



# **THE MGI PROJECT**

**Catalina Diaz**

University of Stuttgart IAT



# Summary of the MGI Project - Morgenstadt Global Smart Cities Initiative

## Global Approach – Local Solutions

India – Mexico - Peru

09.10.2023, Catalina Diaz



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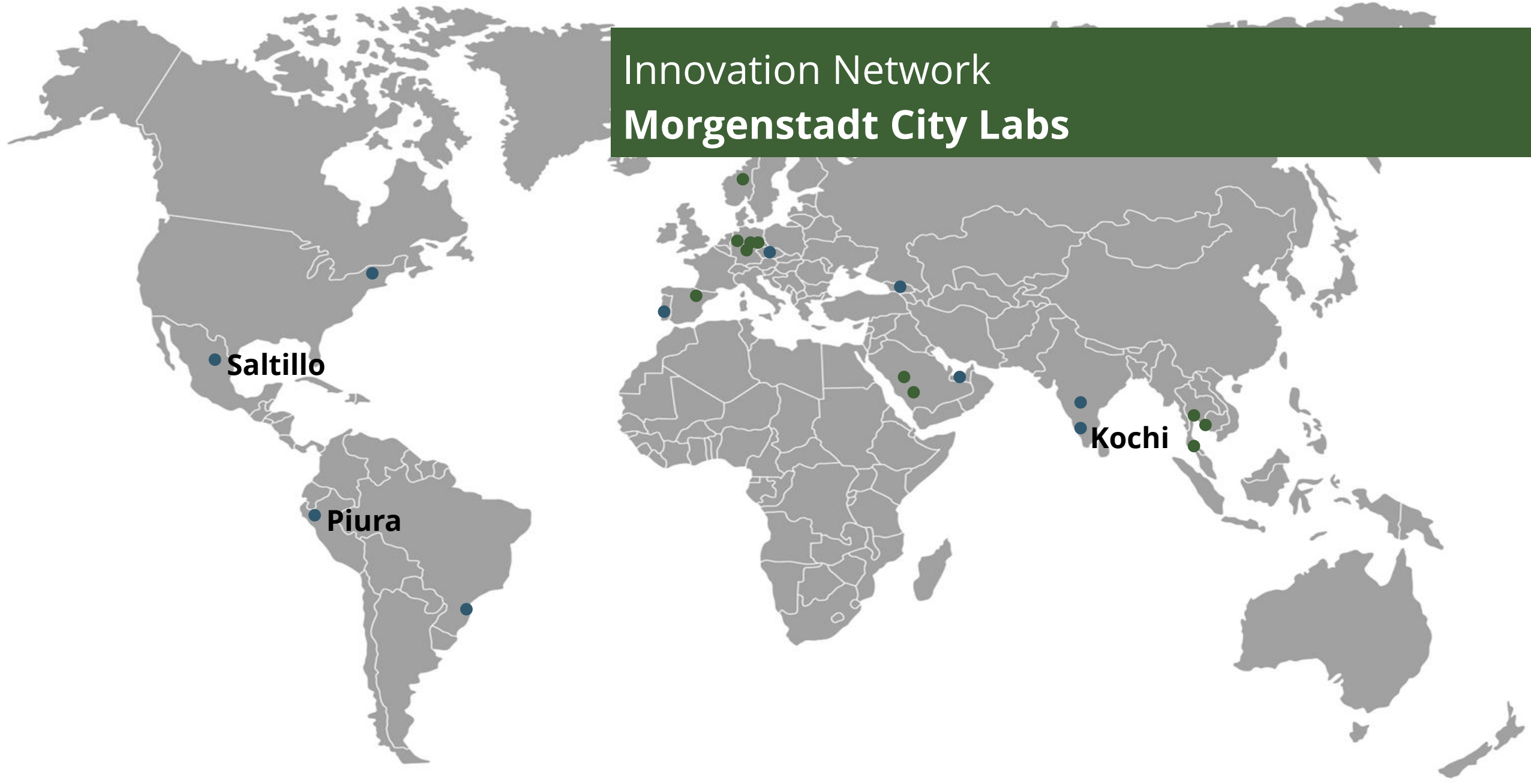
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# Innovation Network Morgenstadt City Labs

• Saltillo

• Piura

• Kochi



# RELEVANCE AND CONTEXT OF CLIMATE CHANGE AND URBANIZATION

By mid-century **more than 2.4 billion people** will be living in **cities**. Most urban growth will take place in **small and medium-sized urban centers**.



