## A response to product fetishism

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HIS write up is inspired by my former BUET-colleague Prof. Ghafur. A more elaborate version of this has already been submitted to the Ministry of Housing and Public Works as a response by the Institute of Architects Bangladesh to the proposed "Comprehensive Housing Programme for the Dhaka City". I shall try to avoid issues already The Daily Star on July 12, 2008.

is enormous which has always been dealt with in a piecemeal manner, the proposal presented in a public seminar should have been a 'Comprehensive' one, rather than land, better environmental awareshying away from the term.

Though the title also included the word 'Programme', there was no programme included in the some examples most of which could be disputed as to their merit or qualification as good practice. Examples can be endless. 'Japan Garden City' has been widely condemned as a bad housing example devoid of any space or verdure. Financier of Baunia Bundh project 'non-replicable'. Bhasantek has vider' been more a political step than a desirable housing solution. Nawaz's 'Million Houses' was criticised when first published in to be undertaken, and lead eventu-DS in 1999 which was never ally to viable solutions. The objecrefuted. Prof. Ghafur raised two tive of "recommending a housing additional but much valid questions -- the issue of sustainability in have been the aim, while objectives the use of scarce land, energy and natural amenities, and the responsiveness to the dwellers' way of life, add to that transport and employment, you could too foresee the

'impending catastrophe'. is a 'process' through which housing units are produced, delivered, and then acquired. It also includes various stakeholder groups, sera total settlement, not only the whereby a desired growth in the reducing the costs of individual

dwelling unit. Yet questionable basis of 'self-referencing' made the necessary statistics irrelevant, as it matters little whether there are one million bastibashis or three million of them, the problem is still enormous which the conventional wisdom and government approach have failed to address. Also the level of severity (lack of services, etc.) was missing.

Analyses of the existing pattern and assessment of backlog failed to raised by Prof. Ghafur, published in take cognizance of a scenario that could be influenced by decentral-Given that the housing problem ization, economic resurgence industry relocation, implementation of the strategic transport plans including mass rapid transit, restriction on using agricultural ness and increased enforcement of

The nature of problem is over simplified because it failed to proposal (except a table with set of identify the problem. For example, requirements). Instead it included inability of the government to provide housing cannot be a problem, as providing housing is not accepted to be the government's responsibility anymore. Though housing is one of the basic needs, guaranteed by the constitution, yet the government's role in this regard should be confined within that of (UNCDF) itself branded the project an 'enabler/facilitator', not a 'pro-

Properly defined aims and objectives could be followed by strategies to be adopted and tasks development programme" should could be such factors as providing satisfactory housing within affordable means to a majority of the population, creating an enabling environment wherein individuals, groups and organisations can meet Housing is not number, it rather their own housing needs, developing system(s)/mechanisms available housing resources for the

Why everybody should need a plot. Why cannot the government own all land? Why everybody has to come to Dhaka in search of livelihood? And why housing problem shouldn't be seen in the context of overall settlement, environment, economy, transport, income generation, education, health, governance and security, in fact the whole gamut of national development and citizens' welfare?

housing sector can be ensured. The report does not include any strategy that would enable the government to achieve the aims and targets and meet the objectives,

even if improperly defined. The task of identifying system deficiencies in delivering finance, land and other sources was ignored. This indeed was the most important task required to be taken. If the problems to be addressed are not identified, there cannot be any useful solution, and no amount of tables and maps can render any value! Instead it included a set of planning princiuseful. Yet these were not addressed, which could have been a useful point of departure.

The report failed to provide a strategic direction for the future as how to tackle the severe problem in the urban areas of the country including in mega-city Dhaka. Instead of case studies, it should have suggested a system with set rules and control, providing incentives, infrastructure and finance, encouraging cooperation and participation of the cooperatives and the NGOs, etc. that should enable everybody to meet their housing needs with putting no extra burden on the government. Thus a 'Comprehensive Programme' should include how to them. produce and deliver all the facilities, and various components of a shelter like land and finance be made available to all.

