

# A world of change

...with the chance to make it a better place for all



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We are living in a world of challenge!

1.78 bn

People have inhaled polluted air over the past decade; this has led to multiple diseases

12°C

hotter evening temperatures in urban areas with a population exceeding 1 million than in surrounding areas

6-10 dB(A)

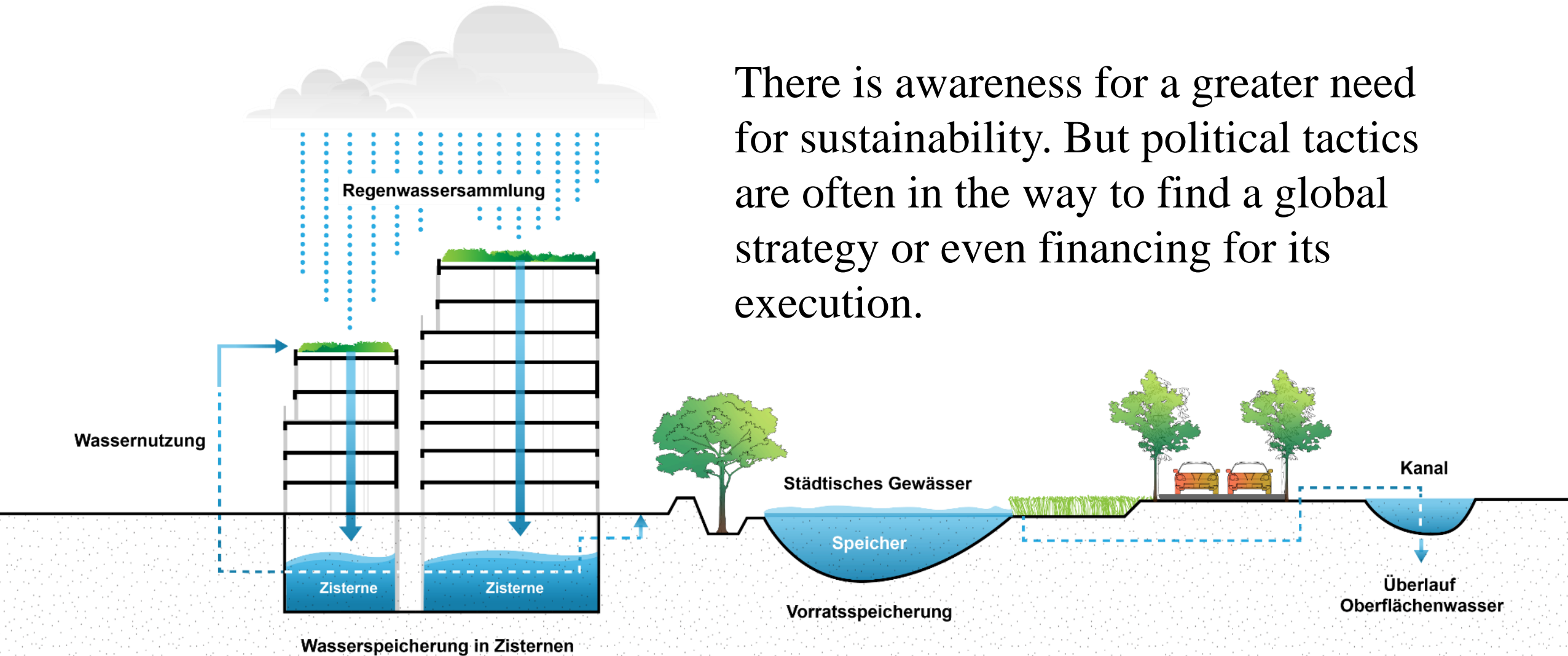
Reductions are feasible in ambient noise levels



To think of ourselves having greater issues than other generations is an illusion.

A geopolitical situation  
which is once again in a mess.

There is awareness for a greater need for sustainability. But political tactics are often in the way to find a global strategy or even financing for its execution.



# Zero Co2 emissions as a goal

While the “last Generation” is demonstrating aggressively and radically to highlight the need to focus on urgent actions.




## Oceans' water temperatures are unexpectedly high

Damage to the entire ocean life and more extreme weather events like hurricanes and tornados will result in an enormous increase of strong rain events.



