Building a Better World: An Ecosystemic Approach to Education, Culture, Health, Environment and Quality of Life

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Building a Better World: An Ecosystemic Approach
to Education, Culture, Health, Environment and Quality of Life
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Quality of life, natural and man-made environments, physical, social and mental well-being are currently
undermined by all sorts of hazards and injuries; political, economical, social and cultural disarray normalise
atrocious behaviours and violence throughout the world. Considering the multiple problems of difficult
settlement or solution in our times, current environmental, social, cultural, educational, political and economic
policies and practices are examined in view of new paradigms of growth, power, wealth, work and freedom. A
multidimensional ecosystemic approach and planning model integrate into a dynamic configuration four
dimensions of being-in-the-world (intimate, interactive, social and biophysical), as they induce the events
(deficits and assets), cope with consequences (desired or undesired) and reorganise for change.

Key-words: education; culture; public policies; environment; ecosystems

Can we imagine a world in which wise and impartial international regulators would have the
authority to implement the right set of norms and policies to safeguard mankind’s cultural
inheritance, natural and built environments, esthetic and life saving values for future generations?
Creating transnational governance systems to deal with these multiple issues constitutes one of
the greatest challenges of our times.

Contemporary problems are closely interconnected and interdependent, they cannot be
understood and solved within the present context of weakening social bonds and cultural, political
and economical disarray, usually a generous ground for market-place’s interests, publicity-oriented
behaviour, fragmented academic disciplines and misguided government policies (Elohim, 2000),
but extremely hazardous to conviviality, beauty, creativity and peace.

To cope with environmental collapse, environmental justice should be extended beyond national
boundaries, beyond political and economical interests of malicious consortia and corrupted or
lenient governments, which easily comply to ill-intentioned propaganda and lobbying by influential
groups and questionable business organisations, always wishing to control public affairs and
promote their private interests.

The conceptual direction and the legitimacy of development strategies should be examined in view of
a comprehensive framework, not surrendering to specialisation and fragmentation, but promoting a
multi-level approach. Different movements and civic stances should work towards a “new global
covention” (Held (2004), emphasizing social justice, physical, social and mental well-being and the
equilibrium between natural and built environments.

This means that the environment should be examined in view of a critical assessment of
environmental information and issues from both a biological, chemical, physical as well as
sociological and economic perspective, including all the aspects that affect the human development:
criminality, ethics, the economy, culture, environmental law, environmental policy, environmental
management tools.

Deforestation, desertification, global warming, biodiversity losses and other extreme events are
linked to the action of powerful economical and political interests (fig. 1), which try to legitimise
business expansion in terms of “development” models based on consumerism and abuse of
natural resources, notwithstanding its failure to face the increasing inequalities, violence and poor
quality of life throughout the world.
The present ecological crisis reflects a prior disordering of thought, perceptions and values (Orr, 1994), and is a sign of the severe cultural crisis of our times, which break through the core of societal institutions – education, justice, governance – already impaired by the dominance of national and international corporate interests and the maneuvers and collusions of political and economical dominant groups.

Environmental problems stem from the prevailing power-driven ethos, combined with anomic individualism, “which diverts human concern into technological invention, scientific advancement, and unlimited material consumption and production” (Orhan, 2003). Changing the current “world-system” is mandatory; compliance to and enforcement of environmental and overall legislation, depends on the cultural and educational level of societies.

The role of law, the work of attorneys and judicial courts is frequently hampered by the very system in which they have their insertion. "Legal" and "illegal" strategies and methods seem very much alike in the assemblage of current political and economical interests and powerful lobbies deeply ingrained in the public administration, which favour mega-projects with intensive use of resources, rather than the appropriate technologies to enhance overall quality of life.

Legal procedures will not forestall neither the planned obsolescence of products designed for the dump nor the perceived obsolescence fostered by propaganda induced consumerism, which, among other psychosocial strategies, arise in people the sensation that products should always be substituted by new ones, buying and disposal converted into rituals of a culture that makes consumption a way of life.

