



the
klosters
forum
'22

Summer 2022

Table of Contents

| | | |
|----|--|----|
| 1. | About The Klosters Forum | 3 |
| 2. | TKF22 Participants | 6 |
| 3. | Opening Talks | 9 |
| | Sir Tim Smit, <i>Co-Founder of the Eden Project</i> | |
| | Dr. Mamphela Ramphele, <i>Co-President of The Club of Rome</i> | |
| 4. | Warm Data Lab | 12 |
| 5. | Panel Discussions | 13 |
| | Panel 1: <i>Powerful parameters to encourage regenerative building practice</i> | |
| | Panel 2: <i>Reconnecting with nature through the way we build</i> | |
| 6. | Summary of the Workshops | 21 |
| | a. <i>Sustainable buildings: investing to tackle the 40% challenge for a climate-resilient future.</i> | |
| | b. <i>How to scale timber buildings that regenerate sustainable forestry and local economies?</i> | |
| | c. <i>The quest for new building materials & the role of nature.</i> | |
| | d. <i>Wellbeing infrastructure: a call for a new evidence-based approach towards built environments.</i> | |
| | e. <i>Collective intelligence: how to promote the layering of solutions for system transformation?</i> | |
| | f. <i>A civilisational look at living spaces.</i> | |
| 7. | Needs & Leads Session | 42 |
| 8. | Thank You | 43 |
| 9. | TKF23 | 44 |





1



About The Klosters Forum

The Klosters Forum is a community of experts who are committed to tackling the world's most urgent environmental issues. The Klosters Forum provides a neutral platform where we convene and connect relevant, impactful and committed participants, giving them the time and space for deep thinking and an opportunity to share ideas and collaborate in a unique, intimate environment.

The Klosters Forum creates a space in which time is set aside for our TKF Participants to focus on a single issue. We have heard too often from NGOs, investors, and entrepreneurs that their schedules do not usually allow for this deep thinking. Our focus is on creating viable solutions, which we do by creating networks, brokering collaborations and incubating thought leadership.

Focus of The Klosters Forum 2022 (TKF22) – The Built Environment

Habitat For Earth: *How To Design And Build For A Regenerative Future*

Rethinking current norms in construction is an urgent and complex challenge. The way in which we operate, produce and restore our built environment must be systemically and radically altered. Mobilising such changes demands cross-sectoral, co-operative and creative relationships that harness our collective agency.

For 2.5 days, we brought together 83 leading architects, designers, material experts, scientists, developers, environmentalists, investors, artists and more to discuss and collaborate on new approaches to designing and reimagining a built environment at one with, rather than at odds with, our natural environment.



The TKF22 Community was convened to:

1

***Accelerate positive
environmental
change***

Our community continues to put words into action. We are continuously measuring our impact by keeping in touch with our TKF Participants, learning about their progress and the collaborations that emerged from our Forums, and supporting them to the best of our ability.

2

***Provide a unique
environment that
encourages systemic
thinking and acting***

3

***Foster a solution-
oriented and
collaborative
ecosystem of game
changers***

TKF22 Sponsors

Thank you to TKF22 Sponsors Laudes Foundation and Pictet Group for believing in The Klosters Forum and in the power of collaboration.

4

***Make expert
knowledge available
to a wider community***

Laudes ———
—— Foundation

 **PICTET**
1805

2

TKF22 Participants

During TKF22 a high calibre, impact-focused, collaborative and inspiring cohort gathered in the Swiss Alps. Below is the list of TKF Participants who joined TKF22.

The TKF22 Friends Group, a valued community of supporters who play a key role in advancing the mission and vision of The Klosters Forum, included: Amber Mahood, Georgia Oetker, Maria Micu, Michaël Droz, Reto von der Becke, Ximena Cho, Annette Kumlin, Annick Chambost Sluijs, Elise van Middelem.

| Name | Position | Organsiation |
|-------------------------|-------------------------------------|--|
| Maria Atkinson | Chair | Holcim Foundation for Sustainable Construction |
| Ron Bakker | Founding Partner | PLP Architecture |
| Prof. Sarbajit Banerjee | Davidson Chair Professor of Science | Texas A&M University |
| Erica Blair | Associate Director | Burning Man Projects |
| Jeff Blaylock | Interim Head of Networks | Built by Nature Laudes Foundation |
| Christopher Burghardt | Venture Partner | 2150 |
| Anthony Cho | Founder | Future of Cities |

| Name | Position | Organsiation |
|--------------------------|--|---|
| Prof. Catherine De Wolf | Assistant Professor of Circular Engineering for Architecture | ETH |
| Celia Francis | NED and Founder | NREP & The Art of Forests |
| Scott Francisco | Co-Founder | Cities4Forests |
| Dr. Steve Freedman | Head of Research and Sustainability, Thematic Equities | Pictet Group |
| Peter Gajdos | Partner, Co-Head of Climate Tech | Fifth Wall |
| Russell Galt | Head of Urban Alliance | IUCN |
| Ana Gatóo | Research | Cambridge University |
| Bettina Gerharz-Kalte | VP New Growth Area Thermal Mgmt | Evonik |
| Gita Goven | CEO Chair | ARG Design, Africa 123 |
| Beata Grabowska | Business Consultant | Fauna & Flora International |
| Anthony Guerrero | Vice President Workplace and Real Estate Strategies | Earthjustice |
| Prof. Guillaume Habert | Professor for Sustainable Construction | ETH |
| Elfrida Hamilton-Russell | Director of Leadership and Learning | UK Green Building Council |
| Hattie Hartman | Sustainability Editor | Architect's Journal |
| Will Hunter | Founder | London School of Architecture |
| Indy Johar | Founding Director | Dark Matter Labs |
| Zsolt Kohalmi | Global Head of Real Estate and Co-Chief Executive Officer | Pictet Alternative Advisors |
| Dr. Gnanli Landrou | Co-Founder | Oxara |
| Alistair Langer | Agent & Companion for System Change | n.a. |
| Ditte Lysgaard Vind | Founder | The Circular Way |
| Simone Mangili | Director | Carbon Neutral Cities |
| Majd Mashharawi | CEO | SunBox |
| Sarah Mineko Ichioka | Founding Director | Desire Lines |
| Prof. Philipp Misselwitz | Executive Director | Bauhaus Earth |
| Noelia Monteiro | Architect | Estudio Flume |
| Elianne Oei | COO | Built by Nature Laudes Foundation |
| Charlie Paton | Director | Sea Water Greenhouse |
| Carlos Pereira | Vice President | Club of Rome |
| Luca Pestalozzi | Architect and Co-Founder | Stücheli Pestalozzi Schiratzki Architects |

