

RESILIENCE-THEMED ARTICLES & PROJECT EXAMPLES (click to read more)

Paying it forward: Why resilience is a rising priority

Even before the coronavirus crisis, the idea that we need to make our towns and cities more resilient was growing. From aging and deficient infrastructure to the challenges of climate change and population growth, we are clearly under-prepared to meet the increasingly unpredictable challenges of today. The pandemic has highlighted some of these weaknesses, but it also brings with it an opportunity to make our infrastructure fit for the future.

<https://infrastructure.aecom.com/2020/paying-it-forward-why-resilience-is-a-rising-priority>

Resilient cities need a multi-disciplinary approach

Resilience is likely to be a rising priority among the mobile people, firms, and resources that cities compete against each other for. To attract talent and investment, cities increasingly need to show that they can provide an attractive, healthy, safe and secure environment that is resilient to future shocks and stresses. In the future, resilience strategies should be embedded from the outset into major urban interventions such as strategic masterplans and large-scale infrastructure projects.

<https://infrastructure.aecom.com/2020/resilient-cities-need-a-multi-disciplinary-approach>

Going the extra kilometre: Moving Southeast Asia's cities forward

Traffic congestion is a major pain point for Southeast Asia's growing economies, affecting economic gain and the environment, as well as quality of life. With more people moving into urban areas, the need to improve public transportation infrastructure is critical, particularly the problematic 'last kilometre',

<https://infrastructure.aecom.com/2020/going-the-extra-kilometre-moving-southeast-asias-cities-forward>

Moving cities – Lessons in building for a better future

To be sustainable, the megaprojects of the future must embrace the complex world they will inhabit, with enough built-in flexibility to adapt to the circumstances of tomorrow. So, what should Indonesia consider in its planning? And what lessons can be learned from other cities wrestling with growth, adapting to innovation and struggling to become more resilient to unforeseen stresses?

<https://infrastructure.aecom.com/2020/moving-cities-lessons-in-building-for-a-better-future>

Bouncing back: Five steps to ensure your water systems recover from unexpected disasters

With critical infrastructure around the world vulnerable to an increasing range of threats, such as climate change and extreme weather events, here are five steps that water treatment plant managers and engineers can take to build resilience — based on lessons learnt from Hurricane Harvey.

<https://aecom.com/without-limits/article/bouncing-back-five-steps-to-ensure-your-water-systems-recover-from-unexpected-disasters/>

Building resilience for all

As urbanization increases, populations are forced to take up dwellings in hazardous areas. Climate change means that catastrophic events like flooding and severe storms will be more frequent.

Infrastructure that was designed for milder conditions or smaller populations will be compromised, and this problem is exacerbated by ageing assets.

<https://aecom.com/blog/building-resilience-for-all/>

Understanding our changing behavior in response to climate change

There is plenty of opportunity for the public and private sector to embed resilience into their programs, policies and operations as we both reimagine and rebuild from coronavirus. We must also recognize, however, that individuals and communities are already taking action to adapt to and become more resilient in the face of climate change, and that there are ways in which individuals and communities can strengthen this resilience going forward.

<https://aecom.com/blog/understanding-our-changing-behavior-in-response-to-climate-change/>

Making Singapore's water supply immensely resilient

In their continuous mission to strengthen water supply resilience, Singapore has built the world's first large scale dual-mode desalination plant, the Keppel Marina East Desalination Plant (KMEDP). To meet the increasing needs of the region most efficiently, KMEDP has the capacity to treat both freshwater and seawater. Capable of producing up to 36 million gallons (137,000 cubic meters) of fresh drinking water a day over a period of 25 years, KMEDP is crucial to providing Singapore with a reliable and sustainable source of clean water.

https://aecom.com/blog/keppel-marina-east-desalination-plant-making-singapores-water-supply-immensely-resilient/#utm_source=blog&utm_medium=related_blogs_widget

Unlocking the benefits of infrastructure investment

Infrastructure has a role to play in helping the economy recover from coronavirus. Given the scale of disruption, we have an obligation to see taxpayer funds used as effectively as possible. To do this, AECOM's Ken Bagget says we need to seize the opportunity to fix issues that have long been ignored.

<https://aecom.com/without-limits/article/unlocking-the-benefits-of-infrastructure-investment/>

PROJECT EXAMPLES (Please see attachments)

1. Integrated Waste Management Facility, Hong Kong
2. Relocation of Sha Tin Sewage Treatment Works to Caverns, Hong Kong
3. Sungei Api-Api and Sungei Tempinis ABC Waters Programme, Singapore