

A G C C
Action Group for Complexity-driven Change

Theory of Violence

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Executive Summary

AGCC is an international and interdisciplinary group around Andrés Ginestet, attempting to help reduce violence in the world. Many other groups of most serious peoples - governmental or non-governmental, public and/or private, etc. are active in that field, which, in turn, is being studied inside many connected fields/disciplines in academia. Systematic programmatic recommendations are being analyzed, set up and followed; and the outcomes are being monitored and evaluated. True progress seems to be marginal at best.

The difference AGCC thinks, it can make, comes from its four-prong approach:

First, there is recognition of the systemic nature of violence (and historically strong auto-regressivity) reproducing similar behavioral patterns inside humankind. This leads to our understanding that global solutions are required.

Second, there is recognition of the need for very broad inter-, trans-, and cross-disciplinary approaches in addressing the problem of violence. This comes combined with the strong belief we share that such an approach may yield access to better knowledge about, and to a more thorough understanding of the multitude of factors affecting systemic reproduction of violent behaviors worldwide.

Third, a recognition of the importance of the behaviors of complex adaptive systems and the influence such behavior could make in amplifying potential rate of success of the violence-reducing initiatives AGCC proposes. Intrinsic in this approach is the belief that a self-replicating System of Violence can most probably only be turned-around using response resources proportionality and/or (over-) dis-proportionality. This means that at least a balance has to be stricken between the sizes of resources driving auto-regressive self-replication of a System of Violence and the resources dedicated (and to be dedicated) in response to those, targeting a halt of the self-replication and a reversal of the trend. Here we assume, that humankind as a system

is possibly faced with at least two contradictory and competing internal forces. First, an internal (Darwin's evolutionary theory driven) systemic violence drive (SVD). Second, an internal "humanizing" drive to overcome this violence, and to self-impose an orderly set of human values, that are non-violent in nature. (Humanizing Systemic Non-Violent Drive—HSN-VD). Complex adaptive systems behaviors may thus be used (harnessed) to effectively and successfully "oppose" the latter to the former, in a manner that would be over time reducing the influence of the former in favor of the latter.

Fourth, the pragmatic applied nature of the work of this group stems from the critical finding that current action—whether in theory building or applying available knowledge in practice—continues to seem limited in eliciting progress at the systemic level. All too often rhetoric asserts the contrary, yet at a thorough analysis the System of Violence continues to self-replicate (and amplify) auto-regressively. The response the group proposes is therefore considering the use of critical pragmatic applied methodologies for assessment and for devising potentially influential systemic interventions.

Combining these four specific elements in more creative and potentially more efficient and effective approaches to pragmatically addressing the problem of systemic violence. An inherent reduction of barriers to knowledge and newly to be produced actionable knowledge is one of the goals of the approach.

Consistent with the approach taken and its intent, one working hypothesis the group has agreed on is the possibility of using a multi-prong intervention that has the scope of "seeding" anti-violence resources that may also self-grow and hence amplify auto-regressivity over time.

Several core focuses of an intervention are identified. These are (non-exhaustive):

(1) nurturing systematically and consistently positive inter-human relations starting from the fundamental core driving elements i.e. strong mother/parents-child and positive family relations, that transcend multiple negative societal norms (irrespective of where these societal norms come from, be it religions, ideologies, confrontational civilizations,¹ gender biased inter-human relations, etc.);

(2) trans-organizational boundaries (broadly defined) free (and purposefully reducing) concerted action seeding new understandings and thus visions of induced planned change. In this vein, strategic partnerships are sought with and among pioneer actors across a broad range of categories, from private enterprises and (non-) governmental organizations to existing or emerging networks of anti-violence conscious social entrepreneurs;

(3) Viral self-reproducing mechanisms for concerted action are sought to be identified, traced, planned and implemented in an attempt at initially punctual (pilot program like) experimentation, simultaneous with monitoring and thorough evaluation of progress as a possible result of quasi-experimental interventions. The net result is intended to be a self-enlarging network of concerned contributing professionals, citizens and civil societies as demanders and beneficiaries of the act of governance, true socially responsible entrepreneurs, foundations, donors, development agencies etc.

(4) Artistic representation of non-violent behaviors, combined with artistic based “shaming” of systemic violent behaviors and norms. One example would target the almost ubiquitous notion of “heroism of war” inducing artistic representations of humankind’s history. Replacing such representations systematically with “heroism of peace and of nurturing non-violent accepting of another responses” may impact from the ground up the evolution of social norms along the desired paths.

¹ The term “civilizations” is used herein within a meaning using critically Samuel Huntington’s (1993) terminology critically.

There is a clear understanding of the magnitude and ambitious nature of the tasks, along with a thorough comprehension on the very resilient nature of the systemic barriers to their successful initiation and planned step-by-step experimentation, implementation and monitoring. Hence the group has a mutual sense of necessary accelerated systematic action, even in spite of somewhat of a “theoretical vacuum” at present. The absence of full (complete) theoretical development and verification of some of the underlying assumptions (particularly concerning epigenetic theory, but also several necessary trans-, inter- and cross-disciplinary implications/correlations not sufficiently well studied so far) should thus not prevent action based on the perceived influences assuming they function as hypothesized.

The group thus believes that enough data exists and backs up the need for and potential success of interventions as designed, while concerted efforts to refine theory-building and validation methodological approaches can develop parallel in time action-oriented intervention. The two focuses (action-oriented and better theory building) could and should complement each other in a step-over-step manner.

As with any initial effort, at this point there may be still a need for much clarification, for better systematic organization of various elements of knowledge (either existing or to be sought) and for synthesizing and integration across all of these. The group believes though that these efforts should also be the focus of the second “line-of-action”, namely theory refining, combined with a strategic positioning of trans-, inter- and cross-disciplinary analytical capacity and dialogue in support of the overall effort.

Constructive critical input is therefore much welcomed and systematically sought from a broad range of specialists and stakeholders (broadly defined), in spite of the very “draft” nature of the report herein.

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Introduction—Scope and Approach

In human societies, at least as far as we can see historically, violence has existed ever since and with an amazingly broad phenomenology. Within that spectrum, one form of violence, which we would call, following Club of Rome's wording habit, „the violence problematic“, consists of elements like religion (predominantly Abrahamic), old, male-hierarchical and regional/tribal structures and most peculiar nurturing habits („growing-up“-structures). - Pessimists have so far widely joined the opinion, that, if „the globe“ does not find remedies against this problematic soon and effective, „World War III“ could be „just around the corner“. Even though this may sound pessimistic, more and more individuals are working on a possible prevention of an escalation of violence expressions. Some of these initiatives lead to good results.

Following Galtung, violence shall be overcome in the same way colonialism or slavery was overcome some time, at least on paper. Even though the way to go seems long before we reach a final and ideal state, the goal is close enough to work on it. The effort is made and projected regarding the continuity of progress in social structures, always on the edge and on the limit of a crisis, but still advancing.

Thinking of the time plan we once designed within our own efforts, if we wish to keep to our initial plan and **Deadline** to disrupt the System of Violence by 30 June 2026 as we suggested, we need to work on the main issues next. We would have just about 15 years time to manage this process, and we anticipate that we could do so, following the first steps that we have made. Our way of disrupting the system would not be by changing all of reality, but the perception of it.

Assuming the need for a trans-disciplinary approach in addressing conscious systematic worldwide reduction of violence, current and future, creative systemic approaches may have to be used to allow the uncovering of otherwise unseen, or easily missed, factors affecting occurrence, development and reproduction of violence. Perceiving these factors and addressing them may lead to a higher probability of systematically reducing violence in general.

In contrast, if methodological rigidity is demanded too early within the composition process, i.e. the time span within which the various elements are put together, creativity stops before its task is achieved or the new theory born.

In light of the need for an open minded, creative, systemic theory driven, transdisciplinarity approach in understanding, and thus attempting at reducing violence, **di-**

verse methods and **diverse modes of action** will be necessary. Monolithic approaches are doomed to fail.

We therefore worked on a paper that we address to the interested parties expecting that we will produce as a **GROUP** or as **NETWORK** tools to defeat the System of Violence and relocate the System of Complexity with several concurrent methods. We understand that no single technique will do the work; it needs to be a complex combination of methods that work in coordination. We propose to work on this in a networking fashion, as it has started, as to not create any focus that masks vital issues by power considerations.

As one example of the application of the creative transdisciplinarity approach utilized herein, and indeed assuming that research in epigenetics may be sufficiently advanced to justify the courage to employ their results (results of mainly medical, biological, natural-scientific etc. research), we take the stance that it may be worth adapting the new knowledge to the “problématiques” of social and/or societal order (such as violence or extremist movements like the Taliban, etc.).

We, the scientific community, haven't been able to pass enough information on facts and theories; we have collected in the last years a lot of evidence, but still the logic of the System of Violence is really strongly burned into all the communication structures in everyday life, even and outmost in Europe. This needs to be considered in all of our approaches, when facing established structures, like public administrations or armies. As Commodore Heinz Dieter Jopp of the Bundeswehr explained: we are drilling through large boards. We have no short-term solution to offer, and even if we use all our skills regarding the art and the way we express our ideas to make ideas more attractive, conservative structures will not just melt down like ice does.

[...]

Brief Description of Current World State of Affairs

The State of Affairs of the Current World System presents itself in a manner extremely often plagued by Violence, in many different forms and at any level of analysis.

The current World System, if considered from the perspective of International Relations, or that of Human Values or Human Rights, or that of International Financial Relations, as well as from the perspective of Inter-Cultural Relations inside and between different communities, or Intra-Family Relations, seems indeed to be characterized by violence more so than by human values or wisdom driven behaviors.

It is rather a system in constant crisis, behaviors being so much more power driven at virtually every level of observation and monitoring, than being wisdom and/or equity considerations and mutual respect driven.

[... statistics presented and interpreted]

Violence as a Historic and Ubiquitous Characteristic of the Current World System

[...]

Several factors in a systemic perspective:

- Demography issues generally
- Gender imbalance
- Scarcity of resources
- Climate change
- Reduction or loss of ideals and educational standards
- Incoherence in knowledge and knowledge communication
- Etc.

Human species is a species like other living species in nature. Human species depends on its environment. Some environmental conditions change permanently, and humans have to adapt to every little change. Some adaptations are easy. Some adaptations are not. Demography is one of the characteristics of human species and it is also adapting permanently to environmental conditions, but always with a delay. Additionally, the demographic adaptation is not always a perfect fit to the environment conditions set resulting in maladaptation. This fact alone merits research and explanations.