- Heat island effects and heat waves
- To trouble foremost ill and elderly population
- Cities will struggle to provide livable conditions



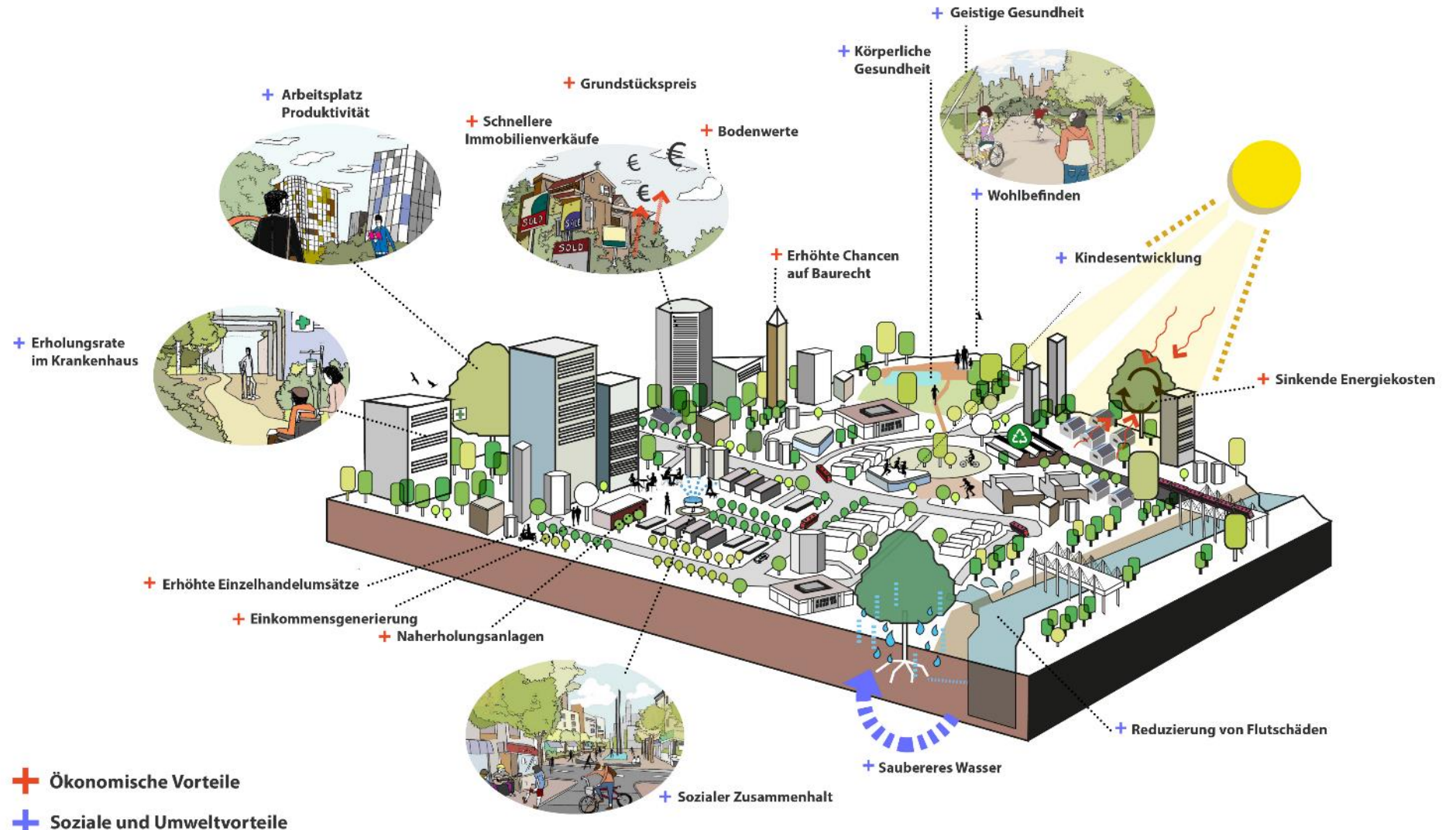


“Nature is our life support system – it provides us with food, water, health, happiness, and prosperity. But human activity is causing a devastating decline with such far-reaching effects that nature loss is now ranked as one of the Top 5 threats to economies and societies worldwide.”

