





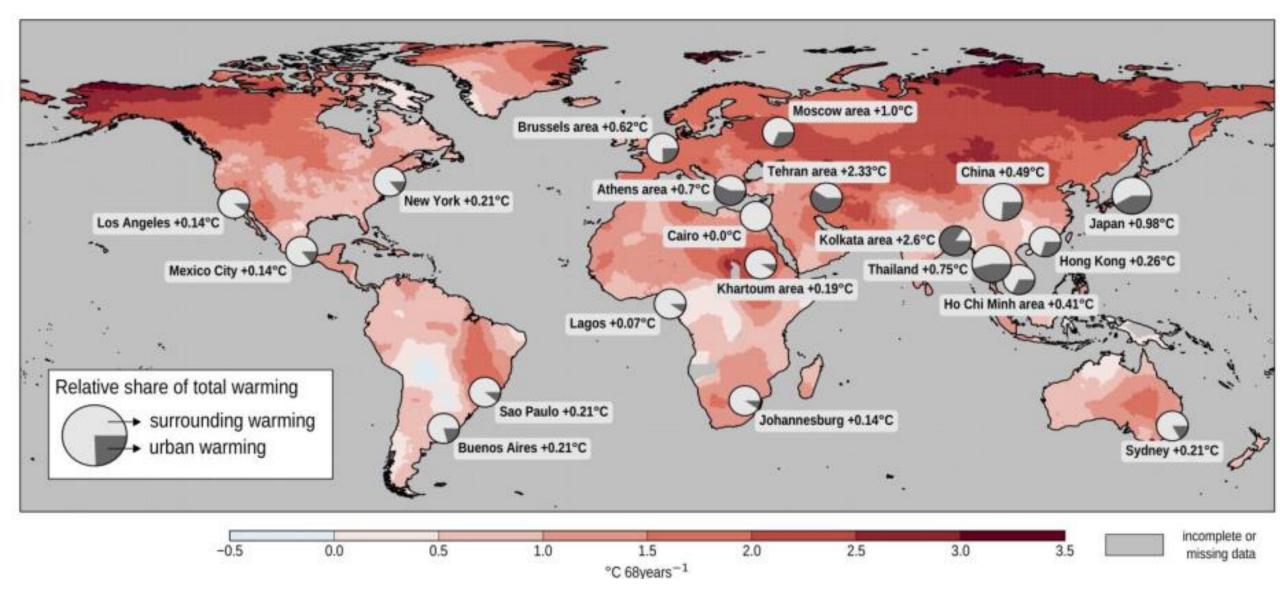


Scaling Community Innovations

innovation

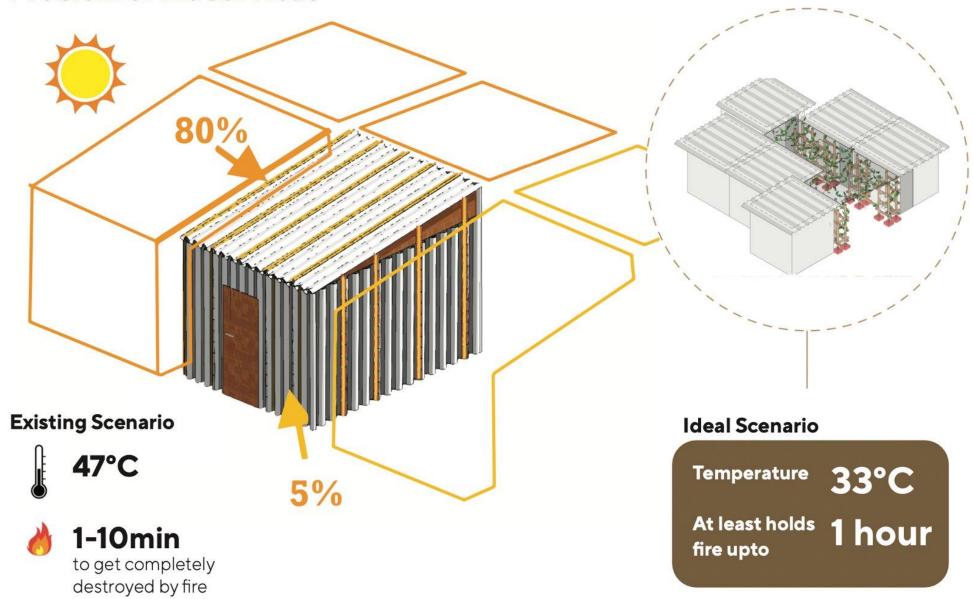
Simple way of doing things better

Trends in global (near) surface air temperature for cities (1950-2018)





Problem of Indoor Heat



The answers are right there

Low cost, replicable and affordable solutions



SEEK. SUPPORT. SCALE



How do we scale?

