

# A reality that needs solutions

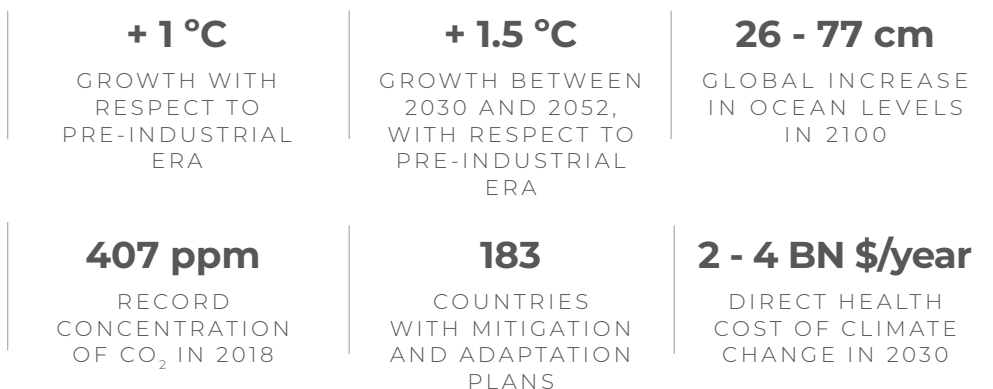
The world faces a growing number of complex inter-related challenges. Faced with this reality, ACCIONA is part of the solution and turns these challenges into opportunities to improve well-being.

## Global challenges

### Reduce and combat global warming<sup>1</sup>

The increase in temperatures since the pre-industrial era is having a negative impact on people's lives, on economies and ecosystems. As the world heats up, there is a growing likelihood of extreme weather events, such as droughts or floods in coastal regions, becoming more severe, intense and prolonged.

A total of 197 countries approved the Paris Agreement, which defines a roadmap for reducing greenhouse gas emissions and measures to adapt to climate change.



<sup>1</sup> Source: National Oceanic and Atmospheric Administration.  
World Health Organization.  
IPCC. Global Warming of 1.5 °C Report.  
Carbon Brief. Fossil-fuel emissions in 2018 increasing at fastest rate for seven years.  
UNFCCC. NDC Registry.

## Increase the contribution of clean energy and facilitate access to it<sup>2</sup>

Energy — its production and use — is the biggest contributor to climate change. Growth in energy demand and the need to decarbonise power generation in order to subsequently electrify the economy means that renewables and energy efficiency go hand in hand.



**13 %**  
WORLD POPULATION  
WITHOUT ACCESS  
TO ELECTRICITY

**+ 25 %**  
ENERGY DEMAND  
THROUGH 2040

**- 40 %**  
EMISSIONS  
DUE TO ENERGY  
EFFICIENCY

**+ 1.7 %**  
GHG EMISSIONS  
IN 2018 DUE  
TO HIGHER ENERGY  
CONSUMPTION

**74 %**  
GHG EMISSIONS  
FROM ENERGY  
PRODUCTION AND  
USE

**- 45 %**  
GHG EMISSIONS IN  
2030, BASELINE 2010  
TO ACHIEVE CARBON  
NEUTRALITY BY 2050

## Palliate water shortages and guarantee supply<sup>3</sup>

Almost half of the world's population is affected by water shortages, and that figure will probably rise with global warming. Mitigating these shortages and guaranteeing access will require the development of innovative water treatment technologies.



**38 %**  
POPULATION IN  
AREAS OF WATER  
STRESS

**20 - 30%**  
GROWTH IN WORLD  
WATER DEMAND  
THROUGH 2050

**~ 30 %**  
GROWTH IN DEMAND  
FOR INDUSTRIAL  
WATER

**28 %**  
POPULATION WITHOUT  
SAFE DRINKING  
WATER

**60 %**  
POPULATION  
WITHOUT SAFE  
SANITATION

**2.6 M**  
DEATHS PER YEAR  
RELATED TO WATER  
QUALITY

<sup>2</sup> Source: IPCC. Global Warming of 1.5 °C Report.  
IEA. World Energy Outlook 2018.

<sup>3</sup> Source: World Urbanization Prospects. United Nations World Water Development Report 2019.  
United Nations: Sustainable Development Goal no. 15.

### Alleviate demographic congestion and urban concentration<sup>4</sup>

Rapid growth of cities and growing migration from the countryside to cities have led to an increase in megacities. This results in emerging challenges, such as sustainable mobility and proper resource management.



