









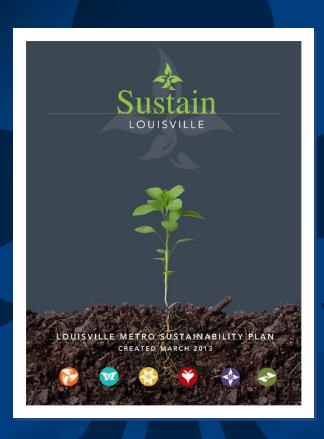
Louisville Metro Government Office of Sustainability Urban Heat Island Reduction

Maria Koetter, Director of Sustainability
June 26, 2014



Office of Sustainability

Sustain Louisville 2012



Six focus areas – 19 Goals

- Energy
- Environment
- Transportation
- Economy
- Community
- Engagement

2013 Progress Report

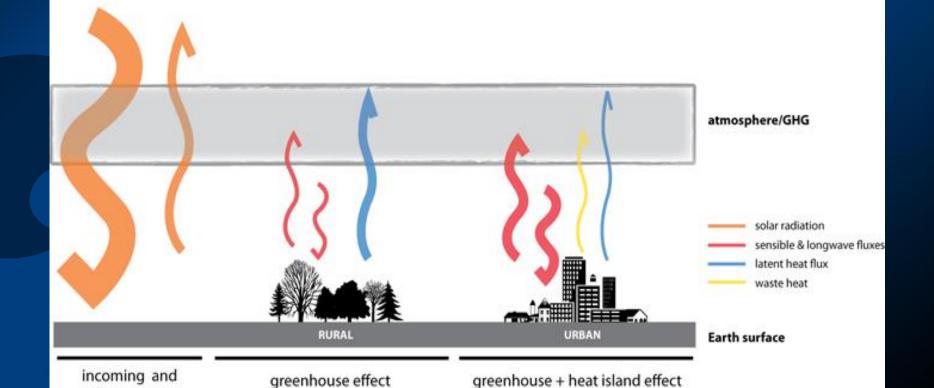
- Goals strengthened
- Baseline and target metrics established



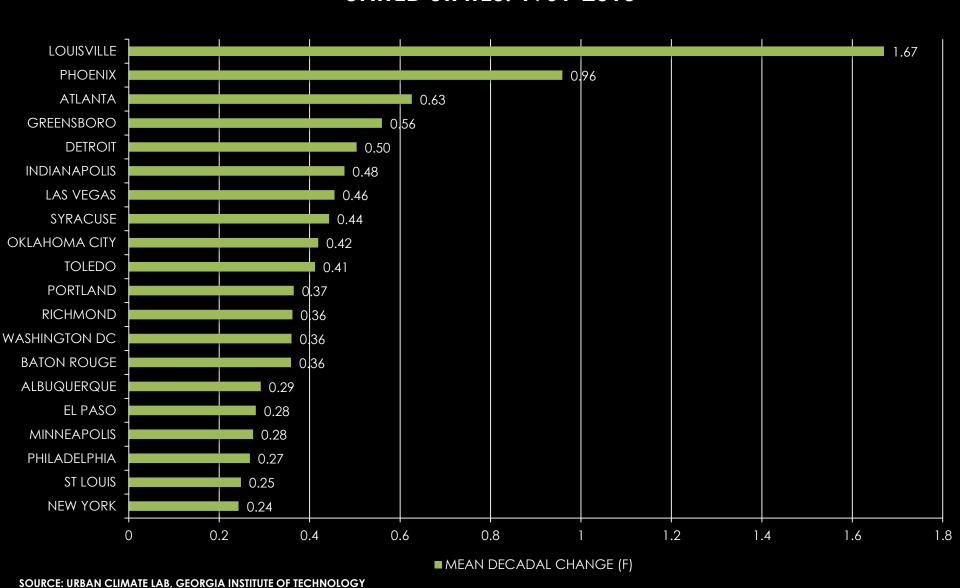
Urban Heat Island Study

reflected solar

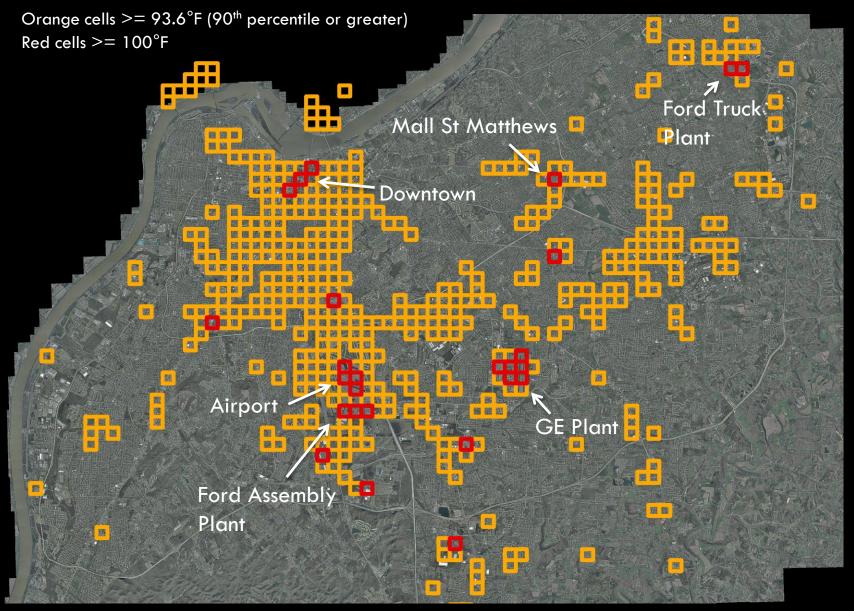
- Dr. Brian Stone 2012 Heat Island Study
- Louisville is at the top of the list



TOP 20 MOST RAPIDLY GROWING URBAN HEAT ISLANDS IN UNITED STATES: 1961-2010



Surface temperature hotspots



26 cells exhibit average temperatures in excess of 100°F – significant hotspots are highlighted

Urban Heat Island Grant Project

- Funded through private grants
- Surface temperature analysis
- Land cover assessment
- Climate modeling
- Health impacts and population vulnerability assessment
- Heat mitigation plan
- Community engagement planned and underway



Urban Heat Island Management Plan

Data will inform policy decisions

- Establish a baseline for improvement
- Instill heat considerations in all development
- Implementation and next steps





Tree Canopy Assessment

- Parallel project for reforestation
- Louisville Metro Government funding \$50K
- Louisville Metropolitan Sewer District funding \$50K
- Green infrastructure incentives
- Tree Advisory Commission

Aligns with Sustain Louisville and Mayor's strategic goals to promote quality of life and quality of place!















Thank you! Louisville Metro Office of Sustainability

www.louisvilleky.gov/sustainability

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