



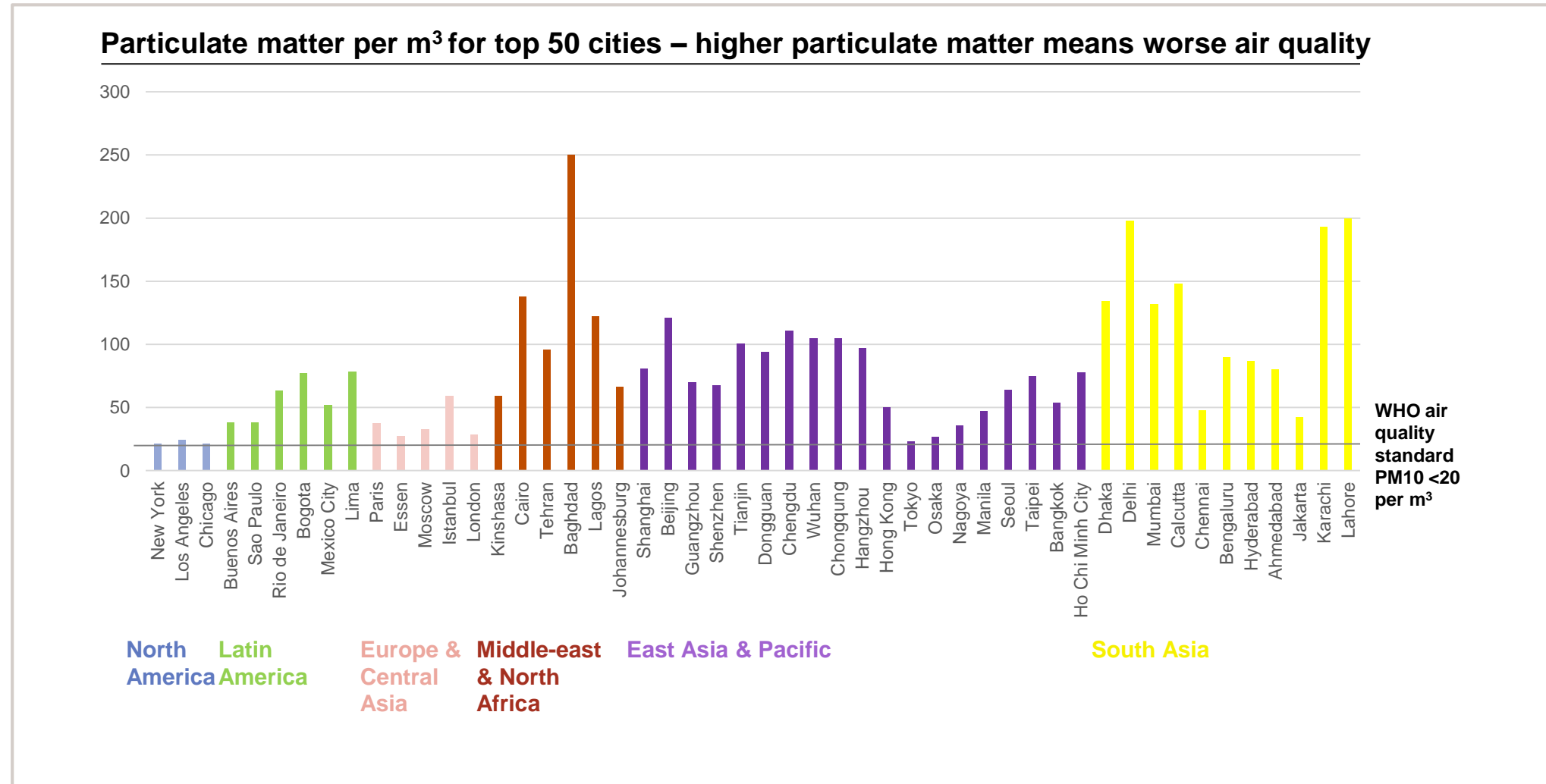
# Liveable cities: sustainable and future proof cities!