Inadequate demography has always been a trigger for imbalances and fights between populations for resources. One of the strategies chosen by populations with a demography that was inadequate to resources accessible in the region they occupied, was i.e. Nomadism. Nomadic populations emerged i.e. with the transformation of the landscape of what is the Sahara today. It was a fertile part of planet earth before it became a desert. But then, with the growing desertification, the resources shrink with a normally growing population, pushing this population to transform its habits and becoming nomadic. Obviously, these wandering populations would not just be well received in regions where other human were, and it is easy to imagine how the conflicts were regulated in those times.

Any uncontrolled demography is for this reason a factor that needs to be accounted as a major source for the violence system to become legitimate and to take effect. In Complexity System Theory terms demography counts as Absolute Complexity. It has been explained, that for each unit of Absolute Complexity a specific amount of Relative and Contingent Complexity must exist. If the required Contingent and the

Relative Complexity are not provided, the Violence System immediately jumps in and cuts down the growth of the non sustainable absolute complexity, either killing or increasing the suffering levels to a point at which the reproduction of the species is reduced to a large extent.

For this reason, working on a solution for the problems caused by violence starts at the organization of complexity itself, and demography is one of the major factors. Solutions depend on the ability of societies to cut down birth rates; demography rates need to drop drastically; if they do not drop, the scarcity of resources and the complications issued out of the allocation of resources will have an ever-growing deleterious impact on brain development and programming of the children. This – and as we will show further down in the report- leads to immediate violence.

Another factor, equally dangerous to human kind and pushing towards violence is gender imbalance. Controlling demography is not all. It also means stopping the Gendercide of baby girls.

The Gender Imbalance is a major factor leading to a conflict, as we have already an imbalance of 20 to 30% in favor of the male population on the planet, and women are becoming rare; this will lead into a peak of a conflict in about 5 years, when all these men are on the market and do not find partners; we are not talking about small numbers. As was pointed out in a recent article in “The economist”, we are talking of a male excess of about 20% of the Chinese and the Hindu population. This is the equivalent of 300 million men, who will not find partners within the next 5 years. These men will all look for partners. They will try to find some. This makes women certainly more valuable and attractive on one side, but it also creates a potential conflict, as we know from the past, and makes women much more an “object” of violent conquest. Those men who will not find a way to get a woman will not necessarily have a reason to be peaceful. We expect this to be a source for a major WWII conflict and policies need to be implemented to create solutions. An example for a System Theory based solution could be that Europeans and US Americans produce only baby girls and absolutely feminize their societies to compensate the losses in other societies. But this is obviously nothing any person would want to seriously envisage.

We can work on solutions, but we need to work fast. South Korea, i.e., had a problem regarding gender imbalance. They quickly solved the problem, “importing” women from other countries. South Korea is a small country. Their problem was solved relatively easily. It goes without saying, that not all the countries on the planet will find solutions for this problem like South Korea did.

[...]

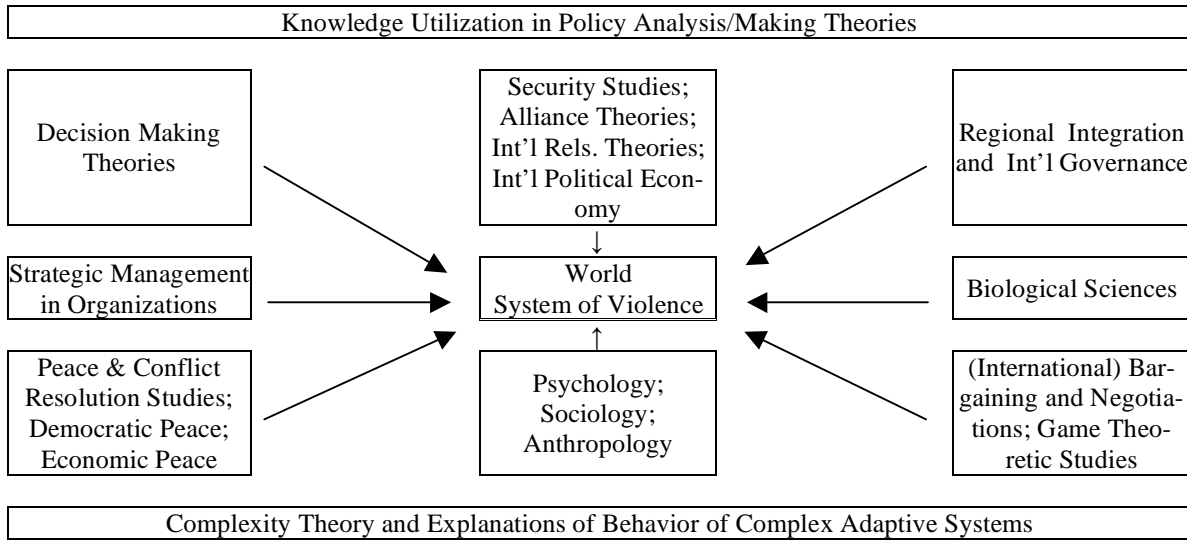
Potentially Useful Hypothesis in Addressing Violence in the Current World System

We have decided to just express a few of the points we consider relevant in any guided intervention to solve the problems projected by Complexity and Violence System Theory assumptions:

1. The characteristics of the “System Theory of Violence” are the following:
 - It is a practical approach describing the internal communication of the System of Violence, its external communication and the functions of the System of Violence within or above other systems.
 - It unmaskes the logical patterns of its existence from the perspective of the Natural System of Life and makes a clear differentiation between the utility of the System of Violence for the organization of Natural Systems and for the organization of Human Systems.
 - It describes precisely the interest that the Natural System of Life has in reducing human species and why from the perspective of nature any violence used by humans is good.
 - The System of Violence is described, to the point that it becomes a historical past that reveals itself as unnecessary to human life. From now on, the system can be replaced by human alternatives.
2. The chance that it gets implemented properly depends on the mathematical proportion of the influence of the system of violence versus the influence of the system of life
 - The amount of individuals integrated in the violence system that have disrupted brain control of aggression in a given population determines the amount of efforts required to move the population out of the trouble zone.
 - Populations like the Europeans (mainly Spain) or the Canadians are likely to find alternatives pretty quickly due to the fact that the index of Domestic Violence (DV) is in average below 25%. The reason is that within the System Theory of Violence, DV is the main cause and structural guide for all of the forms of Violence on the planet. Domestic Violence being a political term, we need to work on the understanding of the term in a ST context and the translation of this functional meaning in System theory into the common language.
 - Populations with a middle class degree of integration in violence systems like the US Americans or some Asian populations that have a domestic violence rate around 35 to 45% will have some more consistent problems that they will only be able to solve if they have solid health systems providing for fast solutions.

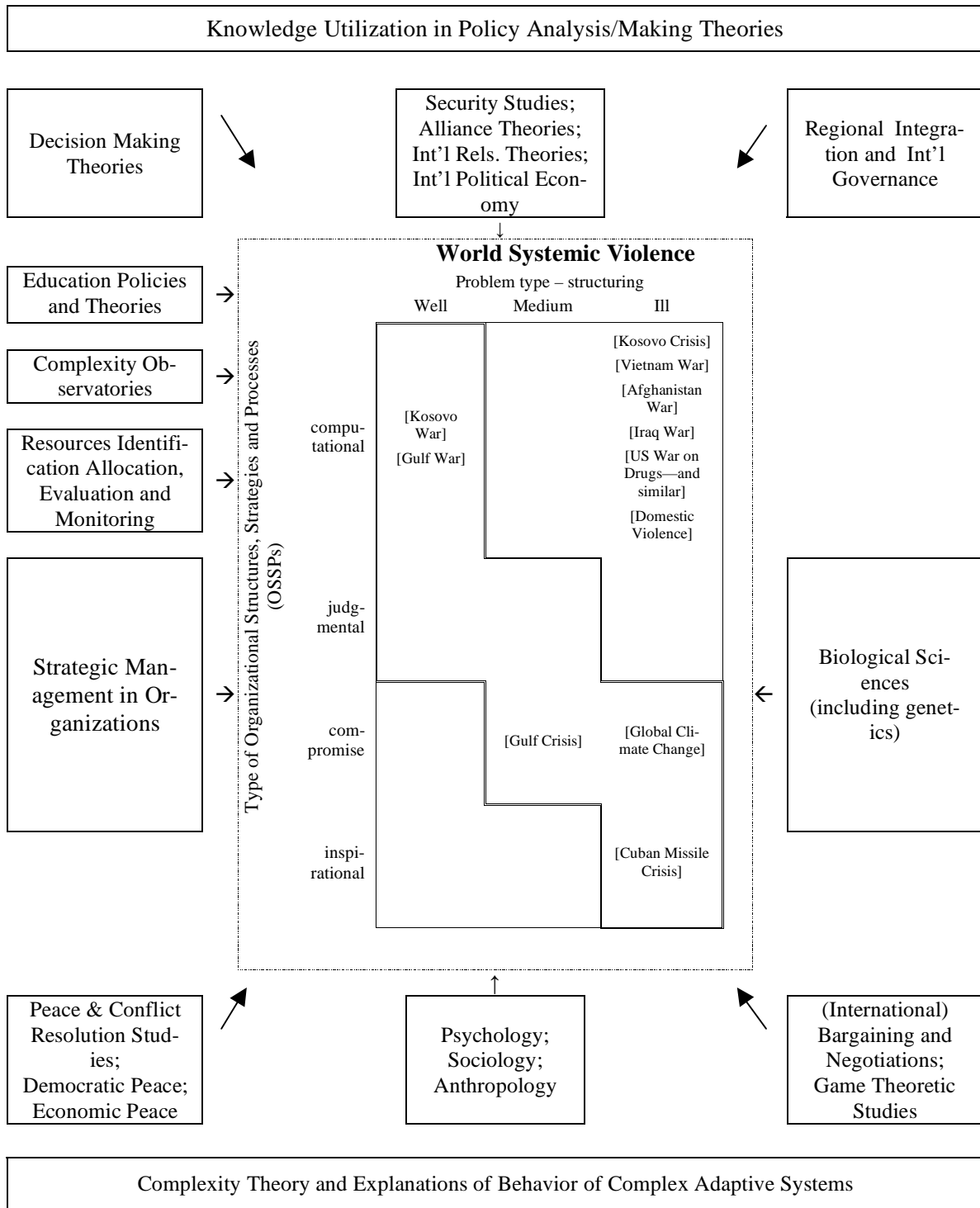
- Countries with a domestic violence rate above 45% have a long way to go, but the rule is that the recovery is as exponential as the deterioration.
3. A population hit by the System of Violence, war tired, would not necessarily rather run away than fight. This has been sufficiently proven in the past to the point that populations have been completely destroyed. Nazis, i.e. fought down to the last man standing. It all depends on several conditions, but there is no rational safe thinking possible. Nature always wins and humans are to nature, organized matter at disposal. Dead humans are to plant life and animal life simple nutrients. Palm trees have roots designed to absorb nutrients, and any person killed on the ground will be absorbed as a nutrient.
 4. Assumptions:
 - a. Humankind as a system is possibly faced with at least two contradictory and competing internal forces. First, an internal (Darwin's evolutionary theory driven) systemic violence drive (SVD). Second, an internal "humanizing" drive to overcome this violence, and self-impose an orderly set of human values, that are non-violent in nature. (Humanizing Systemic Non-Violent Drive—HSN-VD)
 - b. There is a biologic, genetic, self-replicating and possibly self-accelerating mechanism of reproduction for violence. This, while the understanding of it is possibly only in embryonic form, may function through the epigenetic transmission of violence. The mechanisms of transmission and possibly pre-determination towards violence can be studied, and while studied, also counteracted consciously.
 - c. There are possible ways to make initial early use of knowledge about these transmission mechanisms. Systematic efforts to curb the impact of the re-transmission mechanisms can be studied and thus conceived.
 - d. One assumption is that consciously and systematically nurturing the non-violent components of human behaviors could over time facilitate that HSN-VD overcomes the SVD tendencies. As it was pointed out in the WCC documents, a combination of the terms "gene" and "meme" could help understanding the implications and correlation between factors that are not obvious at a first glance.
 - e. This needs to be understood as a game between complex adaptive systems to either human or natural tendencies that needs to be balanced in favor of human goal seeking & maximizing
 5. Any demographic control that is imposed by force and not self determined or acquired will automatically lead to the **self-balancing of the System of Violence**; as we know from our study in Catalonia about the Balances of the System of Violence between adolescents and their parents, any attempt of imposing any rule, law, convention, or status using force alone leads to the fact, that

