UNFCCC Adaptation Calendar 2015

Building Climate Resilience in Urban Areas





UNFCCC Adaptation Calendar 2015

Building Climate Resilience in Urban Areas

Action in urban centers is essential for successful climate change adaptation. By 2050, an estimated 6.2 billion people or 70 per cent of the global population will be living in cities. Climate risks in urban areas are increasing, including rising sea levels and storm surges, heat stress, extreme precipitation, flooding, landslides, drought, and water shortages, which will have widespread negative impacts on people, economies and ecosystems, including health, livelihoods and assets.

To meet the needs of a rapidly growing urban population, a window of opportunity exists with USD 6 trillion expected to be invested in urban infrastructure development by 2030. The choice in the design and performance of the new urban world will define the success or failure of the global path to climate resilient, low-emission development.

This postcard calendar showcases examples of initiatives to build climate-smart, resilient and livable cities, to adapt to the impacts of climate change now, and to prepare for the future.

Cover photo: Ben King, bikeben.com; View of Cappadocia, Turkey. For more than 1000 years, people have made their homes in the soft rock of Cappadocia, creating an urbanized, underground cultural landscape, adapted to the natural environment.



JANUARY 2015

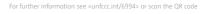
MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31								



Building economic and livelihood resilience: Cash transfers and safety nets are enabling low-income groups to adapt in Kelurahan Pabean, Central Java, Indonesia, where batik production is threatened by increasingly frequent floods



Photo: John Taylor, Yayasan Kota Kita. Batik production in Kelurahan Pabean, Central Java, Indonesia is threatened by increasingly frequent floods





FEBRUARY 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
						1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28								



Building partnerships and undertaking research: Collaborative efforts are supporting decision-making for healthy, safe and climate resilient housing and communities in urban areas in the UK



Photo: Nell Moralee, Flickr Creative Commons <goo.gl/n7IXLS> Flooded road in Devon, UK





MARCH 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
						1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31					



Resilient food and agricultural systems: Urban and peri-urban agriculture is improving the nutrition and livelihoods of poor families in urban areas in Caracas, Venezuela



Photo: ©FAO/Giuseppe Bizzarri, FAO Photo Library. Urban garden cooperative workers laying down irrigation lines in a lettuce bed in Caracas, Venezuela





APRIL 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30										



Strengthening the knowledge base for adaptation: Improved understanding of climate impacts and risks, developing practical approaches for adaptation, and sharing experiences is supporting adaptation in Chinese cities



Photo: Jennifer Lenhart.

The Urban Observer <exploring-and-observing-cities.org>, Shanghai





MAY 2015

МО	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
				1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31							



Building climate resilience in transport and telecommunications systems: Long-term planning and investment in New York City is helping communities impacted by Hurricane Sandy to rebuild, and increasing the resilience of transport and telecommunications infrastructure, utilities and buildings citywide



Photo: Jakob Montrasio - Flickr. New York City from the Empire State Building





JUNE												20	<u> </u>
MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU

МО	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30												



Sustainable urban drainage systems: Suburban regeneration including ditches, retention ponds, green roofs and green spaces has increased climate resilience in Malmö, Sweden, through decreasing rainwater runoff even in heavy rainfall events, and increasing green space, ecosystem services and community spirit



Photo: City of Malmö. Sustainable urban drainage systems, including ditches, retention ponds, green roofs and green spaces in Augustenborg, Malmö





JULY 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
		1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31									



Private sector engagement and investment in adaptation: Private sector entities are enabling climate resilience and increasing investment in cities, as shown by the UNFCCC private sector initiative of the Nairobi work programme on impacts, vulnerability and adaptation



Photo: Private Sector/World Bank Photo Collection Yang Aijun / World Bank. High-rise buildings in Tianjin





AUGUST 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
					1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31						



Supporting ecosystem services from the ground up: Citizen-initiated efforts to build green roofs and community gardens are enhancing ecosystem services in Saint Petersburg, Russia



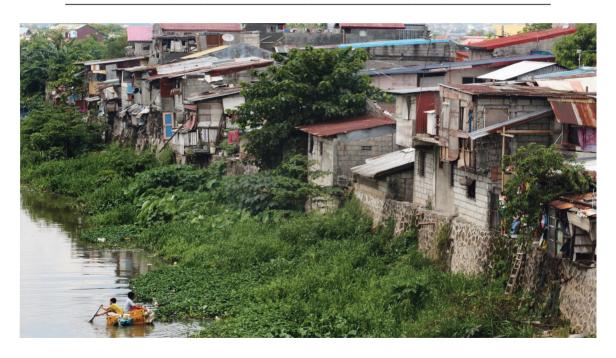
Photo: Maria Ignatieva 'Citizens green roof in St Petersburg'

For further information see <unfccc.int/6994> or scan the QR code



<u>2015</u>

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
	1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26	27
28	29	30											



Integrating adaptation into planning at the local government level: Sharing knowledge and resources to support decision-makers in cities in India and the Philippines is building resilience and creating safer, healthier communities



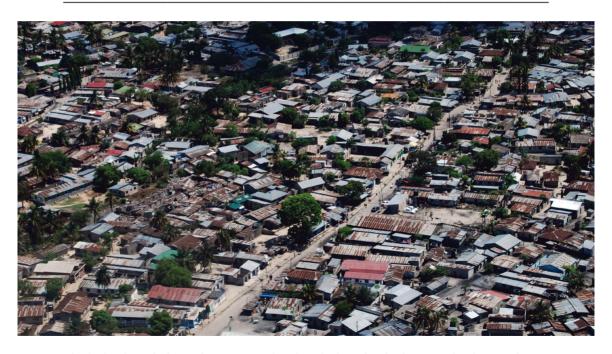
Photo: Dominic Chavez/World Bank. Boys play in a makeshift boat in the Taytay River, the Philippines





OCTOBER 2015

МО	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31								



Adapting housing and urban settlements: Integrating adaptation into urban development and environmental management strategies and plans, and supporting people living in unplanned and underserviced coastal settlements is building resilience in Dar Es Salaam, Tanzania



Photo: Rob, Flickr Creative Commons: <goo.gl/hGGQEw> <bbmexplorer.com> Dar Es Salaam, Tanzania from the air





NOVEMBER 2015

МО	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
						1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30						



Strengthening knowledge and translating research into action to develop natural solutions for climate resilience in cities: Research focussed on enabling protection of biodiversity and ecosystem services is enabling adaptation in Berlin, Rotterdam, Salzburg, Stockholm, Barcelona, Helsinki and New York



Photo: Dagmar Haase. Nature offers a great potential for improving the quality of life of urban citizens and to increase the resilience of cities





DECEMBER 2015

MO	TU	WE	TH	FR	SA	SU	MO	TU	WE	TH	FR	SA	SU
	1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26	27
28	29	30	31										



Making the connections to enable cities to adapt and build climate resilience: Global, regional and local networks are making a difference and gaining momentum through enabling collaboration and sharing inspirational innovative practices and knowledge



Photo: Jennifer Lenhart

The Urban Observer <exploring-and-observing-cities.org>, Shanghai



