DEVELOP | GROW | PROSPER

SACPCMP

The South African Council for the Project and Construction Management Professions

— CONSTRUCTING NEW PERSPECTIVES —

The Importance of Competence to Ensure Professionalism in Construction Health and Safety

by

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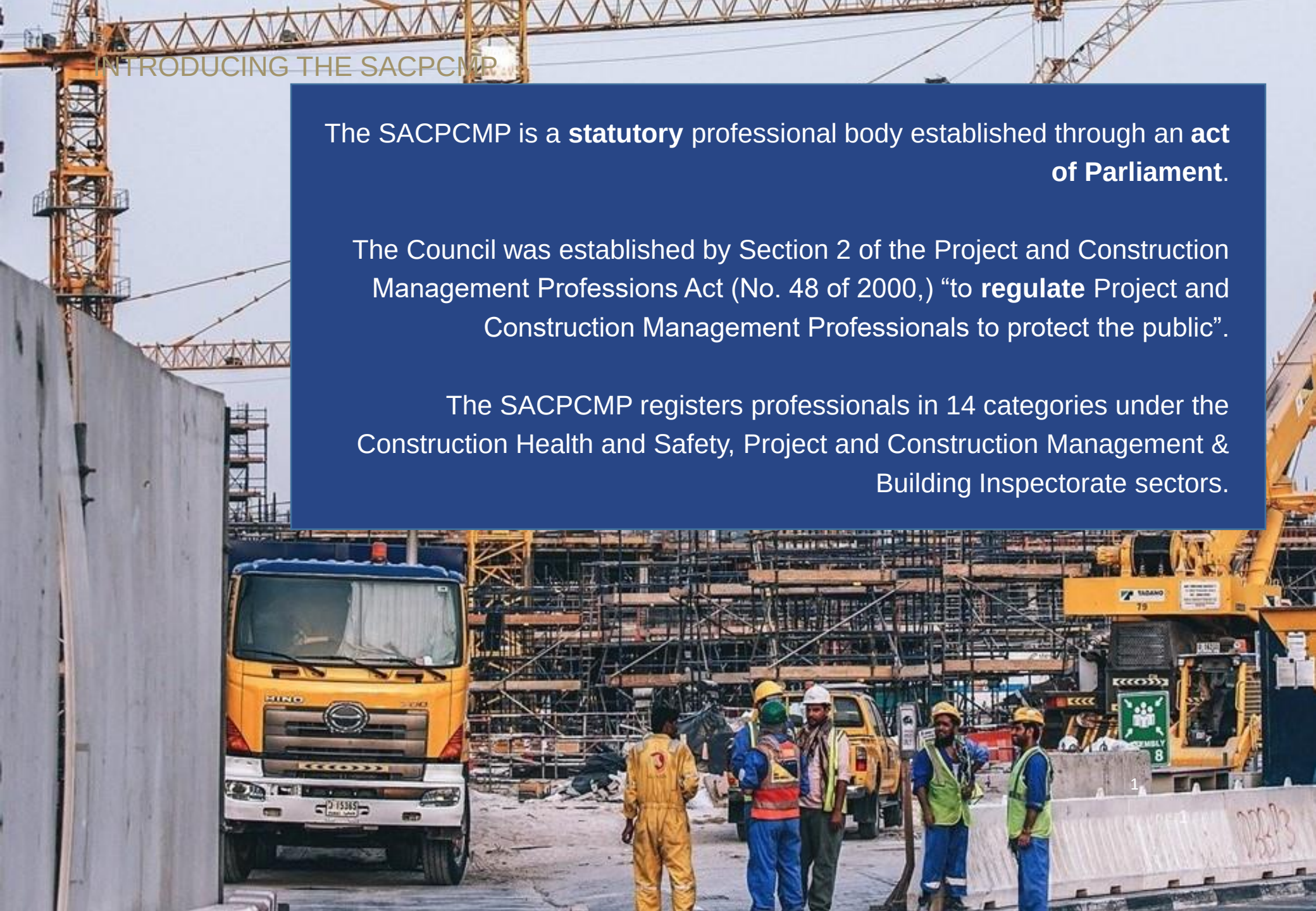
Executive: Operations

INTRODUCING THE SACPCMP

The SACPCMP is a **statutory** professional body established through an **act of Parliament**.

