



SEISMIC IN THE CONTEXT OF SUSTAINABILITY

Seismic Academy
Milano, July 1st, 2021

Dr. Stefan Nöken
Member of the Executive Board
Hilti Corporation



 Sustainability

WE UNDERSTAND THE NECESSITY TO ACT AND THE HIGH LEVERAGE IN THE CONSTRUCTION INDUSTRY

Expectations from stakeholders are increasing

Society

"Climate strike NYC: Young crowds demand action"
(The New York Times)

Regulatory environment

"CO2 taxes are being introduced in multiple legislations"
(DW)

Climate change reality

WORLD ECONOMIC FORUM
Climate change will be sudden and cataclysmic.
We need to act fast

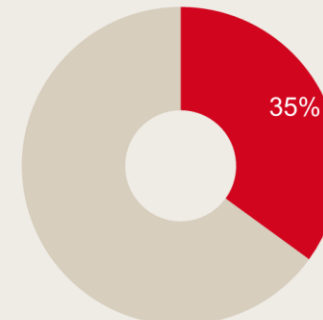
Employees

"We need to become an ecological role model. [...] What can Hilti do to play to its mission? [...] No window dressing."

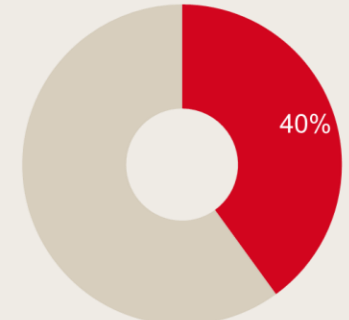
Customers & markets

"Subjects of sustainability are of central importance and are firmly anchored in our procurement processes."

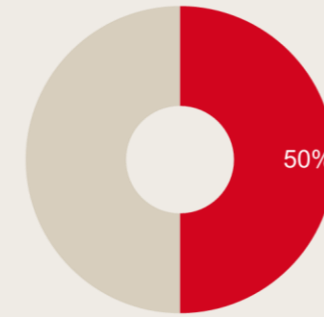
Environmental footprint of construction industry is especially high