- the System of Violence will find a different prey to hold on and go on operating; in order to achieve a safe shift of value systems, an increased intensity of non-violent communication needs to be created as to allow persons to accommodate to i.e. legal changes (imposed and reinforced by law and police and this law being ahead of a real change in society) ahead of the legal changes; any demographic policy needs to be addressed with a smart communication prior to implementation; for example the numbers of children hitting parents in Catalonia multiplied by 3 in the last 2 years, after laws were published forbidding parents to hit their children. As a matter of fact, parents reduced hitting children, but the System of Violence restored balance, getting the children to hit their parents.
6. As natural process determine, the self-regulating mechanisms of collective intelligence and collective effects of epigenetic aberrations combined by the System of Violence tend to regulate the existence of human species to the **advantage of the natural system** and not to the advantage to the human system or species.
 7. Natural action and regulation (according to the System of Violence and its extreme expression being war) may have **some collateral effects** helping human species to evolve by reducing numbers of the human species and reducing the stress of allocating resources to each individual in a complex system, and this relief may be what is being described as the revival after wars. In any case, it doesn't help regarding the acquisition of new strategies to solve these problems, and as soon as the war is over the same unsustainable attitudes take over again until the next Crisis of Violence systematically sets in. This is what is described in the graphics showing the oscillating function of the System of Violence alternating with the System of Complexity.
 8. However, this **Self-Regulating Natural Mechanism**, called System of Violence, does not work in the same way in all of human context; this mechanism works differently and according to the density of epigenetic aberrations in human collectives; in a context like a European territory, where the epigenetic aberration levels were below 40% before WWII, the expected end of war worked out fine and Europeans evolved to what they are now, a population worrying about sustainable development and a population keeping birth rates very low out of self interest, organizing complexity in a human way; in a context where the epigenetic aberrations are above a certain threshold of the total of the population, any war will only make any situation worse and lead to the destruction of large portions of human beings.



Suggested Case Studies Methodology Design based on Multiple Theoretical Implications Method

A more in depth version of the above “map of applicable theoretical interpretations” is in the figure below:



NOTE: placement of cases in grid is tentative.

SOURCE: Adapted based on Petrescu (2001, 2002, 2003)

9. Violence needs to be linked to the expression of genes, as one of the many expressions of human behaviors depending on genetic construction. If a chromosome built within a cell-core, like i.e. chromosome 5 in humans, contains a segment that is responsible for the expression of empathy, this segment undergoes the same influences as all the other characters encoded in the genes. As always in nature, very subtle changes in the chemical compositions are enough to create enormous variations of gene expression. The gene itself may be stable, but the environment in which this gene is located is also under the influence of environmental changes. These changes may inhibit or accelerate the expression of genes and their properties, changing individual and collective patterns of behavior. **Empathy** is to be linked to epigenetic programming on **Chromosome 5**. There is a specific region on this chromosome that is linked to **empathy** when the gene expression is optimal. If a chemical pollution sets in through a specific form of trauma and hinders the gene expression of empathy, then the empathy levels of any person affected go down and consequently, violent behaviors are not inhibited any more by the empathy factor. In those groups of humans with 80% of reprogrammed brains due to violence, empathy is either reduced or blocked; this epigenetic aberration is passed down from generation to generation according to the present standard of research; the only way to stop the transgenerational transfer is to try and change the status of mothers (the paternal effect on children's brains is less pronounced at early life) to feel empowered, free, safe and capable of nurturing self confidence and self-control in their children Based on own experiences even people whose empathy ability is diminished can improve their empathy abilities - even as an adult. In this case the own experience of empathy is an important precondition and a healing process. Teaching empathy skills can have an important impact on creating healing structures throughout all social and cultural levels. This is obviously no new news. The WHO has demonstrated over and over again, that good nurturing has positive consequences and bad nurturing has negative consequences

(http://whqlibdoc.who.int/publications/2009/9789241597821_eng.pdf

<http://www.who.int/violenceprevention/publications/en/index.html>).

10. Fathers, **men**, can not substitute maternal nurturing in the first 2 to 3 years of life, and the experiments performed at the laboratory of Dr. Szyf as well as the conclusions derived from experiments and longitudinal studies in countries like Romania, where comparative studies of Orphans biographies were done (Adrian S. Petrescu), are sufficiently conclusive as to explain the differences in the development of children during their infancy, adolescence, etc; men and paternal nurturing children at an early stage do not have the same effect on the

- brains of children; only maternal rearing has long lasting consequences for children when it is given up to age 2 (Mirror Effect in children).
11. Protecting and empowering women would have the largest impact on **epigenetic programming** and brain function in the offspring and should arrest the transgenerational transfer of aggressive behavior.
 12. **Nurturing children & their protection** in Islamic world and else where, in all cultures, is the highest priority. We hypothesize based on accumulating scientific evidence that the origins of violence are imprinted in early childhood.
 13. The second highest priority is to set up interventions as the **Qualification of Adults** in early childhood, consisting mainly in the **Empowerment of Women** through **Mother-Child Foundations**.
 14. Translated into lay language this means that the most urgent issue in the entire planet that lies at the core of propagation of violent generations (in a perspective of 15 years) is the proper **Nurturing of Children early in life**. Translated into our terms, this means that the adequate allocation of resources has to take place, comprehending what we call the relative and contingent complexities.
 15. Protecting children from age 0 to 3 and enabling them to stay and receive high quality nurturing and love from their mothers would eliminate violence and aggression later in life. We estimate that this will account for **50% of current violence**.
 16. We must protect, reinforce, maintain, ensure and empower women in Islam and other cultures. We estimate that this accounts for **40% of current violence**.
 17. We need to go on working with males (men) using different strategies to prevent them from using aggression and violence. The most efficient strategy will be the organization of complexity ahead of any questioning of any established order. We believe that this will have a much smaller effect and that at this age the impact of such moves would have a **10% impact**.
 18. Women have to be supported and empowered to fulfill their role as a critical element of society.
 19. As long as women are abused and are subjugated the current conflicts will not diminish. Aggression of one generation sires aggression in the next generation as long as the cycle of maternal deprivation is not stopped. The lack of empowered maternal figures lie at the foundation of this cycle of violence. Those hit by the System of Violence and acting according to its laws, rules and conditions will want to fight the enemy, which happens to be the West, and conquer the West in order to express inherent aggression and avoid self confrontation with internal problems. This is a universal mechanism. It is true throughout the mammal kingdom and humankind. No therapy can stop this

happening without stopping the root causes. As a team of researchers, we do confirm the results of many other researchers before us, with one significant difference: we understand the System of Violence, we do know how to put our selves in its skin, and we can predict its tendencies ad future actions.

20. One idea is that terrorism in Afghanistan is perpetuated through boys' education in **refugee camps in Pakistan by aggressive male figures exclusively**. So, closing down Taliban Schools in the mountains in their current form and sending children back to their mothers and other female teachers and caregivers during early childhood is crucial (Ahmed Rashid, 2001, Taliban); this needs further discussion.
21. In countries with **highly depressed maternal status a war is to be expected any time** and there we need to do fine-tuning, and again the military will have to assume a role.

Any military or civil intervention may be a solution to stop the extermination of large portions of populations in **cyclic wars**; if the interventions are thought out and worked through for the purpose of adapting them to reality and to issues concerning the System of Violence and with the intention to have the System of Violence dismantled; these strategies do not exist; not one single military school has even mentioned this theme as a strategic issue, unless someone started it and this has gone unnoticed or uncommented. Here new communication strategies are being worked out and need to continue being worked at, in a specific way and for the army. We are working on this issue mainly in Germany, where the next meeting is set, and where we expect to make our first break through on a military strategic thinking.

Selected Suggested Necessary Steps (Response) to Curb Violence in the Current World System

1. Seeding and Self-Growth
2. Necessity of a Response Equal (and Above) in Resources to Spread of the Threat
3. Stop and Reverse Trend
4. Build Up/Facilitate Systemic Self-Adjusting Capacity
5. Allow/Facilitate Self-Growth of Systemic (Complex Adaptive Systems based) Non-Violence Approaches
6. Incentive demography conduction by all means

Organizing complexity in this context means helping women in society to have a “**safe place**” where they can live in a self determined way and it also means that complexity needs to be organized so that trauma effects on women get detected and repaired, as traumatized women do not function as mothers at all in the way that is desired. Any traumatized woman and mother needs to be healed.

In System Theory terms (outside of the conventional practical everyday language), this means that the **Organization of Complexity** and the providing of enough **Contingent Complexity** is the tool to manage children’s protection in Islam as much as in any other culture.

The organization of complexity in this context is a matter of **know-how creation and communication on a horizontal level. Complexity observatories are the adequate tool to address the need for any organization of any complexity.**

The multifaceted „**System of Violence**“ (SV) has to be defeated. It’s a cultural system and can be described (vastly oversimplified here) as having two sides:

- a. Males, being rulers and somewhat
- b- women and children, being their target, their object of power application and field where reputation and self-esteem can be gained.