The Council was established by Section 2 of the Project and Construction Management Professions Act (No. 48 of 2000,) “to **regulate** Project and Construction Management Professionals to protect the public”.

The SACPCMP registers professionals in 14 categories under the Construction Health and Safety, Project and Construction Management & Building Inspectorate sectors.

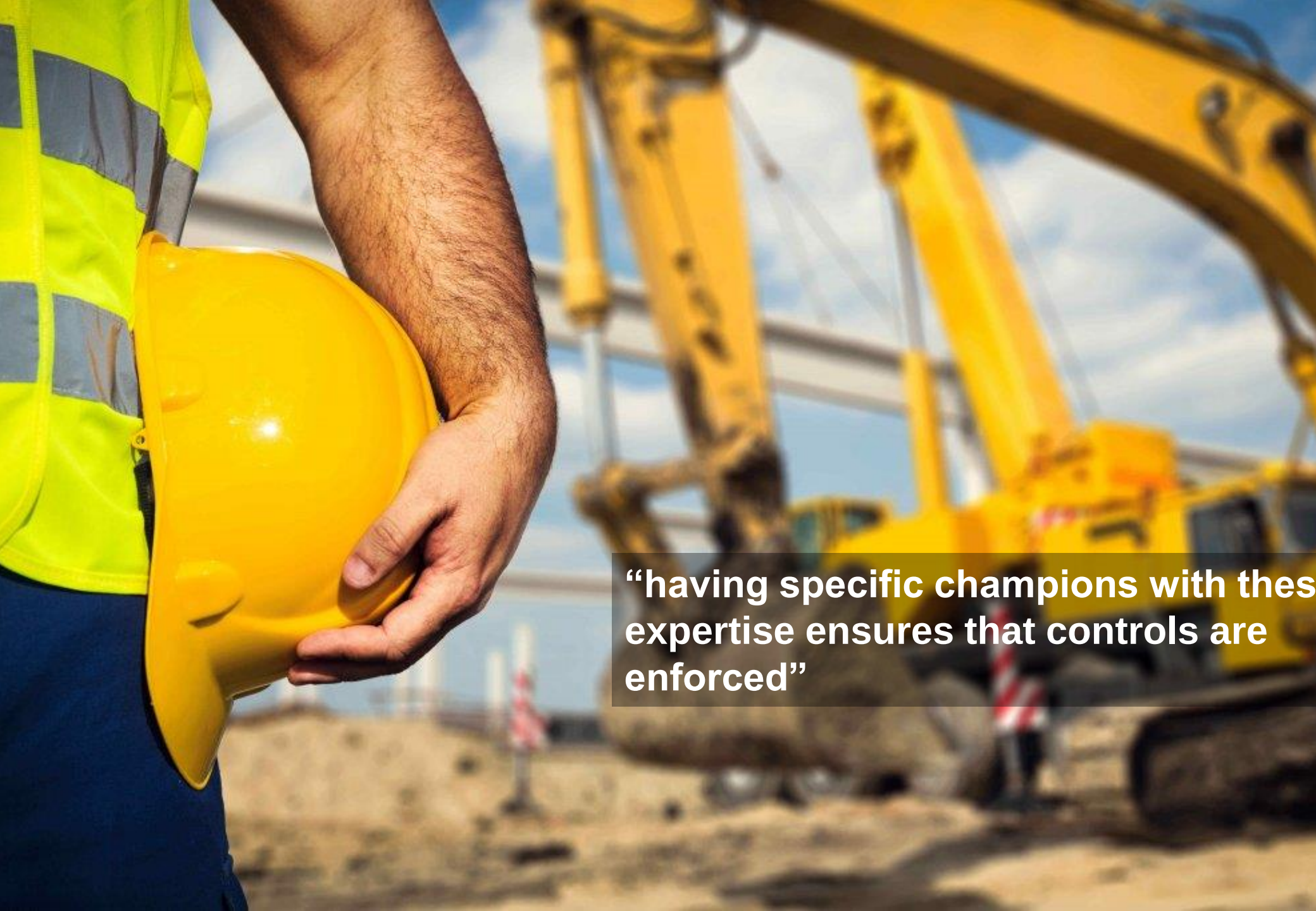


CONSTRUCTION AS AN EXPERT FIELD

"With construction as a field of expertise in occupational health and safety, it is important to realise the sheer danger of incompetence"

…who keeps this workforce healthy and safe?