The traditional approach to teaching ethics do not thrive in highly corrupt societies. Beyond profit-searching motives of business corporations and other vested interests, transboundary issues like human rights, pollution, deforestation, drugs and criminality impose a significant reconfiguration of state control and political authority, involving new forms of being-in-the-world, in which power must be shared on ethical grounds in a transnational basis, by transnational organisations.

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1 “A world-system is a social system, one that has boundaries, structures, member groups, rules of legitimation, and coherence. Its life is made up of the conflicting forces which hold it together by tension and tear it apart as each group seeks eternally to remodel it to its advantage. It has the characteristics of an organism, in that it has a life-span over which its characteristics change in some respects and remain stable in others. One can define its structures as being at different times strong or weak in terms of the internal logic of its functioning” (Wallerstein, 1974: pp. 347-57).

2 “Weak public institutions and deeply entrenched networks act together to prevent accountability, funneling finance and influence along unofficial channels for the benefit of corrupt groups; political people participate in governmental processes primarily to secure and retain access to personal enrichment at the expense of the public good” (Whitton, 2009). “Transboundary and global environmental harm present substantial challenges to state-centered (territorial) modalities of accountability and responsibility; the globalization of environmental degradation has triggered regulatory responses at various jurisdictional scales to address the so-called “accountability deficits” in global environmental politics” (Mason, 2008).
When pressures on systems steadily increase, “catastrophic bifurcation” can appear without obvious early warning signals, and the resulting changes are always difficult to reverse (fig. 2); understanding how such transitions come about in complex systems such as human societies, ecosystems and the climate is a major challenge (Scheffer et al., 2001).

In many problem-ridden, economically unequal and intrinsically violent urban environments, most people become uninvolved in civic life due to the outspread criminality (Baiocchi, 2005). While some enjoy life in fortified enclaves, most of the city dwellers live in makeshift slum housing, without the basic social services (health, education) and dependent on criminality for survival.

Growth, power, wealth, work and freedom must acquire new meanings (O’ Sullivan, 1987). The accumulation of wealth to the exclusion of other components of the development process (safety, health, education, equity, ethics, justice, beauty) has led to overwhelming natural devastation and severe social and cultural impacts, with high levels of crime and violence

“Social inclusion” only accommodate people to the prevailing order and do not prepare them to change the system (Labonte, 2004); once “included”, a new wave of “ego-centric producers and consumers” reproduce the system responsible for their former exclusion, increasing the abuse of nature in the name of the so-called “progress” and irresponsible consumerism

Technological “solutions” must take into account the social, cultural and environmental impacts, development proposals which demand even more resources, increasing pollution and waste, reinforce the current way of life and do not change the current irrational system of production, transport and consumption that plagues the world.

“Sustainability” approaches, based on capital and technology, cannot be a substitute for the wealth of resources drawn from the natural world; the so-called development and affluence have degraded ecosystems: “strong sustainability entails living within the productive capacity of nature, containing population growth and curbing consumption, meeting the needs of the current generation as opposed to their demands” (Layzer, 2008).

3 The environment should be examined in relation to environmental law, environmental policy and environmental management tools, encompassing criminality, ethics, economy, development, psychology, culture; “quality of life, whether in the developed world or in developing societies, is conditioned by the quality of the environment being built around us by others - increasing the sense of individual alienation” (Yang, 1998).

Promoters of multi-billion dollar land-use development megaprojects systematically misinform parliaments, the public and the media in order to get them approved and built; they often avoid and violate established practices of good governance, transparency and participation in political and administrative decision making” (Flyvbjerg, B., Bruzelius, N. and Rothengatter,W., 2003).
A proper cultural environment, a common ethical ground, is more important than the best legal prescription\(^5\). Human scale development must be based “on the satisfaction of fundamental human needs, on growing self-reliance, on the construction of organic articulations of people with nature and technology, of global processes with local activity, of the personal with the social, of planning with autonomy, and of civil society with the state” (Max-Neef, 1991).

Essential to personal happiness, positive social involvement is linked to ecologically sustainable behavior: in contrast to “extrinsic” goals (like money, image and status), which are means to other (disputed) ends, “intrinsic” goals are inherently gratifying to pursue, like self-acceptance (growing as a person), affiliation (having close, intimate relationships with others), community feeling (helping the world be a better place) (Kasser & Ryan, 1996).

