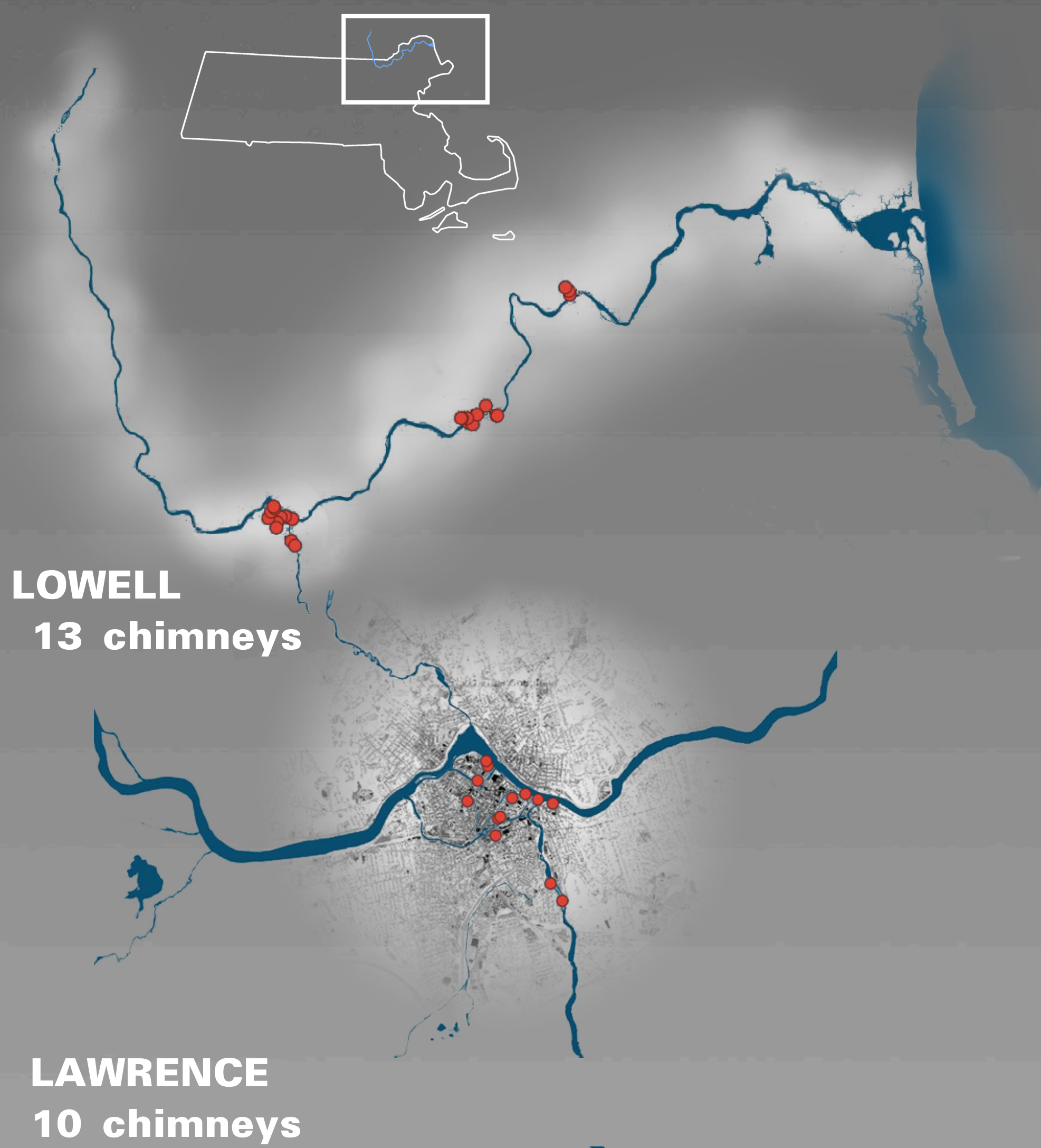


TowerPower

FROM ABANDONED NEW ENGLAND FACTORY CHIMNEYS INTO URBAN ENERGY GENERATION AND ECONOMIC REVITALIZATION

A new research initiative

MANY ABANDONED CHIMNEYS ALONG THE
FORMER MERRIMACK RIVER MANUFACTURING BASE



The modification of abandoned chimneys into 'solar chimneys' tap energy potential using standard wind turbines. The TowerPower strategy overcomes the main cost component of a sufficiently tall chimney in achieving efficient airflow where height is an advantage for optimum stack effect.

Many chimneys remain from the past industrial era of New England driven by the exploitation of regional rivers. These largely abandoned chimneys are relatively difficult and expensive to remove, and their reuse is a win-win opportunity for energy generation. The chimney network from former factories could provide the backbone for a low-cost, quick entry for power generation for the cities that developed around the previous industrial corridor.

