



# Methods and Tools Used in Global Cooling Watch and Global Cooling Pledge Progress Report

Omar Abdelaziz, Ph.D.

The American University in Cairo



# Agenda for Global Cooling Initiatives

- Methods for Monitoring Cooling-Related Goals
- Tools Used in Global Cooling Watch
- Tools Used in Global Cooling Pledge Progress Report
- Consistency in Tracking and Its Importance



# Data Collection Techniques

## **Quantitative Approaches**

Quantitative data collection techniques include methods such as surveys, questionnaires, and industry reports focusing on numeric values.

## **Qualitative Approaches**

Evaluation of policy tools and developing estimates of how countries are advancing their sustainable cooling agenda.

## **Combining Techniques**

Effective data collection often involves combining both quantitative and qualitative techniques for comprehensive insights.

# Tools Used in Global Cooling Watch





# Filling a Questionnaire through Desk Research

## Questionnaire design

The questionnaire needs to capture all the required aspects of the cooling policy landscape in different countries

## Implementation through desk research

Researchers worked on filling the questionnaire through desk research based on published policies and information

## Validation

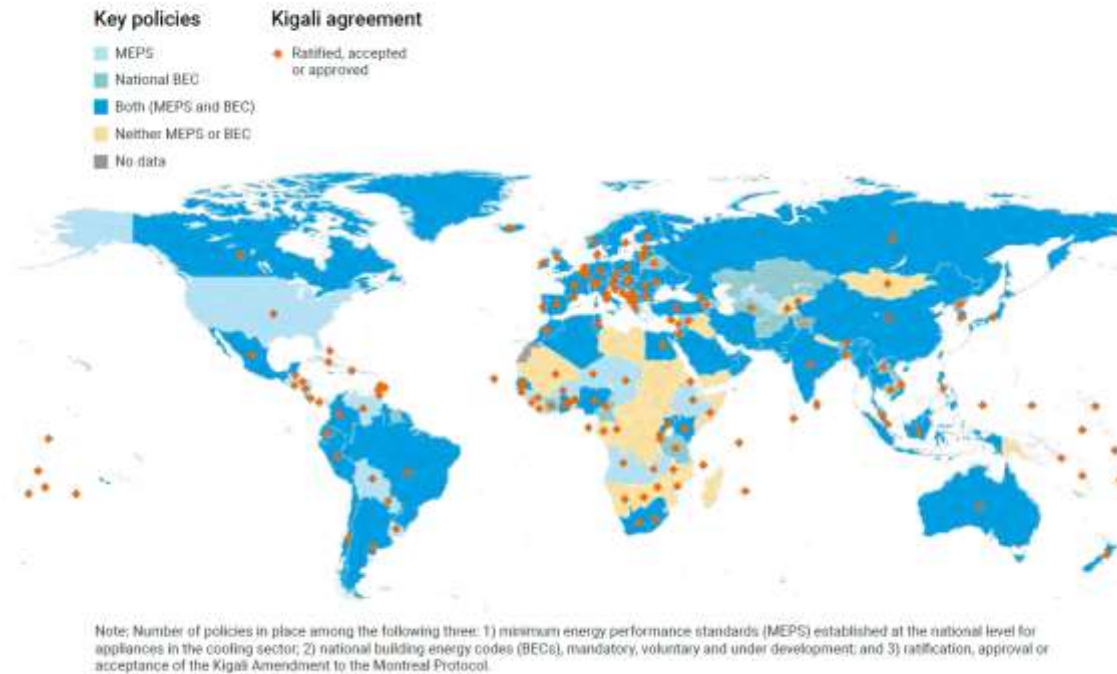
An effort was made for validating the results with the focal point – not 100% successful

## Caveat

Not all researchers/policy makers understood the questions for their face value – this resulted in challenges with interpretation

# Data Management and Visualization Software

Figure ES-2: Distribution of critical national policies to lower cooling emissions across countries



## Effective Data Analysis

Data management software enables efficient data analysis, helping organizations make informed decisions based on accurate information.

## Visualization of Trends

Visualization tools help stakeholders identify trends and patterns, providing insights into the effectiveness of cooling initiatives.