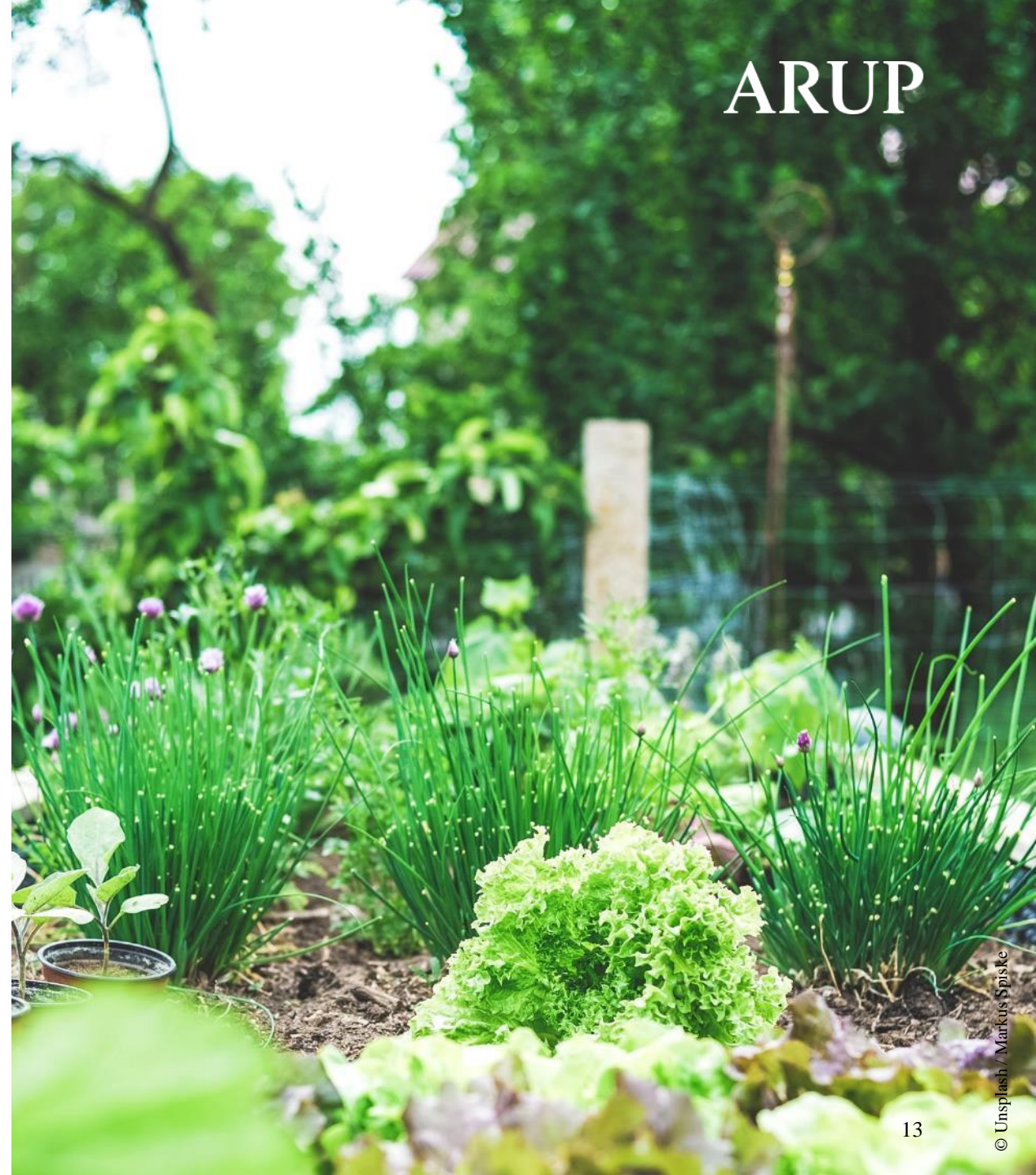


Therefore, our global Arup plan aligns to **halt and reverse** nature loss by **2030** and to achieve **full recovery** of nature by **2050**.

# The World Conference of Green Infrastructure to focus on solutions.



Plants are an essential necessity for mankind, for food to humans and as food and natural realm for the entirety of the fauna.






Where plants get too little place and room, all life will get under pressure.

like heat peaks in cities,  
like loss of bio-diversity,  
like lack of flood resistance.

Where life gets under pressure,  
significant energy consumption  
has been introduced to  
compensate:

- like air-conditioning
- significant commuting to leisure destinations  
in the surroundings of cities
- energy consuming constructions for  
water management systems




An aerial photograph of a dense urban skyline, likely London, featuring prominent skyscrapers like the Shard and the Gherkin. The city is interspersed with green spaces and trees. The sky is clear and blue.

Particularly denser urban populations  
get under significant pressure.  
Issues cannot be resolved to zero CO<sub>2</sub> plans  
without significant changes.