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# YESTERDAY'S CHOICES SUFFOCATE US NOW ....

## AIR POLLUTION IN TOP 50 CITIES



# THE HUMAN FOOTPRINT IS UNPRECEDENTED

**200**

**Years it took the world to  
use half our carbon  
budget**

**<30**

**Years it will take us to use  
up the other half at the  
current rate**

**Atmospheric CO<sub>2</sub> concentrations are greater  
today than at any time during the last**

**800,000 years**

# SUSTAINABLE DEVELOPMENT GOALS SPECIFICALLY ON ENERGY, INFRASTRUCTURE AND CITIES



## 4 REASONS TO ENGAGE

- **It's happening, and fast**
- The opportunity to change
- It is economically rational
- It's happening, and fast







## CITIES ARE BOOMING

# 274,000

people added to cities  
*each day* for next 30 years

By 2050, 70% of the world's population will live in cities



Urban growth is  
**speeding up**

Buildings **are the**  
**backbone of cities**

2005



Now





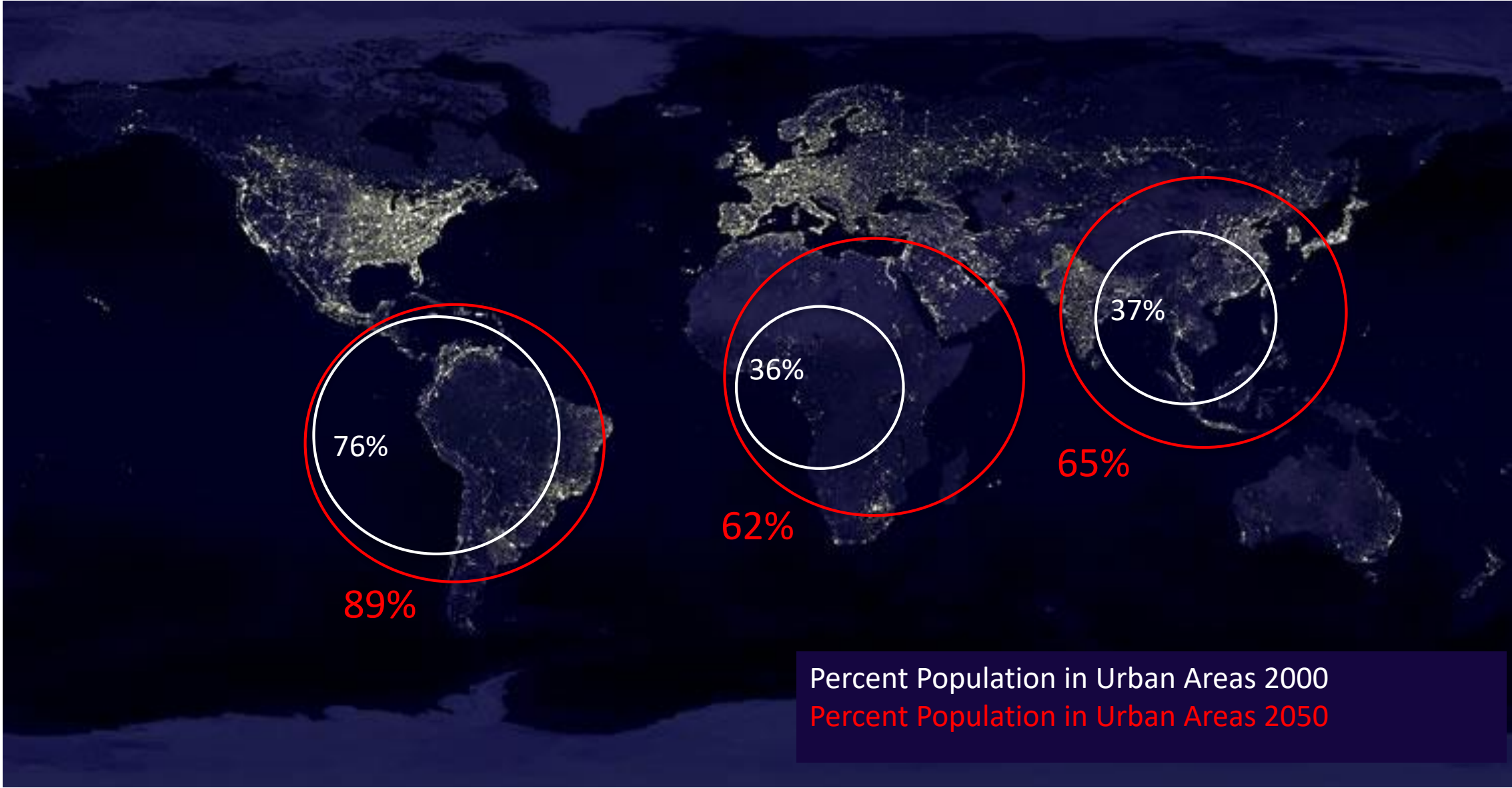
# CITIES ARE ENGINES OF ECONOMIC GROWTH

80%

global GDP  
made in  
cities



# URBANIZATION MEANS MASSIVE EXPANSION IN THE BUILT ENVIRONMENT



Source: NASA Image. UN World Population Prospects. 2009.



