

Cool Fixes for Hot Cities

Part 2: Los Angeles

September 12, 2018

Hosted by:

U.S. EPA Heat Island Reduction Program





Eric Garcetti
Mayor



Kevin James, President
Board of Public Works

Cool Pavement Pilot Project

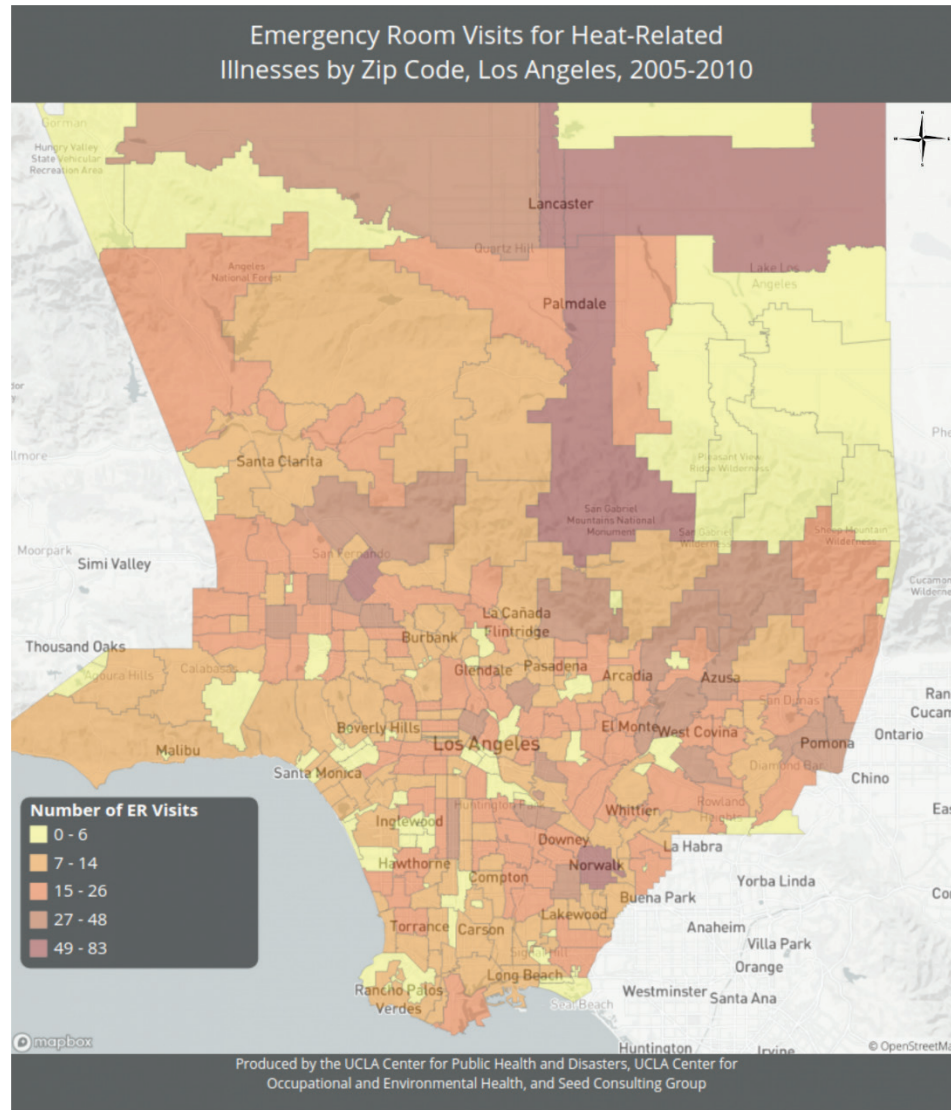
Greg Spotts
Assistant Director + Chief Sustainability Officer
Bureau of Street Services (BSS)
August 2018



