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Document Version

Final published version

Citation (APA)

Caso, O., & Verhoeven, W. (2018). A strategy for resilience. Alamar, Havana. In I. Cabrera i Fausto, E. Fenollosa Forner, A. Mas Tomás, J. M. Barrera Puigdóllers, L. Bosch Roig, J. L. Higón Calvet, A. Llorca Ponce, M. T. Palomares Figueres, A. Portalés Mañanós, & J. M. Songel González (Eds.), *Reactive Proactive Architecture* (pp. 182-189). Editorial Universitat Politècnica de Valencia.

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Publisher:

Editorial Universitat Politècnica de València, 2018
<http://www.lalibreria.upv.es>
ISBN 978-84-9048-713-6

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A STRATEGY FOR RESILIENCE. ALAMAR, HAVANA

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1. Complex Projects (CP) Studio Havana

The CP Chair at the Department of Architecture of the TU Delft, the Netherlands, offers a master specialization in architectural design that typically addresses areas in transformation that are in need of grasping their possible futures (Kaan 2015). In doing this “students and teachers are encouraged to look critically at their surroundings; to gather, organize and question the complex forces that ultimately manifest themselves into our built environment [...] The architect must [...] see the world through different lenses: as a planner, organizer, politician, economist, philosopher, strategist, humanitarian, and visionary” (CP 2018).

In the academic year 2016-2017 the Complex Project design studio addressed the city of Havana, Cuba, in the wake of a changing political climate that is creating expectations of development and modernization. These perspectives of resurgence interact with a socio-spatial system that for different reasons remained as ‘frozen’ in the past, like a time-capsule from the ‘50s suffering from strong physical and ideological decadence. Here the unavoidable liberalizations will unlock a cherry-picking process in which exploitation-ready assets will be the priorities in the political and economic agendas. A territorial polarization of favoured versus backward areas is therefore lurking, creating inequalities that definitively undermine the revolution’s *raison d’être* of socio-spatial equity. What contributions give architects and planners to these dynamics? What are the possible design assignments? The field for complex urban interventions that unfolds

for the designer in contemporary Havana is inhabited by complex combinations of assets, contradictions and polar relationships for which multi-layered considerations are necessary.

2. Alamar

Differently from Vieja (the UNESCO world heritage city centre) or Vedado (the touristic pole of the ‘50s) which showcase ready-made opportunities, Alamar presents socio-spatial conditions constraining a quick valorization. Alamar has been realized during the ‘70s and hosts today 100.000 inhabitants, but was never fully completed as an urban entity. Here the impact of the Special Period¹ has been particularly hard. It accelerated social and spatial decay and it emphasized the burdens of the physical distance from Havana. Today Alamar enjoys little appeal among *Habaneros* in spite of the cheap prices and future possibilities². It is a forgotten neighbourhood suffering from negative territorial polarization, even more when confronted with the expected growth in Havana’s value areas.

The chronicles of the development of Alamar, the changing conditions behind its urbanization in time and its social, economic and spatial present have been described earlier and are by now notorious among scholars (e.g. Provoost 2017). Key-moments in Alamar’s development give form to a narrative of ambitions and compromises, of ideology and opportunisms, resulting in the clash of opposite socio-spatial models.

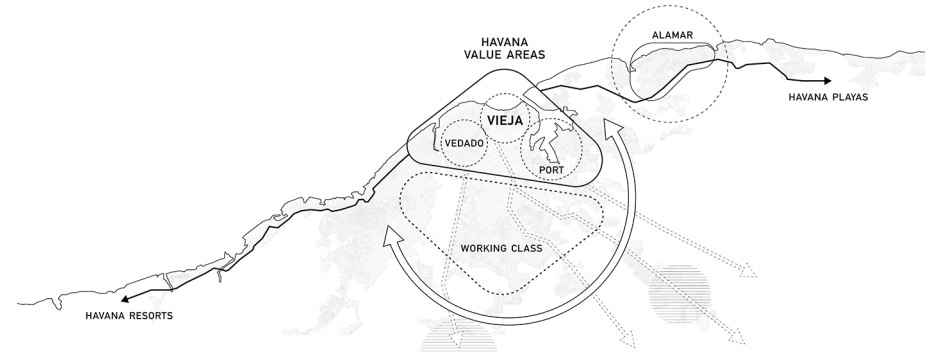


Figure 1: Alamar’s position in Havana’s region.