**70%** of global CO2 emissions come from cities



**75%** of global energy use is attributed to cities



Adoption of measures in cities could reduce GHG emissions by **almost 90% by 2050**



# MGI PILOT CITIES

## Kochi (India)

*one of the most important ports on the west coast of India*



## Piura (Peru)

*capital of the Piura region and one of the fastest growing cities in Peru*



## Saltillo (Mexico)

*heart of Mexico's industry*



# ABOUT MGI

## Funding

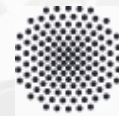
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## Coordination



**University of Stuttgart**  
Institute of Human Factors and  
Technology Management IAT

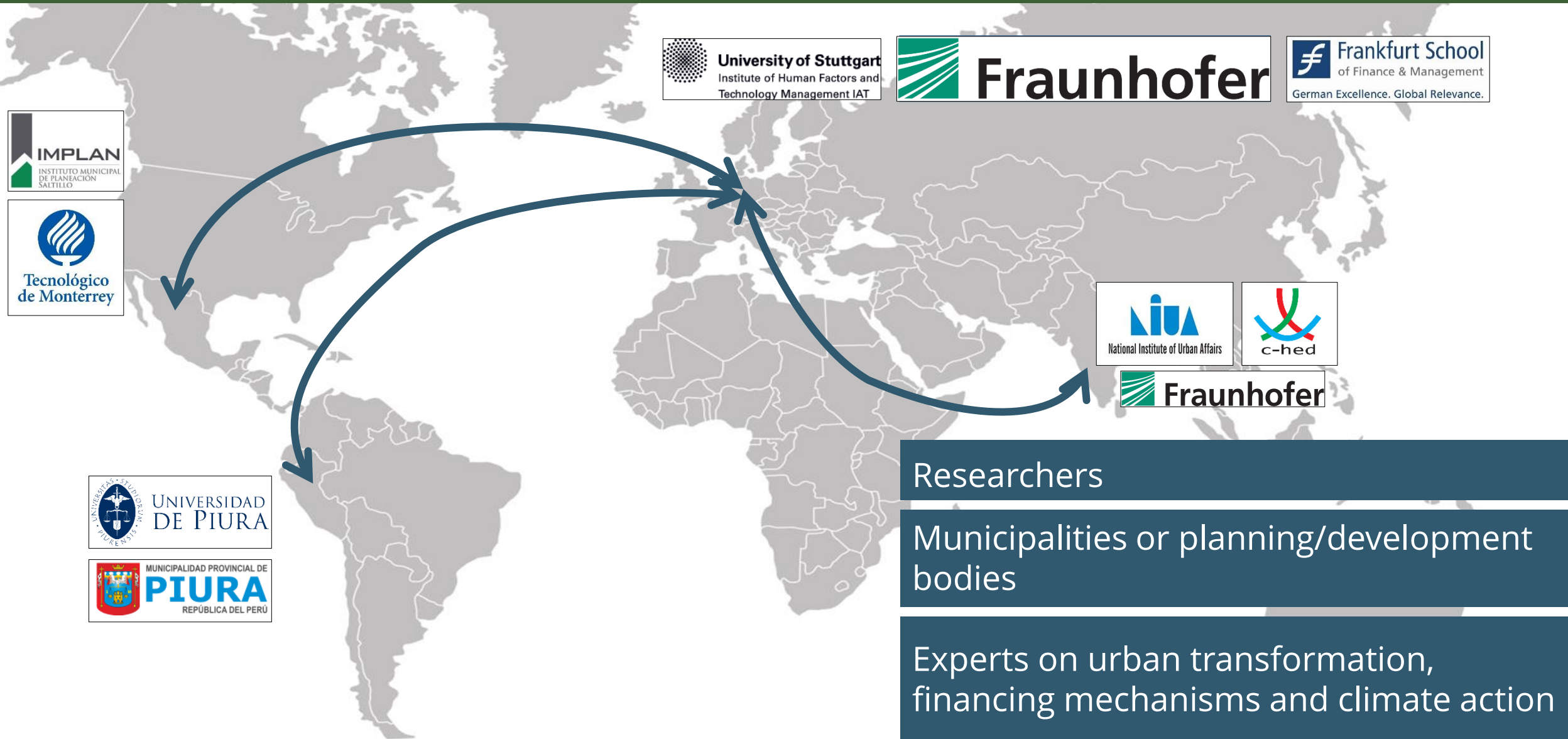
in cooperation with



## Implementation



# International and interdisciplinary team of...



Researchers

Municipalities or planning/development bodies

Experts on urban transformation, financing mechanisms and climate action



# MGI MISSION

Assessing, co-creating and implementing a long-term sustainable and innovation-based urban developing strategy in Kochi, Piura and Saltillo