“construction workers work in the most extreme environments and in many instances work under the most horrendous conditions for human beings”


“having specific champions with thes
expertise ensures that controls are
enforced”

“Special understanding of and expertise in this environment are required to ensure that the construction workforce is protected as well as the public around construction sites”

“we relook at how we measure and assess competence for construction professionals involved in ensuring health and safety on site)”

COMPETENCY STANDARDS

FIGURE D **Global risks landscape: an interconnections map**

Source

World Economic Forum Global Risks Perception Survey 2023-2024.

LOW

HIGH

HIGH

LOW

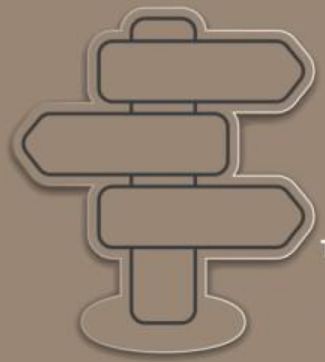
VUCA

COMPLEXITY

MULTIPLE KEY DECISION FACTORS

VOLATILITY

RAPID AND UNEXPECTED CHALLENGES



TOO MANY 'UNKNOWN UNKNOWNS'

AMBIGUITY

PENDING CHANGE: KNOWN UNKNOWNS

UNCERTAINTY

HOW WELL CAN YOU PREDICT THE RESULTS OF YOUR ACTIONS?

HOW MUCH DO YOU KNOW ABOUT THE SITUATION?

Are professionals equipped with the **knowledge** and **skills** they need to make them flexible, adaptable, and agile?

Where do we begin to transform the professions to respond to VUCA world, to ensure **relevance** and **sustainability**?

Are they equipped to be key drivers of **profitability** and **service delivery** in the South African construction industry?

Council Strategy Specific Competencies

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Diversity, Equity and inclusion

Sustainable Development and environmental protection

Managing/Leading Digitisation or Digital Literacy

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Diversity, Equity and Inclusion

The ability to work effectively with people from different backgrounds, culture, gender, race, ethnic origin, age etc., being mutually inclusive and being impartial, fair and committed to equal opportunities.

Unlocking barriers and improving work conditions

Achieving diversity, equality and inclusion within the construction industry will help ensure that everyone can share the benefits of - and contribute to - a prosperous sector. It is perhaps the only way to ensure that the built environment caters for a variety of needs.

Improving diversity, equality and inclusion within the industry is the ethical choice, but it can also bring clear economic benefits such as addressing the problems professions and businesses face in attracting skilled workers and maintaining productivity.

CIC
https://www.cic.org.uk/policy-and-public-affairs/diversity-and-inclusion

The Impact of Inclusion in the Workplace

Inclusion is about creating an environment of fairness, respect, and equal opportunities for everyone, regardless of their gender, race, ethnicity, or background. A diverse and inclusive workforce leads to better decision-making, increased employee satisfaction, and improved overall performance.

By fostering an inclusive environment, construction companies can attract and retain top talent, encourage innovation, and create a positive reputation within the industry. Inclusivity also reduces the chances of workplace discrimination and harassment, ensuring that everyone feels safe and supported in their roles.

https://www.boomandbucket.com/blog/creating-a-safe--inclusive-work-environment-in-construction?srsltid=AfmBOorMyMurZ1WfugVfmCkV7SEF63eSsvx6aj1mF6PG5f-b0sXZm23_

Sustainable Development and Environmental Protection

Sustainable development embraces environmental, social and economic objectives to deliver long-term equitable growth which will benefit current and future generations whilst environmental protection aims at maintaining (including recovery if and when necessary) a healthy and natural environment.