One goal of the confrontation is serving the purpose of adapting human systems to natural systems, not to the interest of human systems and their balancing in nature, but to the advantage of the natural systems in short.

Generally as well as historically speaking, we do have a vast body of knowledge on violence. But this body is predominantly descriptive and not very explanatory. What we have created is a first tool allowing a new interpretation of reality and the re-directing of policies quickly and fast.

The center of countermeasures is seen in the „System of Complexity“ (SC). This system comes to life as soon as countermeasures start to apply several methods, all distinctively different from each other, in parallel or even simultaneously, at best as intricately interwoven joint ventures. – Doubtlessly, the Transcend method (once founded by Johan Galtung) as well as numerous other proposals will play a very prominent role here.

The targets of action of countermeasures/SC are the habits/cultures/urges, etc. as well as ideologies of nurturing once respective offspring, the mother-child relation as well as the intra-family male-female relationship, etc.

What are the practical experiences in this domain?

One practical experience of Andrés Ginestet in Algeria at the International Conference for the Victims of Terrorism and against the ongoing of Terrorism:

The arguments used above are universal, and as Andrés Ginestet found out in his discussions in Algeria, they are equally understood in Islam as they are in Christianity. As always and as everywhere, there is a difference between theory and practice. One of the sentences Andrés Ginestet heard was that a Mullah visiting Europe came back to his Arab country stating that he had “seen many Muslims without Islam in Europe” and coming back, he could “see a lot of Islam without Muslims at home”. The problem does not exist in theory, it only exists as an effect of a cause, and the cause is the one we describe in our work and research. This is not a religious, or a cultural issue. There is as much common sense in Islam as there is in Christianity. The problem emerges out of the tradition of violence in history and the problems emerging from the incapacity of controlling and ruling complexity issues, like the sharing of resources.

The traditional way of looking at conflicts as personal or singular conflicts always emerges from the ignorance of the underlying conflicts and causes. When Andrés Ginestet presented his research in Algeria at the Conference against Terrorism, immediately the experts working in the field jumped and agreed to his words to the ex-

tent that they would very precisely name the places in Algeria where terrorism is bred through historical tradition. They not only spontaneously confirmed the affirmations of Andrés Ginestet, but they also went on clearly and loudly claiming the abandoning of their destinies by a state and by an administration that largely overestimates its power and largely underestimates the dangers from carelessness and revengeful policies of those leaders in populations largely abandoned and dismissed by the established power. This is the dilemma of any state that does not address the problem but the symptoms.

Just few minutes later, the next speaker would use again the same arguments to increase the pressure on the government members in the conference explaining that the carelessness towards the children of terrorists would immediately lead into the next waves of terrorism after they are grown up. He clearly qualified and called those youngsters and adolescents “ticking bombs”.

Andrés Ginestet allied with all the speakers in all terms pronounced at the conference and finally, the unspoken got addressed in this conference. Things were said, that never before had been said, because, time is ripe for understanding and moving on, because the pressure seems to be strong enough.

Strangely enough, this situation probably was possible in Algeria and in no other place of the so-called Western Developed Hemisphere. Where Western policies rule scientific conventions, greed, competition, fear and envy undermine innovation, flexibility and conflict resolution capabilities. The reason for this is obvious and simple, and again there are 2 sides to the coin:

- In Western countries, the perception and the feeling of a menace that is building up from the exterior drives the West towards a defensive attitude with regard to its illegitimate privileges. This refers to the external criticism and change incentives. It makes the West more rigid and therefore more fragile and virtually much more vulnerable.
- The internal pressure stops any self-criticism, as it is common to all human kind to undergo this kind of evolution. Systems need to change from the inside and the outside. But the epigenetic pollution set in Western brains is as efficient as the pollution set in the Islamic regions. And any internal change needs to be dealt with as with the external changes in other countries. It has to be dealt with, on an epigenetic level.
- So, this problem has as much internal as external boundaries and symptoms.
- The problem turns into a universal problem, in which all human systems need to be readapted, because they are all linked and depending on each other.
- A problem of this kind cannot possibly be solved in one country alone.

- The pressure for a globalized solution grows. The pressure on Globalization itself becomes consequently evident, asking for a reinforcement of global governance. The question is how the trap described by Isaac Asimov in his series of novels titled Foundation can be avoided.
- The alternative, as always, consists in allowing the previously established patterns to go on functioning as ever. This means that war regulates what humans do not want to regulate, because they do not want or see the way, even though alternatives and solutions are being presented, etc.

In a country like Algeria, the pressure of the System of Violence, the problems, when facing complexity organization are so big, that the internal pressure of the systems is sufficient for the qualitative exchange of ideas and a good communication.

One more important issue was addressed in Algeria: no Western Country can declare a War on the System of Violence without scaring all the neighbors, as these will immediately ask for the representatives of the System of Violence and fear to be them selves. A strong country cannot take on this kind of initiative, as it immediately would be understood as a threat.

For this reason, Andrés Ginestet openly proposed in the assembly that a common declaration of all human kind against war, against the System of Violence be formulated coming from the weak and fragile countries, as it would not mean any menace, but more an appeal to the common sense, the pity and the understanding of those that are deaf due to their almighty power.

The proposal could be made in a classic way, as a declaration of war of human kind against the System of Violence, or as a positive declaration uniting human kind against one of the symptoms of the system of violence, like the origin of terrorism, which is –since it was explained in Algeria on the conference- nothing else, than the incapability of humans to regulate complexity in a sustainable way.

To achieve this goal we have defined a few concepts. A sustainable regulation of complexity depends exclusively of very few three main points, which need to be framed before.

Which are the priorities that need to be taken into consideration by all and overall?

The main and pressing recommendations to be spoken out are the following:

Some of Johan Galtung's **Transcend techniques** and issues are crucial for understanding how different points of view can be adopted and need to be made popular on a large scale.

Different notions and perceptions of how time is experienced (Western and Islamic) need to be integrated for a good communication line according to NLP NVC expert Piroska Gavallér-Rothe and this means that an effort needs to be done to create **images translating each other's realities**

Additional to that it will be unalienable to create a communication culture, which restores connection and mutual understanding. Teaching NVC communication skills can be a beneficial strategy for this aim. Target groups should be the military and civil multipliers.

It is good to use Transcend methods in the **academic sphere** in the US and in Europe as to get those minds running on Cartesian rationality working opening minds and multiplying approaches.

Transcend Peace Work is good for adults and we need them to work on these issues as to enable the change for future generations. Adults have to construct the vital space for future generations to be.

In **Afghanistan**, they will know what they need to do if the basis for a decision is laid down including the information about the System of Complexity and the System of Violence to the right people.

Women have to be backed up, as to be empowered to fulfill their role as essential part of society, whilst men use the „necessity“ to fight the West not to confront themselves with internal problems. This fight needs to be diverted in a playful manner.

The next element that needs to be set up is, a large help-structure as an **Internal Islamic System of self-empowerment of all of Islamic Society** (and without automatically inducing fears of dominance, etc. – and applicable to the enormous variety and heterogeneity of Islamic societies, etc.).

The 3 main priorities for those monitoring the process, including obviously the military, are:

- To protect children from age 0 to 3 and enable them to stay with their mothers and to get nurturing and love as much as possible.
- To protect, reinforce, maintain, ensure, help to stabilize the situation of women in Islam and other cultures generally.
- To work on the men and holding them back from using violence.

The proportion of economical efforts to be produced is 50, 40 and 10% for each domain.

Right now reality is that the efforts are being produced this way: 10, 5 and 85%.

Reality is pure nonsense. It is absurd down to the bone.

Recommendations and Target Audiences

[...]

We can conceive a multifaceted intervention, consisting of a minimum of five intertwined interventions:

- Mother-child and family interventions
- Artistic interventions
- Educational programs
- Organizational change inducing interventions in national governments and International Organizations
- Academic applied research inducing, driving, and accelerating inter-, trans- and cross-disciplinary complex problem solving and/or opportunity seeking approaches.

Recommendations

The new solutions to be created are to be applied on several direct and immediate targets regarding Afghanistan:

1. The status of women on the planet needs to be discussed on the entire planet at once and from a System Theory perspective taking into account the conclusions presented in System Theory Terms correlating with the System of Violence and the System of Complexity.
2. A large system of help as an **Internal Islamic System of self-empowerment of all of Islamic Society**. According to standard literature, Islam regions have been sacked and exploited for centuries by colonialism and post-colonialism.
 - 2.1. The recovery and healing of internal values is to be seen as a core essential issue for the recovery of all the vital systems of this society facing the SV.
 - 2.2. A good allocation of resources added from the West as compensation or as a Marshall Plan would work wonders.
 - 2.3. But then again, the goal to be achieved is not to introduce Western Values or Living Standards in the East, as this leads again to the dilemma that no planet is sufficiently large to organize this kind of life, or this form of life.
 - 2.4. The other side of the coin refers to the fact that Islam understands itself as unum indivisum in se.

- 2.5. A policy addressing issues in Afghanistan alone would divide Islam society, and this is hard to imagine or to be expected to become successful.
- 2.6. Also, there is a difference between an **all-inclusive program** and a program that is singled out for one country and region, but is **open to inclusions** of more regions adhering to new principles. This is a social laboratory that needs to be understood and communicated.
3. **Reinforcing the position of women in Society with full rights and self determination in accordance with Islamic cultural traditions and within the Islamic norms**; Women being the main actors as mothers, nurturing intensely the new born age 0 to 3 are extremely important to enable human kind to step out of the System of Violence. One reality has been largely underestimated in the past: Women who have lost their self-recognition and locus of control will fail to nurture their offspring properly. This is also true for early childhood female caregivers and educators. The allocation of resources in this domain is essential to any social, political or military strategy that we can think of. If the killing has to stop, life needs to be grown.
- 3.1. Women are most critical to arresting violence as a system; no man, no soldier or UN peacemaker can do that. It is too late to change the pattern of violence of adult males. Only **empowered and content women** could do this when they fulfill their evolved social role early in the life of their offspring and other children in the community. This means that totally **free and empowered women** are in a position to effectively reduce the risk for terrorism in any nation; the definition of happiness and freedom is to be understood in the context of the **System Theory of Violence & Complexity & Culture** and the aim of creating life-serving structures in social, cultural and economic dimensions.
- 3.2. However, and Andrés Ginestet has clearly been able to experience the readiness of Islamic representatives to talk openly about these terms, any policy sustaining women within Islam is not radically different of European or Western or Christian perception or understanding. For this reason the present discussions about the Burka and other symbols of female oppression will have to be understood as belonging to the talk of terrorists, criminals and minds trapped in the system of violence, and they have nothing to do with the interpretation of religious beliefs and writings. Andrés Ginestet did not find a single person in Algeria that would have defended any need for the Burka from a religious point of view. Discussions were sustained.
4. NLP (Lakoff) and NVC (Marshall Rosenberg and others) are then the other referents to be applied on a large scale to adults compared to Transcend.