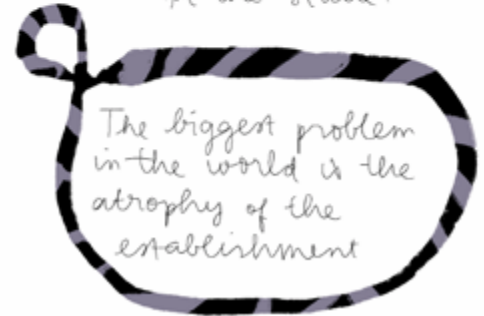
| Name | Position | Organsiation |
|---------------------------------|---|--|
| Prof. Michael Ramage | Professor of Architecture and Engineering | Cambridge University |
| Dr. Mamphela Ramphele | Co-President | Club of Rome |
| Line Ramstad | Founder and Director/Architect | Gyaw Gyaw |
| Gilles Retsin | Architect & Founder | AUAR Ltd |
| Philip Reuchlin | Head of Climate | Pioneers.io |
| Alexandra Robinson | Project Lead | Fraendi & Einhorn |
| Olga Royenko | Co-Founder & Creative Producer | Voice of Space |
| Richard Sabin | CEO | Biotechure & Growing Revolution |
| Prof. Karen Scrivener | Professor | Ecole Polytechnique Fédérale de Lausanne |
| Mikolaj Sekutowicz | Founding Board Member and Vice-President | Therme Group |
| Dr. Merlin Sheldrake | Ecologist and Best-selling Author | Entangled Life |
| Manvendra Singh Shekhawat | Managing Director | MRS Group |
| Frank Sippel | CEO | Real Future |
| Sir Tim Smit | Co-Founder and Executive Vice-Chair | Eden Project |
| Heiko Specking | Founder & Partner | specking+partners / Advisor to TKF |
| Amanda Sturgeon | CEO | Built by Nature Laudes Foundation |
| Sumayya Vally | Founder and Principal Consultant | Counterspace |
| Hester van Dijk | Architectural Designer | Overtreders W + Pretty Plastic |
| Laura Viscovich | Executive Director | Holcim Foundation |
| Chitra Vishwanath | Principal Architect & Managing Director | Biome |
| Josephine von Mitschke-Collande | Eco-Sufficiency Lead | Mercator Foundation / TKF Advisor |
| Natsuko Waki | Senior Investment Writer | Pictet Asset Management |
| Dr. Tassilo Wanner | Chief Strategy Officer | Leko Labs |
| Julia Watson | Director | Julia Watson LLC |
| Alvyn Williams | Founder & Architect | Soft Loud House Architect |
| Dr. Jan Wurm | Ventures Lead Europe | Arup |
| Luca Zerbini | CEO & Founder | Una Terra Venture Capital Fund |

3

NEVER USE
THE WORD
"IF."

USE
"WHEN"

In the world of science, where everyone says their hero is Galileo, they'd actually be those who burnt him at the stake.



Opening Talks

Sir Tim Smit,
Co-Founder of the Eden Project

THINK BIG.

STOP
BEING
SOLD
TO

Sir Tim Smit
Co-founder
of the
Eden Project



The press makes sure "if it bleeds, it leads" you don't hear about the quiet revolutions.

We have a duty to dream big

you know why I work with old people? Because they've known disappointment.

Videos of the opening talks can be found on our website.

Dr. Mamphela Ramphele, Co-President of The Club of Rome

Videos of the opening talks can be found on our website.

We have to trust our capacity to love and celebrate the gift that is us

My talk is exactly about dreaming.

I grow up in a village in North Africa.

everything was made of nature.

every material was treated with reverence

a space of inclusion

meetings, ceremonies, simply being

every adult is your parent

deliberate direct connection to the field

community properties

buildings reflect from communities who they believe they are, their needs, what matters to them



Behind every building in this little town lie the markers of who's included and who's excluded.

When colonial rule establishes itself, everything is done for the elite

the need to pay attention to the ancient wisdom of the generation

"It is impossible to enslave men without making them inferior through and through."

How can any straight thinking human being become an agent to capture the state?

Dr. Mamphela Ramphele
co-president of the Club of Rome





4

Warm Data Lab



Workshop hosts

Joséphine von Mitschke-Collande,
Eco-sufficiency Lead at Mercator
Foundation / TKF Advisor

Heiko Specking, Founder of specking &
partner / TKF Advisor

Workshop objective

Providing and holding the space for personal relationships to happen. An open question is discussed in different contexts. Participants can move around freely from context to context.

Workshop overview

Warm Data Labs are group processes, which highlight interdependency and generate understanding of systemic patterns for people with no previous exposure to systems theory. It is a play for revealing relationships that are integral and woven into the complex fabric of the issues we are working on. The Warm Data Lab process allows participants to see new patterns and causations, as well as to respond to them with a broader comprehension. In this way, the Warm Data Lab enables new responses to complex challenges. The question asked during the Warm Data Lab at TKF22 was: **What is risk in a changing world?**

Key outcomes

The Warm Data Lab process isn't designed for outcomes. Rather, the session encourages a different way of noticing what happened during the conversations and how individual perceptions of telling one's stories changes when moving through different contexts and meeting different people and their stories. During the final sharing, observations were exchanged. People realised that their perspectives changed during the process. Over time, this could lead to a more reflective approach of formulating concepts as well as to anticipating a broader range of possibilities and potential externalities.

5

Panel Discussions

Panel 1: Powerful parameters to encourage regenerative building practice

Panellists

- ◇ **Indy Johar**,
Co-Founder of Dark Matter Labs
- ◇ **Zsolt Kohalmi**,
Co-Chief Executive Officer of
Pictet Alternative Advisors
- ◇ **Amanda Sturgeon**,
CEO of Built by Nature

Chaired by **Will Hunter**,
Founder of London School of Architecture

The video of the panel discussion is available on The Klosters Forum website.

Will
Hunter
Chair,
Founder of
London School
of Architecture



“The Klosters Forum was an incredible gathering of brilliant thinkers who are putting ideas into action. The shared vision among the attendees for a built environment that is regenerative was energising.”

Amanda Sturgeon, CEO at Built by Nature

We are not
using the data
that we have.

We need more
female and
indigenous
leadership.



WHY:

buildings are a
key piece of
solving the crisis
we're facing.

what we can
learn from our
indigenous
communities, who
do not see us as
separate from nature.

what we do to
our country,
we do to
ourselves

Amanda
Sturgeon
CEO of
Built by Nature

HOW

Buildings mean more to us all than just numbers. We spent most of our time in them. Think of how much we all like being here in this cool building today.