## Stakeholder Engagement

Effective data presentation enhances stakeholder engagement by making complex data understandable and actionable.

# **Global Cooling Pledge Progress Report**





# Filling a Questionnaire through Communications with the Focal Point

## Questionnaire design

The questionnaire design was improved based on lessons learned from Global cooling watch exercise

## Communication with GCP

To ensure accuracy and timely response, questionnaires were pre-populated using the Global Watch Report data, and updated and filled through communications with the GCP focal point

## Challenge

Slow response from GCP signatories, resistance due to the length of the questionnaire and the level of details

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# Consistency in Tracking and Its Importance



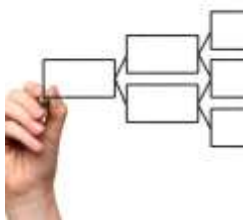
## Importance of Data Accuracy

Data accuracy is critical for effective decision-making processes across various sectors and industries.



## Validation Processes

Implementing rigorous validation processes ensures the data collected is reliable and trustworthy.



## Standard Methodologies

Using standard methodologies aids in maintaining the integrity of data and improving data quality.

- The Global Cooling Watch (GCW) is updated on biennial basis – important to ensure that reporting is consistent
- The GCP has 16 commitments, tracking its progress requires
  - Rigorous framework
  - Data transparency
- The GCP modeling is a subset of GCW modeling – need consistency between GCP and GCW