Land and finance are two most essential and crucial elements of housing development, and the lack whereby the government can make in their availability is causing problem. At its root is the gap other actors in the sector, creating between the cost and affordability. vices, infrastructure, amenities, i.e. institutions and regulations Housing cost can be reduced by

components like land, labour, materials, technique, services, infrastructure, transport, etc. through various tested methods. Overall economic uplift of the population would automatically enhance its affordability. Even then finance is one proven method of

improving the affordability. Scarcity and high cost of buildable land is a serious problem which was not identified, caused by speculation (including competition among the developers), encroachment, injudicious use etc. The issue of land has been inadequately dealt with. It is not a techniples, which were important and cal problem (of developing and delivering more plots), but a political one (providing access and right of use). Thus it requires fundamental structural reforms in the ownership and use pattern, not reduction in plot size, or filling upon wetland around the city.

locations and control their price suggest ways to adopt and practice Low-income group's housing

doesn't necessarily have to be lowcost or small in size. There are various internationally tested methods, like incremental building, service sharing, etc. available through which the cost of various housing elements (other than land) can be reduced or controlled.

Worldwide finance is now recognised as important housing resource/element. In countries like

Sri Lanka or Singapore the government has successfully solved the housing problem of the majority of population by using finance mechanisms. We too should base finance on domestic saving and enable a family to own a house when the aspirant is young, not when he retires. When the inflation is high, conventional market cannot provide long term soft loan very much necessary for housing. Therefore, unconventional sources like individual contractual saving, insurance fund, international market, etc, have to be tapped.

The report instead of looking for

and addressing the cause tried to heal only the symptoms. As 30 percent of the housing is delivered by the formal non-government sector and 60 percent by the informal sector, the problems and needs of these sectors required to be identified and addressed. The Nevertheless, there are various developers could be brought to methods available to increase play a more desirable role. Though supply of buildable land in right they supply only 5 percent of the stock in Dhaka city, they can realise rise. These have been adopted the greater potential by increasing worldwide both in developing and their coverage to address the needs developed countries, and some of of the middle-income groups too. the more feasible ones could be In many countries, housing societintroduced in Dhaka. The report ies work as finance institutes; and could evaluate the viability of these REHAB can establish its own bank. methods in the local context, and It can also arrest the unabated price rise in land for which they are to be blamed. The government can also introduce 'valorisation' in partnership with the developers.

> The report talked about implementing Housing Policy 2004, which in fact was never adopted. We urge for the 2004 Policy to be adopted as it was well studied, prepared through stakeholders' participation, and comprehensive and contemporary. In fact the government had many policies, but never followed those. For exam-

ple both the second and third Five Year Plans mention housing for the government employees as "perennial wastage of scare national resources, which should not be pursued anymore". Instead, every plan includes a number of staff quarters in their programmes, as the bureaucrats that decide the programmes upheld their class interest. The Plans instead suggest introducing 'hire-purchase system' for the government employees and encouraging large employers and corporations to accommodate their own employees. The First Five Year Plan mentions of encouraging cooperative development by providing incentives. However, none of these was ever adopted. Thus to ensure good governance and accountability adopted policy must be followed, strategies adopted and plans adhered to and programmes be undertaken that have followed from the policies and the strategies.

Housing rights, guaranteed adequately by both the constitution and various policies, should be recognised. Eviction creates more problem than solving; hence the squatters' problems should be addressed more humanely. Various models in mainly Asian countries show that by accepting the rights of the low income group various innovative methods can indeed bring viable solutions to the problems, many of which can also be implemented in Bangladesh.

Too much has been wrongly pinned upon the Detail Area Plan which cannot be the cure for all urban ill. DAP should follow the broader policy as outlined in the Structure Plan, which we have ignored. DAP more than a decade behind due time, and still taking so



long to complete, has in fact been used as a scapegoat. From what has been seen and heard of the progress, content and quality of the under preparation DAP, there are reasons to fear that it will fail to provide a visionary direction for a mega city of the third millennium.

Let's accept that conventional wisdom has made solution(s) to the housing problem impotent. It needs fundamental change in attitude and unconventional innovative methods that in a landhungry poor country can provide suitable housing to all within affordable means. Also it is impossible for the government alone to meet the exact needs. It should

rather develop an enabling environment and appreciate publicprivate partnership. This needs to raise and address such radical questions as why everybody should need a plot. Why cannot the government own all land? Why everybody has to come to Dhaka in search of livelihood? And why housing problem shouldn't be seen in the context of overall settlement, environment, economy, transport, income generation, education, health, governance and security, in fact the whole gamut of national development and citizens' welfare?