The World Congress brings people together with an interest in working with fauna.



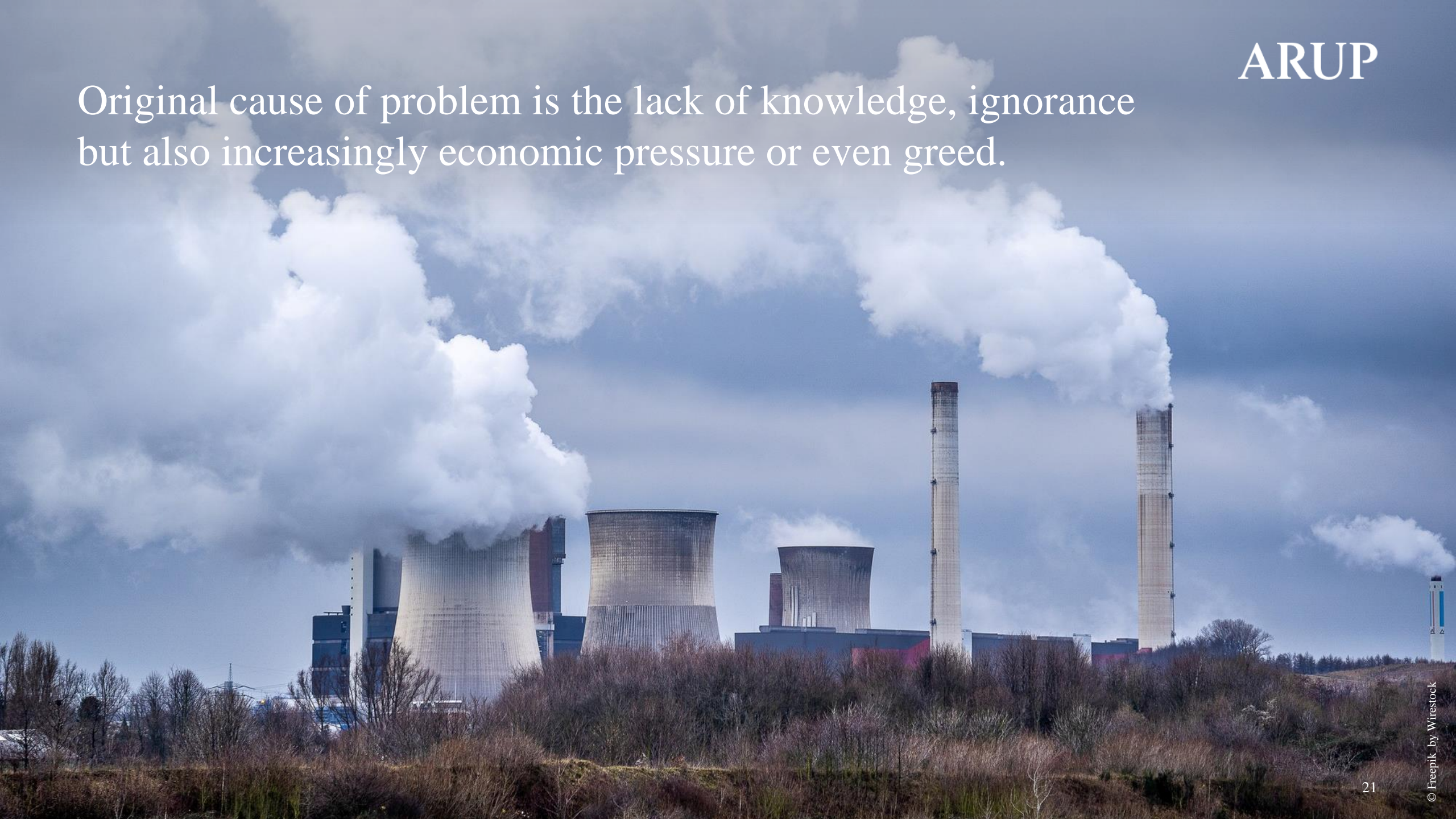
An architectural rendering of a modern urban development. The central focus is a tall, multi-story building with a prominent cantilevered top floor. The building's facade is integrated with lush greenery, featuring balconies and terraces filled with trees and plants. To the left, another building with a glass facade and a green roof is visible. In the foreground, a public square is bustling with activity, including people walking, a cyclist, and a person sitting on a red bench. The scene is set against a bright, clear sky, suggesting a sunny day. The overall atmosphere is one of a vibrant, green, and modern city environment.

