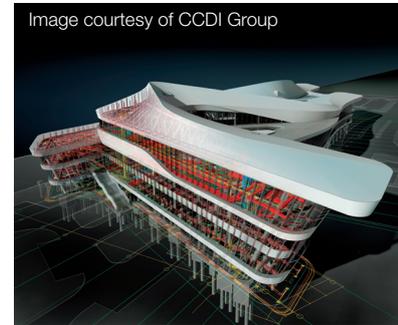


IMAGINE, DESIGN, CREATE:

SUSTAINABLE CITIES IN ASIA-PACIFIC MEAN A BETTER WORLD



The growth of Asian cities has been responsible for improving the living standards of many, but if cities are not properly managed, the results can be catastrophic. Already, they are grappling with pollution, an inadequate supply of potable water, people living in urban slums and traffic congestion of crippling proportions.

In order to address these challenges, cities need to think positively and strategically. Their aim should be to balance sustainable urban practices with the need to provide ever-more people with access to a better quality of life and economic opportunities.

Over the next few years, sustainable design strategies will become a standard expectation of the market, alongside traditional considerations like cost and durability.

ASIA'S ENVIRONMENTAL CHALLENGES

Government and city mandates are already starting to address sustainability requirements. China's 12th Five Year Plan dictates reductions in energy intensity, with a strong emphasis on improving buildings, infrastructure design and operation¹. Tokyo's Cap-and-Trade Program requires an 8% drop in energy-related CO2 emissions from office buildings and 6% for industrial facilities by 2014². Local and national governments across the globe are implementing zero waste initiatives, coupled with significant cost and energy saving designs.

SUSTAINABILITY SOLUTIONS FOR SUSTAINABLE CITIES

Autodesk aims to provide cities with Sustainability Solutions that make sustainability for cities easier, more insightful, and cost-effective.

Autodesk® Sustainability Solutions for Buildings are based on Building Information Modeling (BIM), an intelligent model-based

process that provides insight for creating and managing projects faster, more economically, and with less environmental impact. BIM allows building professionals across the building lifecycle to optimize various sustainability parameters, from design, to construction, to operations and maintenance, to decommissioning or renovation.

Autodesk® Sustainability Solutions for Infrastructure, also based on BIM, help provide the insight that master planners, civil engineers, contractors, and owners need in order to reduce transportation congestion; manage water distribution, treatment, and flooding; increase grid efficiency and renewable energy generation; and protect sensitive habitats and landscapes.

THE ASIAN OPPORTUNITY

Environmental imperatives for sustainability have never been greater, and urban expansion in Asia presents enormous opportunities for positive impact. By 2025, there will be 37 megacities with populations of over 10 million; 22 of those cities will be in Asia³. Worldwide, we will have to build the same urban capacity in the next 40 years that we have built over the past 4,000 years⁴.

Sustainable cities in Asia can become models for the rest of the world to emulate – without the scramble for limited fossil-fuel resources, and without neglecting the environment challenges that so far have gone hand-in-hand with economic progress.

Our future lies in cities. This demands solutions that ensure those cities are places for people – places of economic development, and places with a quality environment. ■

www.autodesk.com/sustainability
www.autodesk.com/sustainabilityreport

¹ Chinese Government's Official Web Portal, 2011
³ Smart Cities Report, PikeResearch, 2013
⁴ Global Risks, World Economic Forum, 7th edition, 2012