In 1955, Sert’s *plan piloto* for a modern Havana proposed expansion to the east (Scarpaci et al. 2002). Among the planned settlements Alamar was to host a speculative suburb made of single-family dwellings along the coral seacoast, conceived for the affluent (American) client. A typical meandering street pattern was laid down, served by a new highway leading in few minutes to downtown³ Havana at west or to the beaches at east (Pacheco del Monte 2015). After the revolution it was decided to stop developments in Havana aiming to a better territorial balancing across Cuba. In doing this, East-Havana areas were given different scopes. Alamar’s single-family plots were turned into plots for multi-storey flat apartments, densifying the area but not the serving infrastructures.

Alamar is Havana’s only new town and was to become the ideal living place for *el hombre nuevo*, the new man of the revolution. Prefabricated building technologies were imported from the Eastern European allies: Yugoslavia, Czechoslovakia, USSR (Kilmartin & Singh 1992). Because the building for the ‘new man’ had to be built by himself, *microbrigadas* were set up: groups formed by 33 workers with often no experience in construction (Mathey 1989) that realized Alamar as well as many other Cuban settlements⁴. Regardless of the final building quality, the *microbrigadas* have been

very important in the becoming of socio-spatial Alamar for introducing the associationism’s DNA in the neighbourhood.

3. Methodology, Hypotheses, Narrative

The methodology adopted by the CP studio to unfold design assignments for Alamar included a sequence of interconnected steps that make use of abductive forms of reasoning (Dew 2007; Hougaard 2015) informing conditional hypotheses. These construct the leading narrative, a framework that unravels contextual complexity to envision design assignments.

1. ‘Journalistic’ inquire including a broad orientation on and separation (anatomy) of the context’s layers in order to expose/reveal spatial, social, cultural, political, and economic conditions: mapping, physical models, interviews, site explorations, sources.

2. Establish conditional relationships through the layers: speculative hypotheses based on educated guesses. In this crucial phase findings are selected and organized with the aim to formulate plausible (= inference to the best explanation) hypotheses explicitly anchored into the inquired: questions, visualization of ‘initial suspicions’, collages.

3. Define a leading narrative that combines the

¹The *Periodo Especial* is a period of harsh economic depression that followed the 1989 dissolution of the communist block and COMECON depriving Cuba of its economic and commercial partners. It originated forced autarchy and necessary self-reliance.

²Due to privileged position along the seacoast between city centre and eastern beaches, and the availability of cheap space. Nevertheless Alamar is not yet ready to exploit its potential in the short term, as this would require extensive investments.

³Driving distance between Havana Vieja and Alamar is about 14 km.

⁴Before being employed in Alamar *microbrigadas* were already experimented in other locations. Also watch: Zeyfang et al. 2013. After building the members of a *microbrigada* could claim an apartment for their own living.

initial 'suspicions' into a strategy, not avoiding contradictions and personal fascinations: urban diagrams, (annotated) maps.

4. Proposal of architectural topics informed by 'state-of-the-art' typological explorations: concepts, program requirements, conditions for building and siting, massing studies.

5. Design of the individual proposals in the given plot, iterative prototyping cycles: the architectural and construction elaborates, models, details, visualizations, final reports.

Step 1 highlighted the transformation of physical distances into disconnections and pointed out that the disconnections are manifold and go deeper, also implying disconnections from opportunities of city development and from Havana's cultural, social and economic dynamics, jeopardizing the area's ability to meet chances. The students also discovered the presence of an unique set of autonomous microcultures constructed through the diverse background of the inhabitants and modelled

by the isolation of disconnections: music, art, ingenuity⁵, production. The successful Alamar's urban farming Organoponico Vivero (Cifuentes et al. 2016) worked here as a powerful inspiration, like a *microbrigada* for urban agriculture originated by the necessary self-sufficiency of the Special Period. In step 2 (conditional hypotheses) the students extended this conceptual construction to the other mapped qualities envisioning associations to support e.g. Alamar's dynamic art and music scene, the inhabitants' ingenuity, the microeconomy of markets. Although considering the evident criticalities, the students reverted the common negative reading of disconnections by recognizing their positive role for generating microcultures and identities, now offering opportunities for value-building in the medium term. Elaborating on these found assets, the narrative (step 3) approached Alamar as an autonomous ecology of interconnected microcultures (an independent town). It proposes an architectural agenda of social, programmatic

and spatial priorities to enforce a new geography of relationships for bridging the socialist-globalist divide and prepare to modernization and investments in the medium term.

4. A Strategy for Resilience

This position forms a conditional frame of reference for envisioning a progressive future for Alamar through a strategy that aims to generate resilient value and belief. In order to achieve this goal four programmatic priorities were defined: 1) tackle the infrastructural deficit; 2) provide opportunities for local assets; 3) educate young and elderly population to the opportunities; 4) build upon cultural values for local identity.