Fine dust, heat, storm and strong water events, as well as urban noise, all are huge issues where we can offer solutions, mitigating the problems which stress city population.



Urban bio-diversity loss can be addressed  
with solutions which improve the situations.

Original cause of problem is the lack of knowledge, ignorance but also increasingly economic pressure or even greed.

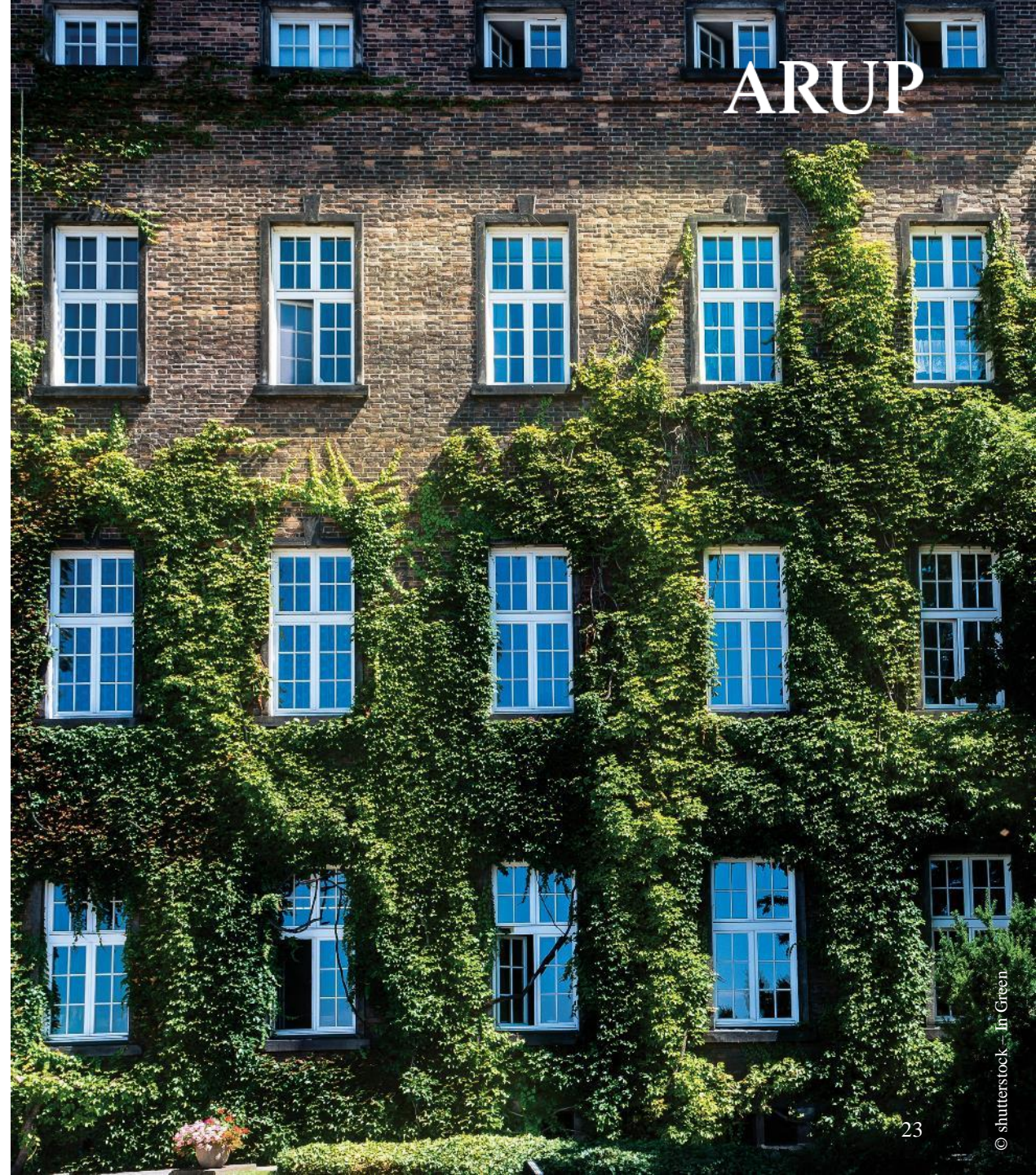




Inner city food production is important to reconnect city inhabitants with the understanding and importance of growing food, seasonal differences of harvesting times for different kinds of vegetables and fruits.