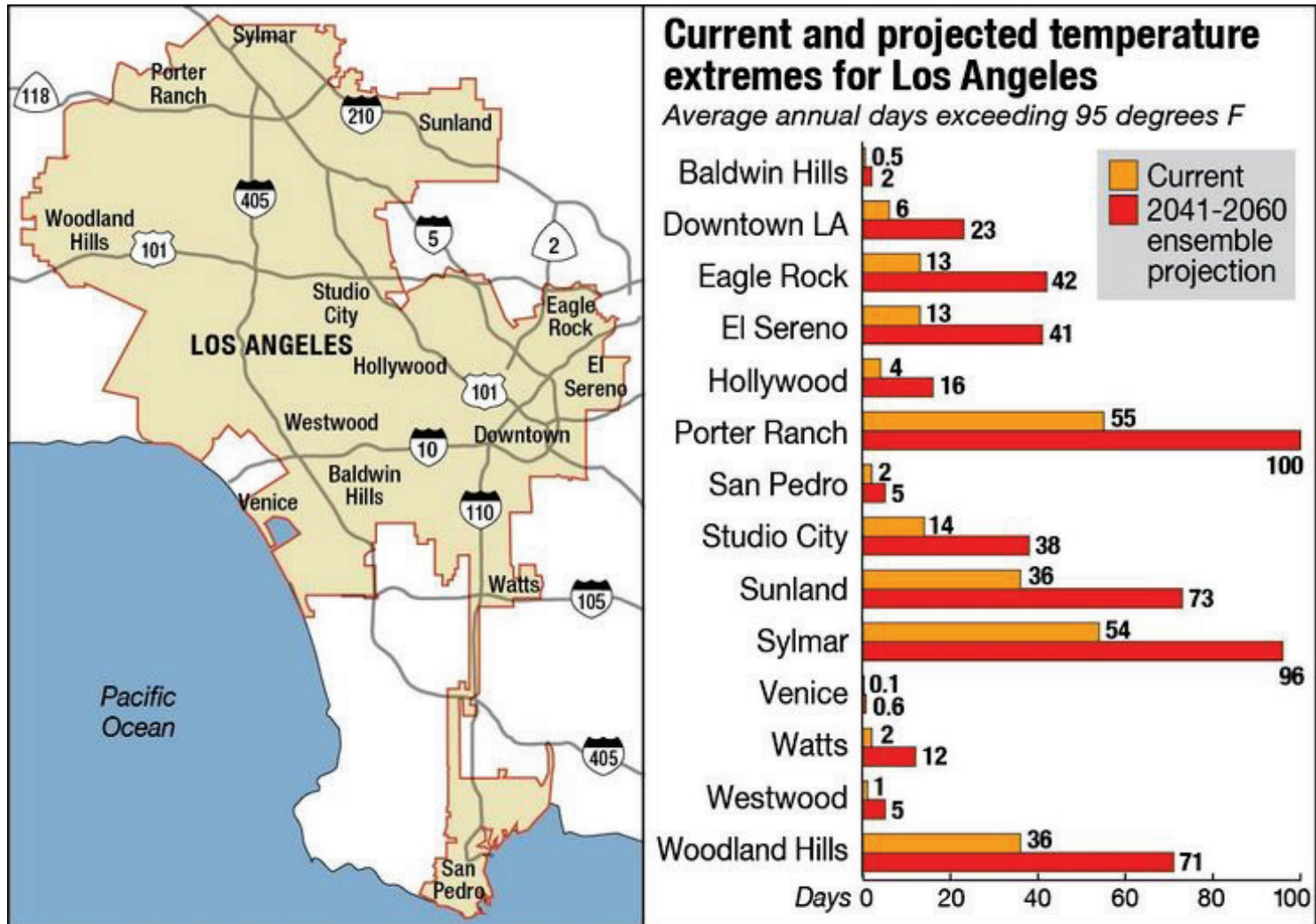
Quality • Timeliness • Efficiency

LA experiences heat-related illnesses and deaths

(One of the only cities with heat-related deaths in Winter)



And LA is expected to get HOTTER!



Source: UCLA LARC study, 2012; chart based on the mean/average projected by the 18 climate models

In July 2015, BSS partnered with Rec & Parks and the materials testing department to install a test patch of cool pavement coating at Balboa Sports Complex



Two coats of Guard Top Cool Seal are applied



Finished product with striping

Gray coating is 10 degrees Fahrenheit cooler than black asphalt



Materials Test Results:

Material passed California skid test and slip test, meaning it is safe under wet conditions

In summer afternoons, coated area was 10 degrees cooler than untreated black asphalt across the median

Next Step: Obtained funding to install coating on 1 city block in each of the 15 Council Districts (CDs)



Results of Pilot Project Phase 1



Greg Spotts

@Spottnik

It's very hot on Coronado St in CD13- but the Cool Seal treated pavement is more than 10 degrees F cooler than black asphalt