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## Climate change: Impact on forests

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T is beyond doubt that Bangladesh is one of the badly affected countries from the vices to human well being becomes impacts of climate change. a challenge. For Bangladesh, this Therefore, it is no more any fashion may be greater than others. rather an imperative to call for effective measures for combating climate change. Of late, the government has given an announcement to create a fund for the purpose amounting to estimated three billion taka in the current fiscal year, which will be allocated to various adaptation and mitigation strategies against already set paradigm of bad consequences from the climate change such as losses from frequent cyclones in the south, drought in the northern region and decreasing agriculture productivity with recurring food.

Though rest of the world is now emphasising on the restoration of and increasing green areas to combat climate change, vet we are still far from the reality. Most of our efforts to the green future concept are a matter of discourse in documents and seminars other than practice. The shirking of responsibility natural forests and afforestation with invasive exotic species in the form of social forestry or other schemes may not contribute to the battle against climate change at an expected level, many scientists revealed in their studies.

Evidently, rapid transformation of land-uses, in particular deforestation is releasing back the stored

carbon from forest into the atmosphere and thus increasing global warming. So, in the face of climate change, the effective management of forests for both goods and ser-

The Kyoto Protocol, an international agreement between the parties to climate change has recognised the important role of forests for reducing carbon dioxide, and they initiated the strategy of Clean Development Mechanism (CDM) for high greenhouse gas emitters like USA, EU to buy carbon credit through afforestation scheme. In reality, carbon trade encourages plantation of fast growing monoculture species irrespective of biodiversity which in turn degrades the previous natural forest structure that generally coped successfully with different events like solar radiation and various natural hazards.

Not only forest maintains biodiversity as a whole, but also provides subsistence livelihood to nearly 400 million people of the world who are living in and around the forests. International Institute for Environment and Development (IIED) estimates that climate change will increase the vulnerability of the most poor communities (approximately 1.2 billion people) in tropical region because of their livelihood dependency on

natural resources. The Intergovernmental Panel on

Forest ecosystems may be or not adaptive to climate variability will depend on the complex interactions of multiple organisms ranging from trees, animals to micro-organisms. Very often the presence of functional groups and response diversity of species within the forests determine the adaptive capacity to the impacts of climate change.



Climate change would affect unique flora and fauna of the Sundarbans.

that the state of tropical forest from climate change. Bangladesh being in the tropical region, different physical effects of climate change including increased temperature and precipitation, increased salinity and extreme weather events such as floods, cyclones and droughts will have

both natural and plantation forests

Climate Change (IPCC) projected which, however, account for 17.5 percent of the total land in docuecosystems is likely to be worsen ments, but only 6-7 percent in reality. The notable natural forest ecosystems are tropical wet evergreen and semi-evergreen forest (hill forests), moist deciduous forestry (sal forest), tidal forest (mangrove forest), and village forestry. The plantation forests are now increasing under the auspices profound negative impacts on its of social forestry programme to ensure people participation and Bangladesh is characterized by their socio-economic benefits. Each forest type possesses particu-

lar stand structure, composition that regeneration rate of Garjan and functional groups (i.e., the groups of species that perform multiple functions in an ecosystem such as pollination, nitrogen fixation, predation, decomposition etc.) and also builds site specific responses to climate variability.

However, continuous deforestation (approximately 3.3 percent per year) in this region is reducing natural forest stocks, threatening valuable wildlife, and thus degrading micro-climate in both forest and adjacent regions. Because of the increased rainfall

in monsoon, water runoff rate on the forest floor has increased from the previous one. As a result, rapid soil erosion causes nutrient leaching and destroys micro-orgainsim and reduces overall site quality for better forest growth in the previ-(CHT), Sylhet, and Cox's Bazar. ecological memory that is the between each other and environment, and building the capacity for reorganisation within or outside the forest patch after different perturbations. Researches shows

(Dipterocarpus Spp) in the Chittagong and CHT has declined considerably in the last decades. The monoculture plantation of Teak in CHT also exacerbates soil erosion because of poor undergrowth during heavy rainfall. Forestry experts find monoculture seldom leaves the land very productive for further recolonisation.