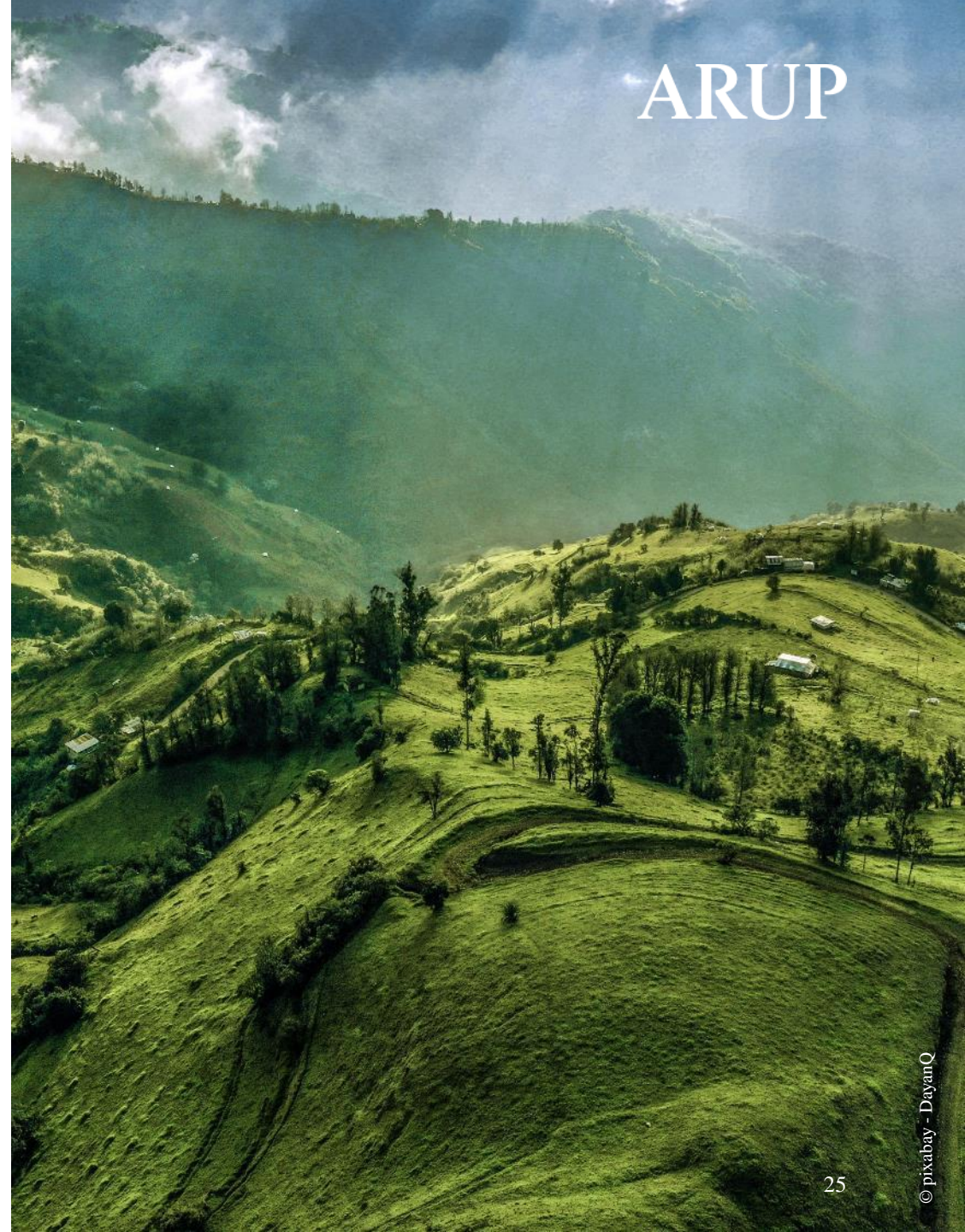
More plants for the city with less place on the ground brings us to roof tops and to vertical walls.

Where we let people do what they want to do, they want to have plants everywhere shaping their environments, if we let plants do what they want, they will grow everywhere.



# Giving nature space, room and time to unfold again

- to increase the environmental conditions
- to absorb great amounts of fine dust
- to counteract heat island effect
- to reduce environmental noise
- to absorb strong rain events
- to decrease aggression levels for human beings
- to improve health and well being
- to stabilize mental health



A long list of subjects of benefits and contributions which generates hope.



I have felt a mood of hope  
and a focus towards solutions

Working with quality of plants  
to inspire for more positive action toward  
revitalizing life in dense urban cities.

**Rudi Scheuermann, Arup Fellow**