Zsolt
Kohalmi
Co-Chief
Executive
Officer of
Pictet Alternative
Advisors

our track record with acting on a global level is quite bad. (Think of how we acted as a world during covid)



We have to
deeply reexamine
how we are in
the world

Control,
ownership,
asset-
classes

When people
say "there's
viable profit,"
that's only at the
expense of
de-growth
and societal
detrimet

By 'beyond
ownership'
I do not mean
rent.

I mean
care
rather
than
consumption.

Indy
Johar
Co-Founder
of
Dark Matter
Labs



WHAT
Climate change
is a symptom
of a failure,
not the failure
itself.

We are locked
in a death
spiral with
each other.

How do we
break that
lock-in?

Panel 2: Reconnecting with nature through the way we build



Panellists

- ◇ Julia Watson,
Designer, activist,
academic and author
- ◇ Erica Blair,
Associate Director at
Burning Man Projects
- ◇ Sarah Ichioka,
Co-Author of Flourish:
Design Paradigms for Our
Planetary Emergency

Chaired by **Hattie Hartman**,
Sustainability Editor
at The Architects' Journal



Chair:
Hattie Hartman

Sustainability editor
at The Architects' Journal

The video of the panel discussion is available on The Klosters Forum website.

WHO
WHERE
WHEN

Well, now.
or better: 30
years ago



I think the most
important technology
of the future is that
which hasn't even
been recognized as
technology yet.

Julia Watson
Designer, activist,
academic, author

from
"someone should
do something about that"
to
"I should do this & that
about that"



Sarah
Ichioka

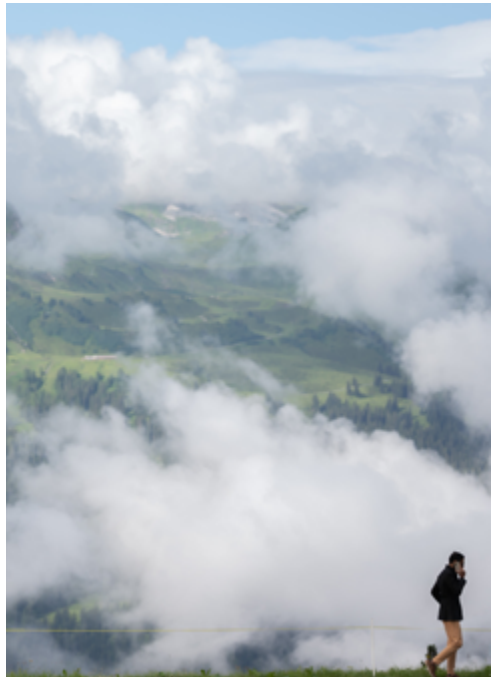
Co-author of
*Flourish: Design paradigms
for our Planetary
Emergency*



Some of the
most inspiring
work in the world
looks like
play.



Erica Blair
Director at
Burning Man





6

Summary of the Workshops

a. Sustainable buildings: investing to tackle the 40% challenge for a climate-resilient future.

Facilitated by Pictet Group

Workshop hosts

Zsolt Kohalmi,
Global head of real estate & deputy CEO,
Pictet Alternative Advisors

Stephen Freedman,
Sustainability & research manager
for Thematic Equities, Pictet Asset
Management

Workshop objective

Coming up with the best ideas to reduce the real estate industry's environmental impact and identifying incentives and obstacles to achieving green buildings.

Workshop overview

Real estate is climate change's **elephant in the room**. The sector not only accounts for around 40 per cent of global carbon emissions, but is also responsible for environmental impacts in water usage, waste generation, pollution and other ecological dimensions on a similar order of magnitude.

Assessing the environmental footprint of buildings requires a comprehensive, life-cycle based approach. Take the time value of carbon emissions for an example. For an average life of a building, up to 45 per cent of total emissions take

place in the first couple of years – or during the construction of a building through the extraction of raw materials, manufacturing, transportation, installation and disposal of supplies. This – otherwise known as embodied carbon – is far more intense than operational carbon, which refers to the amount of carbon emitted once a building is in use.

Given that real estate represents big, interconnected and complex problems, participants have agreed that achieving sustainability in the built environment demands a flexible and situation-specific approach -- one size fits all solution does not work.

Having identified common challenges, participants had wide-ranging and detailed discussions on how to tackle the real estate's environmental problem.

Key outcomes

A few perspectives stood out. The role of nature in the built environment is one.

As renowned Italian botanist Stefano Mancuso says, we are living in nature blindness. Many have agreed on the need to reconnect with nature and rewild cities — which in turn should help reduce the environmental impact of buildings. This includes incorporating natural and regenerative elements into our building designs, experimenting with innovative bio-based materials such as timber and algae and carrying out strategic reforestation, afforestation and other carbon capture methods. In all the rewilding processes, participants agreed that attractively-designed biophilic architecture can be an interface between people and the environment.

Actively discussed also was the notion of “RetroFirst” -- a campaign originally started by the Architects’ Journal in 2019 to prioritise retrofitting existing buildings over demolishing and rebuilding. Given the issue of embodied carbon, building new is not a solution, some participants said, at least in developed economies which already have enough building stock.

Europe needs to retrofit pretty much every building in Europe to make the emission goals.

Most buildings we live in are slums of the 21st century.



In Europe, for example, some 90 per cent of buildings were built prior to 1990 and 60 per cent before 1960. **Studies have shown that refurbishing can achieve 70 per cent less emissions than new constructions given the issue of embodied carbon.**

But this is not to say other parts of the world do not need new buildings. Population growth in Asia, Africa and Latin America means the industry needs customised and equitable solutions which also consider the shared value of society and local communities.

Governments and municipal authorities play a key role in accelerating a move towards sustainable buildings. Participants say they should adopt a carrot and stick approach – incentivising climate and nature-positive companies and projects with tax breaks and smart

subsidies while penalising and regulating the polluting ones. Such policies should help highlight the true financial and social cost of non-sustainable buildings.

Increasing investment in research and development (R&D) should also be a priority to enhance competitiveness, foster innovation and accelerate sustainable transition. **The construction sector is traditionally considered conservative and low-tech due to the lack of R&D investment, which is estimated to be in low single digits as a percentage of revenue, compared with at least 10 per cent for healthcare and IT counterparts.** Here too, tax reliefs – such as the UK's tax credits on R&D activity in the innovative use of green methods -- can help encourage investment in growth and sustainable innovation.