The fundamental change is economic, social, cultural and political; instead of mere growth, priority should be given to sustainability, human development, order and stability in civil society; myths that if one group gets richer, others will share in the wealth, “uses and discard people as economic building blocks” (Bown, 2007), overspreading criminality in today’s big cities.

A process of change cannot ignore the prevailing political and economical interests, the cultural and educational level of the population, the governance “styles” towards influential people and questionable business corporations, which use ill-intentioned propaganda, lobbying and corruption to intensify profits and secure the hegemony of their private interests over public affairs\(^6\).

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**The Role of Education in a Time of Global Crisis**

Cultural, educational, social, economical, environmental and health problems cannot be sorted out by segmented projects; without considering micro, meso and macro relationships. Like bubbles in the surface of a boiling pot, segmented problems are symptomatic of the assemblage of political, economical, social and cultural variables that should be dealt with altogether.

When the political, economical, cultural and ethical disarray normalises and condones inequities, transgressions, violence and atrocious behaviours, the “philosophical” questions of ethical, moral and overall civic education are frequently left aside, information and communication technologies being presented as a panacea, not as a resource or an instrument.

Preparing people to assume their positions in society, both as professionals and citizens, cannot be reduced to ritualistic actions, such as voting or paying taxes, nor can it encourage an uncritical ideological allegiance to the “free-market”, transforming schools in training centers for compliant egocentric producers and consumers, instead of centers of critical inquiry\(^7\).

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\(^5\) Present ecological problems cannot be clearly understood or resolved without dealing with deep-seated problems within society and the structurally amoral political-economical system that drives it (Bookchin, 1982). The nature, scope and implications of current events “no prior age could even have imagined” (White, 1999); scholars speak of “the suffocating political and cultural forces that blunt our response to the growing complexity of our ecological catastrophe” (Buell, 2003); of a “total risk of catastrophe” (Ewald, in Godard, O. and Long, M., 1997); of “systemic risks” (Giddens, 2001), of “global catastrophic risks” (Bostrom, 1997), of “simultaneous crisis formation” (Harvey, 2006), of a “general disaster” (Massumi, 2003), of the “worst imaginable accidents” (Beck, 2007), of “global” or “integral” accidents (Virilio and Turner, 2005), of “development as plunder” (Trainer, 2000).

\(^6\) Privatisations, deregulations, sweeping market-oriented reforms, resulted in relinquishing state's control to the huge power of private sectors; in this context, new technological waves will not rescue a devastated environment, nor relieve the effects of inequities, uprootings, displacements, hunger, violence, ecological insults and deep social division in contemporary society (American Anthropological Association, 2005).

\(^7\) “Environmental culture boldly unmasks the institutional and systemic violence of our culture and reveals how our culture's life-destroying practices and ethical and spiritual bankruptcy are closely linked to our failure to situate ourselves as ecological beings” (Plumwood, 2002).
Table I

Dimensions’ equilibrium in the ecosystemic model of culture

<table>
<thead>
<tr>
<th>Donors</th>
<th>INTIMATE</th>
<th>INTERACTIVE</th>
<th>SOCIAL</th>
<th>BIOPHYSICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTIMATE</td>
<td>Creativity</td>
<td>Support</td>
<td>Services:</td>
<td>Vitality</td>
</tr>
<tr>
<td>INTERACTIVE</td>
<td>Altruism</td>
<td>Teamwork</td>
<td>Alliances</td>
<td>Niches</td>
</tr>
<tr>
<td>SOCIAL</td>
<td>Citizenship</td>
<td>Partnerships</td>
<td>Organisation</td>
<td>Spaces</td>
</tr>
<tr>
<td>BIOPHYSICAL</td>
<td>Care</td>
<td>Defence</td>
<td>Sustainability</td>
<td>Equilibrium</td>
</tr>
</tbody>
</table>

