Megaprojects threaten water justice for local communities
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Urban megaproject in Ho Chi Minh City, Vietnam showing its negative impact on local communities and water systems. Credit: Dr Scott Hawken.

Urban megaprojects tend to be the antithesis of good urban planning. They have a negative impact on local water systems, deprive local communities of water-related human rights, and their funders and sponsors have little accountability for their impact.

These are the findings of the University of Adelaide's Dr. Scott Hawken from the School of Architecture and Built Environment who led a review of the impact of urban megaprojects on water justice in South East Asia.

"Urban megaprojects have severe implications for environmental processes," said Dr. Hawken.

"They have a major impact on hydrological systems and during all phases of development affect water security and human rights.

"As well as interrupting urban water flows and waste removal, they cause biodiversity degradation and loss of arable landscapes, and increase pollution and change the flood regimes of rivers."

The study, published in the journal Cities, focussed on the Phu My Hung project in Vietnam, the Amarpura project in Myanmar and Boeung Kak Lake in Cambodia, and is the result of Dr. Hawken's engagement with recent calls from the United Nations for greater accountability in megaprojects globally.

Urban megaprojects have been a key mode of development in Southeast Asia since the 1980s. Between three and 14 percent of GDP is invested in these kind of developments in SE Asia and eight percent globally. They can include urban regeneration schemes, transport and energy infrastructure, industrial corridors, city clusters, new towns, innovation districts, science and technology parks and sports infrastructure.

"The projects we looked at are typical of most major cities in Southeast Asia in that they are located near coasts or major rivers which exposes people who live there to extreme weather events such as floods and erosion," said Dr. Hawken.

"At every stage of these projects there needs to be a more systematic approach to sustainability especially when assessing their impact on water security. The community needs to be more involved and funders and sponsors need to be more accountable for the impact.

"Wealthier residents tend to benefit from these urban enclaves while they dramatically displace and disrupt existing economies and social relations. Poor socio-economic urban residents are disproportionately adversely affected."

Megaprojects are often publicly positioned as economic benefactors for cities with governments and developers framing them as delivering wealth and new technologies to urban regions.
"Considering the prominence of this development model, it is unacceptable that there is so little information or recourse when these projects do not deliver on their promises," said Dr. Hawken.

"Existing urban issues are rarely solved by these projects so a new approach is needed to better engage with communities and their socio-ecological relationships with natural water systems. Considering where they are built such projects also expose cities to future climate related disasters such as sea-level rise and flooding.

"Our findings and recommendations are relevant to cities around the world which are in semi-aquatic, delta environments and sensitive water catchment areas.

"Developers need to be accountable for such projects now and into the future."


Provided by University of Adelaide

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