**80 %**  
OF GDP  
IS GENERATED  
IN CITIES

**~ 7,700 M**  
WORLD POPULATION  
IN 2018, 55 % IN  
CITIES

**~ 10,000 M**  
WORLD POPULATION  
IN 2050, 68 % IN  
CITIES

**3 %**  
LAND AREA  
OCCUPIED BY  
CITIES

**9 / 10**  
PEOPLE BREATHE  
POLLUTED AIR

**x 2**  
DEMAND FOR  
PASSENGER  
MOBILITY IN CITIES  
IN 2050

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THE CALL FOR ACTION IS  
UNMISTAKEABLE: **THERE IS A NEED  
AND A DEMAND FOR SOLUTIONS  
TO ADDRESS THE CHALLENGES,**  
BOTH PRESENT AND FUTURE

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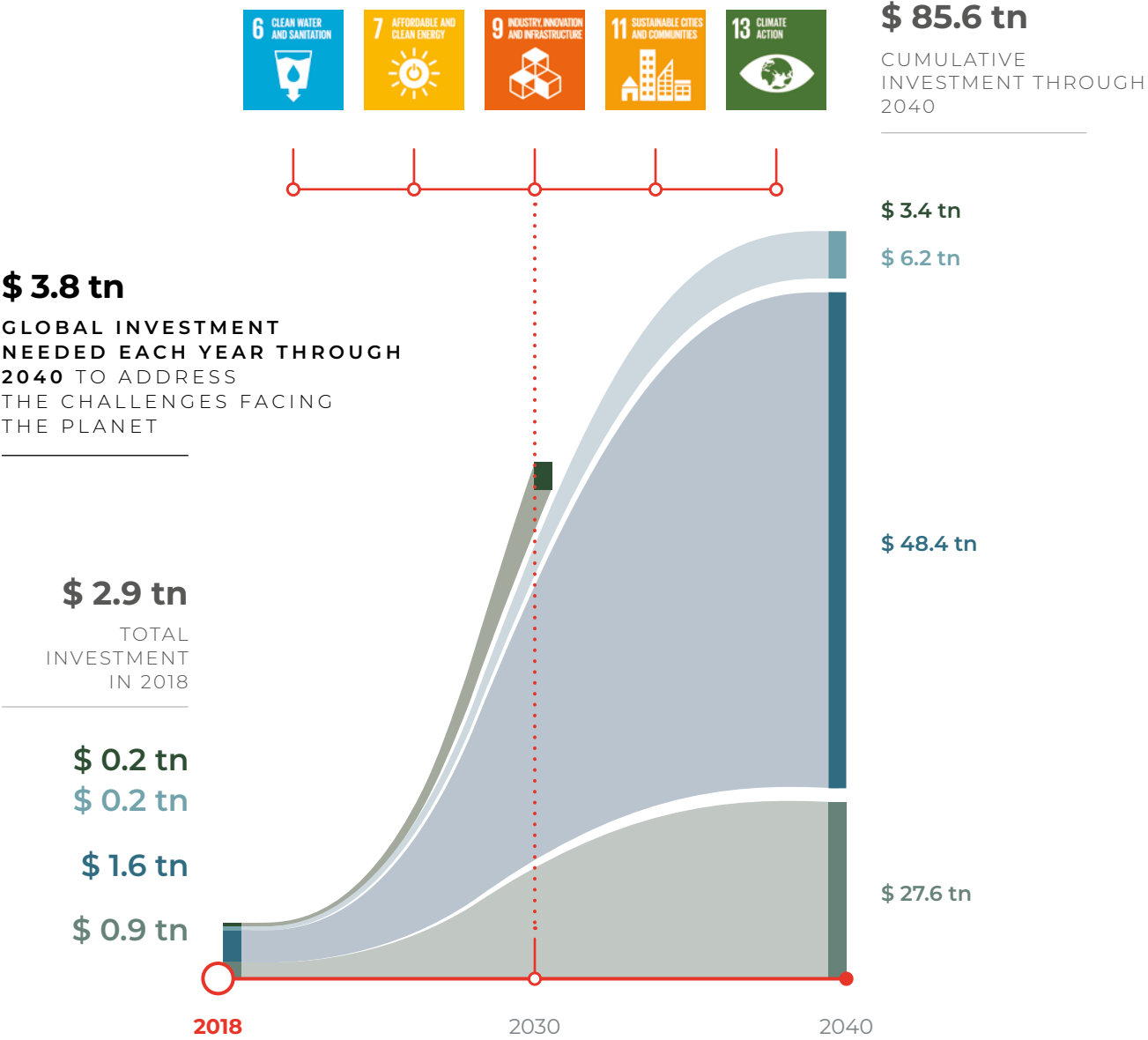
<sup>4</sup> Sources: World Health Organisation.  
United Nations.  
Arthur D. Little. *The Future of Mobility 3.0.*

Over three years ago, 193 States adopted the 2030 Agenda, a roadmap towards sustainable development with concrete goals that require an unprecedented volume of investment to be mobilised. Funding is oriented towards the construction of more sustainable development models.

The call for action is unmistakable: there is a need and a demand for solutions to address the challenges, both present and future.

**WORLDWIDE INVESTMENT TO RESPOND TO THE CHALLENGES FACING THE WORLD**

- Energy infrastructure
- Water infrastructure
- Civil infrastructure\*
- Sustainable development



\*Includes roads, railways, airports and ports.  
Source: ACCIONA, using data from Global Infrastructure Hub.