The related design interventions were positioned in order to: 1) induce hierarchy and centrality for a recognizable geography; 2) clarify public and private, urban form, orientation; 3) materializes local identity: 'fitting landmarks'; 4) inspire a process of requalification and retrofitting of the existing. The strategy realizes urban hierarchy by emphasizing the crossing of the two main axis of the neighbourhood: the EW agricultural belt (area reserved for productive and educational functions – including Organoponico) and the NS axis connecting the highway to the seacoast, providing a new gate to Alamar and a destination point at the coast. At the crossing a new multifunctional centre establishes relationships with adjacent cultural programs

and reactivates the derelict amusement park. In the strategy the unbuilt waterside strip becomes an ecological park with a similar public role than Burnham's Chicago waterfront, with emphasis on sport and recreation.

4.1. Individual Designs

Accordingly, the locations for the individual design projects are key to the desired socio-spatial geography. They address the crossing axis or engage the spaces between the housing blocks aiming to establish guidelines. At the same time the architectural interventions connect the design sites with 'fitting' programs. The added value pursued by the strategy is the creation of a socio-economic ecology, a circular microsystem of interventions connected to the existing assets. The architectural designs initiate the strategy acting as catalysts for developments in key locations and for the definition of the public space.

In particular: the Whole-Sale Market (4) works as a hinge between Alamar and Havana's farmland creating economic opportunities, while the Agricultural School (1) addresses the main asset of the area (the urban farming) and is a help-desk for inhabitants. Both interventions refer to Organoponico as guiding asset. Similarly the Craftsmanship Centre (2) offers a shared workshop platform to local ingenuity, that finds a centre for self-employment in the

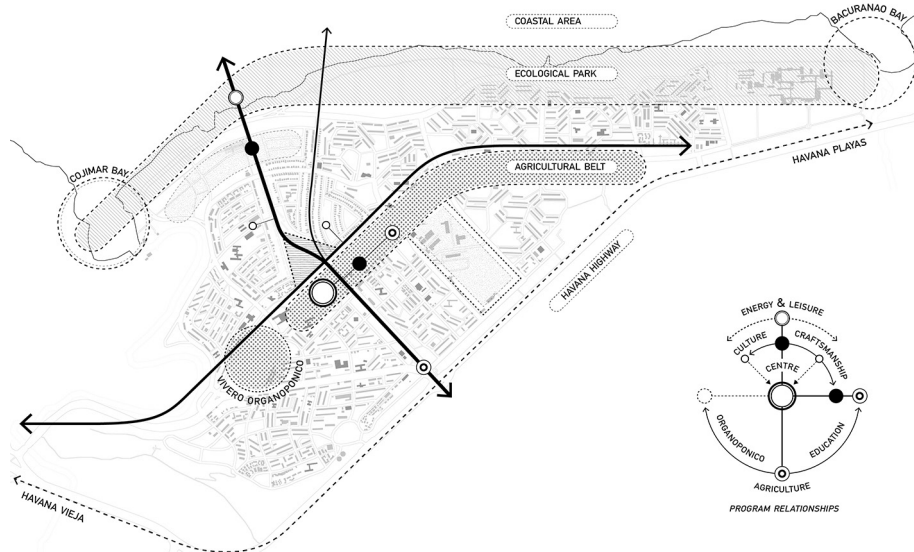


Figure 2: Diagrammatic representations of the strategy.

⁵Following on Special Period constraints, Cubans were invited to: 'build your own machinery'. Handbooks about recycle, reuse, repair, upcycle were distributed by the government. Ingenuity became an 'act of technological disobedience' (Oroza 2012).

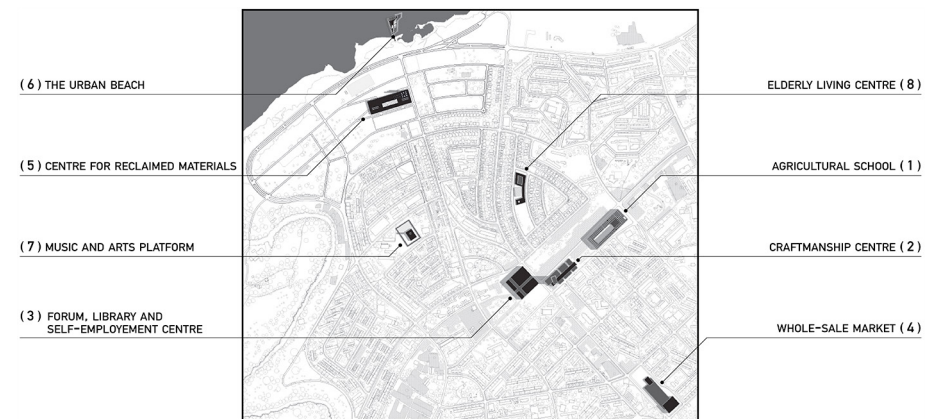


Figure 3: The 8 design interventions in Alamar.