# Unpacking the Global Cooling Watch: Evolving Data & Trends

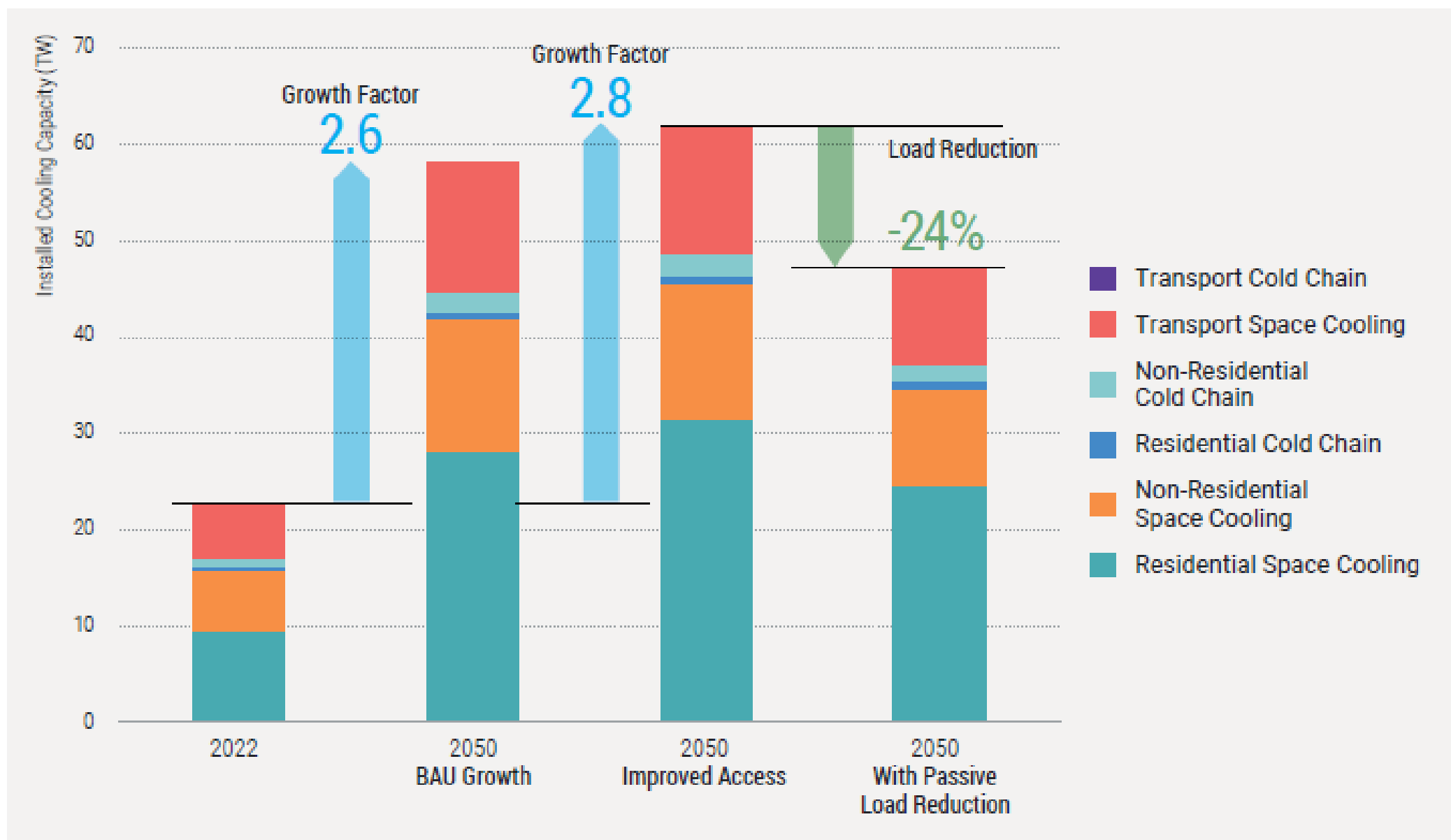
Presentation to

**Future of Cooling Webinar**