Table II

Dimensions’ disruption in the non-ecosystemic model of culture

<table>
<thead>
<tr>
<th>Inflictors</th>
<th>INTIMATE</th>
<th>INTERACTIVE</th>
<th>SOCIAL</th>
<th>BIOPHYSICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTIMATE</td>
<td>Solipsism</td>
<td>Subjection</td>
<td>Neglect</td>
<td>Harm</td>
</tr>
<tr>
<td>INTERACTIVE</td>
<td>Egotism</td>
<td>Fanaticism</td>
<td>Co-opting</td>
<td>Dispersal</td>
</tr>
<tr>
<td>SOCIAL</td>
<td>Abuse</td>
<td>Corporatism</td>
<td>Tyranny</td>
<td>Extinction</td>
</tr>
<tr>
<td>BIOPHYSICAL</td>
<td>Injury</td>
<td>Damage</td>
<td>Spoliation</td>
<td>Savageness</td>
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</table>

Table III

Intertwining the four dimensions of the world in the diagnosis and treatment of the problems

<table>
<thead>
<tr>
<th>Process Stages</th>
<th>INTIMATE</th>
<th>INTERACTIVE</th>
<th>SOCIAL</th>
<th>BIOPHYSICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnosing Events</td>
<td>Subject’s Cognitive- Affective Processes</td>
<td>Dynamics and Cohesion of Groups and Communities’</td>
<td>Public Policies</td>
<td>Natural and Man-Made Environments</td>
</tr>
<tr>
<td>Eliciting New Events</td>
<td>Subjects’ Educational and Cultural Enhancing</td>
<td>Social Networks Strengthening Community Building</td>
<td>Integrative Policies</td>
<td>Balance, Natural and Man-Made Environments</td>
</tr>
<tr>
<td>Evaluating Changes</td>
<td>Resilience Awareness Subjects’ Well-Being</td>
<td>Proactive Groups and Communities Participation</td>
<td>Well-Fare Policies</td>
<td>Enhancement of Natural and Man-Made Environments</td>
</tr>
</tbody>
</table>

Advances in applied ethics should be made “by thoughtful and innovative thinkers in any activity area; specialists of several professions who work together, within a multidisciplinary approach, must base their action on some common principles of ethics and on an understanding of each others’ obligations, responsibilities and professional standards” (Soskolne, 1997).

Teaching for meaning in a cultural context that values only information transmission (Boostrom, 1997) is one of the main challenges for education in our times. In order to salvage the realm of character and moral development, the present ethos should not center on individual good and individual value alone, but on the environment and the public space, as a global system.

Environmental education cannot prosper in a context of social fragmentation and weakening social bonds: creation of choices, generation of capacities, development of motivations depend on cultural, social, political and economical aspects; the quality of institutions and incentive structures are more critical than the quality of individual motives and morals (Krol, 2005).

“Environmental awareness is not simply awareness of the natural environment but also of social, economic, cultural and other dimensions; it requires ‘dynamic’ skills to discover and study the environment and find solutions, capacity to discern the relevant dimensions of a situation, readiness to accept responsibility, initiative taking, independence, commitment” (Hugonnier, 2008).

Creation of choices, generation of capacities, development of motivations depend on complex configurations encompassing the four dimensions of being-in-the-world (intimate, interactive, social and biophysical), as they induce the events (deficits/assets), cope with consequences (desired/undesired) and contribute for change (Pilon, 2003; 2008).
All dimensions of being-in-the-world should be considered altogether in view of public policies and research and teaching programmes. The equilibrium (table I) or disruption (table II) between the different dimensions of being-in-the-world in the different models of culture (ecosystemic and non-ecosystemic) should be assessed in view of the desired quality of life.

Assessment of the problems and eliciting favourable changes imply the diagnosis and work with the configurations represented by the intertwining of variables linked to the four dimensions of being-in-the-world (table III). Environment and development issues will always reflect the connections and the ruptures between these dimensions.

Beyond the objectivistic description of the facts or disseminating information to the public, the design, development, and utilization of concepts, tools and practices to enhance the quality of life must take into account the collective forms of being-in-the-world, in order to make the necessary changes in the current model of culture.