“We’re living in nature and plant blindness”

**Stefani Mancuso,
Botanist**

How can we better democratize existing knowledge?



b. How to scale timber buildings that regenerate sustainable forestry and local economies?

Facilitated by Built by Nature

Workshop hosts

Moderator:

Amanda Sturgeon,
CEO at Built by Nature

Facilitator:

Prof. Philipp Misselwitz,
Executive Director at Bauhaus Earth

Facilitator:

Simone Mangili,
Director at Carbon Neutral Cities Alliance

Facilitator:

Scott Francisco,
Co-Founder & Director, Cities4Forests

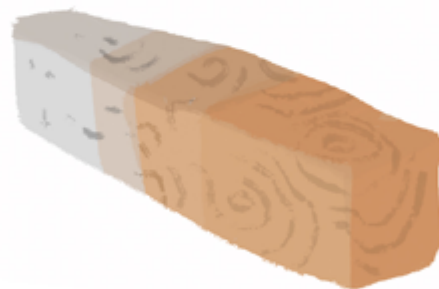
Workshop overview

The workshop was facilitated by four key partner organisations in this space: Built by Nature, Bauhaus Earth, Carbon Neutral Cities Alliance and Cities4Forests. The session started with an introduction from Amanda Sturgeon, who highlighted that Built by Nature is a network and grant-making fund that is focused on accelerating the use of sustainable timber in construction to realise carbon, biodiversity, community and health and wellness benefits.

Workshop objective

The focus of the workshop was to explore the strategic interventions and policies needed for cities to scale timber buildings that regenerate sustainable forestry and support local economies. Building with timber, a critical solution to achieving 1.5 degrees targets, will radically reduce embodied carbon; safely store carbon in our buildings for generations; and sequester carbon by championing forest stewardship and regeneration.

We need to start replacing concrete.



The main portion of the session aimed to leverage the collective wisdom and experience of the attendees by convening into three breakout groups to answer the following questions:

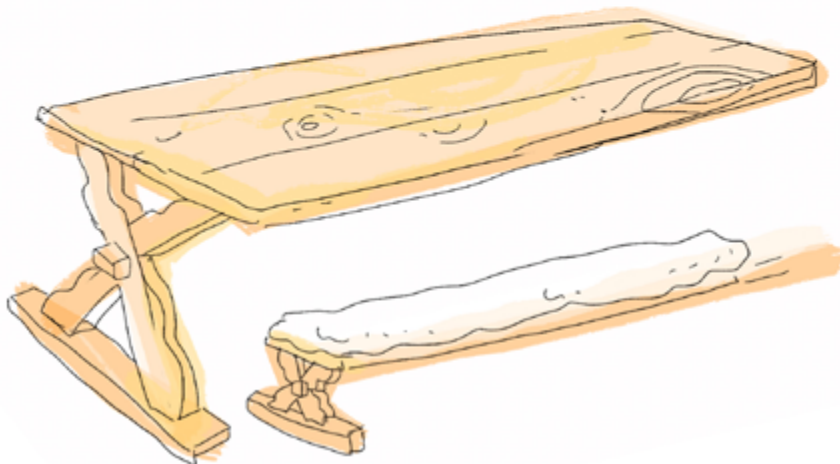
- ◇ How do we create a pan-EU movement for timber and bio-based materials across cities and local actors, and quickly? – moderated by CNCA
- ◇ How do we create sustainable timber and bio-based buildings that re-forest and regenerate, not de-forest? – moderated by Cities for Forests
- ◇ How do we move the built environment sector as a whole towards a regenerative approach that creates abundance and positive outcomes, rather than destruction, for ecologies and communities. – moderated by Bauhaus Earth

Key outcomes

There were three key themes discussed during the workshop: the timber narrative, engaging cities, and enticing industry.

It was identified that there is a need for a clear cultural narrative around timber and forests to encourage (urban) people to care. It was felt that the stories currently being told were 'too dry', despite timber having an amazing narrative that could be amplified. The group was adamant that we do not necessarily need trees in our cities, but we do need to make sure urban residents are aware, conscious of, and actively thinking about forests. **This will be essential in not only building confidence in increased use of these regenerative materials to construct our cities, but also in protecting our forests and supporting the growth of rural economies.** Using storytelling as an effective educational tool will require targeted strategic communications with tangible examples that can be showcased and amplified.

wouldn't it be amazing
if it was written on
this table where the
wood came from? Where
it was made, and when?



Other discussions addressed the need to challenge cities. It was identified that technical knowledge in public sector organisations is particularly challenging to induce change. This was believed to be because existing zoning and building codes are often framed at the national level and city offices do not have the capacity, or political support, to challenge them and enable them to evolve. It would be particularly helpful to train sustainability facilitators that can engage within this tough stakeholder group, potentially building momentum through the use of demonstration projects. Another helpful aspect would be to move from prescriptive regulation to performance-based regulation to overcome some of the challenges.

Within industry, the group felt there was a clear need to raise general awareness across a range of stakeholder groups: designers (architects, engineers and consultants), builders (construction and supply firms), investors (funds and developers), insurers (brokers and providers), and consumers (clients and owners). Challenges related to the availability of materials, as opposed to other readily available materials, were highlighted as one of the perceived

barriers for these groups. It was believed that the focus should not only be on timber, but also on the adoption of bio-based materials in general, as well as widening the scope of the challenge to not just new construction projects, but also retrofits, to unlock this potential.

Open source testing of materials could lead to the development of knowledge hubs, which would facilitate the growth of coalitions for change. Other aspects considered included focusing on developing carbon target schemes based on tax/fee structures to fully induce system-wide change.





During the Built by Nature workshop we explored systemic solutions to scaling regenerative solutions to buildings that result in ecological and community benefit. We outlined solutions for the connection of cities and forests and gained a shared understanding of the shift we need to make to connect buildings and nature.

Amanda Sturgeon, CEO at Built by Nature

c. The quest for new building materials & the role of nature.

Facilitated by The Klosters Forum

Workshop hosts

Joséphine von Mitschke-Collande,
Eco-sufficiency Lead at Mercator
Foundation / TKF Advisor

Heiko Specking,
Founder of specking & partner /
TKF Advisor

materials for building and renovation purposes. Particularly, we looked at the importance of introducing different innovation processes in order to identify new or long forgotten approaches for the built environment.

Workshop objective

Nature provides for us; but only when we follow regenerative principles.

This workshop tackled the question: **what can we learn from nature about new or long forgotten materials for construction?** Which of these differently sourced building materials can we use and how can we introduce them as today's best building practices?