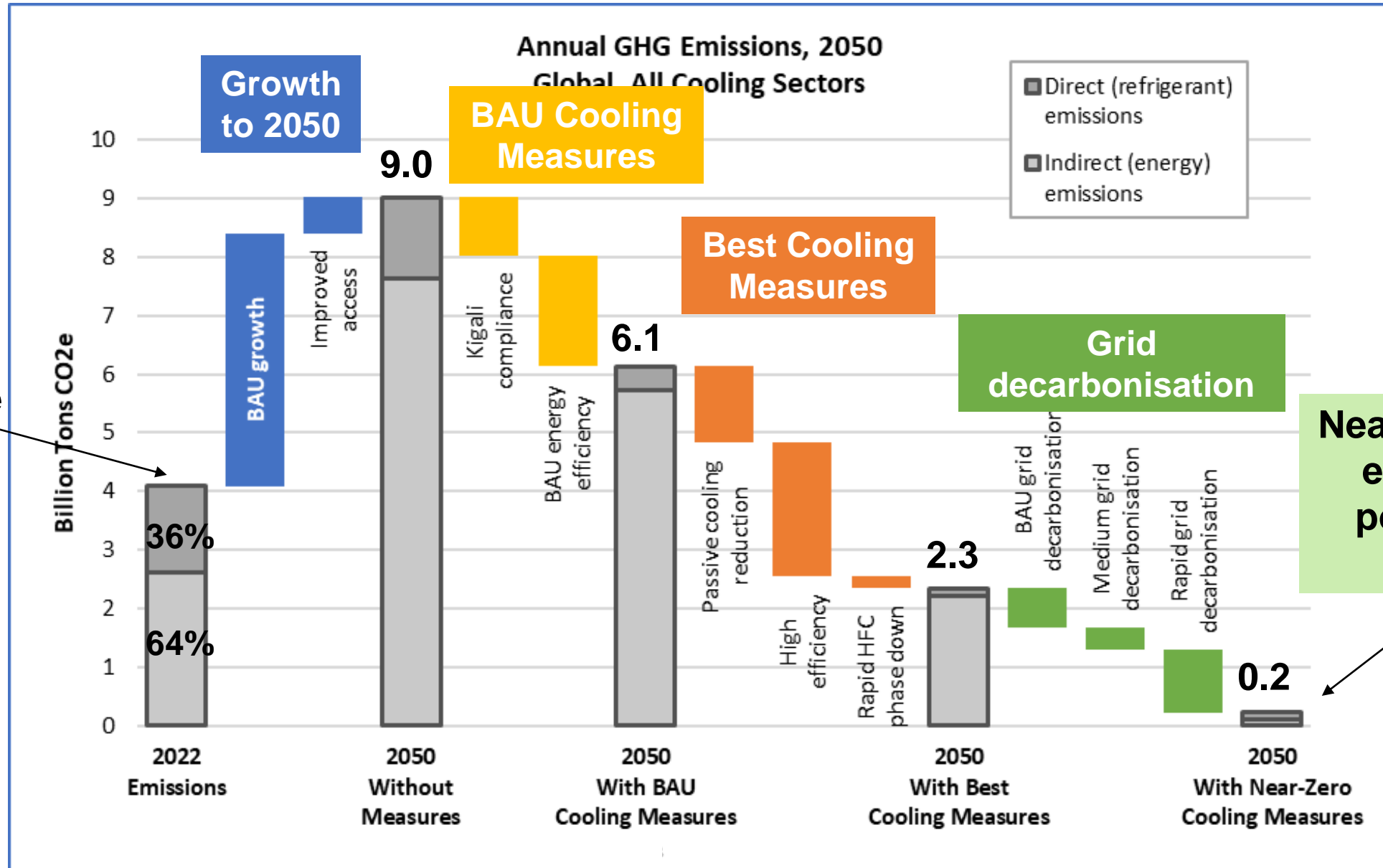
March 2025

by Ray Gluckman

# Cooling Equipment Stock Growth



# Global GHG Emission Reduction Potential for RACHP