Identifying complex configurations or conditions that predict particular outcomes asks for an integrative multidisciplinary approach, in terms of multiway, nonlinear interactions among variables. What are the prospects of education as a whole, and environmental and sustainability education in particular, regarding the severe threats faced by today’s world?

Although the practices, according to evolutionary theories of change, may be selected by the social environment rather than by individuals, it is important to consider the role played by human purpose, intelligence, planning, learning, arguing, persuading, calculation, discussion, and argument, “as a vital part of cultural evolution” (Nelson, 2005).

Beyond environmental education, development education needs the construction of a “new story for mankind”, enhancing local and global citizenship, human rights and justice, supporting people to understand and transform the social, cultural, political and economic structures affecting life at personal, community, national and international levels (Irish Aid, 2007).

Education for citizenship cannot be reduced to formal or ritualistic actions, such as voting or paying taxes, nor can it encourage an uncritical ideological allegiance to the “free-market”, transforming schooling in training centers for a compliant work force, which takes for granted the perverse life style of egocentric producers and consumers.

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8 Regarding the media, “popularizers” could draw attention to frame issues on environmentalism and culture as significant and important, by dramatization in symbolic and visual terms, emphasising different incentives for taking positive action, and getting institutional support to ensure both legitimacy and continuity in the process” (Hannigan, 1995).

9 More broadly defined than “environmental education”, the term “education for sustainability” (or “education for sustainable development”) emerged primarily out of the Earth Summit and includes international development, economic development, cultural diversity, social and environmental equity, and human health and well-being. In order to deal with sustainable development in both environmental and cultural terms we need a theory of cultural sustainability, since the concept of sustainability implies a holistic approach to modelling economic, biological and cultural processes (Throsby, 2008).

10 “Education as a whole, and environmental and sustainability education in particular, are limited in their ability to make a positive difference to assure a more sustainable future” (Sterling, 2003). “Whilst environmental education in schools help to normalise environmental values, children will take cues for appropriate behaviour from the media, peer group and society as a whole” (Bedford, 2002).

11 “To date, education and the media have only succeeded in fostering a culture characterized by narrow vested interests, intolerance and violence; to build a sustainable society for our children and future generations we need to fundamentally redesign many of our technologies and social institutions so as to bridge the wide gap between human design and the ecologically sustainable systems of nature” (UNESCO-EOLSS, 2008).
Since universities are responsible for preparing people to assume key positions in society, both as professionals and citizens, the discussion of environmental problems should transcend traditional disciplines and national boundaries, in light of transdisciplinary research and teaching programmes, global perspectives and international cooperation.

Besides cross-curricula activities, environmental education demands a knowledgeable and congruent teaching and learning theoretical ground, a core element for comprehension, preparedness and action, in order to develop the “students’ abilities to participate in, influence, share and control the learning process” (Tilbury et al., 2005).

The present United Nations decade for education for sustainable development emphasizes critical thinking and problem solving, interdisciplinary and holistic multi-method, values-driven approaches, encompassing environmental principles, social awareness, ethical dimensions, economic prudence, confidence and participatory decision-making (Lindberg, 2005).

The objective of educational processes is not to solve taken for granted problems, but to develop capacities to unveil and work with the dynamic and complex configurations in the core of a “boiling pot”, considering individuals, groups, society and environments as donors and recipients, as active components to promote the desired quality of life.

To develop awareness and capabilities beyond the traditional schemes of thought, feeling and action, subjective and objective realities should be entangled, encompassing the alien that we strive to understand and the familiar that we take for granted (Gadamer, 1977); this creates an “excess of meaning”, in view of new paradigms of knowledge and action.

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12 “The industrial culture is rooted in an approach to the world that divides the human person into parts and the world into fragments, but the environment is one whole, it is not cut up into specialties, disciplines and departments” (Drengson, 1995). The current problems are so complex that they require “boundary-crossing skills, such as the abilities to change perspective, to cope with complexity and to synthesize knowledge of different disciplines or areas of expertise in a critical and creative way” (Fortuin et al., 2008).