Workshop overview

During an interactive conversation between Merlin Sheldrake, Ditte Lysgaard Vind and Gnanli Landrou, all panellists introduced their own practices and findings in respect of building materials and its importance in relation to nature. We addressed the broader scope of what it means to introduce different innovative



“We shape
our buildings;
thereafter they
shape us.”

Winston Churchill in 1944

Merlin emphasised the importance of fungi as a valid and very practical contribution in building, but furthermore he introduced new perspectives to something that lives “out of sight” but which has the potential to inspire us about new forms of governance, notions of individuality and the role of aesthetics. Ditte, being a circular economy and design expert, presented the concept of innovation by remembrance, stressing the importance of historic design concepts. She showcased a multitude of examples of how materials such as hemp, algae or recycled beer crates can be used. Gnanli, co-founder of OXARA introduced the audience to the cement-free admixture technology that his company has developed and which transforms waste into an environmentally friendly and cost-effective building materials which enables the building of affordable housing. Furthermore, he highlighted the role of cultural contexts and the importance to integrate them into design processes.

Key outcomes

The panellists stressed that the introduction of circular principles is crucial for the transition to regenerative approaches within the building sector. In particular opening up to new perspectives regarding innovation processes related to material development and usage. There is still a lot to learn, especially as we are faced with a very large-scale material shortage for the near future.

All agreed that introducing new or “unusual” materials within the building sector is still challenging, in particular getting the whole building ecosystem on board for using them and enabling the deployment of novel techniques at scale. **Regional and socio-cultural perceptions, as well as historical contexts have to be fully integrated in the implementation process in order to gain full acceptance.**



d. Wellbeing infrastructure: a call for a new evidence-based approach towards built environments.

Facilitated by Therme Group

Workshop hosts

Mikolaj Sekutowicz,
Co-Founder & Vice President of
Therme Group

Sumayya Vally,
Architect, Founder and Principal of
Counterspace

Workshop objective

For TKF22 Therme Group and the One Health Research Centre hosted a workshop highlighting the power of urban development through Wellbeing Infrastructure that integrates health-promoting, regenerative architecture. The workshop was part of the host's year-round programme comprising discussions, working groups and research projects that bring together

multidisciplinary experts and progressive leaders from the fields of climate science, environmental conservation and architecture to initiate actionable plans toward a realisable Wellbeing City. Prior initiatives in the programme include a paper presented by the One Health Research Centre at COP26, titled From Building to Growing Cities: A Position Paper on how climate-positive and health-promoting economic growth can be achieved by integrating nature-based solutions into the building code.

I have seldom met such a wide range of stakeholders from the construction sector sharing the same understanding on the emergency of the situation and the need to act for implementation of positive transformation of the planet and society.

Prof. Guillaume Habert, Professor for Sustainable Construction at ETH -



Workshop overview

The workshop elaborated on the consideration that, in the present day, the amount of human-made mass exceeds all the living biomass on earth, notwithstanding that humans constitute only 0,01% of the mass of all living beings on the planet. As such, the workshop revolved around the necessity to comprehensively rethink the ways in which we create our built environment, with a strong focus on sustainable and regenerative practices.

In his introduction, Mikolaj Sekutowicz invited participants to think about buildings across their full lifecycles and to envision the possibility of implementing measures by which the full impact of a building is to be accounted for. Participants were then invited to discuss examples of buildings and architecture they considered to have successfully established a symbiotic relationship with the natural environment. Discussions focused on topics of materials, integration into nature, landscape context and disintegration over time.

We need to ask ourselves if the world around us is being made in our image and if it isn't, whose image is it being made of?

Sumayya Vally

Sumayya Vally presented on the importance of considering representation in architecture and built environments, to reflect the diversity of perspectives of the people inhabiting them. She discussed the influences of the cultural richness and plurality of Johannesburg on her work, including the 2021 Serpentine Pavilion, and the urgency to create structures that concurrently honoured voices from across time, and reflected who we are in the present.

As a follow-up activity, participants discussed examples of buildings that succeeded in creating a fair and inclusive social context. Examples were drawn from around the world and history, and included: living root bridges of India, a bamboo theatre designed by Xu Tiantian, Scandinavian examples of suburban housing and Mediaeval hill cities such as San Gimignano in Italy, among others.

Sumayya Vally

"always read beneath the surface"

"listen deeply to these silences"



Key outcomes

The workshop brought together professionals of diverse backgrounds, from urban development, architecture and beyond, and resulted in a fruitful discussion that focused on long-lasting nature-based solutions that are not just carbon negative but also climate positive.

The workshop's participants put forth various cross-cultural examples of regenerative built environments: from the mud architecture of the Great Mosque of Djenne, which melts during each rain season and is then rebuilt with the citizens' communal effort, to large-scale vertical farm projects proposed to replace unused Berlin motor highways. Such references show structures and communities where symbiotic solutions are already being applied and from which we can build our understanding of regenerative and sustainable urban development and architecture.

The Wellbeing Infrastructure: A Call for a New Evidence-based Approach Toward Built Environments workshop showed that in order to achieve comprehensive and long-lasting solutions we need to consider cultures and projects already operating with non-canonical understandings of the built environment. With more holistic and cross-cultural tool sets and strategies implied, we can successfully integrate innovative solutions into architecture, infrastructure frameworks and culture at large for a global impact.

What can we
learn
from Mars?



All life on our planet lives in a symbiotic relationship with one another.

Mikolaj Sekutowicz

e. Collective intelligence: how to promote the layering of solutions for system transformation?

Facilitated by Holcim Foundation

Workshop hosts

Laura Viscovich,
Executive Director, Holcim
Foundation for Sustainable
Construction