- ✓ Holistic city analysis with the Morgenstadt Framework
- ✓ Implementation strategy or roadmap with tailored measures
- ✓ Implemented pilot project to trigger urban transformation
- ✓ Capacity and expertise to push the transformation forward



Kick-off meetings back in 2018/19





# MGI PROJECT PHASES

## 1 UNDERSTANDING



## 2 CO-CREATION



## 3 TRANSFORMATION



Preparation

Desktop  
research &  
analysis

On-site  
assessment

Design

Implementation &  
Sustainability Strategy

*Building capacities at the local level*

# Morgenstadt City Lab Methodology



# Morgenstadt City Lab Methodology

Systemic solutions for the future of cities

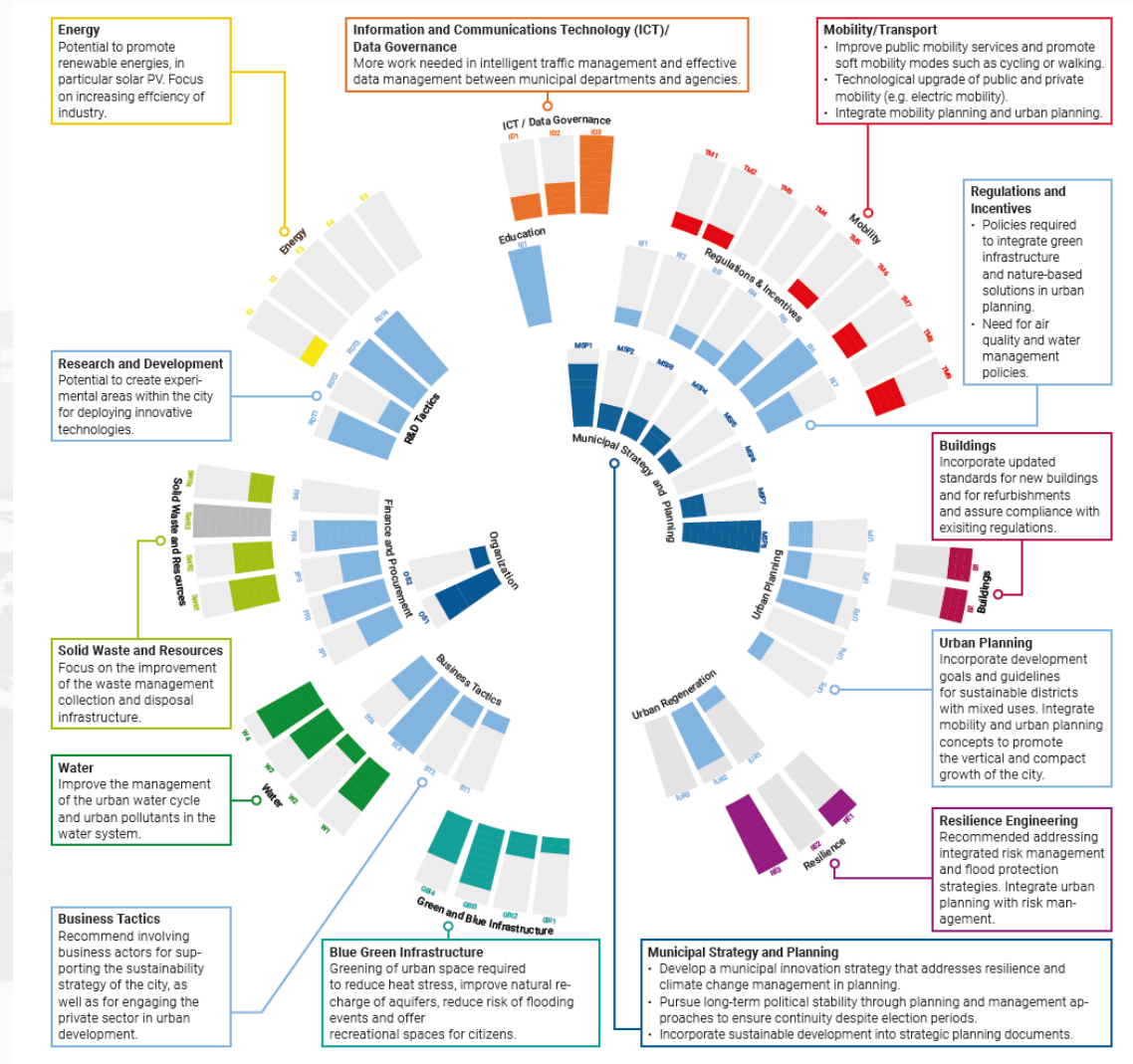
Challenges and fields of research

Performance indicators and key action fields

Expert interviews and workshops

