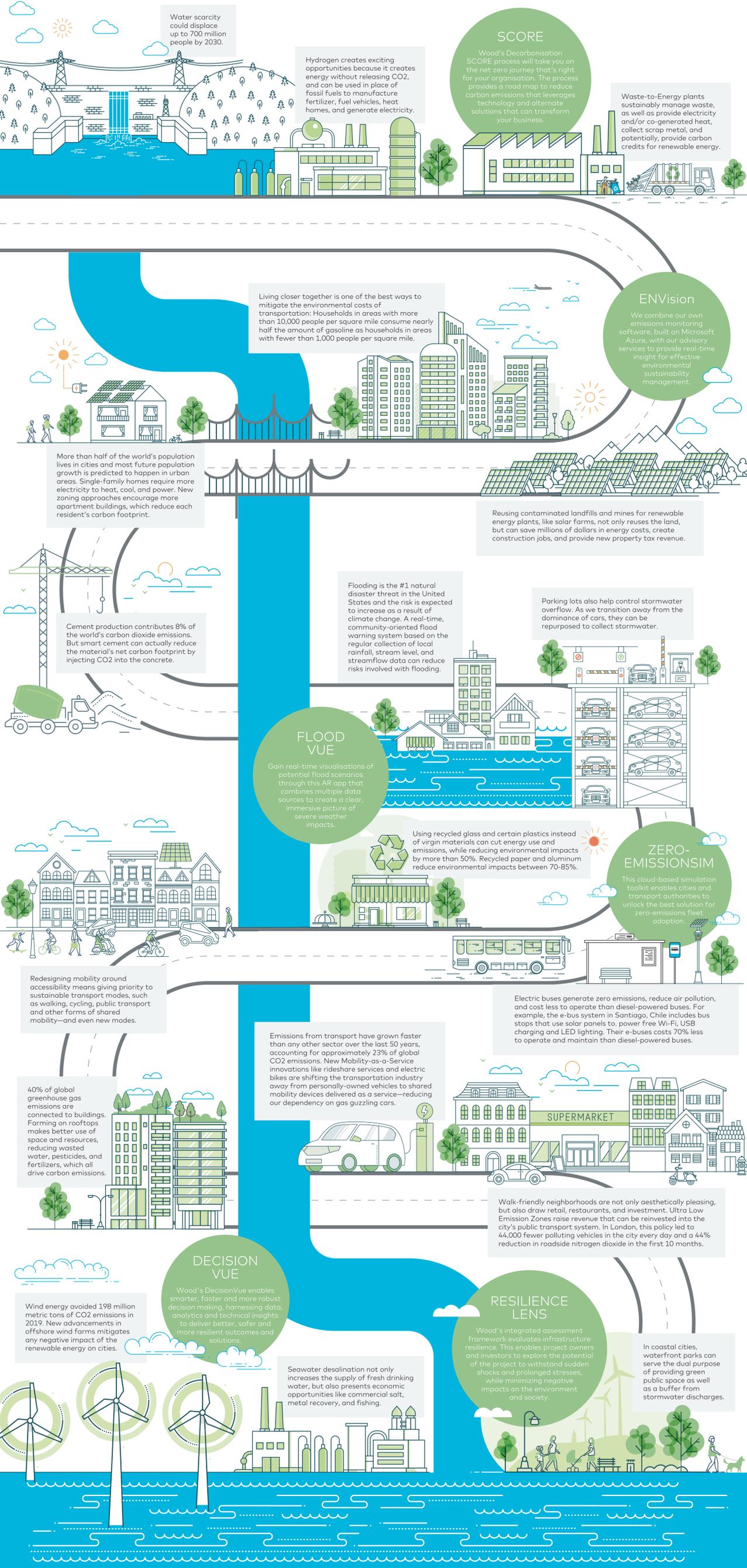


Building Climate-Smart Cities

More than half of humanity lives in urban areas, and cities are responsible for 70% of global greenhouse gas emissions. That presents an exciting opportunity to organizations and nations to make great strides in decarbonisation through smarter cities. By building connected, sustainable, resilient, and livable shared spaces for humanity's densest populations, we can make real progress to a net zero world.