central Forum (3, retail, living), supported by a public library. The Forum marks the new centre of Alamar, it revitalizes the derelict amusement park and creates a cultural pole. The materials for the Craftsmanship Centre are supplied by the Centre for Reclaimed Materials (5, built itself from recycled materials) which addresses recycling and upcycling in Alamar. Here the instruments and tools are made or repaired which can be used at the Music and Art Platform (7). This last includes broadcasting facilities for Alamar radio and gives form to vacant spaces in-between housing blocks. Also the Elderly Living Centre (8) establishes direct relationships with its surrounding housing, being as well a centre for the neighbourhood. The Urban Beach (6) provides a way to access the ocean stimulating leisure economy, and gives the NS axis a destination point. The project also operates as a Storm Farm by employing the power of storms to produce energy in order to keep the vital centres of Alamar working after hurricanes.

academic positions and architectural design practice. Notwithstanding the extensive investigation and the close understanding of the local dynamics the position of the students necessarily remains an academic position. Stakeholders like investors, government (decisive in Cuba), and influential personalities manoeuvring consensus will very much affect the design field. How realistic is thus plausibility in academia? Is this project 'probable' or just 'possible'? The oscillation range in politics, society and economy is by definition unknown. In this project the students' narrative aims to produce consensus as means to strengthen a shared belief to resist critical changes. They do this by transforming criticalities in opportunities through the concrete example of evidences like Organoponico, plausibly an efficient way to engage many.

In CP design studio the close relationship between inquiry and narrative is the central mechanism for creativity. The shared narrative is the conditional framework ('what if...?')

the investigation of possible futures (De Jong 1992). This includes an iterative process of reflection and (design) decisions in which the made choices and the modalities of thought are documented and made explicit – in this case documented through the combined of collages, inquiry and design books and physical models. What did students learn from the case-study Alamar? The main discovery in this project was the connection of diffused 'ingenuity' with 'associationism' as plausibly resilient asset for place-bound socio-spatial development. It might be therefore expected students' designs to address minimalism and self-construction. This was not the case. Although modelled on low-budget hypotheses and on 'fitting' technics / materials, the proposed interventions are all designed with an architectural ambition for which an (institutional) investor would be needed. In this, the students conferred a proactive role to architecture as value-bearer and content-materializer, a visual symbol of Alamar potentialities for the future.

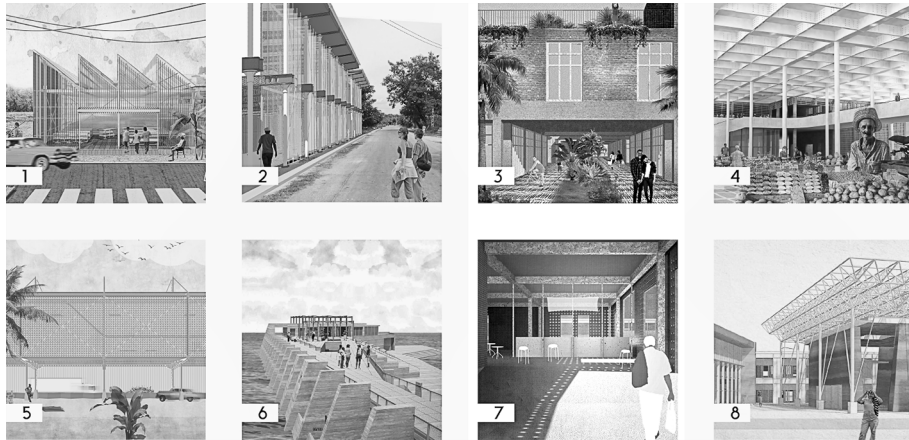


Figure 4: Pitch images from the 8 designs.

5. Considerations

The Alamar studio generated design proposals that are well-embedded in the inquired context. Few considerations upon academic logic and presumed 'objectivity' follow below. CP aims to increase the synergy between

that creates shared images and frames the development of design proposals. The design of complex assignments cannot be inferred by relationships of causality proper of 'traditional' science (deduction, induction) but by relationships of conditionality proper of

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