Maria Atkinson,
Chair, Holcim Foundation for
Sustainable Construction

Collective
Intelligence



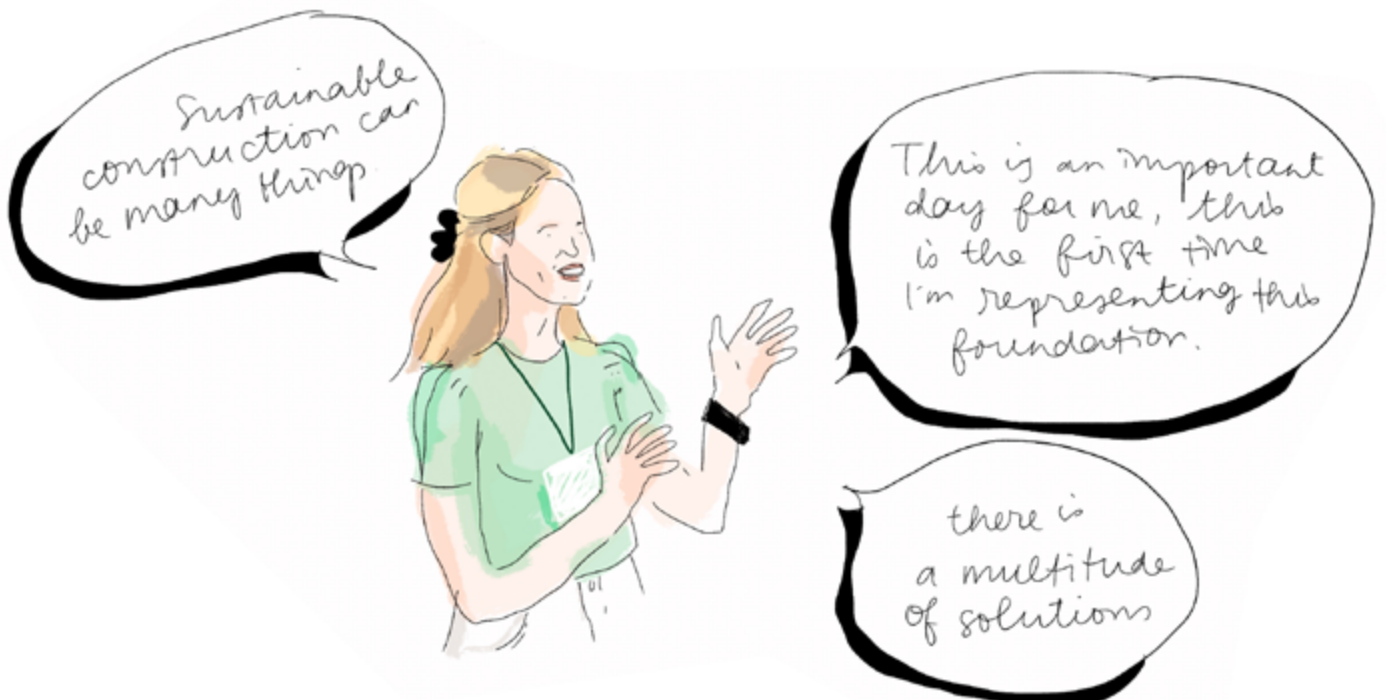
How to promote the
layering of solutions
for system transformation?

The Klosters Forum was a tonic of humanity, nature, beauty and inspiration, just when and where it was most needed!

Scott Francisco, Co-Founder, Cities4Forests

Workshop objective

The Holcim Foundation for Sustainable Construction is a pioneer of the sustainable design and construction movement, having served as a beacon of thought leadership for the building industry since 2003. After 18 years in existence, six international awards cycles and over 50 publications, the Foundation is evolving its strategy to help accelerate systems change in the built environment. The Foundation is convinced that thought leadership and cutting-edge solutions are indeed wasted if not understood, mainstreamed, and implemented to deliver real world impact. The objective of this workshop was to gather input on the Foundation's expression of its goals for sustainable construction and to discuss ideas for democratising the vast body of knowledge that exists both within the Foundation and within partner organisations.



Workshop overview

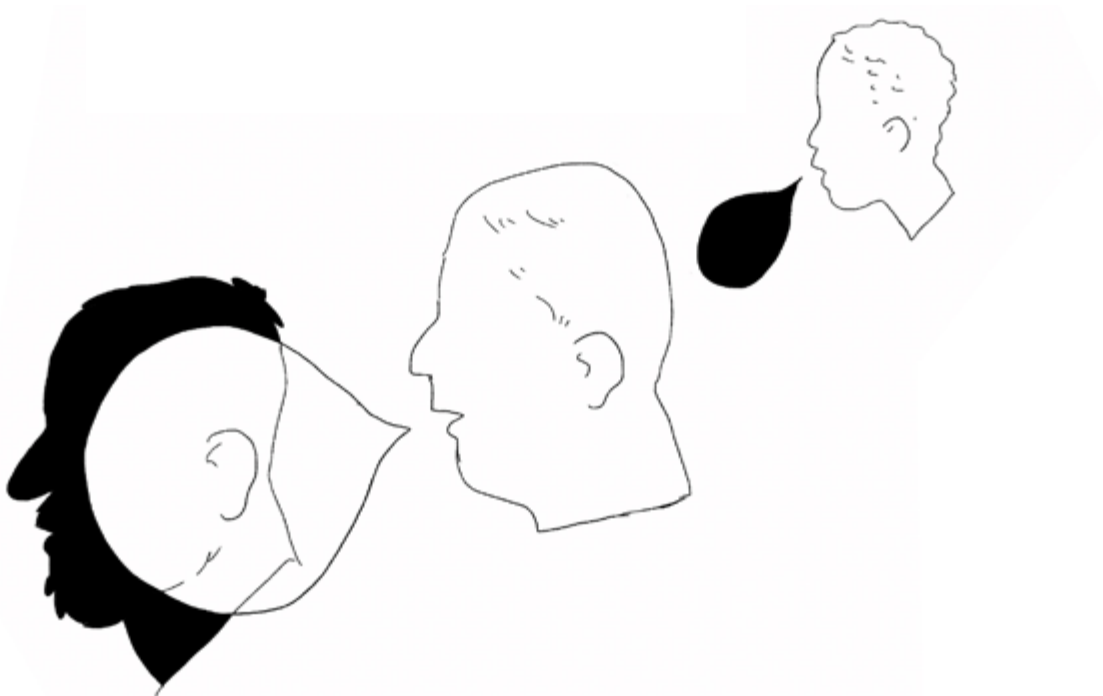
This workshop was structured into three parts.

Firstly, Laura briefly shared the purpose and achievements to date of the Holcim Foundation. She then showed how the themes of the winning projects selected by independent juries for the Holcim Awards for Sustainable Construction have evolved over the years. Looking at the focus topics per region showed that topics such as emissions reduction, resource management, and affordable housing became more prevalent in winning projects from 2014 onwards, with the 6th cycle (2020/21) highlighting additional topics of materials re-use, ecosystem regeneration, and restoration and land-use. Maria then shared examples of winning projects from the 4th cycle (2014) including an exemplary project in Medellín, Colombia that made use of disused water reservoirs to

turn a place of neglect into a place of hope, foregrounding the value of water as an important resource of urban life. Participants were then asked to discuss and share their reasons to be hopeful with regards to the transformation of the built environment.