1. Transference of Ideas





2. Enablement and Incubation









Cooling at source

In summers, water stored in overhead tanks get heated up. Our champion Vanshika. She came up with the idea after seeing the thermocol ice boxes that are used to keep drinks cool in stores



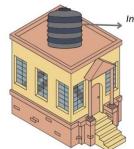
Thermocol ice box used for storing cold drinks

Vanshika's solution

- The water tank would be covered with jute bags
- The jute bags will then be dampened with water
- Finally sheets of thermocol or cardboard would be used as an external covering to prevent evaporation.

By covering the tank in this manner would prevent the water in the tank from heating up.





HUMANITARIAN INNOVATION LAB

Call for Innovations

O1 Water Scarcity and Flooding in Urban and Peri-urban Areas

O2 Extreme Climatic Events of Heat Waves and Cold Waves

Inclusive Response During Emergencies in India









INDIA HUMANITARIAN HUB





URMUL

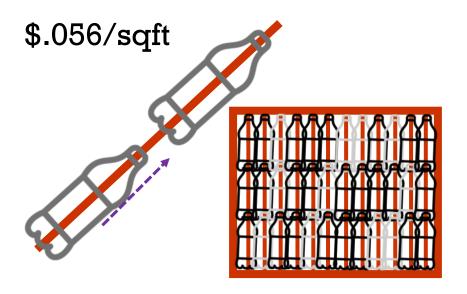
Common Facility Centres for Pastoralists