5. A renewal of the economy from a violent structure to a peaceful structure (Mechanical Valley, agriculture, diversity of currencies, parallel to global currencies, micro-economies, creating life-serving structures and organizations, etc.)
6. Political approaches (also Transcend) will lead to confusion and academic discussions; we want Peace Procedures and not academic discussions. We do not think political or power oriented discussions will help, and power-politics talk is not peace talk.
7. The military needs to understand that committing a crime (war) will only make the present situation worse and we do understand that the military are obviously the first knowing this.
8. Working at home to stop the violence used against the “weakest” or the “most fragile”, children and women as a mean to regulate complexity is the priority number one. Violence needs to be tackled as a system at its origin, and that refers to all the domestic violence situations first. It is not a matter of personalizing the problem. This is not an individual problem that needs to be solved on the level of some crazy people. We are dealing with a crazy system in human terms. And the problem is a general problem that roots in the quintessence of human life itself.
9. We think it is calling the wrong clientele when hoping that adults will make Peace possible, they will not; adults will not change, we have no chance to influence them; what may happen is that they enable the next generation to change. Our clients are the children and the educational system above all, as well as the demography issue and protection of chances for women and their children.
10. Working on Peace as a new concept:
 - 10.1. Peace in Transcend Terms is a too complicated; we think it is simpler and more solid to do what we propose, than what Transcend proposes; the solution has to be manageable for a child; if a child does not manage, then it is no solution; but it is nevertheless very useful, and necessary on an academic level to discuss peace academics with Transcend methods, as not to fall into any trap of simplicity or naïveté; we firmly believe that we need to make the effort to work and study Transcend policies and confront them with reality and with what we will do.
 - 10.2. We guess that if we secure women's positions, status, conditions, etc. by empowering women in society, they also will manage to stop being “breeding machines” and that consequently the scarcity of resources will diminish proportionally and with this the demographic pressure will be released, as to ease to all the Planet’s population the access to Peace as a concept.
 - 10.3. Again and over again, empowering women is the main issue parallel to addressing children protection.
 - 10.4. To manage this we cannot act from the outside, an external intervention to create the miracle will not work; if any external intervention takes place,

this will have to be understood as an internal mechanism of the System of Violence itself.

10.5. We, and the military could be part of this “we”, can offer and pass the know-how and let any population on the planet do the work in a self determined way, all alone and we can offer support to enable that happening.

10.6. We suggest that good communication lines are established with persons in the Ismaili sector of Islamic culture and also in moderate Islamic regions like Bahrain (we are already active there).

10.7. In any case, any chosen structural violence is to be preferred to any violence resulting from epigenetic aberration regarding demographic reduction; in strict System Theory terms, a war or genocide is not a safe process to shift value systems; we need to freely choose strategies as long as we have time to do so and we are running out of time.

11.If a change or shift happens, it's the West and the East that have to address the change all together and merge into a sustainable way of life. This obviously needs further definition at some other place.

To whom shall this report be addressed?

This nut-shell-report shall be addressed to all the institutions that Andrés Ginetet is currently involved with. This shall not be formulated as a recommendation, but as a suggestion and as a final report after 30 years of commitment and investment.

As Moshe Szyf, Karolin Kappler, Adrian Petrescu, Piroska Gavallér-Rothe, Peter Mettler and Andrés Ginetet have been working on common goals for years and have been communicating to each other the results of their quest, it is obvious that all will confirm that the collections of ideas, suggestions and proposals introduced in the WCC documents as much as in the published results in Science Magazines or other documents are nothing more than a loose federation and alliance of concepts that do not require the solidity of a theory that is embedded in granite like a rock, and completely fixed. Flexibility and adaptation, a flow needs to be understood as being an advantage.

The concepts presented by all authors combined present the advantage of creating many synergies, flexibility of response to problems emerging any time, and thanks to the artistic impulses they also and always provide with surprising and puzzling effects that enable a positioning that is sufficiently open to respond to the requirements and necessities created by the System of Violence. A monolithic answer to the diversity of problems caused by the System of Violence is not an issue. All organizational structures on the planet until recent initiatives changed some structures, like

those undertaken by Andrés Ginestet in the University of Bochum, were doomed to fail when confronted with the system of violence.

It's only through renovated and innovative initiatives that we may achieve a change and improve the abilities of Human Systems to counteract the Violence System.

Focusing on Afghanistan and Pakistan or other countries with high problems in Violence is important, not because they are Islamic countries, but because they are countries in a conflict, or in an open war with the System of Violence. This is not a battle with religion. This is a battle between Human Kind and the System of Violence.

Any person on the planet shall understand this situation as being a universal question, and not any theme to be solved by a single state or administration.

In this context, men do not pose a special problem. Terrorists are as affected as the victims of the terrorism of a single disease, which is a mental one, an epigenetic aberration. For this reason, it is not the fighting, or the combat that will provide solutions, but it is the playing with, the addressing of innovation and invention that will move as forward. The project presented by Andrés Ginestet consisting of transforming a Kalashnikov to a power plant producing electricity is the appropriate answer to the question of what do we do with violent men. Transformation and not exclusion is the answer. The Kalashnikov project can only be interpreted as a symbolical project that will be proposed and implemented in France first with the collaboration of Benoît Duchatelet.

Conclusions and Next Steps

The following two parts of the overall theory are the most essential ones:

- The System of Violence generated automatically a Theory of Complexity. Both have been described in part one. This “regulating system of the human species”, that also regulates mankind’s vital complexity, was not in the focus of attention of human societies in the last few centuries. That’s one of the reasons why they were not sustainable.

- Equally automatically and logically, a second Theory of Complexity emerged. It’s task is to rule, with the aid of mathematical rational, between the 3 main types of complexity produced by mankind. They are called the absolute, relative and contingent complexities. Several definitions in the current literature equally point at these three types of complexity ... may be slightly different in the wording, but essentially with the same simple structure.

The reality behind these theories is not at all peaceful and demand rules. The conclusion is that the regulation of complexity rules over the need of a system of violence. Humanity now has the freedom or the duty to choose between a more animal-natural way of living and a more human way of living.

Until now, humanity either missed tools to regulate (or rather: self-regulate) complexity or the question was not raised at all. As this issue is becoming a matter of dedication and a field of exploration, knowledge about complexity regulation will organize itself in a sustainable way. Human intelligence produces constantly alternatives to pain and suffering. Humans have proven able to reduce suffering and replacing scarcity by means of inventiveness. There is no reason to mistrust human ability to overcome the System of Violence. The more the necessary knowledge will be

produced, the more the choices will be made for the good, towards auto-salvation and not auto-elimination or destruction.

This document gets mainly addressed to all parties involved in war situations. Military, transnational institutions or political systems like the EU, world wide institutions like the UN, corporations, national governments, etc, are subjected to the influence of war situations inhibiting their functions, destroying their social roles, undermining their economies, etc. The System of Violence destroyed until our days, the human population that is not sustainable from the point of view of the construction of Complexity, regardless of human intention or not. From now on, human kind can and will destroy human life, letting and allowing the System of Violence to act, knowingly and by its own means. Humanity has no excuses any more. There is no way to pretend that humans do ignore the existence of such systems, when humans are loudly confronted with a knowledge explaining their own actions or misconceptions. Ignorance reigned once upon a time, but it doesn't any more. It shall be much harder in the future to ignore this fact.

The modern tyrants, despots, guerilla fighters and the terrorists are the instrument used by the system of Violence to achieve this goal, but they need to be understood as a symptom, the tip of the iceberg of the ill run structures in which they are bred.

Violence as a System is always rooted and anchored in specific groups of humans in specific locations. As systems do expand, violence spreads through phenomena like migration.

The current situation gets worse when natural catastrophes and disasters hit human populations that are either already on the limit, on the verge of exhaustion, or totally unprepared and surprised by trauma and its effects.

The Theory of Violence Hypothesis also tries to explain how the System of Violence seems to logically run, but also explains why wars are still run in reality and not yet on a computer. Theoretically speaking, a modern war could be run as a model in a computer. Political decisions could be drawn from a computer simulation of a war, adapting from the results of a computer simulation of a war, without a single person being harmed on a battlefield. The “experts” in the field would be the last ones understanding why human life still has to be sacrificed.

The Theory of Violence needs to be published in many ways so that all of human society can learn to deal with complexity (as another dimension of the human systems of regulation). Complexity is a dimension that needs to be regulated in the same way as calendars or geographical maps.

First

Political programs need to be implemented in a series of educational training programs with final tests for individuals working in governments:

1. These training programs and tests have to be designed to first uncover the influence of epigenetic aberrations in individuals with a high responsibility and power of decision. These individuals have to qualify for peaceful governing and decision-making.
2. Second they have to include knowledge and intuition capacities and abilities to organize complexity in Theory of Violence terms.
3. Third, they have to address all the necessary issues to identify the System of Violence when it inhibits the functioning of Human Systems and Choices.

Second

It is most urgent to pass the knowledge immediately to all those persons acting in regions in which the System of Violence uses up large portions of human resources and time.

Third

Regarding Afghanistan:

there are very specific needs and very specific ways of helping the Afghans to adapt their own systems in their own way, in the way that Islam best supports. It is correct to help Muslim regions and populations to qualify themselves and incorrect to rule them in any way from the exterior. Here are two examples:

- Colonel Benoît Duchatelet will talk to individuals in **Aga Khan**'s circles and mediate a line of communication of knowledge that will have to be implemented by AGCC;
- Individuals in moderate Arab countries like Bahrain need to be contacted and the knowledge needs to be passed on as quickly as possible in order to reinforce their own healing and recovery systems.

Fourth

A large empirical study needs to be undertaken to fill the theory with a critical mass of adequate empirical data that enable humans to regulate their crisis situations according to their own capabilities and resources. As massive migration and pressure will start sooner than later, migration with the consequent spreading of the Violence System needs to be halted and strategies need to be designed and implemented to not to enable a Violence System Pandemic Contagion.

Fifth

The attractive element about the System Theory Approach to Complexity and Violence is that it enables a simple understanding of a reality that was before drowned in complexity. Knowing that reality and the solution to problems is far more complex than what any theory may describe, what will be required is an evaluation produced by Complexity Observatories of critical masses of knowledge and communi-

cation to be produced as to produce a tendency to drive human systems out of the System of Violence.