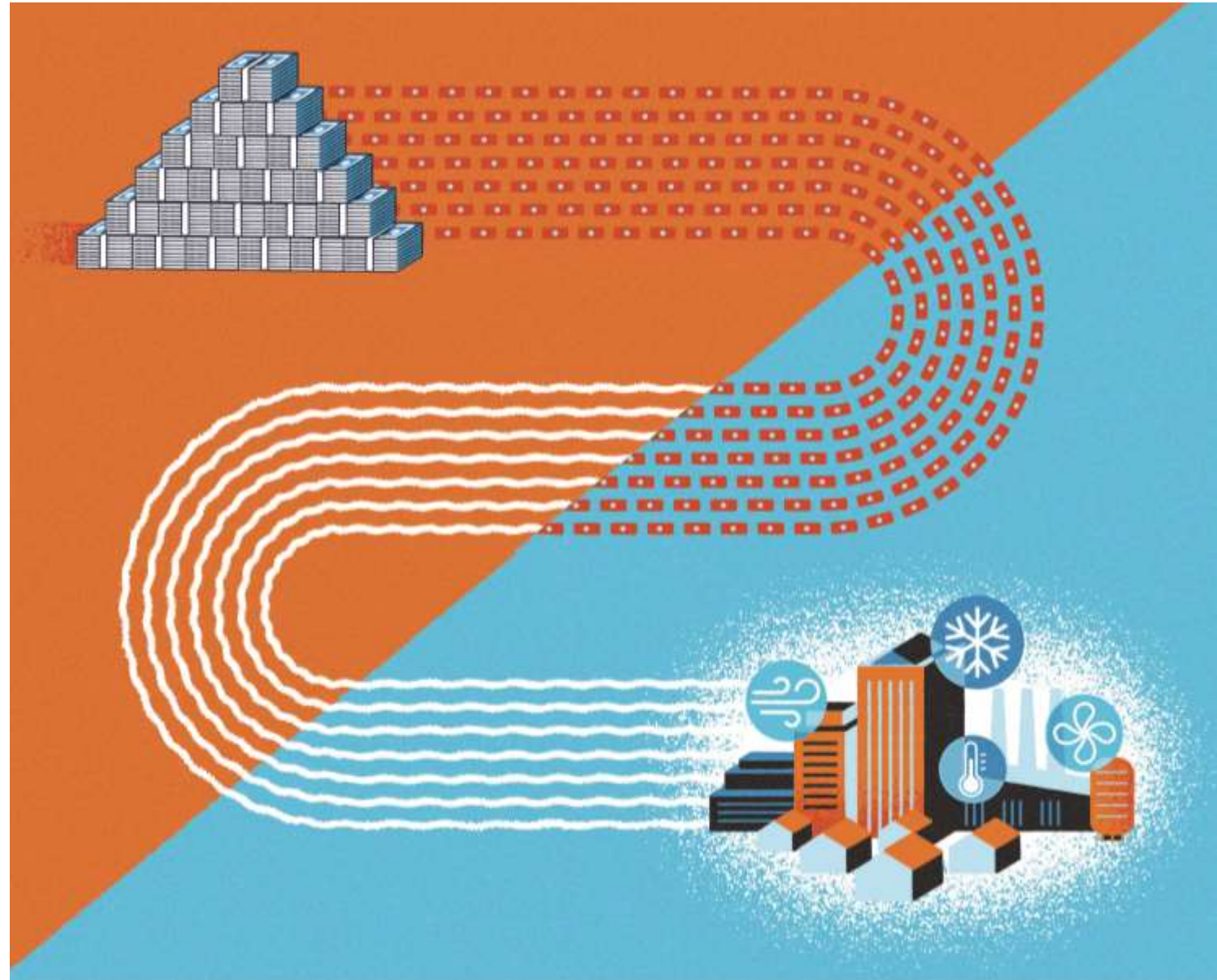


4.1 billion tons CO<sub>2</sub>e in 2022

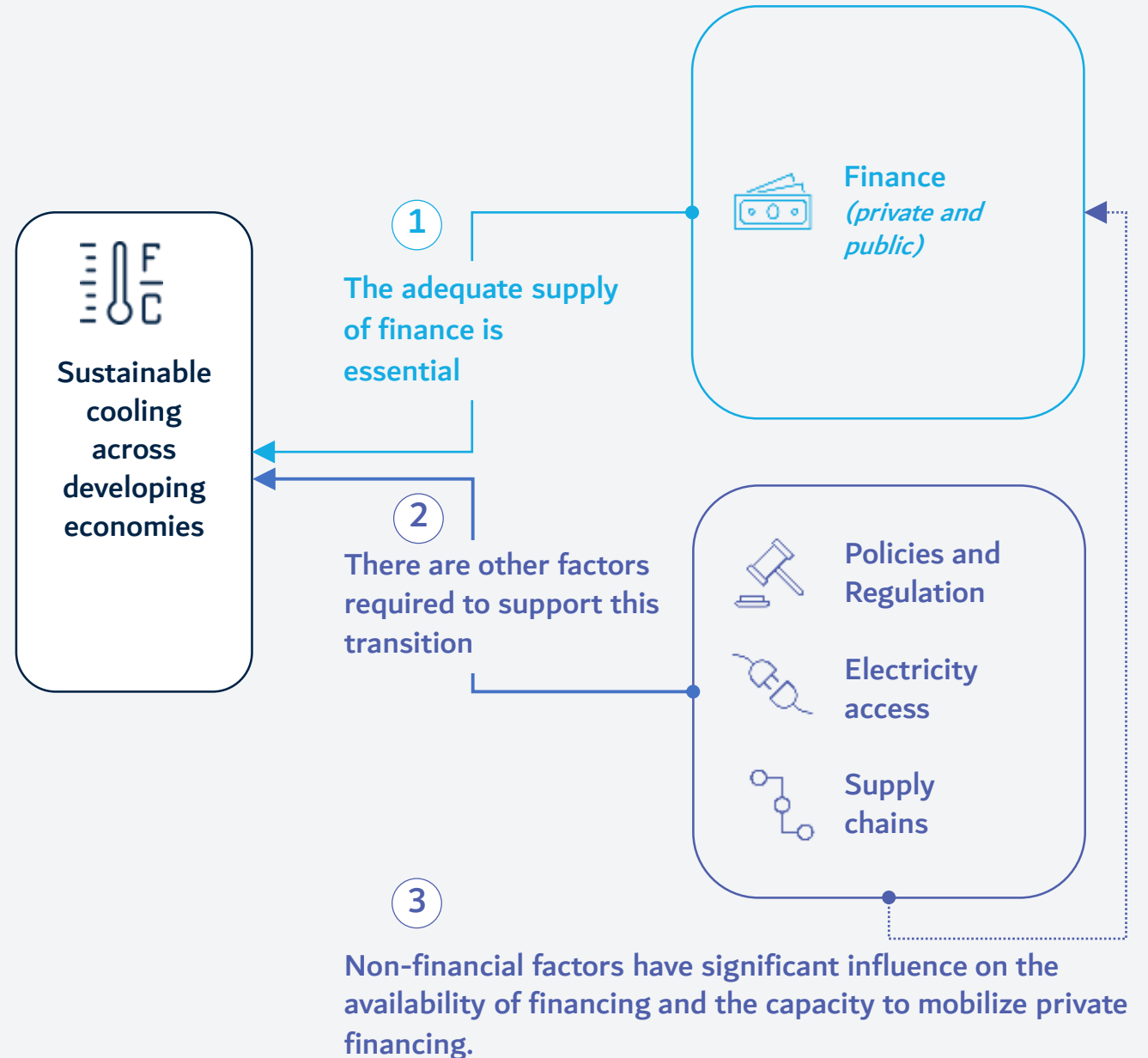
Near-zero GHG emissions possible in 2050