Moreover, the increasing frequency of flood, as a consequence of climate change, and its prolongation also triggers the mortality of some homegarden species such as jackfruit, papya and bamboo mainly found in the plainland village forests.

Over the last fifty years, the sal forests, situated in central and north-western region have decreased drastically due to illegal ously dense hill forests of deforestation. Only a few areas Chittagong, Chittagong Hill Tracts reminiscent of the original forest remains, while government is Most of the forests are also likely to trying to reforest the area with be affected from the absence of some so called fast growing exotic species such as Akashi (Acacia network of species for interaction auriculiformis) and Eucalyptus (Eucalyptus camaldulensis). Many forest scientists argue that these exotic species are detrimental to biodiversity of the area may and transform the local ecosystem into

aridity through their increased water uptake characteristics. Besides, climate change might increase the temperature in norththrough increased evapotranspiration causing moisture stress (water deficiency) in winter, thus affecting the survival of sal forest ecosystem. Agricultural practices are now common phenomena in and around the previous forest patches instead of earlier forest based landuses. Being the largest single tract of

mangrove forests in the world, the Sunderbans, a World Heritage Site is already affected with climate change impacts, importantly from increasing salinity and extreme weather events like tropical cyclones. Though, the main causal factors of top dying is yet to be known, but, some researchers predict that top dying of sundari trees (Heritiera fomes) is likely to be the consequence of slow increase of salinity over a long period of time. Salinity increase also affects the species' combination and regular successional patterns in the Sundarbans as some non-woody shrubs and bushes replace the tree species, reducing the forest productivity and habitat quality for valuable wildlife. World Wildlife Fund for Nature Conservation ( WWF ) estimates that due to sea level rise, nearly 7500 hectare of mangrove University of Stockholm, Sweden.

forest in the Sundarbans are projected to be flooded. Many researches have shown that tropical cyclones destroy the mangrove western region which infact alters forests to a large extent. For the ecological processes in the instance, in the recent past, Modhupur and Barind tracts cyclone Sidr has destroyed onethird of the Sundarbans.

Forest ecosystems may be or not adaptive to climate variability will depend on the complex interactions of multiple organisms ranging from trees, animals to microorganisms. Very often the presence of functional groups and response diversity (i.e., diversity of responses to environmental change among species that contribute to the same ecosystem function) of species within the forests determine the adaptive capacity to the impacts of climate change.

Recent studies show that massive afforestation with exotic species wouldn't be a pragmatic solution for the adaptation to the climate change. Rather, it is suggested that as implications of response, diversity and functional diversity-biodiversity should be conserved in their natural habitat by protecting existing natural forests, minimising soil disturbances, reducing carbon loss from soil, preventing potential loss of mycorrhizae and increasing freshwater inflow in the saline affected mangrove regions.

Mohammed Abdul Baten and Ronju Ahammad write from Stockholm Resilience Centre,

## Climate change to cause surge of 'envirogees'

BILLY I AHMED

NVIRONMENTAL disasters from climate change and 'envirogees' -- across the planet.

on faster and shed some muchneeded light on what will become a serious problem, probably by the end of this or the next decade.

That light is important, because other environmental dangers? so far "envirogees" haven't been fully recognised by those who certify the civil liberties of Earth's various populations, whether it is the United Nations or local and national governments whose people are increasingly on the move for a whole newset of devastating reasons.

enter a new phase, which resembles an old one with a 21st century twist. For thousands of years, humanity has fled across Earth's surface, fearing instability and in

search of sustainability.

Nargis in Myanmar, to water rationing in Los Angeles, societies are shifting like their borders.

will create a surge of refugees -- to answer one time-honoured New Orleans and parts of Alaska question: If the borders are not Maybe the buzzword will catch standing still, why should the people who live in their outlines do so? Especially when they're under attack from catastrophic floods, fires, droughts and any number of

Right now, the 1951 Geneva Convention does not recognise the "envirogee" phenomenon, instead focusing on immigration because of political persecution.