# HOW IMPORTANT ARE BUILDINGS ?

**1/3**

**Of global energy  
demand**

**1/4**

**Of global GHG  
emissions**



# PERCENTAGE OF ENERGY CONSUMPTION BY THE BUILDING SECTOR

**USA: 31%**

**Mexico: 18%**

**Brazil:  
15%**

**EU: 39%**

**Turkey:  
36%**

**Ethiopia:  
92%**

**South Africa: 29%**

**India:  
39%**

**China:  
23%**

**Indonesia: 23%**





**HUGE OPPORTUNITY**

**75%**

of 2050 urban  
infrastructure  
in India not yet  
built



# EFFICIENCY IS BIG BUSINESS AND A GOOD INVESTMENT

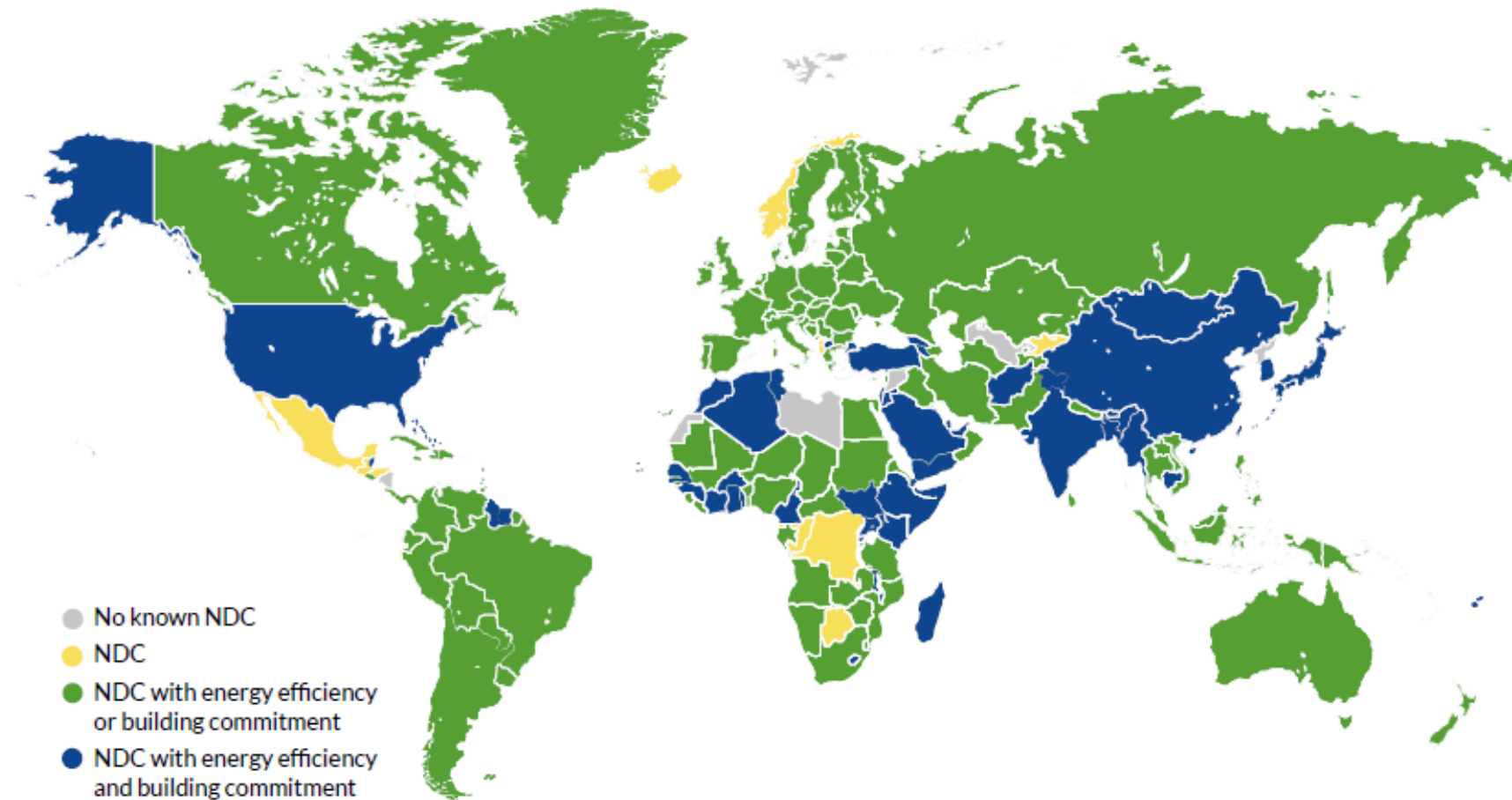
SHADES OF GREEN: INVESTMENT POTENTIAL BY REGION AND SECTOR (\$ BILLION)

**\$ 16 USD trillion investment potential for sustainable buildings – largest by far of any sector**

	Wind	Solar	Biomass	Small Hydro	Geothermal	All Renewables	Electric Transmission & Distribution	Industrial Energy Efficiency	<b>Buildings</b>	Transport	Waste	
East Asia Pacific	231	537	48	34	16	866	392	143	13,235	1,316	53	>1000
Latin America and Caribbean	118	44	45	11	14	232	0	21	901	1,461	26	>500<1000
South Asia	111	211	16	0	0	337	0	85	1,542	255	13	>250<500
Eastern and Central Asia	51	39	6	7	6	110	0	57	410	78	11	>100<250
Sub-Saharan Africa	27	63	4	3	27	123	0	0	153	499	8	>50<100
Middle East and North Africa	50	45	0	1	0	97	21	1	92	50	4	>25<50
<b>Total Climate-Smart Investment Potential by Sector (\$ billion)</b>	<b>589</b>	<b>939</b>	<b>118</b>	<b>56</b>	<b>63</b>	<b>1,765</b>	<b>413</b>	<b>308</b>	<b>16,332</b>	<b>3,659</b>	<b>115</b>	<b>&lt;25</b>

# STATUS OF BUILDING EFFICIENCY ACTIONS IN NDCs

88 countries have now included building sector actions in their NDCs that will support the broader potential to serve an incremental US\$220B annual global market by 2020.



This map is without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries, and to the name of any territory, city or area.



# WRI'S PARTNERSHIP THROUGH THE BUILDING EFFICIENCY ACCELERATOR (BEA)

Innovative public-private cooperation to speed up the development and implementation on building efficiency policies and projects

Eskisehir is one of the 28 participating cities

Guidance on updated building codes, green building certification and finance for building efficiency