Sixth

The Theory of Violence proves - so far - right and applicable. An example is the study written by Dr. Phil. Eu. Karolin Kappler about the violence used by children against their parents in Catalonia. It was produced with the theoretical concepts of Andrés Ginestet and Karolin Kappler, whilst the political solutions proposed are those emerging from the present Theory of Complexity.

Seventh

Potential Action Plans can immediately be developed, based on studies like the one mentioned above by Dr. Phil. Eu. Karolin Kappler in Catalonia.

Eighth

A neutral inter-cultural assumption that can be used for the transmission of the ideas to any existing culture could be based on the language of mathematics and the articulation of the very simple oscillating function that seems to be describing adequately human complexity growth. Action plans in non-occidental cultures have to be drawn from the point of view that mathematics are a universal language understood by all, and they all have sufficient historical sources that they can base their own actions on.

Ninth

UNESCO did not want to participate in the **publication our present ideas**. We will continue to work on their publication, i.e. to find sponsors or to write articles for e.g. Wikipedia, or any other form of publishing.

Tenth

We need to **trust other nations** and cultures to know that they need to act in their best own interest. We need to **make information accessible** to their leaders as much as to their population, as any population undergoing a dictatorial status will have difficult access to information of the kind we do produce and have an open dialogue on a rational basis with an emotional bias.

The Basel meeting was too short to discuss these issues in depth. **We need to meet again this year as soon as possible**, as no measures to counter the self operating System of Violence do exist in any part of the planet. The only exceptions existing are those we put to practice in Europe and the US. We suggest the next meeting to take place on invitation by the US Army War College at Carlisle under the direction of Sherwood McGinnis.

Andrés Ginestet has to interrupt his interventions in the field right after this preliminary report! As a group, we are open to discussions and ready to talk about how to proceed further. Requests for speakers out of AGCC have to be discussed with Professor Peter Mettler (peterh.mettler@online.de).

Any organization or institution (e.g. military) desiring AGCC or particular members of it like, e.g., Andrés Ginestet, to go on working for Peace (e.g. in Afghanistan), AGCC kindly asks to submit a budget and/or a business plan.

Some people pretend that the present ratio of **forces for Peace to forces for war is about 1: 10 000**. We are not in a position to prove statistics, but we have seen figures like: The US is spending **150 Billion US \$ per year in the Afghan war** in comparison to **24,5 Million US \$ per year on civilian aid**. Such policies seem to us outright unsupportable and morally totally incorrect. AGCC will by no means and in no way be able to support them.

If peace really is wanted, peace will be invested in.

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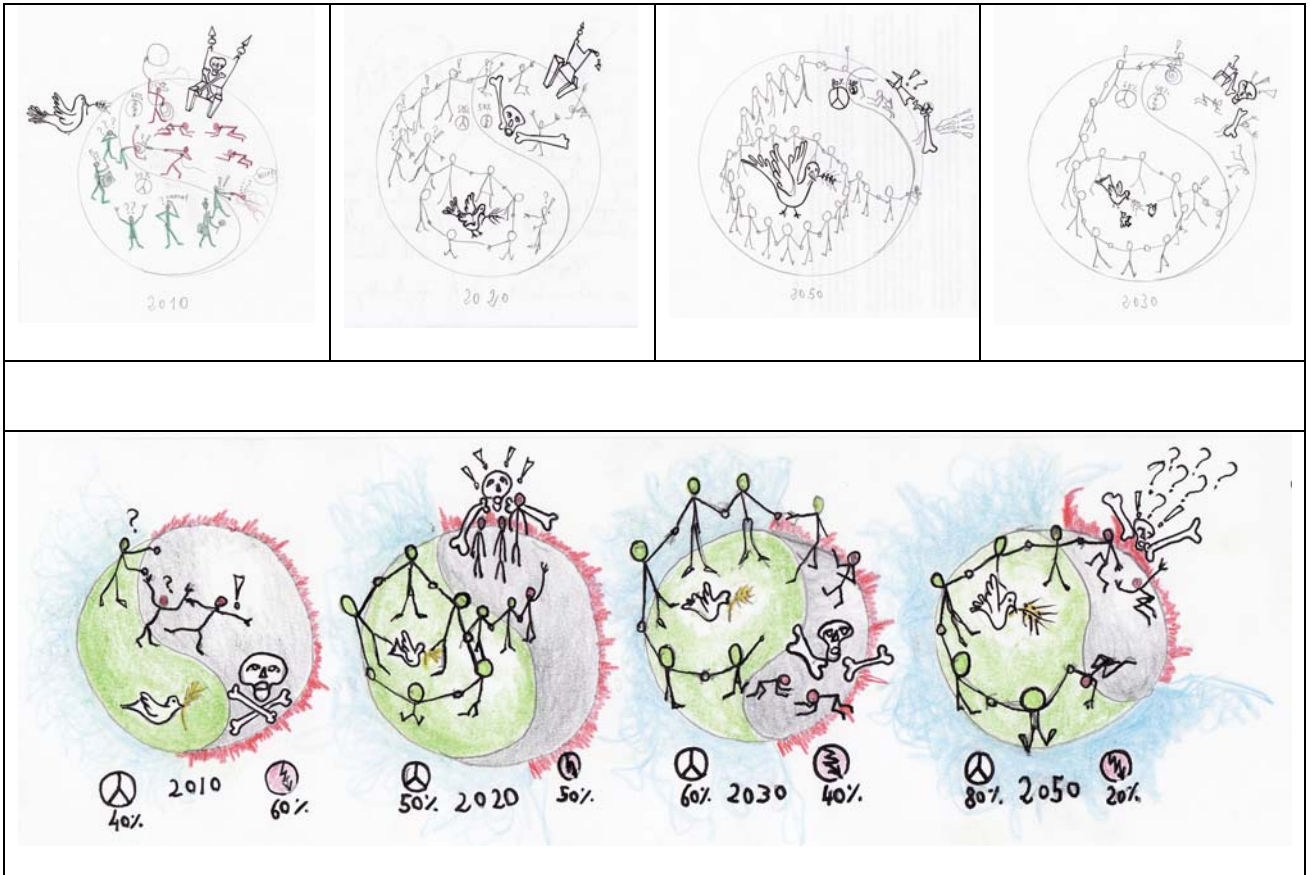
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Appendixes



Annex

Prof. Dr. rer. soc. habil. Peter H. Mettler, MA. (em.)
www.peter-h-mettler.eu, peterh.mettler@online.de



Condensed Curriculum Vitae

born 1941 in Vienna, Austria. Citizen of Germany.

Mettler lives in San Diego, Ca., as well as in Berlin, Germany.

Ever since the end of his teaching career in 2006 he talked about his second life period as

„time of utilization and exploitation of the experience gained so far“

as well as of the time so far available to him as a „fourfold time:

- the time he needed in his personal development to understand
 the necessity to regard futures research as science as well as art;
- advanced field-level experience;
- academia as frustration as well as joy; and finally:
- as transition.

Presently he lives an epistemological process. That process revealed him that working in societal sciences without being firmly anchored in that society threatens to be without object of research – futures research in particular. That’s why his most recent design for his personal life resulted in a professional cycle: four sets of theories have to be renewed and, simultaneously, be anchored anew within society:

the many crises-theories (in particular the theories of the end of economic liberalism);

the theories of multi-plurality;

the theories of globalization; and, finally,

the theory of the 21st century.

This new personal design period permits Mettler to totally devote himself to his (scientific) hobbies:

„scientific & technological developments (military as well as peace developments included)“;

„geopolitics“;

„(long range-) planning and futures research“; as well as

„epistemology“.

Core publications

O The Time of the Future (to be published by an US publisher in spring 2011)

O On Futures of Democracy – Democracies of the future, in Democracy and Futures, Parliament of Finland, Helsinki, 2008

O Future Geopolitics, in Hopes and Visions for the 21st Century, World Future Society, Bethesda, MD, 2007

O From social science to societal sciences and forward to the analysis of the future of the global knowledge society (introductory English texts available)

O Science and Technology for 8 Billion People, Adamantine, London, 1995 (as well in German available)

O Participation as aid to decision making. PARDIZIPP – a long-range planning and futures research methodology, Westdeutscher Verlag, Wiesbaden 1997 (in German only)

Piroska Gavallér-Rothe
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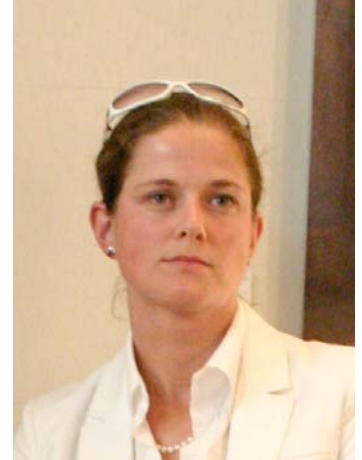
Condensed Curriculum Vitae

Piroska Gavallér-Rothe studied Law at Tübingen University and primary worked at the German-Hungarian Chamber of Commerce in Budapest. Later she worked as a Consultant for a Lobby-Consultancy in Brussels and as attorney.

Since 2003 she is constantly studying the phenomena of human interaction and communication. Meanwhile she holds qualifications as NLP-Master-Practitioner, Systemic Coach and Business Mediator. Above that she has a profound training in Nonviolent Communication (NVC).

In addition of training and coaching people from the private sector and corporations in communication and negotiation skills as well as in conflict resolution she is teaching at the university of Tübingen and Constance both communication and conflict resolution/mediation.

Dr. euro. phil. Karolin Eva Kappler
www.barcelonamedia.org/personal/karolin.kappler/, karolinkappler@web.de



Condensed Curriculum Vitae

born 1978 in Pforzheim, Germany. Citizen of Germany.
Kappler lives in Blanes, Spain, as well as in Wuppertal, Germany.

After finishing her Ph.D.-thesis with European Mention at the University of Barcelona, titled “Living with Paradoxes: Victims of Sexual Violence in Germany and the Conduct of Everyday Life”, Karolin Eva Kappler works as researcher on violence, complexity issues and social networks and as lecturer in Criminology, Victimology, and Social Media.

She works for different research institutes and is member of the research group “Communication and New Media” co-directed by Dr. Imma Tubella (Rector of the Open University of Catalonia) and Dr. Manuel Castells.

Publications:

Ruiz de Querol, Ricard y **Kappler, Karolin E.** 2010. *La batalla entre los medios sociales y tradicionales*. Fundación Telefónica, Cátedra ‘Social Media’. En vías de impresión.

Ruiz de Querol, Ricard y **Kappler, Karolin E.** 2010. *La emergencia de los ‘social media’: Retos y oportunidades*. Fundación Telefónica, Cátedra ‘Social Media’. En vías de impresión.