# COOLER FINANCE:

Mobilizing Investment  
for the Developing World's  
Sustainable Cooling Needs



# Private Finance is Essential for the Transition to Sustainable Cooling, but Finance is Not Enough



# When it comes to Financing Sustainable Cooling: No Size Fits All!

The design of business models and financing instruments must consider:

- ① Consumers' financing needs and characteristics
- ② Providers' financing needs and characteristics
- ③ Local market context



## ④ Business model Examples:

- ▶ Direct purchase
- ▶ Asset/property-linked financing
- ▶ Vendor financing
- ▶ Pay-As-You-Go (PAYG)
- ▶ Cooling-as-a-Service (CaaS)
- ▶ Cash for coolers
- ▶ Bulk procurement
- ▶ On-wage financing
- ▶ On-bill financing
- ▶ ESCOs/ DESCOs

## ⑤ Financing instruments Examples:

- ▶ Revolving fund
- ▶ Results based finance
- ▶ Conventional equity
- ▶ Conventional loan
- ▶ Risk sharing
- ▶ Performance guarantees
- ▶ Blended finance
- ▶ Public finance
- ▶ Working capital loan

# Business Models to Address...

## Cooling Consumers' Affordability Constraints:

- ▶ On-Bill Financing and On-Wage Financing



## Cooling Providers' Financial Constraints:

- ▶ Pay-as-you-go



- ▶ Bulk procurement, ESCOs, CaaS

# Business Models: Cooling-as-a-Service

**Koel Fresh:** small solar-powered cold rooms across major areas in Rourkela, India.



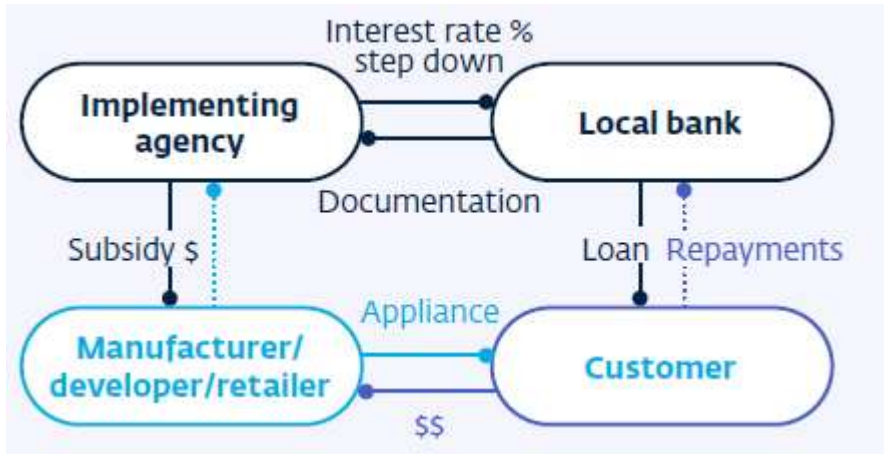
**SokoFresh:** CaaS model in Kenya with energy-efficient cold storage.



