TIME AND DYNAMIC BOUNDARIES: THE IMPACT OF ACTION BASED LEARNING

Susu Nousala
Research Fellow, Aalto University, Helsinki, Design Department, Creative Sustainability, susu.nousala@aalto.fi

ABSTRACT

This work aims at opening for discussion the understanding of the “time” element that is critical for longitudinal development of robust group or action based community activity. The discussion is based on work occurring in multiple sites within a global project “The New Global”.

The learning cycles or epicycle processes are relevant for action-based investigation for organizational and social structures. The question of group behavior maybe influenced by their positioning within a larger adaptive system, the type of focus or determined goals and the type of connections that have been developed.

The author has stated previously (Nousala 2014) that these types of community or group efforts be described as autopoietic systems, that are operating within larger adaptive societal web. The learning process involved in investigating these types of dynamic phenomena need to be themselves dynamic, providing methods that can explore, through longitudinal cycles expose these epicycles at work. The continuous recording of various processes through epicycles provide a means to “qualitatively measure” changes, which would normally go unseen (Hall et al. 2012; Hall et al., 2005; Nousala and Hall 2008; Wenger and Snyder 2000).

These recorded shifts in process provide a means to apply the action-based knowledge gained through project based learning for problem based solving. The success of applying action-based knowledge outcomes really relies on the quality of providing meaningful longitudinal approaches for mapping and recording changes in epicycles. This work This work aims at an exploration through current discussion, discourse and literature regarding the importance of time within the longitudinal approach, posing the question, what lengths of time are required or relevant to develop robust groups or community based actions?

Keywords: Time and longitudinal development, action based knowledge, learning cycles and approaches, robust groups/communities.

THE INNOVATIVE ECO-SYSTEM AND THE EDUCATIONAL PLATFORM APPROACH

Dynamic, expansive eco-systems in which we find ourselves existing and working are both challenging and promising. There is a need to not only understand these environments but to navigate them successfully (Nousala and Garduno 2013). Various different descriptions exist regarding the influences and different areas of focus between sustainable development and sustainability. It brings to mind the concept of focusing on the symptoms rather than the cause, as Asghar (2001) puts it, linking poverty and pollution, social justice with unsustainability.

Looking at these issues and their links as living eco-systems, in a social, economic and biological sense, expands the notion to include the possibility to view these combinations as holistic living systems, that are in themselves, adaptive complex systems, with many components and properties (Nousala et al 2012: Nousala and Hall 2008: Hall et al 2010: Nousala and Garduno 2013). There are other broader perspectives that voice a need for more multi-layered approaches, for example, this Brundtland Report quote, “…the futility of focusing or dealing with the environmental problems without viewing these issues through a
wider lens, to encompass the factors that underpin world poverty and international inequality (Brundtland Report WCED 1987, p3).

This paper discusses the focused collaborative activities proposed by the New Global project (a multi-disciplinary engagement of multiple global sites, with the ability to perform international comparative analysis on multiple levels), that examines concepts of sustainable innovations emerging from market eco-systems, community engagement and methodological approaches (that include the complex adaptive systems view). The discussion also includes a “mirror image”, or reflection as a response to the expansion of educational experiences observed in the field, evolving into platforms of exchange. These educational experiences and evolving platforms, also reflected learning outcomes through different levels of activity during fieldwork. These learning outcome activities focused on, supported and were influenced by sustainable innovation, society impacts and the holistic view to eco-systems and complex systems. In other words, creating continuous cycles that could include multiple levels simultaneously. This dynamic combination of concepts, were operating at physically a nexus of several educational pilot projects (engaged within corresponding eco-systems) that were brought together in a global project, with the new possibility of international “spontaneous” comparative analysis. These experimental field studies have to date, been based on previous research, current literature and on-going fieldwork engagement with a range of differing communities (Nousala et al. 2012: Nousala and Garduno 2013: Nousala 2013).

BOUNDARIES AND THEIR IMPACTS

Linklater (1990, p. 149), describes boundaries as having bottom up impacts on the local level through global concerns, “The State, as it has developed from the European experience through the treaty of Westphalia in 1648 and onwards…sought to limit the scope of both sub- national and transnational solidarities and identities… because of the fear of its internationalization, the idea of community has thus remained limited to the boundary of the nation-state”.

The current educational pilot projects discussed in this paper, have been designed (including more holistic design based approaches of inclusiveness and longitudinal development) to impact one another through engagement and comparative analysis, testing local levels whilst simultaneously looking at global concerns. This tension between boundary levels of society, creates the need to address such layers in a way that engage “like for Like” across living eco-systems, that are not necessarily compatible with economic structures (including social, economic and biological elements). This horizontal approach has the ability to extend beyond the individual and group to merge with the emergent social innovations of market eco-systems (Hall and Nousala 2010: Nousala et al. 2009: Nousala and Hall 2008: Nousala and Garduno 2013; Salthe 1985).

REFERENCES


About the Author

Susu Nousala (PhD)

She is currently a Research Fellow at Aalto University, for CS (creative sustainability), teacher and project coordinator for Aalto LABs (a CS project activity). She is also an hon. Research Fellow at GAMUT, Faculty of Architecture, Building and Planning, University of Melbourne, Australia. Susu has been visiting professor at Chiang Mai University (Thailand) with the faculty of Management, business administration, and co-director of Kororoit Institute (KI) Melbourne, Australia (KI is an organization that focuses on interdisciplinary research in emergence of organizations in complex and chaotic systems). She was previously a Research Fellow at RMIT Design and Social Context, School of Architecture and Design, and has been project manager and researcher for National and International research projects. To date she chaired and co-chaired at numerous international symposiums and conferences, and is an author and co-author of over 50 refereed journal, conference papers and book chapters. She has received academic and international awards and invites as guest and keynote speaker. Over the years she has been successful in working with (and securing funding for several National and International grants and projects) many countries including, Australia, New Zealand, Singapore, Malaysia, Indonesia, Thailand, Laos, Vietnam, India, Hong Kong, Taiwan, China, Finland, Denmark, England, France, Germany, Italy, Spain, Switzerland, North America, Mexico.