The next part of the workshop focused on the Foundation's revised expression of its historic goals for sustainable construction, and the principles that guide the Foundation's work. Participants were invited to share their feedback and suggestions.

The final question debated by participants was how to collectively democratise existing knowledge.



Key outcomes

Workshop participants identified several reasons to be hopeful about the capacity to design and build a regenerative future:

- ◇ The collective consciousness regarding the need to act now is growing;
- ◇ Younger generations are more engaged than previous generations;
- ◇ Rallying behind the cause has been accelerated by a global context that has hit people's pockets: first Covid, now the Ukraine War and the increased cost of energy. People are paying attention to energy performance in their homes, and this drives a new level of awareness;
- ◇ There are more examples of interdisciplinary collaboration, and this is growing;
- ◇ Businesses are changing their approach to sustainability – it is no longer a “nice to have” but business relevant;
- ◇ Demand side is changing, investors are integrating sustainability into their evaluation criteria and we see more investment moving into this space;
- ◇ Policy: Green Deal is a positive development – but national policies often remain on paper. There is a disconnect between policy makers and the population, highlighting the need for improved communication.

Inspiring and energising convergence of open minds linking the global context of challenges conveyed through incredible well curated panel discussions with insights on local and specific solutions gathered through the individual dialogues and perspectives from across the entire construction ecosystem.

***Dr. Jan Wurm, Ventures Lead Europe / EU
Engagement Lead at Arup***



Workshop participants generally agreed with the Holcim Foundation's goals for sustainable construction and provided useful insights to complete the language used. The goal of finding the right balance between immediate financial feasibility and long-term circular value creation is highly relevant, yet incredibly hard to achieve given the current premium on pricing of sustainable and regenerative solutions.

Workshop participants identified several ideas and thoughts on democratising existing knowledge:

- ◇ Promote transparency: share the things that don't work, lessons learned; open up patents, encourage more open-source information platforms;
- ◇ Knowledge requires the user perspective to ensure the full story is told;
- ◇ It takes time to measure impact, analyse and communicate the positive outcomes and impact on stakeholders;
- ◇ For public projects there should be transparency regarding the amount of public money spent and ongoing evaluation of projects;
- ◇ In order for the public to appreciate sustainable construction, create new narratives and use new channels (e.g. movies);
- ◇ Harness the energy of young people (activism acceleration);
- ◇ Blockchain opens up more opportunities;
- ◇ Provide educational material on open-source platforms such as Coursera.

The Klosters Forum is a place for open and deep conversations on the future of the environment.

Chitra Vishwanath, Managing Director of Biome Environmental Solutions



f. A civilisational look at living spaces.

Facilitated by The Club of Rome

Workshop host

Carlos Alvarez Pereira,
Vice President of The Club of Rome

Workshop objective

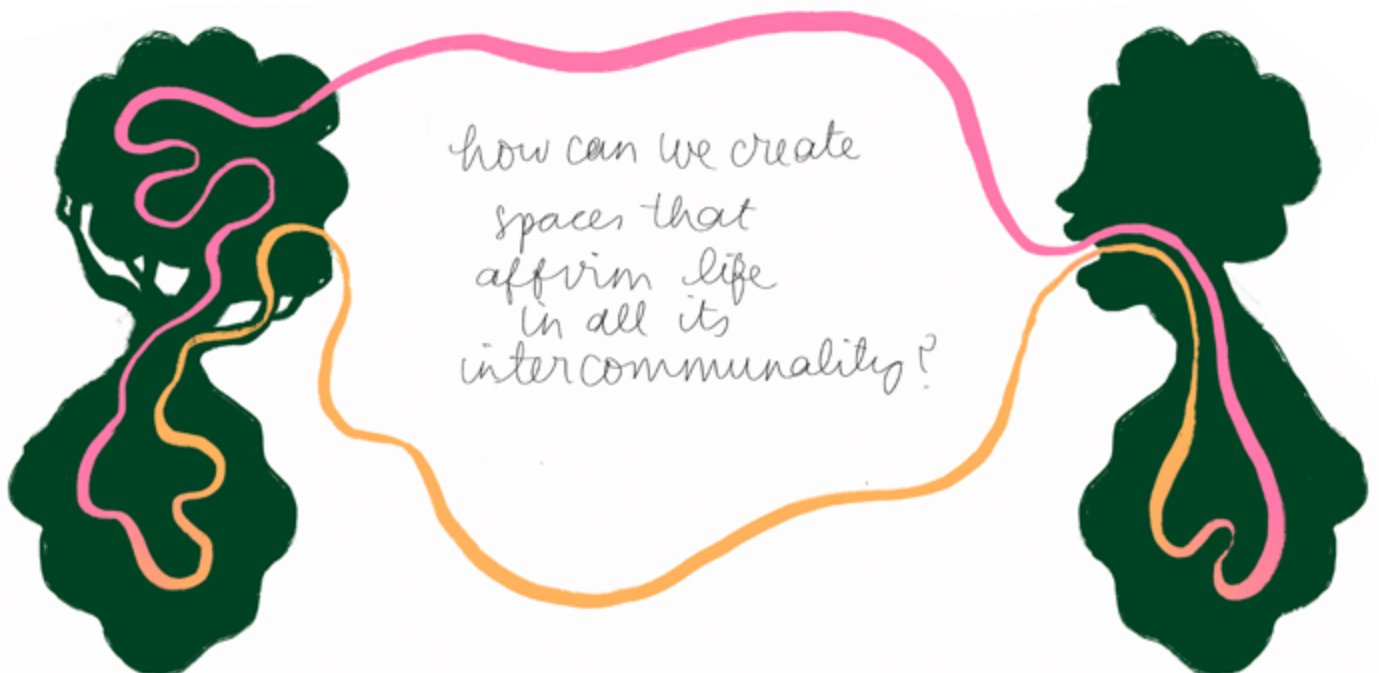
Widen the perception about the existential challenges of humanity, by inquiring into the way we frame our relationships to land and life. Introduce ongoing inquiries by The Club of Rome and spark conversations and debate among participants.



Workshop overview

This workshop is part of The Fifth Element program of activities led by The Club of Rome. The program intends to catalyse the emergence of a Human Revolution, meaning by such a mental shift in the way we frame our relationships with other humans, with life and with time, in order to take responsibility for the consequences of our actions. The Fifth Element assumes that learning from Life is required and no real learning happens until we have changed. Moreover, change cannot be purposefully pursued in a linear manner, it has to emerge by itself through embodied processes of learning. Hence the whole workshop is

structured around our capacity to unveil blind spots by asking better questions and forgetting usual scripts to explore real conversations towards collective learning. In resonance with the overall theme of The Klosters Forum 2022-2023, questions are focused on how modernity has evolved our perception of land and living spaces, in a manner increasingly disconnected from biophysical realities. It addresses as well the perspective of new paradigms, in particular in the context of the evolution of Africa in coming decades.