**ColdHubs:** solar powered pay-as-you-store model for small-scale operators in Nigeria.



# Financing Instruments: Results-Based Financing



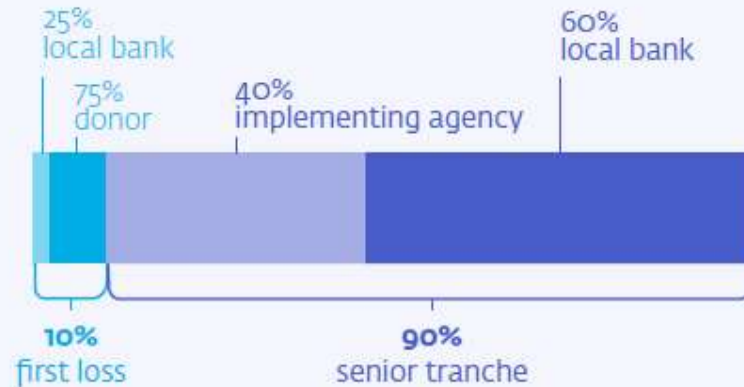
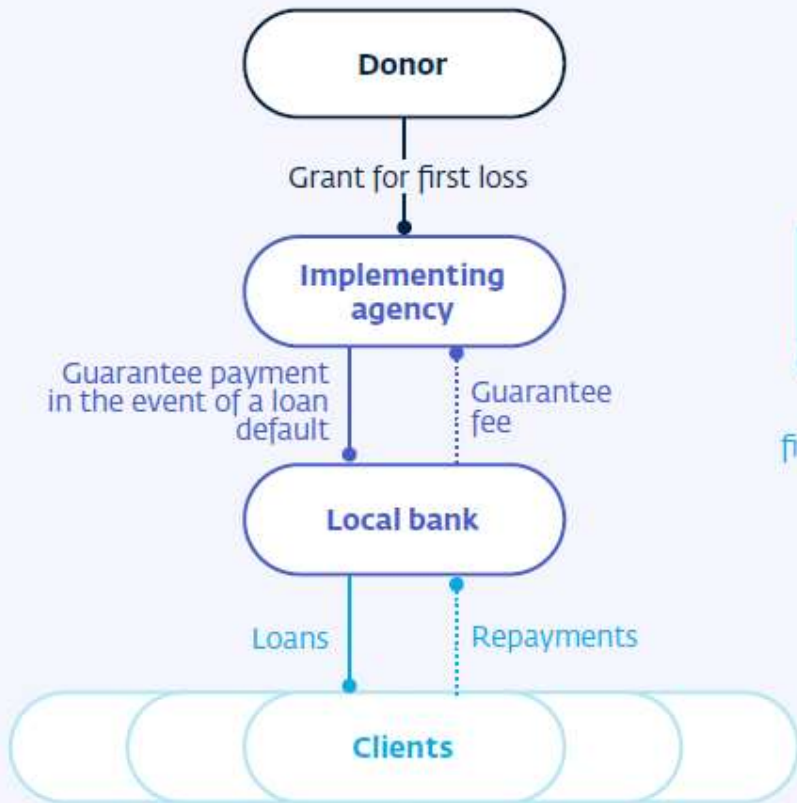
## SEforALL Universal Energy Facility

- ▶ Eligible for cooling.
- ▶ The fund offers a fixed subsidy for mini grid installation and covers part of the costs of standalone solar installations for productive costs.
- ▶ These can be used for sustainable cooling technologies for commercial activities.

UNIVERSAL  
ENERGY FACILITY



# Financing Instruments: Risk Sharing Facility



## IFC's China Utility-based Energy Efficiency Finance (CHUEE)

- ▶ Risk sharing facility for commercial banks.
- ▶ IFC provided technical assistance and partial risk guarantee for energy efficiency loans.