Annual Global CO_2 Emissions

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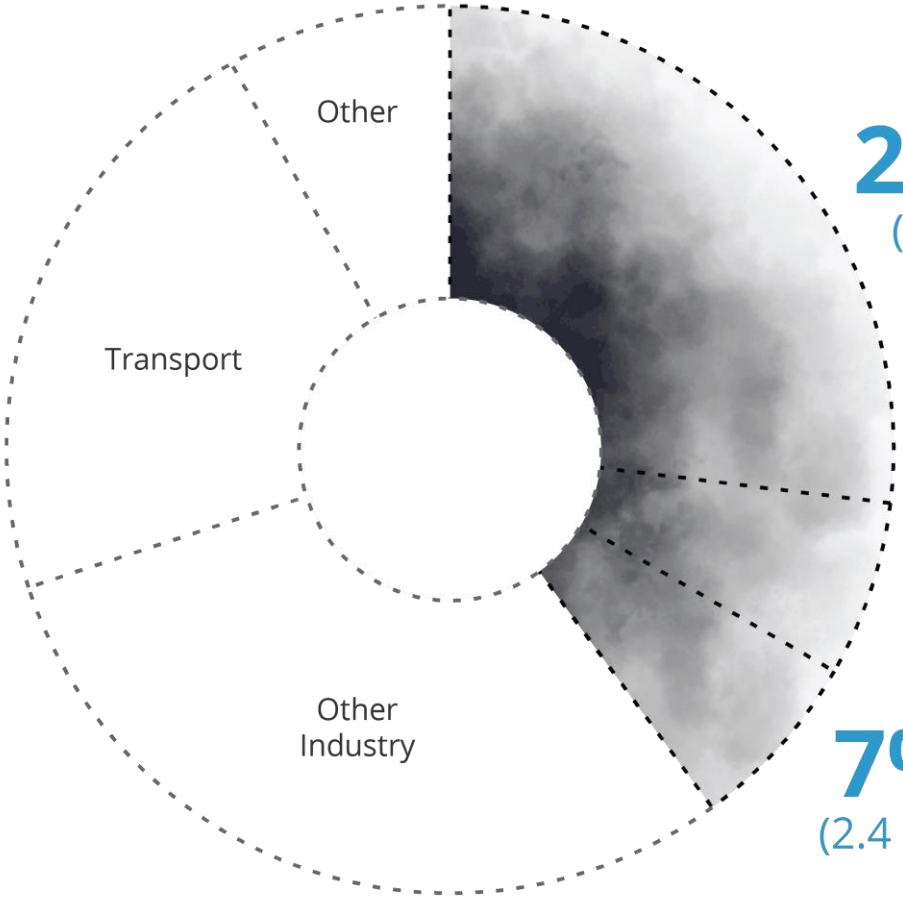

27% (9.9 GT) BUILDING OPERATIONS

6% (2.3 GT) BUILDING CONSTRUCTION INDUSTRY

7% (2.4 GT) OTHER CONSTRUCTION INDUSTRY

 Data Source: IEA (2022), Buildings, IEA, Paris

Building Construction Industry and Other Construction Industry represent emissions from concrete, steel, and aluminum for buildings and infrastructure respectively.

