geopolitical pillars are as follows:

- a) Defence/Security
- b) Economy
- c) Politics

()

d) Culture and Information

The aforementioned pillars are examined in terms of power, e.g. economic power, political power, etc.

Identifying the function of the Geopolitical factor for the specific pillars of influence – Example

At this stage we are going to identify the geopolitical trends-dynamics for each designated Subsystem. These trends are identified only and exclusively in terms of "power". They answer the following questions:

1) The pillars (defence, economy, politics, culture) where the "geopolitical factor" under study prevails (in our case the GF "Islamist movement") and by consequence already determines or may determine their attitude within the framework of each Sub-system. This type of conclu-

sion is defined as "positive sub-systemic component of the trend power" of the "geopolitical factor" in the "Interior of the System".

۲

2) Which pillars absorb the influence of the "geopolitical factor", and by consequence, it does not influence the whole attitude of the Subsystem. This form of conclusion is defined as "zero sub-systemic component power trend" of the "geopolitical factor" in the "Interior of the System".

Synthesis (4th Stage)

Definition

The term "synthesis" refers to the procedure through which we can detect the **Resultant Power Trend** of the given Geopolitical factor on whichever final systemic scale (e.g. Sub-system, System or Supra-system level).

- 1st case:

()

In case we have detected and defined the particular **power components** (of the geopolitical factor at hand) on the Sub-system level, and our objective is the Component of the System on the systemic level, then **the stage of synthesis begins from the level of the System**.

- 2nd case:

In case the component in question is on the level of the Supra-system, then the stage of Synthesis starts after the conclusion of the Analysis of the components of the individual Systems. This means that the synthesis should start from the level of **Sub-systems**, and we should then shape the image of the components on the level of Systems, and finally conclude with the **identification of the component on the level of Supra-system**.

Conclusions (5th Stage)

The last stage of the geopolitical analysis is that of Conclusions. At this stage we must describe the geopolitical dynamics, to which the "Component of power" of the "geopolitical factor" under study, subjects

()

the attitude of the System examined, in the context of the Supra-system.

۲

We must stress that: At this stage of the study, as in any other stage of the aforementioned geopolitical analysis, we make no proposals.

i) At this stage, we discover: structures, actions, functions, influences, forms and dynamics of the geopolitical factor and we describe them.

ii) We also describe how they affect the attitude of the System.

Proposals do not form part of a Geopolitical Analysis. They are part of the **Geo-strategic approach** which may be carried out, only if asked and by exploiting the results of the geopolitical analysis preceding.

The Lakatosian Structure of the Systemic Geopolitical Analysis Contents

- I. Definition of the fundamental axiomatic assumptions (elements) of the hard core of the geopolitical research programme [1-3]
- II. Definition of the auxiliary hypotheses (elements [e]) of the protective belt of the geopolitical research project [1-5]
- III. The issue of the positive heuristics of the geopolitical research programme
- IV. The elements of the positive heuristics of the geopolitical research programme

Fundamental axiomatic assumptions (elements) of the hard core of the geopolitical research programme

According to the Lakatosian meta-theoretical approach, as it is encoded by Elman, C. & Elman, M. F., the hard core (fundamental assumptions) constitutes the basic premise of a research programme. The hard core is protected by negative heuristics, in short, by the rule that prohibits researchers to contradict the fundamental ideas of a given research programme, i.e., with the *hard core* of the programme (as an attempt to address new empirical data which tend to invalidate the theory).

Any change to the hard core would mean the creation of a new Research Programme, since it is clear that the hard core is the element that determines the character of a Programme. It is therefore obvious, from a Lakatosian point of view, that if the core changes, the Research Programme also changes.

 $(\mathbf{0})$

That being said, we believe that:

The first fundamental axiomatic assumption (element 1), which constitutes the centre of the hard core of the geopolitical research programme, is that all the characteristics of the above-mentioned subspaces of the geographical complex are countable or can be counted, through the countable results which they produce, e.g., the concept of "democraticity" of a polity (according to western standards, since there are no other). This is a concept identified as a Geopolitical Index within the framework of the secondary causative "Political Space", as defined earlier, and can be countable by means of a multitude of specific results, which it produces in the society where this form of political governance is applied.

Such are for example the number of printed and electronic media in the specific society, the number of political prisoners or their absence, the level of protection of children of single-parent families, the number of reception areas for immigrants and density of the latter per m² etc. These figures are classified, systematized and evaluated according to their specific gravity concerning the function of the figure to be quantified, and constitute the Geopolitical Indices that we are going to present and examine in detail below.

The second fundamental axiomatic assumption (element 2) of the hard core of the systemic geopolitical programme is that, within the framework of the geographical area under study, there exist more than two consistent and homogeneous Poles which are also:

i) self-determined (as to "what" they consider "gain" and "loss" for themselves), and also in relation to their international environment;

ii) hetero-determined, uniformly and identically to their international environment which is determined by the international actors that dwell within them and their common systemic relation is their characteristic.