CO2



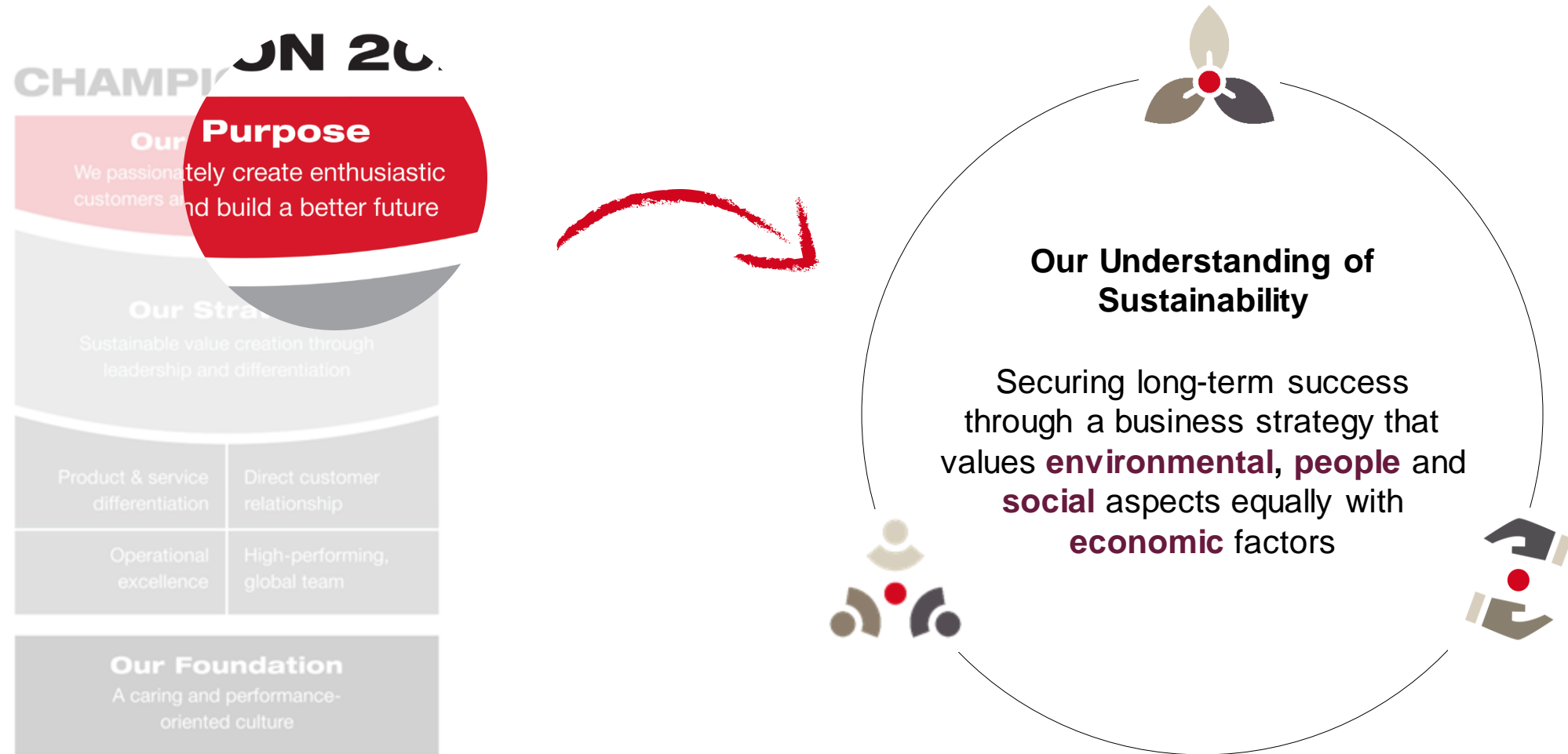
Energy



Raw material

Source: CIRCULAIRE BOUWECONOMIE, TRANSITIE-AGENDA 2018, CIRCULAIRE ECONOMIE, page 10

SUSTAINABILITY IS PART OF OUR CORE PURPOSE – NOW WE WANT TO LIFT OUR EFFORTS TO THE NEXT LEVEL



WE DEFINED AMBITIONS FOR OUR GLOBAL PRIORITIES AND NOW WORK ON INITIATIVES TO REACH THEM



We Care for our Environment



Become **CO2 neutral** by 2023



Lead the industry in **circularity**



We Care for People: Customers, Employees, and Partners



Differentiate through **user health & safety** and **building safety**



Lead in **employee health and safety**



We Contribute to a Better Society and High Ethical Standards



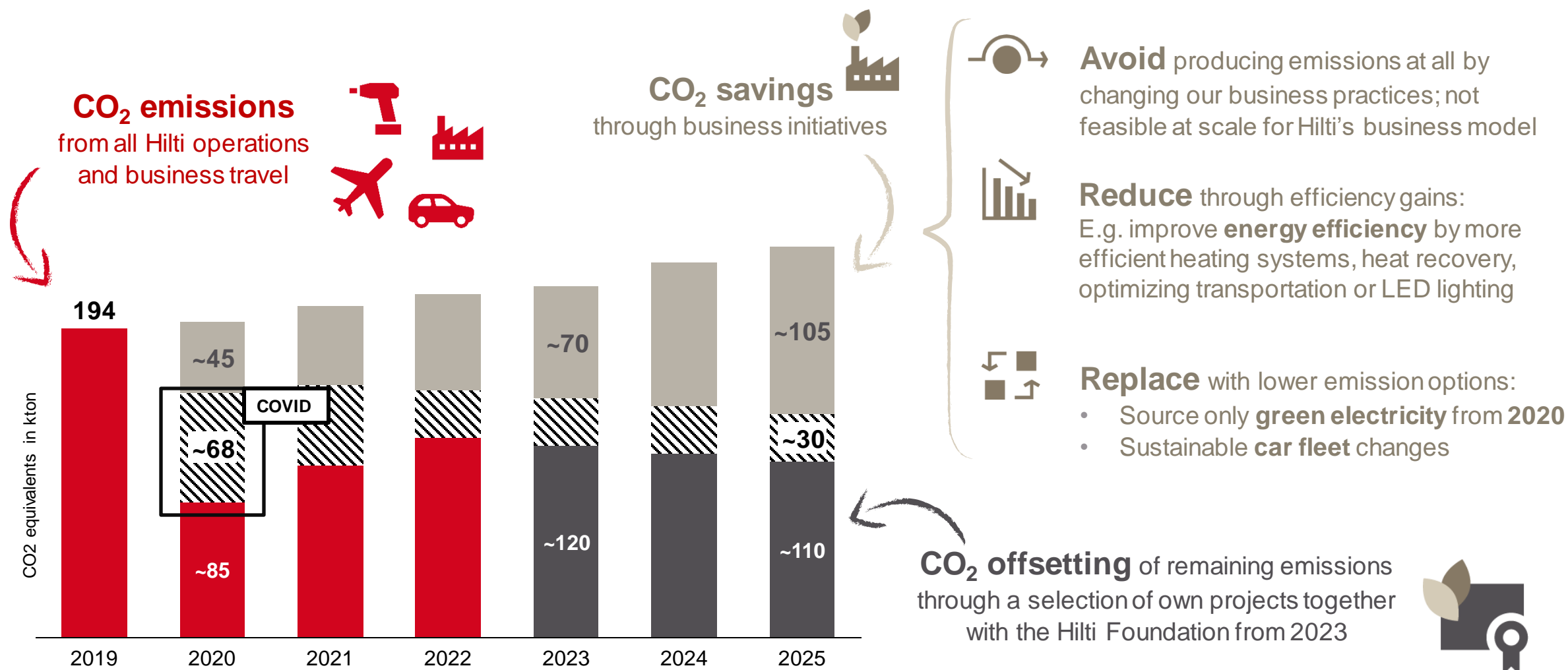
Create **social impact** at scale



Uphold ourselves and the industry to highest standards in **business ethics**

CO₂ DEVELOPMENT POST COVID SCENARIO

GREEN ELECTRICITY ALREADY IN 2020



HILTI FOUNDATION'S WORK IS FOCUSED ON CREATING SOCIAL IMPACT AT SCALE



	2018	2019	2020
Number of projects supported	72	79	80
Monetary value of investments in support projects in CHF million	22.3	26.5	28.7

Music for Social Change

Offering young people opportunities to enhance their personal development, social skills and shared sense of responsibility for one another.

Affordable Housing & Technology

Developing innovative and sustainable technologies and building concepts, that contributes to the creation of safer and affordable living spaces.

Economic Empowerment

Applied training programs and resources to further develop economic abilities, which generates more income and a sustainable livelihood.

www.hiltifoundation.org

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WE OFFER PRODUCTS TO MAKE BUILDINGS SAFER & HAVE HELPED TO ESTABLISH HIGH STANDARDS IN THIS FIELD



OUR JOURNEY FOR STRUCTURAL AND NON-STRUCTURAL SEISMIC SOLUTIONS FOR NEW + RETROFITTING PURPOSES