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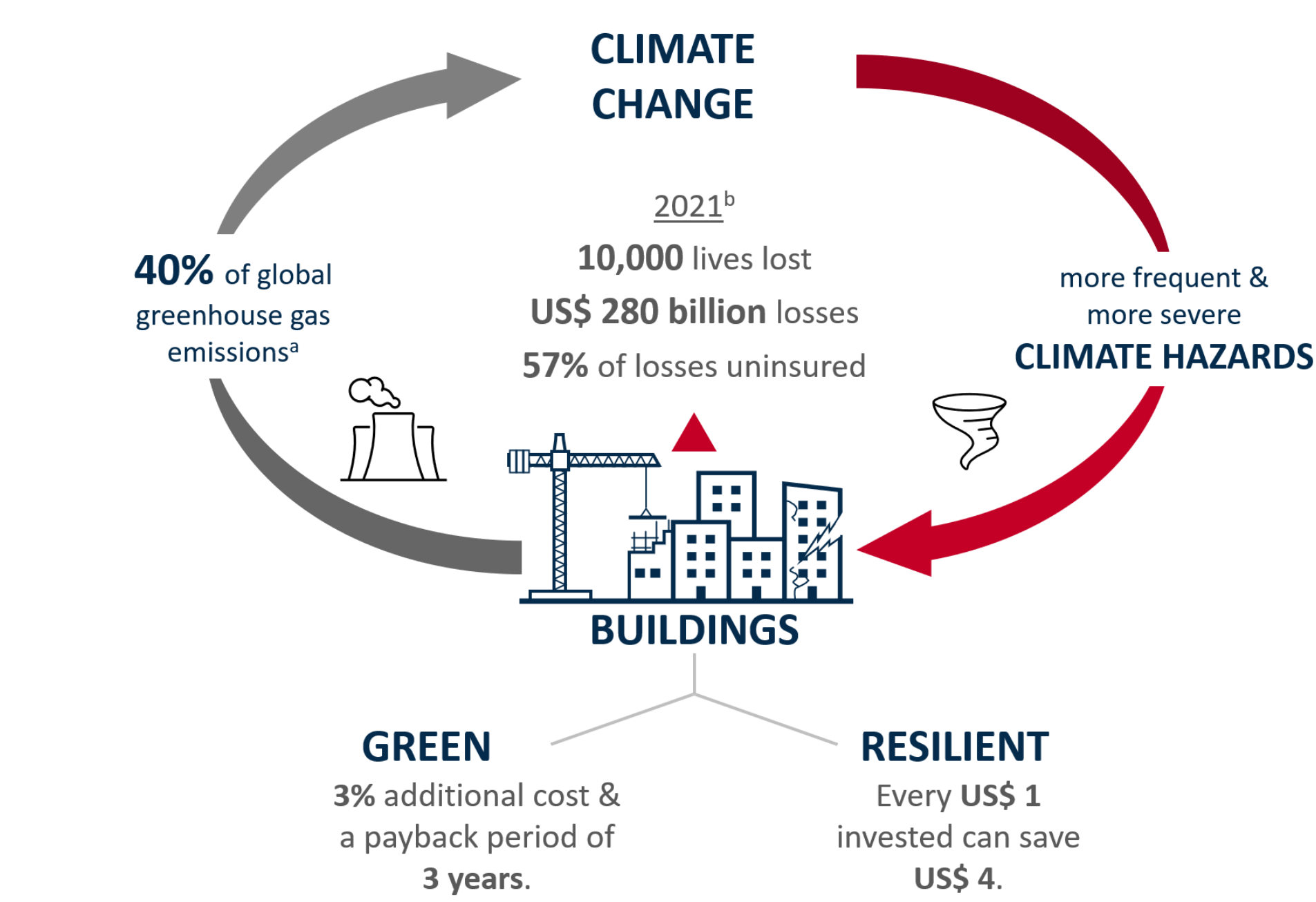


Building sector emissions and resilience cycle (a: emissions including embodied carbon; b:includes data from all natural disasters)Image: Ommid Saberi, Naz Beykan, IFC; Data from IFC, MunichRE and National Institute of Building Science

Digitisation

The ability to stay abreast of digital trends, to leverage new digital technologies and optimize their application. The ability to manage and effectively apply a variety of digital tools across various digital platforms. The ability to appropriately utilize digital technology.

Construction sites in 2023 might in many ways resemble those in 1923, with manual bricklaying, paper blueprints, and scaffold towers. At $12 trillion,[1] architecture, engineering, and construction (AEC) is one of the biggest industries in the world, but historically it has been among the slowest to digitize and innovate.

McKinsey (2023)

https://www.mckinsey.com/industries/private-capital/our-insights/from-start-up-to-scale-up-accelerating-growth-in-construction-technology