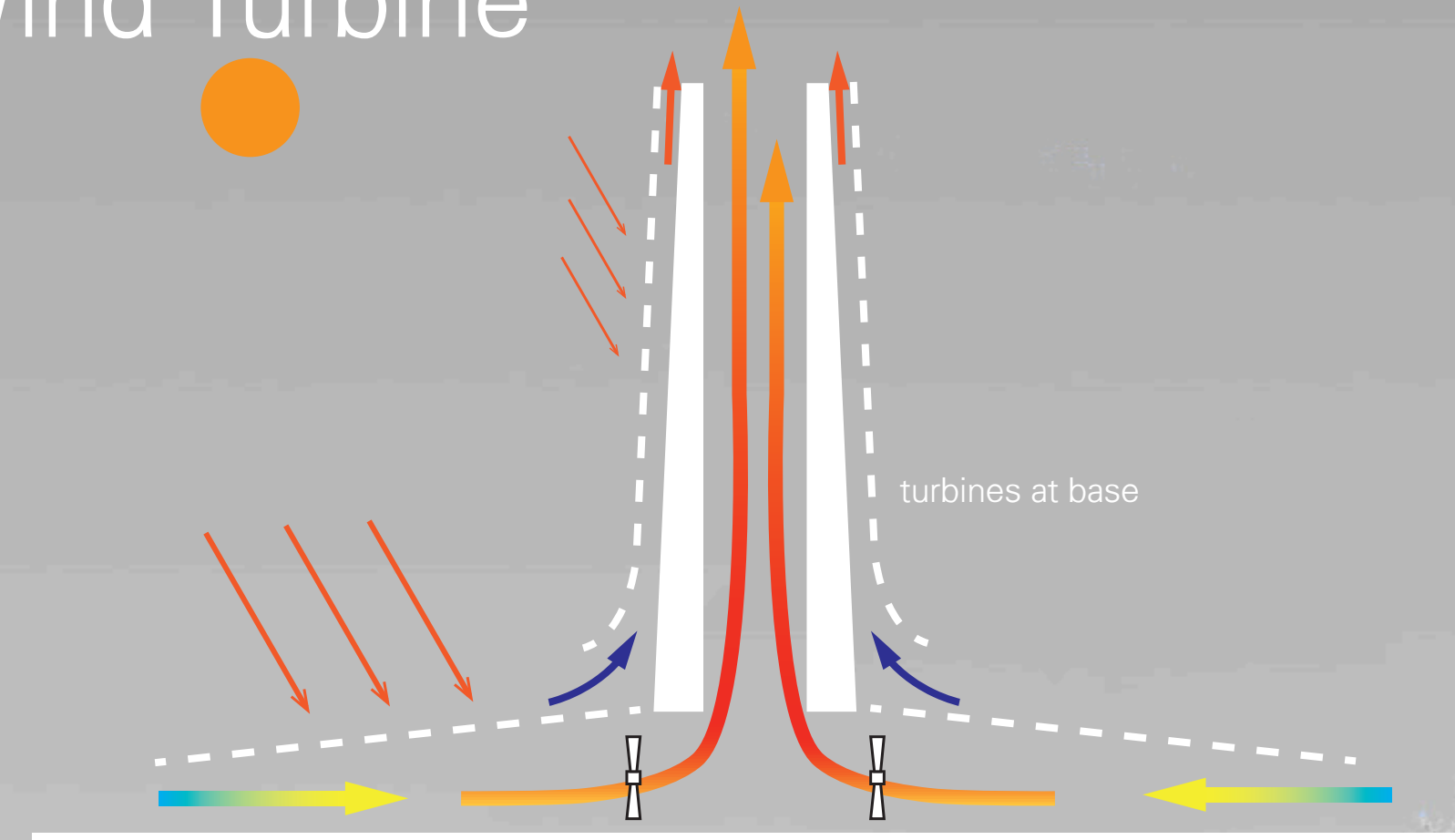
The abandoned factory complex could be converted into an attractive office complex or shopping hub, providing an economic stimulus to the urban areas.

The research is a spin-off from an earlier MISTI supported project in China.

THE TOWERPOWER SYSTEM

Chimney
Trombe Wall
Glass Collector Apron
Wind Turbine

Innovative flexible solar capture net



ADVANTAGES OF TOWERPOWER

- CREATIVE REUSE OF ABANDONED STRUCTURES
- ECONOMIC STIMULUS OF AREA
- CLEAR, UNEMCUMBERED OWNERSHIP
- NO/LITTLE TRANSMISSIONS COSTS
- LOW ENTRY COST

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