# Other Instruments

> Conventional Equity

> Revolving Funds

> Working Capital Loans

> Carbon Offsets

> Cooling Bonds

# THANK YOU!

**Rusmir Musić**

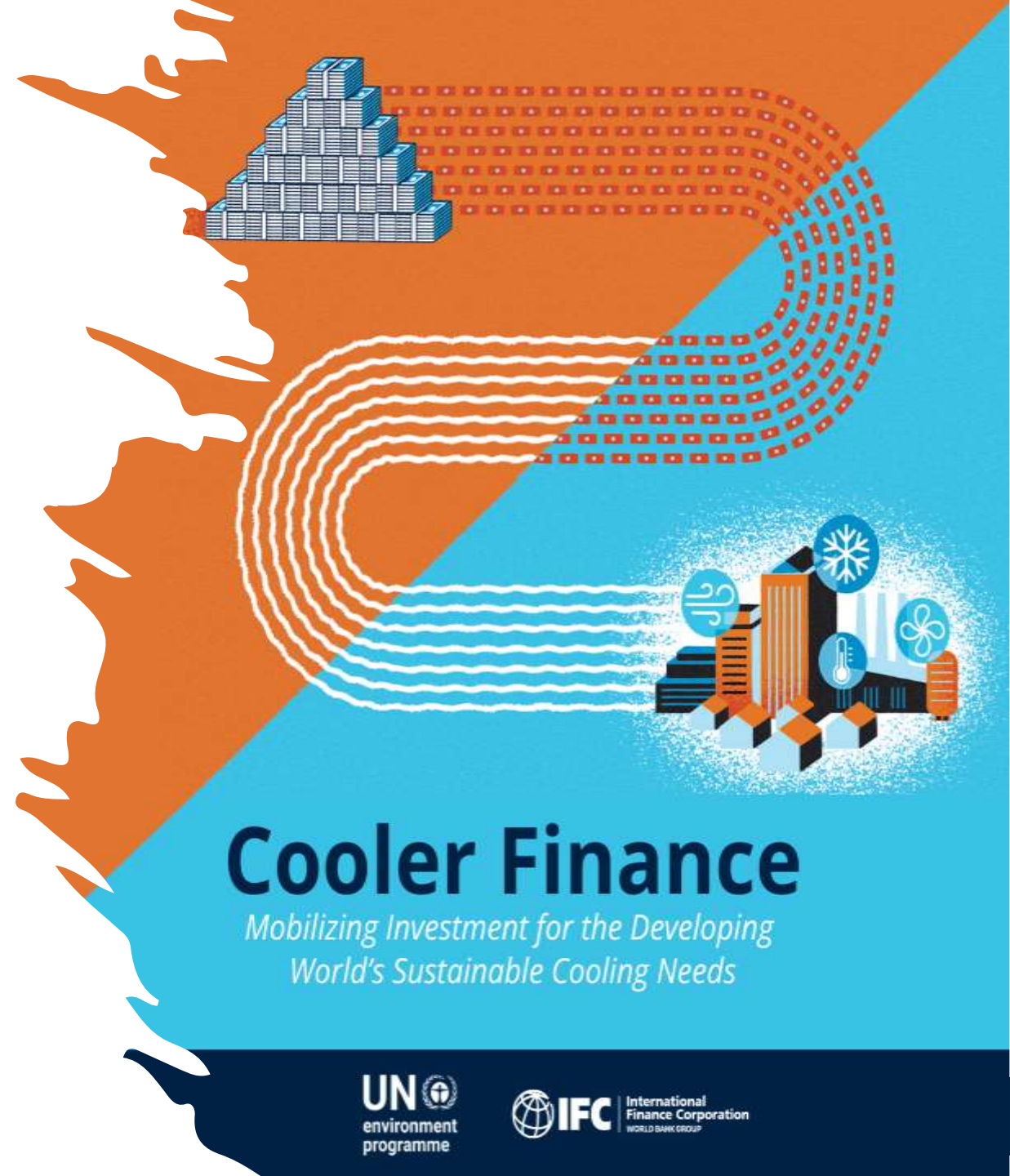
Global Cooling Lead  
IFC, Washington DC

[rmusic@ifc.org](mailto:rmusic@ifc.org)

[LinkedIn profile](#)

[IFC Sustainable Cooling Website](#)

*IFC's Sustainable Cooling Initiative is funded by the UK  
Government's Department for Energy Security & Net Zero*



## Cooler Finance

*Mobilizing Investment for the Developing  
World's Sustainable Cooling Needs*