Where we were

No seismic qualification of fastening elements, unknown behavior of MEP supports



What we did

Research and committee work with accredited research institutes and laboratories



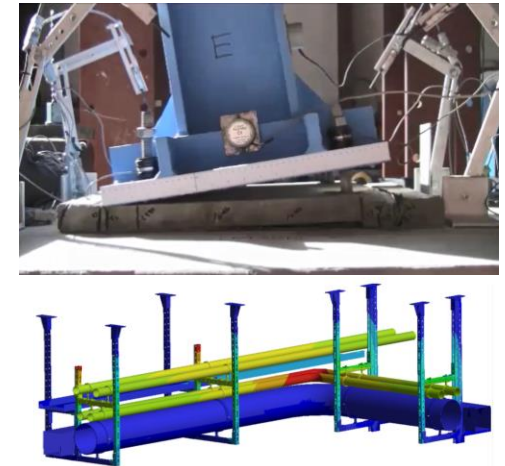
Where we are

Deep know-how on real behavior, state-of-the-art seismic-resistant solutions and standards with broad portfolio solutions



Where we are going

Further progress the state-of-the-art of entire structural and non-structural solutions

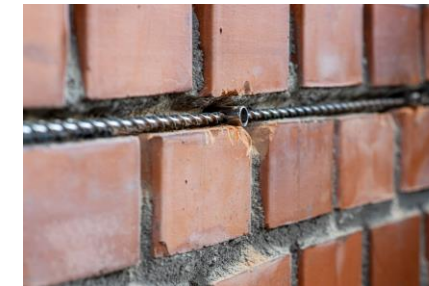


BESIDE NEW BUILT LIFE EXTENSION PLAYS A MAJOR ROLE TO SUSTAINABILITY

Heli-Brick

Hilti's new solution for masonry reinforcement with helicoidal bars in stainless steel

One step closer to preserving our architectural heritage.



Structural performance improvement as per joint reinforcement and wall connections applications according to **Italian building code**

KEY MESSAGES

- Proper design of fastenings and fire protection elements in seismic environments play a fundamental role for the overall **safety**, **resilience** and **performance** of all our building stock (heritage, existing, or new buildings)
- Safe installations mean:
 - Using **suitable** fasteners and fire protection systems for the right **application**
 - **Follow** and understand proper **design procedures**
- **Hilti R&D activities**, in collaborations with accredited research institutes, allow to:
 - fully understand the real behavior of the elements, in **both structural and non-structural applications**
 - properly understand the design and product requirements

We help to design and adopt **cost-effective innovative** solutions while keeping the **highest safety standards** (“people safety”) in a **sustainable manner** (“reducing carbon footprint”) and **extending service life** of the buildings.



YOUR

Engagement
is our most
powerful tool