13 Working with phenomena (how reality appears in a specific space-time horizon of understanding, feeling and action), requires an adequate learning environment, “which is essential to moral and democratic education” (Lind, 2003). “More problematic than the need for a radically different economy would be the acceptance of some values which clash with the Western tradition, notably the present commitments to competition, individualism and acquisitiveness, and the conception of progress” (Trainer, 2001). This is not only a matter of education, but of governance and societal organisation. It is generally accepted that cross-cutting programmes on sustainable development imply a worldwide change of focus and procedures in different areas of production, distribution, consumption and discard, reducing consumption, reusing products, and recycling materials.
In the socio-cultural learning niches, cultural and epistemic backgrounds and subject-object relationships should be unveiled in a specific space-time horizon of understanding, feeling and action. Analysis of assumptions, contentions, consensus and discrepancies are essential to the comprehension and definition of the problems, in view of new ways to deal with quality of life. The methodology is participatory, experiential and reflexive (Fig. 3). Heuristic-hermeneutic processes unveil subject-object relationships (intimate dimension), sharing and analysing perceptions and contentions within the socio-cultural learning niches (interactive dimension) in view of actual changes in the culture and environment (social and biophysical dimensions). An interesting description of the process can be found in Nonaka and Konno (1998). A process of change must be associated with the development of an ecosystemic model of culture leading to public action to transform current development policies and structures that wipe out biodiversity, destroy natural and built environments, abuse landscapes and resources, demolish living-spaces and generate unmanageable refus es that menace the future of life on Earth.

Quality of life depend on complex configurations encompassing individuals, groups, society, natural and man-made environments; development and evaluation of public policies, community projects, research and teaching programmes should consider the interplay of the different dimensions of being-in-the-world; enhancing their connections and sealing the ruptures between them.

Acceptance of ethical norms, peace building, quality of life requires a whole host of ethically interpreted and ordered social experiences, a capacity to develop morally relevant interests as the bases of rights-bearing, a broad, universally rationalised cultural knowledge, an empathy with people, including those regarded as alien, or even hostile (Znaniecki, 1935).

Findings and policy lessons

Ethics, education, culture, human rights, physical, social and mental well-being, citizenship, natural and man-made environments are strongly affected by the different models of culture (ecosystemic or non-ecosystemic). As by-products of the prevailing models of culture, current problems cannot be treated as separate objects of separate projects.

Preserving the singularity and dynamic equilibrium between the different dimensions of being-in-the-world is an essential condition for an effective, consistent, endurable and responsible action, in view of the current problems of quality of life and today’s paradigms of growth, power, wealth, work and freedom that orient social-economic-political and cultural life.

14 Diagnosis and prognosis of current problems must take into account the connections (assets) and ruptures (deficits) between the different dimensions of the world, as donors and recipients: Intimate Dimension: cognitive and affective processes, existential control, resilience, cultural and educational development; Interactive Dimension: social networks, community building, groups’ dynamics, bounds and bindings; Social Dimension: political, economical, social and cultural aspects, public policies, law enactment, health, educational and environmental programmes; Biophysical Dimension: biological endowment, natural and built environments, life spaces, neighbourhoods and settlements.

15 According to Nonaka and Konno, the process can be described by the following steps: 1) Socialisation: sharing tacit knowledge (internal knowledge, skills and insights) with others by mentoring, imitation, observation and practice; 2) Externalisation: converting tacit knowledge into explicit knowledge, through images or words (conceptual knowledge), as a result of a dialogue; 3) Combination: knowledge conversion by exchanging and combining different types of explicit knowledge of different sources. 4) Internalisation: converting explicit knowledge into tacit knowledge in people’s minds, which is represented by mental images or models (‘learning by doing’).

16 An ecosystemic model of culture takes into account the configurations formed by four dimensions of being-in-the-world (intimate, interactive, social and biophysical), as they induce the events (deficits and assets), cope with consequences (desired or undesired) and contribute for change (Pilon, 2008).
It means reorganizing to produce more of the things that people need — like food, shelter, clothing, education, security and health care — and less of the costly things we do not — like military hardware, pollution, traffic jams, useless chattels and crime. Failures in governance at many levels, and the resulting suspicion and mistrust, clearly also play a role in the current state of affairs.

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