Key outcomes

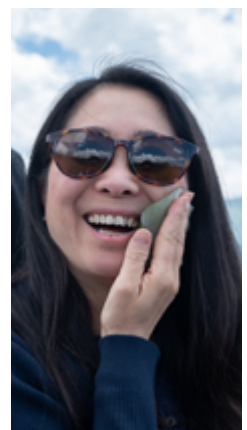
- ◇ A visible state of commitment to the learning process initiated.
- ◇ A number of insights nurturing further conversations about pathways to equitable wellbeing within a healthy biosphere.
- ◇ Some hints to new definitions of concepts taken for granted (such as “assets”).
- ◇ Sketches of decolonial perspectives on Africa and Afro-European relationships.
- ◇ Some elements for the onset of a co-creative community.

“I felt energy, enthusiasm and commitment in the room. People reconnected from their own humanity and engaged in uneasy but warm conversations. It was the magic of The Klosters Forum in action”

Carlos Alvarez Pereira

Vice President, The Club of Rome







Needs & Leads Session

Workshop host:

Reto von der Becke,
Owner and CEO of VDB Group

On the second day of TKF22, the “TKF Needs & Leads” session returned to great effect. After the successful introduction of this platform two years ago, we again offered TKF Participants the opportunity to present their “needs” to the group in two-minute pitches. At TKF22, 24 people did so. Any audience members who knew of “leads” that could be promising for those who shared their needs wrote down their contact information and a brief description of their leads for the presenters. TKF Participants were encouraged to follow up on these connections within 48 hours of the Forum.

The TKF Community is strongly connected by a sense of common

purpose, a mutual desire to help each other, and the shared determination to make real progress on the important topics they convene at TKF to tackle. This session gives TKF Participants the chance to ask each other directly for support in a confidential and trusting environment, as well as the opportunity to channel their resources and their willingness to help into real collaborations with their new contacts. It allows TKF Participants to leave the Forum with more than a stack of business cards and a sense of hope. We connect specific individuals around specific projects and challenge them to make plans right away.





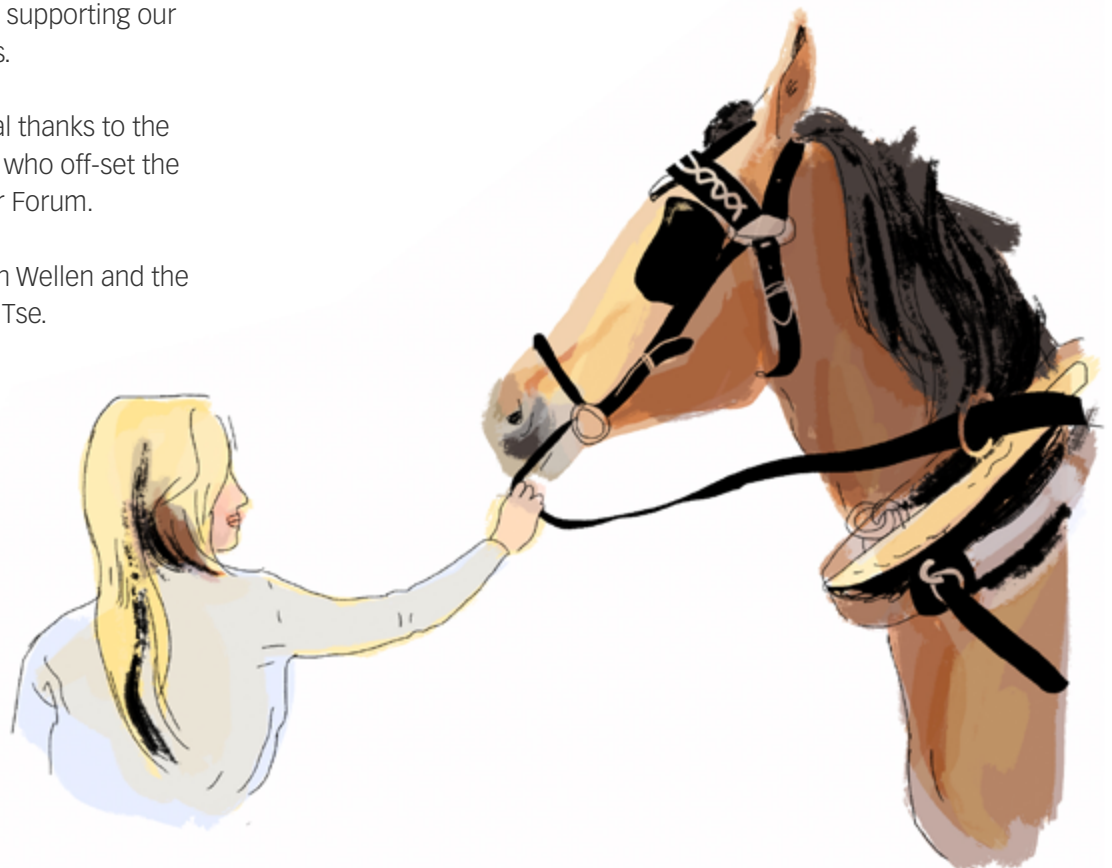
Thank You

TKF22 would not have been possible without the help of our partners, supporters, advisors, TKF Patrons and Friends, moderators, ambassadors, team and volunteers. A big thank you to you all!

We would also like to thank the Gemeinde Klosters for supporting our endeavours in Klosters.

TKF22 is carbon neutral thanks to the support of South Pole, who off-set the carbon footprint of our Forum.

The illustrator is Menah Wellen and the photographer is Julian Tse.



9

TKF23

**TKF23 will take place on
27-29 June 2023.**

We will convene a selected group of key stakeholders to continue the important conversations of TKF22; to discuss and collaborate on new approaches to designing and reimagining a built environment at one with, rather than at odds with, our natural environment.

We continue to maintain and promote the TKF Community of the previous topics after they cease to be the biannual focus topic through a number of channels, including TKF side events and the TKF Podcast series. Details of these can be found on [The Klosters Forum website](#).



Rarely have I had so many searching, spirited and stimulating conversations in such a short period of time. I left Klosters on a wave of energy, ideas and optimism.

Russell Galt, Head of Urban Alliance at IUCN

keep this
momentum!

welcome@theklostersforum.com