Kappler, Karolin E. (Coordinador: Tamartit Sumalla, Josep María). 2010. “La vida cotidiana de las víctimas de violencia sexual: la cara invisible de la victimización”. In: *Víctimas Olvidadas*. Valencia: Tirant lo Blanc.

Kappler, Karolin E. 2010. “Familie und Alltagsleben von Opfern von sexueller Gewalt”. En: *Prävention & Prophylaxe* 12(1), pp. 19-22.

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Prof. Dr. Moshe Szyf, MA. (em.)
<http://www.medicine.mcgill.ca/pharma/mszyflab/>,
moshe.szyf@gmail.com



Condensed Curriculum Vitae

Moshe Szyf,

Szyf's research has focused on understanding the basic principles of the DNA methylation machinery for the last three decades. He received his Ph. D from the Hebrew University working with Aharon Razin on basic mechanisms of DNA methylation. Szyf then went on to a postdoctoral fellowship in Genetics at Harvard Medical School and was appointed to an assistant professor at McGill University in Pharmacology and Therapeutics in 1989. Szyf is currently a James McGill and Glaxo SmithKline-CIHR professor of Pharmacology at McGill University. In 1994 following a decade of studies of the DNA methyltransferase gene and its regulation Szyf has proposed that DNA methyltransferase is a prime anticancer target (*Trends Pharmacol. Sci.* **15**, 233 (1994) and has filed a number of broad patents based on these ideas. The laboratory of Szyf developed antisense and direct inhibitors of DNA methyltransferase in collaboration with Hybridon Inc. in Worcester Ma. And has demonstrated their efficacy as anticancer agents in preclinical models (*Proc. Natl. Acad. Sci. USA* **94**, 684-689 (1997). This has led to the foundation of the first pharma in the world dedicated to epigenetic drugs MethylGene in Montreal. Szyf's vision that DNA methylation machinery is a therapeutic targets is now a decade later accepted by all and several large Pharma are developing drugs targeting the DNA methylation machinery. The laboratory of Szyf has demonstrated that DNA methylation is a reversible biological signal (*Nature* **397**, 579- 583 (1999; *Proc. Natl. Acad. Sci. USA* **96**, 6107-6112 (1999). This paved the way to realizing that DNA methylation could be modulated after birth and responsive to external environmental signals. In collaboration with Dr. Michael Meaney, Szyf's lab discovered an epigenetic mechanism by which maternal behavior results in a stable alteration of the glucocorticoid receptor gene by DNA methylation in the hippocampus of the offspring (Weaver et al. *Nature Neuroscience* **7**, 847

(2004). New data from his lab shows that a similar process is associated with human suicide McGowan et al. PLoS ONE 3, e2085 (2008) and that marks of childhood adversity are found in adult human brains McGowan Nat Neurosci 12, 342 (2009).

This data provides a paradigm on how “nurture” alters “nature”. This last discovery was selected by Quebec Science as one of the most important 10 discoveries of the year 2009. Szyf’s work has led to a paradigm shift in our understanding of the relationship between the environment and the genome and introduced the idea that the social environment could talk to the genome and sculpt the genome. An additional novel concept introduced by Szyf is that the epigenome serves as a mechanism of an adaptive response of the genome to signals in early life. These signals trigger a systemic response in the epigenome that programs the genome to adapt to the anticipated life

long environment. The idea of a response rather than a stochastic change in epigenetic markings is diametrically different from the random-chance appearance of single nucleotide polymorphisms. The current application goal is to unravel this fundamental environmental response on an identical genetic background. The lab of Dr Szyf has developed some of the most advanced methods for computing whole-genome DNA methylation arrays, which are at the basis of this application.

Szyf has led several international collaboration and cross-disciplinary teams. Szyf is currently the founding co-director of the Sackler institute for epigenetics and psychobiology and is a fellow of the Canadian Institute for Advanced Research Experience-based Brain and Biological Development program, a high power interdisciplinary group. Szyf has funded international collaborations with China and Israel and is a co applicant on NIH grants with Dr Gao in North Carolina working on epigenomics of behavioral disorders and Dr Bennet in Chicago working on mapping the epigenome of the religious orders study. Dr Szyf is a PI on grants from the National Cancer Institute of Canada, the Canadian Institute of Health Research and NICHD.

He has been a past recipient of a Human Science Frontiers program award. Szyf has published more than 140 papers in peer reviewed journals, almost all on epigenetics. His papers are frequently cited well above the impact of the journal. From example his paper in Nature Neuroscience on epigenetic

programming by maternal care has been the most cited paper in Nature Neuroscience. Szyf is an inventor on dozens of issued and patents in the application process, all the patents relate to “epigenetics” based therapeutics.

Prof. Dr. Adrian S. Petrescu

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Condensed Curriculum Vitae

Adrian S. Petrescu, PhD, is President and CEO of InnovationTrek, a small global consulting outlet bringing together ideas with parties interested in their execution and implementation, and advising as to means to accelerate innovation in private and public organizations. Since 2004 he co-founded (along with his daughter, 5 y.o. then) “A Children’s Museum in Every Town” Global Foundation.

He teaches currently with the University of Maryland UC Europe, and has taught for over a decade graduate courses, with Strayer University in Philadelphia, with Kutztown University (PA-USA), has taught in and founded/directed the MPPM Program at the University of Texas at Brownsville, with the University of Toledo (Ohio, USA), with GSPIA at the University of Pittsburgh etc. Professor Petrescu holds a Doctor of Philosophy degree (2003) from the Graduate School of Public and International Affairs at the University of Pittsburgh, where he has specialized in Public Policy (honors), International Security, Advanced Research Methods and Policies of the European Union and Trans-Atlantic Relations, a Masters of Arts Degree in International Relations (1993), and a Masters of Science degree in Management and Engineering (1989). In the early-mid 1990s he has served as senior public servant in policy advising/making with the Parliament of Romania and the NATO PA after, and in part being in the middle of, the sweeping changes in said country after 1989.

Dr. Petrescu’s research interests are international relations and security, public administration theory and practice, regional cooperation, and policy analytical methods, as used in international affairs, economic policy, urban governance (economic development, alternative service delivery), science and technology policies in advanced and developing countries, and information society.

Petrescu works on optimizing international organizational structures for better policy decision-making, particularly by applying/harnessing complexity theory to administrative theory and practice.

Activity Highlights and Selected Research

Expertise (selection):	Change Management; Organizational Design; (International) Public Policy & Management; Education, Environmental, Energy, International Security Policies; Political Systems; International Relations & Trade, Regional Integration, ICTs & e-Government, Science & Technology for Innovation & Economic Growth; R&D Policies/Funding; Intangible Capital Flows; Green Energy; Public Administration Reform
Highlights:	<p>Current Projects (selection): European Park Service; Accelerate Natura2000, ERA, EU RTD FPs</p> <p>Highest position: advise/report to President of Senate, Parliament Standing Committees; oversight</p> <p>Largest projects: organization/IT--Parliament foreign policy capacity; NATO, EU accession strategies</p> <p>Sixty+ International academic-policy conferences, presented research and/or reviewed critically</p> <p>Thirty+ policy research projects supervised, in a range of complex interdisciplinary domains/topics</p> <p>Fifty+ (75% graduate) courses taught, wide range (US, EU Gov., Org. Design, Public Admin/Policy)</p> <p>Fifteen+ International policy-making Conferences/Seminars, with speech writing for key speakers</p> <p>Reviewer for several peer reviewed Public (S&T) Policy & Administration and ICTs academic journals</p> <p>Member in several int'l professional organizations (PSO, MPSA, APSA, ASPA, PATNet, APPAM)</p> <p>Four books: printed: "Conditions for Cooperative International Decision Making.", NATO HQ, Brussels, Belgium, 2000; forthcoming 2010: "Managing Innovation"; in progress: "Fake Shutters. Searching for True Order of Things.", "Living Gold--Lost? World's Children—Falling through Cracks?"</p>
Experience (selection):	<p>Professor, Graduate Studies, various universities (see below), USA (1999-present)</p> <p>Research Associate, Instructor, GSPIA, GSPH, EU Center, University of Pittsburgh (1995-2003)</p> <p>Research Fellow, NATO PA (1992, 1997); NATO (1998-2000); European Commission (1999)</p>

	<p>Head of NATO Affairs, Secretary of Delegation to NATO PA, Senate of Romania (1991-1995)</p> <p>Reporter and News Editor, Romanian National TV, Bucharest Romania (1990)</p> <p>Reporter, Coordinating Investigator, Co-owner, ING Magazine, Bucharest, Romania (1984-1990)</p>									
Dates	25 August 1999 – present									
Position	University Professor; & Director, Master of Public Policy & Management Program (University of Texas)									
Activities	Teach (mostly graduate) courses (50+), supervise graduate (Masters) research projects (30+)									
Employer(s)	<p>Research, publish, present at int'l conferences in (int'l) public policy, global S&T policies, public admin. & management, environmental, education, energy policies, int'l rel's/security; Strategic direction</p> <table border="1"> <tr> <td>Univ. of Maryland UC Europe: Professor (2009-)</td> <td>Univ. of Toledo (OH-USA): Asst. Prof. (2003-04)</td> </tr> <tr> <td>Strayer Univ., Philadelphia USA: Professor (2009)</td> <td>Eastern Michigan Univ.: Lecturer (2002-03)</td> </tr> <tr> <td>Kutztown Univ. (PA-USA): Assist. Prof. (2008-09)</td> <td>Indiana Univ. of PA: Instructor (2001-02)</td> </tr> <tr> <td>Univ. of Texas: Director-MPPM Program (2004-08)</td> <td>Chatham University: Instructor (1999)</td> </tr> </table>		Univ. of Maryland UC Europe: Professor (2009-)	Univ. of Toledo (OH-USA): Asst. Prof. (2003-04)	Strayer Univ., Philadelphia USA: Professor (2009)	Eastern Michigan Univ.: Lecturer (2002-03)	Kutztown Univ. (PA-USA): Assist. Prof. (2008-09)	Indiana Univ. of PA: Instructor (2001-02)	Univ. of Texas: Director-MPPM Program (2004-08)	Chatham University: Instructor (1999)
Univ. of Maryland UC Europe: Professor (2009-)	Univ. of Toledo (OH-USA): Asst. Prof. (2003-04)									
Strayer Univ., Philadelphia USA: Professor (2009)	Eastern Michigan Univ.: Lecturer (2002-03)									
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Univ. of Texas: Director-MPPM Program (2004-08)	Chatham University: Instructor (1999)									
Dates	01 May 2000 – 15 August 2003; 27 August 1995 – 30 April 2000									
Position	Researcher, Program Evaluator (GSPH): Design, implement, execute									
Activities	<p>Program Evaluation methodologies for Public Health programs, (PA, OH) state & (US) federal grants writing/reporting</p> <p>Research Associate (EU Center): Research on EU CFSP, NATO & int'l security challenges, org's, mechanisms; organisational design for optimal decisions, co-ordinate outreach, organise conferences</p>									
Employer	University of Pittsburgh (Graduate School of Public Health, EU Studies Center of Excellence)									
Dates	15 June 1999 – 01 Sept. 1999; 27 July 1997 – 27 Oct. 1997; 24 March 1992 – 01 Oct. 1992									
Position	NATO Fellow (1998-2000): research: “Co-operative Decision Making									
Activities	within NATO”, & European Commission Fellow (1999): research on “Sector variance in R&D effectiveness in Hi Tech in Europe”									