Involvement of local stakeholders

Co-creation of tailored solutions for the cities





# Morgenstadt City Lab Methodology

Systemic solutions for the future of cities

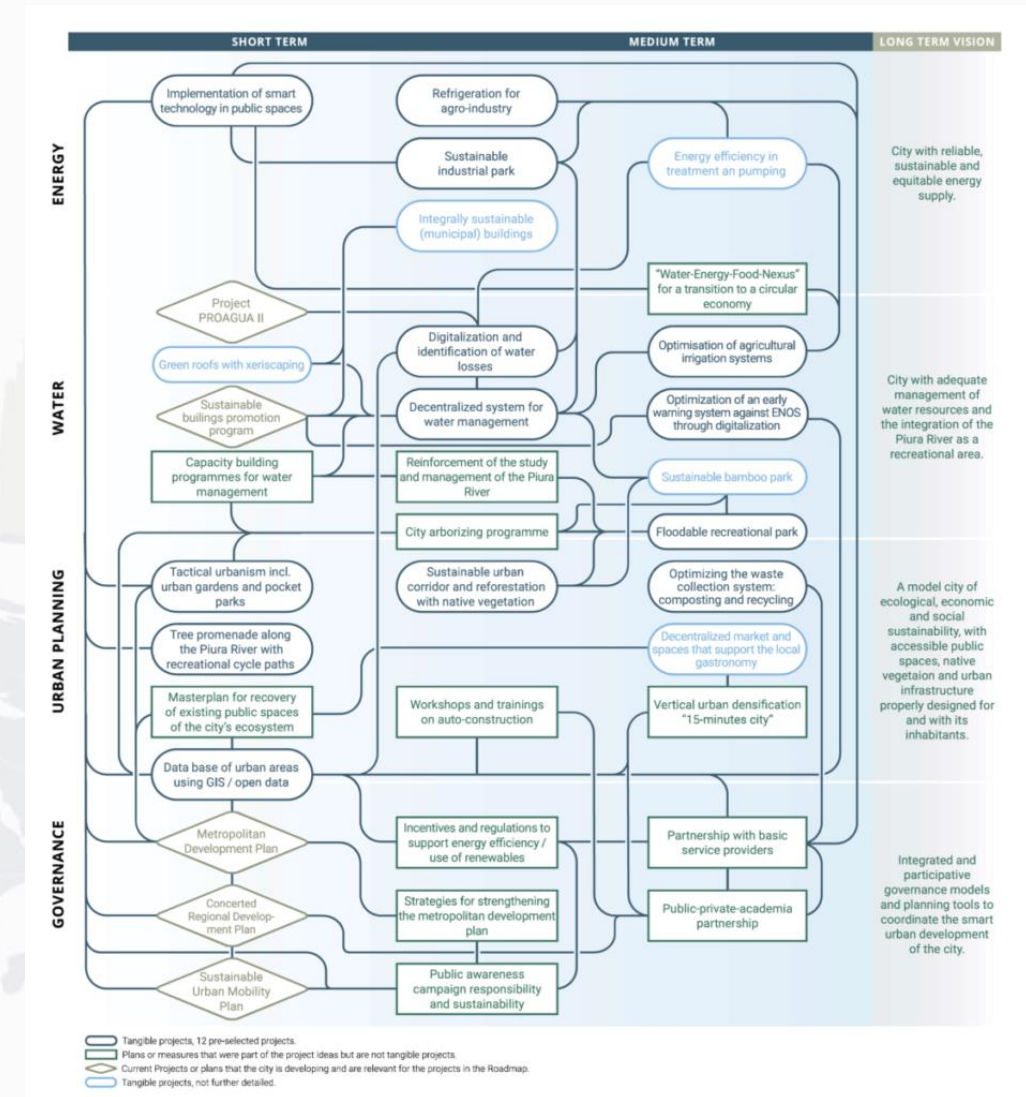
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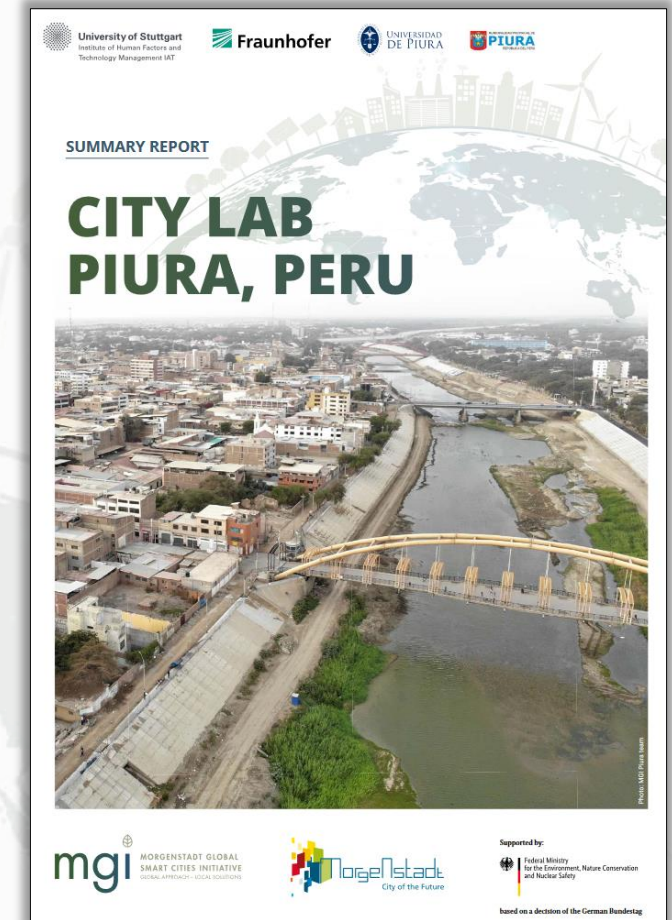
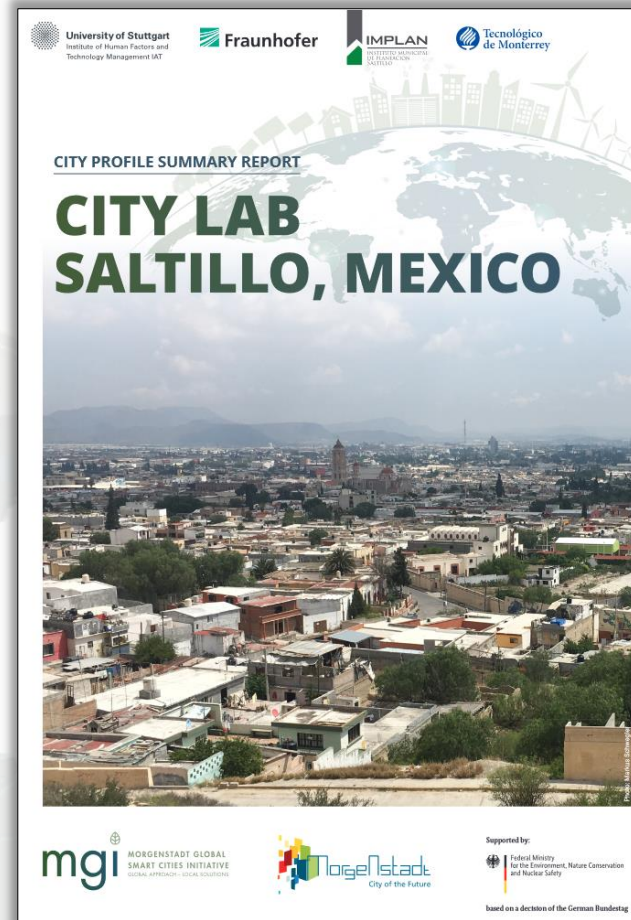
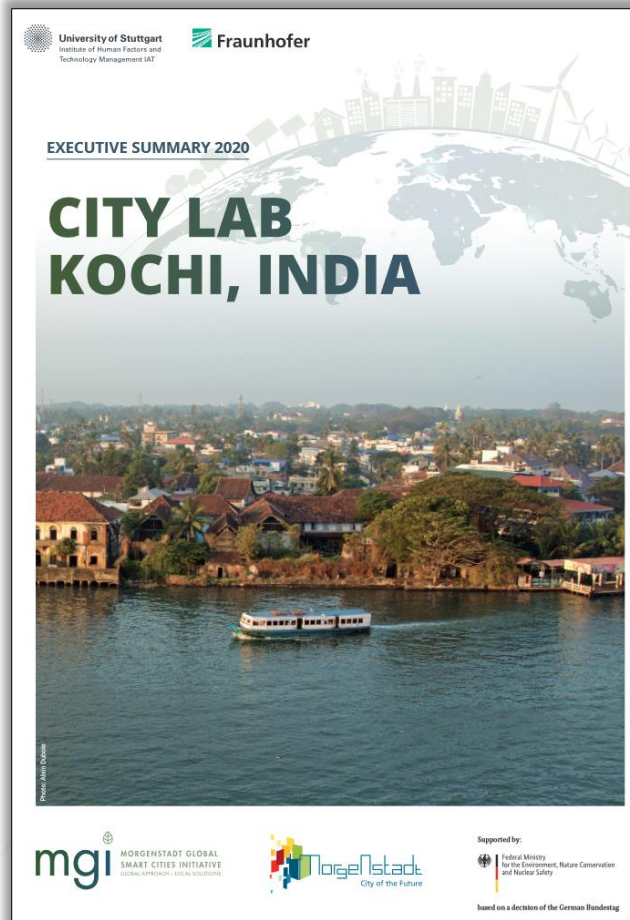
Expert interviews and workshops