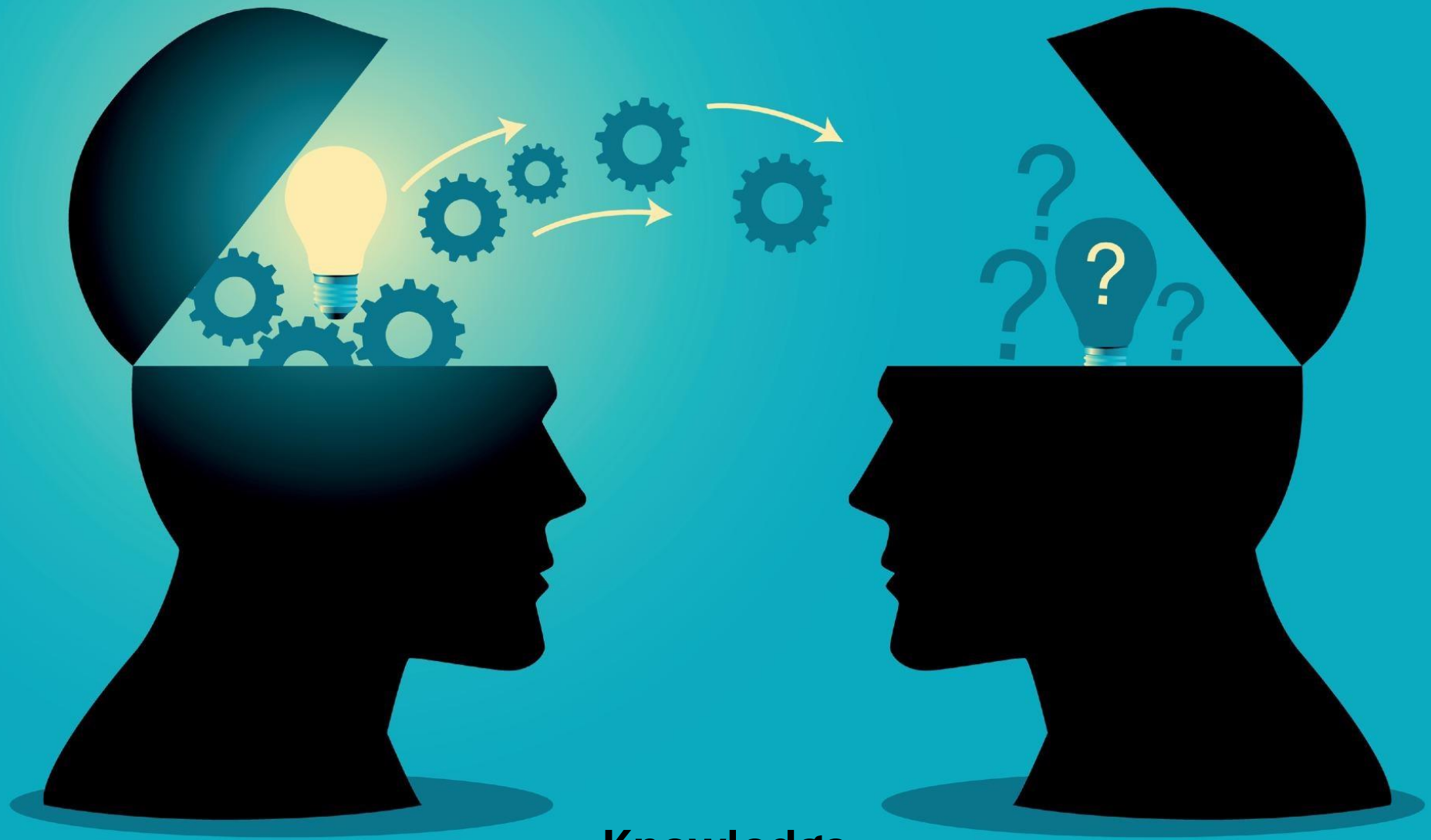
Increases Safety

Construction technology can not only mitigate risks but also foster a culture of safety that spreads through all levels of a construction project, from planning through execution. Here's how:

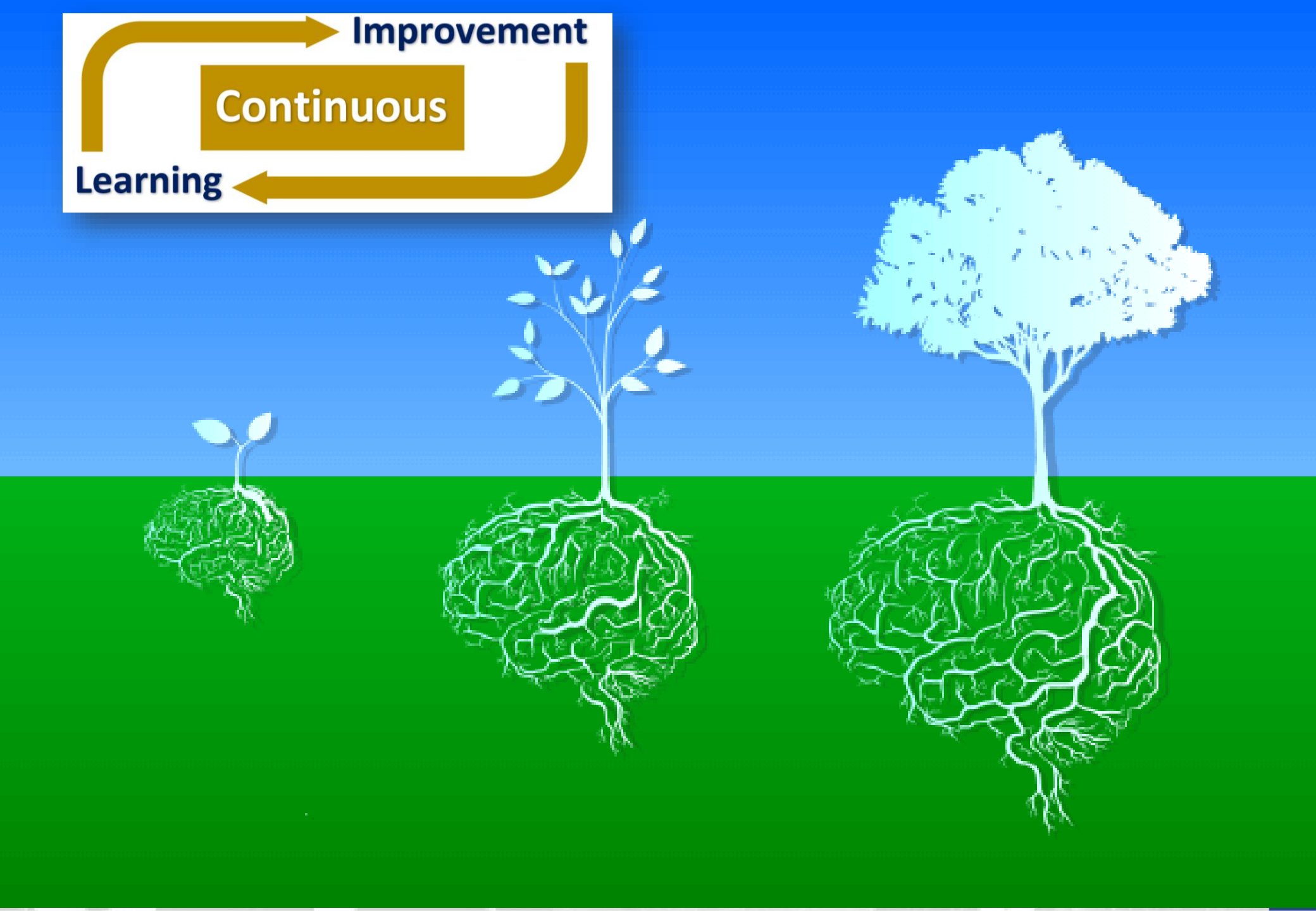
- **Real-time Monitoring:** Utilizing drones and sensors for continuous surveillance improves response times to potential safety hazards, ensuring constant oversight.
- **Wearable Technology:** Devices that monitor health indicators like carbon monoxide levels, motion, and temperature help prevent health-related incidents before they occur.
- **Automated Machinery:** Automating repetitive and high-risk tasks reduces the likelihood of accidents caused by human error, making sites safer for workers.
- **Virtual Reality (VR):** VR technology is used in safety training programs to simulate realistic scenarios. This allows workers to gain experience and practice handling dangerous situations in a controlled, risk-free environment.
- **Robotic Layout Tools:** These automate crucial yet repetitive layout tasks, reducing physical strain and exposure to injury-prone environments.

https://openasset.com/blog/construction-technology/


Leveraging Resources
Building and Maintaining Relationships
Problem-solving
Resilience
Decision-Making


Knowledge


CODE of
CONDUCT


Improvement
Continuous
Learning

“Those who are assessed as competent, are deemed professionals in their field, and who are required to work according to a high ethical are better equipped to enforce the controls required and become the champion for the health and safety of construction workers, who many, especially those in disadvantaged communities, depend on”