	Visiting Fellow (NATO PA, 1997), Researcher (NATO PA, 1992): Research, drafted NATO PA Committee reports, NATO PA-Romanian Parliament co-hosts of NATO PA Session, keynote speakers
Employer	NATO HQ, and NATO Parliamentary Assembly, place du petit sablon no. 3, 1000 Brussels (Belgium)
Dates	03 July 1991 – 26 August 1995
Position	Head of NATO Affairs; Parliamentary Expert, Diplomatic Counsellor, Expert
Activities	Report to President/Vice-President of Parliament; Advise on Parliamentary Scrutiny over Government Secretary of Delegation to NATO PA: Coord. Initiatives w/ Int'l Secretariat; Coord. inter-ministerial expert task forces, draft reports, background documents, speeches, interventions, recommendations, amendments; Organized/participated in int'l conferences (incl. Head of State and/or Cabinet Ministers); Design & implementation of organizational structure for foreign relations & legislative scrutiny (Foreign Affairs, Defence, Security); 1st NATO PA Annual Session outside NATO (Oct. 1997)
Employer	Parliament of Romania, Senate, Calea 13 Septembrie no. 1-3, 050711 Bucharest (Romania)
Sector	Nat'l Government (legislative) (Senior Nat'l Public/Civil Servant—US GS17-SES, EU AD14 equivalent)
(Sel.) Peer Reviewing	Journals: Review of Policy Research, Wiley-Blackwell; Information, Communication & Society (iCS), Routledge; State & Local Government Review (ASPA); Discussant, Int'l Conferences, USA (2004-09)
Other Training (selection)	Yale Univ., ISPS, Executive Program: “Experiments in Social Sciences”, New Haven CT, August 2003. World Bank Institute, Executive Training: “Economics of Conflict”, Washington DC, USA, April 2001 NATO PA Executive Seminar: “European Security Architecture”, Brussels, Belgium, July 1997 Black Sea Univ., Leadership School: “Government-Press Relations”, Costinesti, Ro, July-Aug 1993 NATO HQ: “Economic Challenges in C&E Europe” seminar, Brussels, Belgium, April 1992 US AID & RTV: “Special News Gathering Techniques” Training Program, Bucharest, July-Aug 1990
Member (selection)	(US) Midwest Political Science Association (MPSA); (US) Association for Public Policy Analysis & Management (APPAM); American Political Sci-

	ence Association (APSA); American Assoc. for the Advancement of Science (AAAS); (Int'l) Policy Studies Organization (PSO); (US) European Union Studies Association (EUSA); (Int'l) Public Administration Theory Network (PATNet)
Books, Research, Work in Progress (selection)	<p>“Managing Innovation. Practitioners' Guide.” forth. 2010 (Academy of Technical Sciences of Romania)</p> <p>"S & T for Economic Growth", Review of Policy Research v. 26 n. 6, Blackwell-Wiley, Nov 2009</p> <p>“Optimal Policy Outcomes through Comprehensive Problem Definition”, book manuscript in progress</p> <p>“Conditions for Cooperative Int'l Decision Making in an Enlarged NATO”, NATO Academic and Scientific Committee, NATO Office of Information & Press, NATO HQ, Brussels, Belgium, 2000</p> <p>“European Security Archit.: pillars around NATO”, contrib. to Pol. Comm. report, NATO PA, May 1995</p> <p>“Systems of International Cooperation and Security on the verge of the Third Millennium. Response to Yugoslav Crisis”, National School of Political Science and Admin., Bucharest, Romania, May 1993</p> <p>“The Restructuring of the United Nations”, Paul Loebe Institut, Berlin, Germany 1991; NATO, 1992</p>
Peer-reviewed Conf., Seminars, Invitations (selection)	<p>“Moving Forward Faster in PA: Complexity, Interdisciplinary and Designing Effective Theory-Practice Networks”, 9th Annual ASPA/CPM Conf. “Transforming Public Service”, San Marcos TX, Nov 2, 2007.</p> <p>“Public Educ. Organiz'l Constraints, Challenges & Opportunities.” MPSA, Chicago IL, Apr 20-23, 2006</p> <p>“Serious Policy Analysis for Serious Policy Problems. Quasiexperimentation & assessing Immigration and Education Policies”, presented ASPA/CPM Conference, Austin TX, Sept 30-Oct 1, 2005</p> <p>“New Cases in Using Quasiexperimental Inquiry Based Methods in Public Policy Analysis: Assessing Immigration and Drug Policies”, 63rd Nat'l Conf. of the MPSA, Chicago IL, Apr 7-10, 2005</p> <p>“Exploring Knowledge in Sustainable Development & Human Habitat Ecology”, with Stoian Petrescu (Bucknell Univ.), American Assoc. for the Adv. of Science (AAAS), Washington DC, Feb 17-21, 2005</p> <p>“Quasiexperimental Inquiry in Policy Analysis: Privatizing Services & Immigration/Drug Policies”, 6th Congress of the Americas, PSO, Univ. Autónoma de Nuevo León, Monterrey Mexico, Oct 13–15, 2004</p> <p>“Opportunities and Constraints of Using Quasiexperimental Inquiry Based</p>

Methods in Public Policy Analysis”, 62nd Midwest Political Science Assoc. (MPSA) Conference, Chicago IL, Apr 15-18, 2004

“Complexity, Interdisciplinarity, & Removing Boundaries of Public Administration” (with Senol Duman), Conf. of Public Administration Theory Network (PATNet), Anchorage, AK, June 19-21, 2003

“Knowledge Use & Organiz. for Optimal Decisions: NATO/EU”, APPAM Conf., Washington, Nov 2001

“Int'l Organizations, Knowledge Use, Problem Structures and Avoiding Policy Errors from Problem Definition: the cases of NATO and the EU”, APSA/PSO Conference, San Francisco CA, Sept. 2001

“New Transatlantic Challenge: Coop. in Immigration & Crim. Justice” Conf., U. of Pittsburgh, Apr 1999

“Institutional Power & Nat'l Interest Divergence in European Integration”, Virginia U., VA, May 1998

NATO PA 43rd Annual Session, October 9-15, 1997, Bucharest, placed bid & organized, NATO team

“New Trans-Atlantic Security Agenda 2000”, Policy Conf., U. of Pittsburgh, organizer, Dec, 1995

“The Restructuring of the United Nations”, NATO Seminar, Paul Loebe Institut, Berlin, Germany 1991

15+ NATO Parliamentary Assembly Conferences in 15 NATO member/partner countries (1991-1997)

Hobbies History of Science & Technology, Scientists/Inventors, Epistemology of Science, Knowledge Systems, Music, Art, Classic Film, SF, Skiing, Biking, Travel, World Cultures, Children Hands On S&T Museums

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Condensed Curriculum Vitae

Born in 1964 in Germany; resides in Wuppertal, Germany and Barcelona, Spain.

EDUCATION

1996-2002 academic studies in European Studies and Social Sciences, University of Osnabrück and University of Bochum, Germany. 1984-1987 apprenticeship in ceramic sculpture. 1975-1982 Lycée Français de Barcelone. As an artist he performs several **SOLO EXHIBITIONS** and **GROUP EXHIBITIONS** and he gets several **PUBLIC COMMISSIONS, GRANTS, AWARDS (SELECTION)** 2008 Finalist of the international competition for a monumental sculpture in front of the Schmuckwelten in Pforzheim, Sparkasse Pforzheim Calw, Germany. Finalist of the photo competition *Visiones del cuerpo humano*. Palau Solterra, Fundació Vila Casas, Torroella de Montgrí, Spain. 2007 Artist of the Year. 1st prize. IX. Competition of Arts and Photography organized by the Spanish Chamber of Commerce in France and the Colegio de España, Paris, France 2006 “Carl Faust” (bronze sculpture: 90 x 66 x 135 cm), Fundació Privada Carl Faust, Blanes, Spain. 2005 XY (sculpture of terracotta and steel: 2m x 3,5m x 1m, 750kg), Centro Cultural „Fábrica Foroll“, Palafolls, Spain. 2004 “Mención especial del Jurado” (special mention of the jury), VI. Competition of Arts and Photography organized by the Spanish Chamber of Commerce in France and the Colegio de España, Paris, France. Sculpture of a ray fish, Sealife Center, Oberhausen, Germany. 2003-2005 Four sculptures for the campus of the Universidad Politécnica de Valencia, Spain. 2003 1st prize, architectural design French-

German school of Shanghai. 2002 1st prize, architectural design for the district of the royal courts of Münster, square Picasso, Germany. 1st prize, architectural design criminal court of Idstein. Fresco of 16 x 4 m in the gallery of the Opera in Cologne, Germany. 1994 One year patronage by Mannesmann. 1993 1st prize, competition of public art work Dortmunder Stadtwerke, Germany. 1992 Realization of the decoration of the facades of the Heuvel Gallery Eindhoven, Holland. 1988 – 1998 Elan, the world's biggest monumental sculpture in massive clay, dedicated to emancipation. (Steel: 25x16x8m, 15t; Clay: 7x6x5m, 30t). Postbank, Dortmund, Germany. **SELECTED COLLECTIONS** Museum Karl Ernst Osthaus, Hagen, Germany. Palau Solterra, Fundació Vila Casas, Torroella de Montgrí, Spain. Numerous private collections in Germany, France, Spain and the United States. **TEACHING EXPERIENCE (SELECTION)** Since 2005 Numerous conferences at National and International Congresses in Sociology, Criminology and Victimology. 2004 Department of Cultural European Studies, University of Osnabrück, Germany. Escola de Ceràmica de La Bisbal, Spain. 2001 Department of Sociology and Organizational Analysis, University of Barcelona, Spain. 2000 University of Calgary and Alberta College of Art and Design, Calgary, Canada.