Involvement of local stakeholders

Co-creation of tailored solutions for the cities



# CITY PROFILES





# MGI PILOT PROJECTS







Kochi



Piura



Saltillo

# 1 UNDERSTANDING

## 2 CO-CREATION

## 3 TRANSFORMATION

*The pilot cities*

*Results from the Morgenstadt City Labs in Kochi, Piura and Saltillo*

*Time to test...*

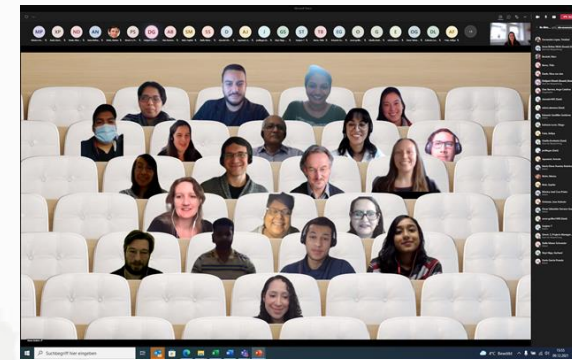
*Piloting the urban transformation*

*Building capacities at the local level: finances & climate assessment*

*What's next?*

*Inspiration from Prague, one of the first city labs*







the pioneers...



Kochi

the ambassadors...



Piura

the innovators...



Saltillo

the enablers...



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Technology Management IAT



**Fraunhofer**



**Frankfurt School**  
of Finance & Management  
German Excellence. Global Relevance.

...of the MGI Project





# THANK YOU





**mgi**   
**MORGENSTADT GLOBAL  
SMART CITIES INITIATIVE**  
GLOBAL APPROACH – LOCAL SOLUTIONS



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## AGENDA – MORNING

- 09:00 – 09:15 Welcome and program presentation
- 09:15 – 09:25 Opening Speech from the International Climate Initiative (IKI)  
Judith Commenges, IKI Office at Zukunft-Umwelt-Gesellschaft (ZUG) gGmbH - on behalf of the Federal Ministry for Economic Affairs and Climate Action (BMWK)
- 09:25 – 09:35 Welcome presentation from the University of Stuttgart IAT  
Steffen Braun – Head of Urban Systems Engineering Research Unit
- 09:35 – 09:45 Welcome presentation from the Fraunhofer Institute IAO  
Petr Suska - Team Leader Urban Economy Innovation
- 09:45 – 10:00 Summary of the MGI Project  
Catalina Diaz, University of Stuttgart – Project Coordinator
- ▶ 10:00 – 10:15 Group photo
- 10:15 – 10:45 **Coffee break**





# FINAL CONFERENCE

## MGI - Morgenstadt Global Smart Cities Initiative

Global Approach – Local Solutions

Kochi – Piura – Saltillo

09.05.2023



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Federal Ministry  
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