Here are some startling "envirogee" numbers to crunch: According to the Nobel-winning the marine life that not only feeds Inshort, immigration is about to Intergovernmental Panel on Climate Change, Earth's cracking communities will have 150 million "envirogees" by 2050.

According to Australian climatologist Dr. Graeme Pearman, coastal flooding resulting from a mere two-From earthquake to cyclone degree rise in temperature would CO2 rises by the U.S. Department

danger-zone homes by 2100.

Here's more scary data. Desertification is claiming land are slowly sliding into the sea, while the former, as Hurricane Katrina for methane, in 2007 it exploded by showed, is becoming a target for 27 million tons after a decade with intensifying weather events, human corruption and half-baked infrastructure.

shrinking, while acidification is farming, bottled water and claiming cropland in Egypt and beyond. Hypoxia has claimed portions of the ocean itself with alarming speed, as stretches of the Atlantic and Pacific lose oxygen will do more often than not as and, by extension, it would claim millions but also sets up the conti-

nuity of the food chain. dioxide concentrations accelerated over recent decades along with fossil fuel emissions," explained a report on methane and an environmental crisis. Sidr in Bangladesh to cyclone kick 100 million people out of their of Commerce's National drying up by the day, Darfur is one

Administration.

relatively no rise at all.

So what's an "envirogee" to do, other than opt out of wasted fanta-Aquifers around the world are sies like Happy Meals, factory

Hummers?What else? Move. This is what "envirogees" worldwide are already doing right now, by choice or at gunpoint, and situations on the ground and in the

The conflict raging in Darfur is a inginvaders. The irony is rich. sobering example of the complex-"The rate of increase in carbon ity. It has so far displaced 2-3 million people, and for all the talk of

political or religious persecution, the fact remains that it is at its root

Organisation for Atmospheric of the first flashpoints of our new to be measured in lives, as carbon phase of climate conflict, a conflict concentration exponentially "Since 2000, annual increases of that U.N. Secretary-General Ban-Ki increases and weather events supplies of water, gas and foodlie. And the entire outcry over so- from China to Morocco to Tunisia two ppm or more have been com- Moon explained in the Washington become more extreme. destruction of ecosystems called illegal immigration neglects and beyond at an increasing rate. mon, compared with 1.5 ppm per Post as one "that grew at least in year in the 1980s and less than one part from desertification, ecologippm per year during the 1960s." As cal degradation and a scarcity of resources, foremost among them

sitting atop our climatological past hurricanes. while it races to catch up with us. Parched by thirst and hungry for fossil fuels which, in turn, only aggravate that thirst and the wars it causes, "envirogees" are streaming murderous ones, whose inhabitants are circling their wagons on the outsiders. Civil wars are breaking out. Outsiders, in turn, are becom-

It gets richer, or poorer, depending on where you stand on oil. The planet's shrinking petroleum reserves are now more valuable

An arid desert whose water is zero signs of returning to normal. That expense is also beginning

But one can't, because it is reality. And so are "envirogees," regardless of the outdated assertions of the Geneva Convention or the staid refusal of the insurance And like Darfur, we are numbly industry to wake up and smell the

"If we keep going down this path," French President Nicholas Sarkozy argued to the superpowers gathered at the Major Economics Meeting in Paris, "climate change out of these hot zones into less will encourage the immigration of people with nothing towards areas where the population do have something, and the Darfur crisis will be only one crisis among dozens of others."

That is, we won't be worried about Mexicans coming to the U.S. for economic reasons, or Africans doing the same in France and than ever, and the prices for its England. We will be worried about capture and capitalisation show hyper-violent cyclones, floods and droughts destroying what's left of our jobs and the people who want them,

as we pack and move to where soothing weather and more bountiful

We will be the ones enduring the from locals who are circling their wagons against victims of their own consumption and apathy.

Whether we can settle with that solution, time will tell. But according to the continually

underperforming science of clima-

tology, we won't settle for long. Barring any meaningful sociopolitical or economic engagement, hard stares and perhaps bullets fired to say nothing of much-needed technological revolution, on the issue, we'll have turned from territorial citizens into climate nomads, all in a cosmological eye-blink.

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