DIGHIR GANGULY

Sunderbans Shelter Project

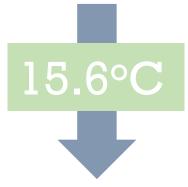
3. Technology for Scaling





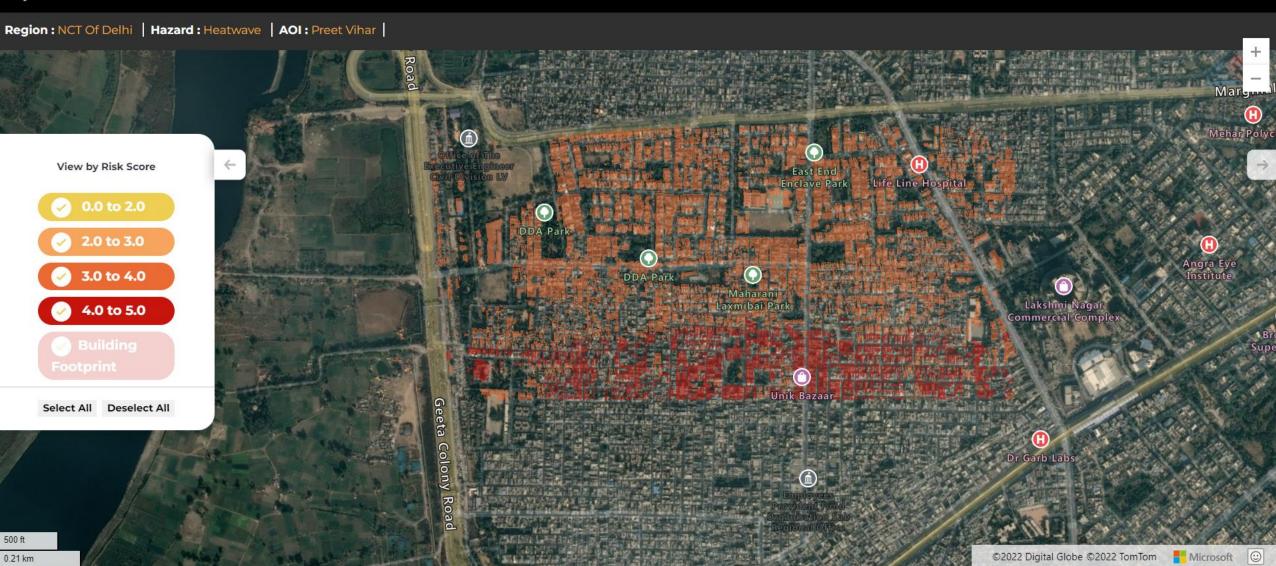
















4. Advocacy for Systems Change

HEATWAVE ACTION

HOUSE OWNERS' GUIDE

ALTERNATE ROOF COOLING SOLUTIONS



Cool Roof

Bamboo, Thatch & Palm Leaves Roof Screen

Bamboo, Thatch & Palm leaves are locally available across India and can be installed as a secondary roof screen thereby reducing the heating effect.

CLIMATIC ZONE

BUILDING TYPOLOGY

SKILLSET



























Clean the roof surface to

remove dust and particles





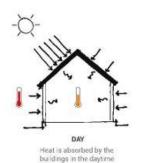


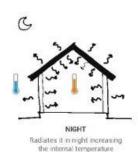
Fix the bamboo frame on to the roof

Lay the thatch/leaves on the frame and tie with rope

Alternate Roof Cooling Solutions: The Working

Roof contributes up to 70% of the heat gain of a building during high temperatures. Solar radiation striking a surface is either reflected. absorbed, or transmitted.





Cool Roofs through use of reflective materials and techniques, help in reducing heat absorption and improving overall thermal comfort of the building.



Reflection - LOW Absorption - HIGH Thermal Comfort - LOW



Reflection - HIGH Absorption - LOW Thermal Comfort - HIGH



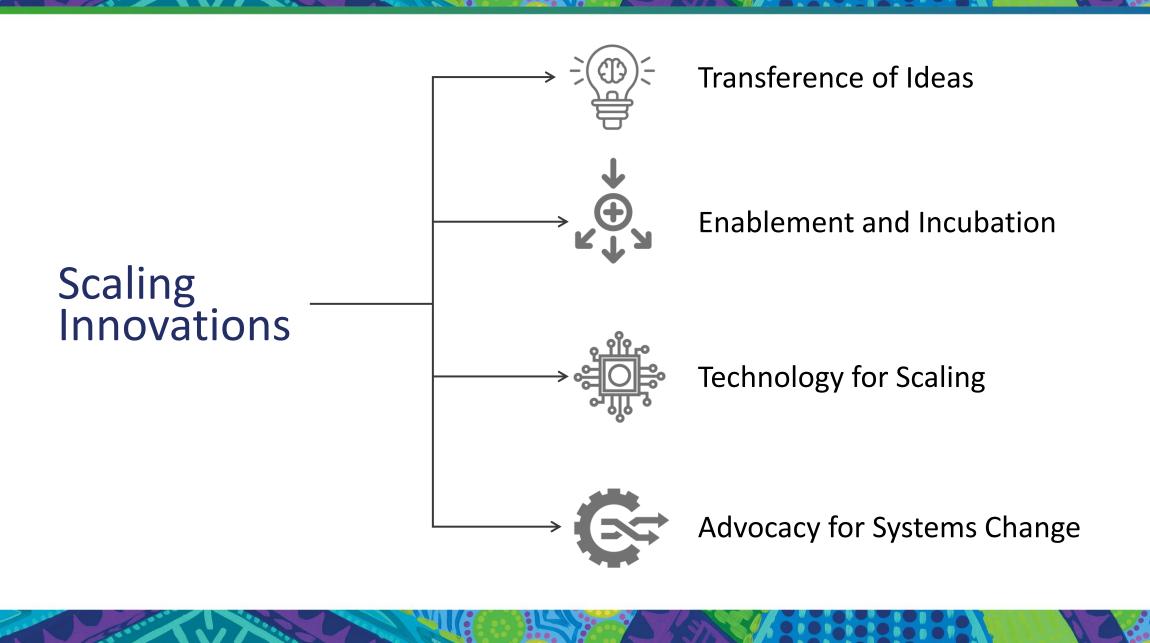
Co-creating Solutions

Brad Smith President, Microsoft

Anshu Sharma Co-founder, SEEDS



Scaling: Where from here?



The challenges that remain for working at scale are:

- 1. Flexible Financing
- 2. Enabling Policy Environments
- 3. Partnerships Market, Society & Governments



Thank You

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