In fact, the United Nations established this mission as their 11th Sustainable Development Goal: making cities more resilient, sustainable, inclusive and safe. Find out how pioneering governments and enterprises, with the help of Wood's digital solutions, are decarbonizing cities and paving the way for future sustainability.



Build the Sustainable Cities of The Future with Wood Solutions

At Wood, we work with clients to develop sustainable and resilient infrastructure. We have a framework for helping cities prioritize projects for investment, as well as an approach for decarbonizing portfolios. These solutions, and the training and capacity-building that go alongside them, create value by informing better decisions that help members make their cities more competitive and attractive to investment.

"Delivering a more sustainable, resilient and zero carbon future will not be possible without a concerted focus on improving quality of life in cities across the globe,"

said Andrew Stewart, Executive President of Strategy and Development, Wood.

SCORE

- Navigate the decarbonisation landscape by gaining insight into the factors that contribute to variations in performance
- Lean on subject matter experts to develop a personalized roadmap to reduce carbon emissions
- Ensure robust and implementable solutions by transitioning your decarbonisation roadmap into achievable, measurable steps, including monitoring and feedback against decarbonisation objectives

ENVision

- Assure Asset Operations Data: for day-to-day optimisation and reporting emissions data to meet regulatory and corporate commitments
- Real-time Portfolio Insight: across multiple assets, incorporating indirect and supply chain emissions, and feeding into decisions around carbon trading and offsetting
- Optimise Strategic Decision Making: quantitative target setting, transparent tracking of progress and effective interfacing with other key performance indicators
- Built on Microsoft Azure: delivering the security, scalability, and speed of Microsoft's cloud for enterprise grade data analytics

ZEROEMISSIONSIM

- Simulate infinite possibilities. Use machine learning and real-world data to model and optimise route scenarios for battery electric or hydrogen fuel powered vehicles, charging and fueling infrastructure locations, and vehicle types and sizes
- Address range anxiety and life cycle costs. Understand the true capital and operating costs for hardware, infrastructure, energy, and utilities required for the network when scaling fleets
- Evaluate resilience of fleet adoption. Perform a 360-analysis of impacts and costs associated with facilities, people, environment and infrastructure to plan for the transition to zero-emission fleets over a set horizon

FLOOD VUE

- Automated and scalable data collation: integrates flood risk data from both 1-dimensional and 2-dimensional applications to enable a high-level analysis
- Real-time visualisation: uses multiple geolocation selection methods including Observation Points, GPS, Bluetooth or Manual Entry to define positional and directional information for an immersive experience
- Smarter, more resilient decision-making: displays multiple data sources such as high-water mark geolocations, structural details, building information and flood flow information for better informed resilience planning

DECISION VUE

- A family of bespoke tools and supported applications to assess impacts, mitigate risks and manage uncertainties
- Supporting strategic option assessment through an analytically robust framework that breaks down complex problems into more manageable elements
- Informing real-time decision making in high risk environments with AI-enabled decision support tools analysing large data streams to deliver smarter, faster, and more reliable outcomes

RESILIENCE LENS

- Enables project owners and investors to explore the potential of an infrastructure project to withstand sudden shocks and prolonged stresses, and minimize negative impacts on the environment and society
- Using the results of the screen and project database, infrastructure projects can be designed, built, operated and maintained (DBOM) to deliver resilience value over a project's lifecycle
- Developed in partnership with the Rockefeller Foundation and the Resilient Cities Network, ResilienceLens provides a link between infrastructure projects and finance, supporting the identification of a pipeline of 'bankable' projects which can demonstrate the value of integrating resilience in project design and delivery (the resilience dividend) as well as addressing the sustainable development goals

About Wood:

We seek new possibilities to improve the world today and tomorrow.

Wood is a global leader in engineering and consultancy across energy and the built environment, helping to unlock solutions to some of the world's most critical challenges. We provide consulting, projects, and operations solutions in more than 60 countries, employing around 45,000 people.

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