As we have already mentioned and analyzed, according to the Lakatosian meta-theoretical approach, a research programme has the protec-

()

tive belt of complementary hypotheses, i.e., proposals that are subject to control, adaptation and re-adaptation, and that are replaced when new empirical data come to light.

۲

Moreover, given Lakatos's dictum that "in the positive heuristic of a programme there is, right at the start, a general outline of how to build the protective belts" and that "a research programme [is defined] as degenerating even if it anticipates novel facts but does so in a patched-up development rather than by a coherent, pre-planned positive heuristic" (Lakatos, 1971b: 125), we should proceed by formulating a (provisional) definition of that protective belt for our research programme.

Consequently, following the Lakatosian meta-theoretical paradigm, the protective belt of the geopolitical research programme should be defined, complemented with the following auxiliary hypotheses-elements:

(element [e1]): First auxiliary hypothesis of the protective belt of the geopolitical research programme: the size of the power is analyzed in four fundamental entities (Defence, Economy, Politics, Culture/ Information), which in turn are analyzed in a number of geopolitical indices. These Geopolitical Indices, as already mentioned, are countable or can be counted and they are detected and counted in the internal structures of the those Poles that each time constitute the Sub-systems of the Geographical Complexes under geopolitical analysis.

(element [e2]): Second auxiliary hypothesis of the protective belt of the geopolitical research programme: the above Poles constitute fundamental structural components of an international, and everchanging, unstable System.

(element [e3]): Third auxiliary hypothesis of the protective belt of the geopolitical research programme: these Poles express social volitions or volitions of the deciding factors that characterize the international attitude of the Pole. Consequently, these poles can be national states, collective international institutions (e.g., international collective security systems, international development institutions, international cultural institutions), economic organisations of an international scope (i.e., multinational companies, bank consortia) or combinations of the above which, however, present uniformity of action within the international framework concerning their systemic functioning.

(element [e4]): Fourth auxiliary hypothesis of the protective belt of the geopolitical research programme: consists of the above-men-

tioned "causal and causative" notions of the "Primary", "Secondary" and "Tertiary Space", as well as their combinations ("Complete" and «Special Composite Spaces").

۲

(element [e5] Fifth auxiliary hypothesis of the protective belt of the geopolitical research programme is the premise that the international system has a completely unsure, unstable and changing structure.

(element [e6] Sixth auxiliary hypothesis of the protective belt of the geopolitical research programme: systemic geopolitical analysis aims to conclusions of "practicology", shortly, of some "theory of practice" (R. Aron), i.e., to the construction of a predictive model of the trends of power redistribution and in no case to "guidelines for action under some specific national or "polarized" perspective. The latter is nothing but the "geostrategic biased synthesis", not a "geopolitical analysis". This equals the use of the results (of the model of power redistribution) of the geopolitical analysis and follows the stage of geopolitical analysis.

We must note that the "historicity" of the elements of the research programme is represented by the cultural formations developing in the context of the fourth geopolitical pillar. Thus, their countability is possible in the same way as is for the rest of the geopolitical pillars that have a "qualitative nature", by means of the "geopolitical indices" of the Cultural pillar.

 (\bullet)

1. At this stage we should not forget that replacing a set of auxiliary assumptions by another set, is an intra-programme problemshift, since only the protective belt and not the hard core is altered. The intra-programme problemshifts should be made in accordance with the positive heuristics of the problem that is with a set of suggestions or advices that function as guidelines for the development of particular theories within the programme.

2. We should also emphasize that, a key concern of the Geopolitical Research Programme is to describe the suggestions to the researcher that will determine the content of the positive heuristics of the Programme in question. Without them, it is impossible to assess the progressivism of the Geopolitical analysis according to the necessary "novel empirical content" expected in our analytical spatial paradigm (model).

Given these necessary clarifications concerning the elements of the **positive heuristics of the geopolitical research programme**, we define the following:

1) The methodology of each theoretical approach should remain stable until a possible detection of continuous degeneration.

()

2) The requirement of predictive ability and the expansion of the empirical basis of the theoretical approach should be maintained.

3) The empirical facts should constitute the final measure for assessing competitive theoretical approaches of the same set [research programme].

4) The facts that have been used to test a theoretical approach should not be the only ones used for verifying this approach but, with the progress of time of research, the testing of the theoretical approach should be re-fed also with facts that derive from the expansion of the empirical basis of the given approach.

Bibliography

()

Mazis, I.Th., Γεωπολιτική & Διεθνείς Σχέσεις: Μεταθεωρητική Κοιτική στο Νεοθετικιστικό πλαίσιο (Géopolitique et Relations internationales: critique métathéorique dans le cadre néopositiviste), Papazissis, Athènes 2012