[@MitchOFarrell](#)



3:06 PM - 29 Aug 2017

1. Thermal performance is as expected: 10 degrees cooler
2. Residents greeting the installation with excitement
3. Press coverage from LA Times, New York Times, Washington Post, National Public Radio, local television stations
4. Inquiries from other cities
5. Potential concerns about staining / darkening

Summer 2018: Guard Top contractor re-coats the 15 locations with revised Cool Seal formulation

GOAL: improved thermal performance as coating ages, with reduced erosion and staining



First coat applied using slurry buggy

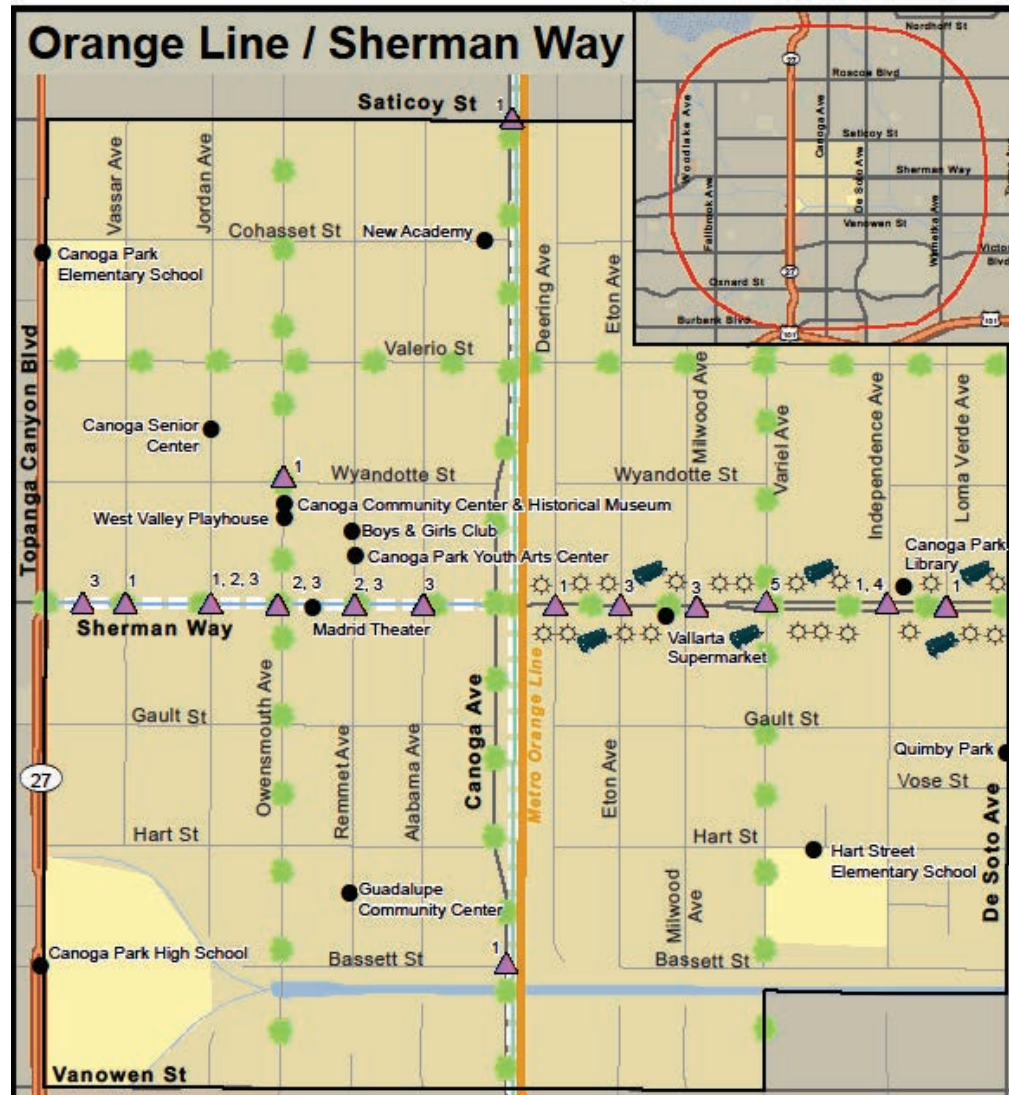


Second coat applied by hand spray

Next Steps: SB1 Climate Adaption Planning Grant

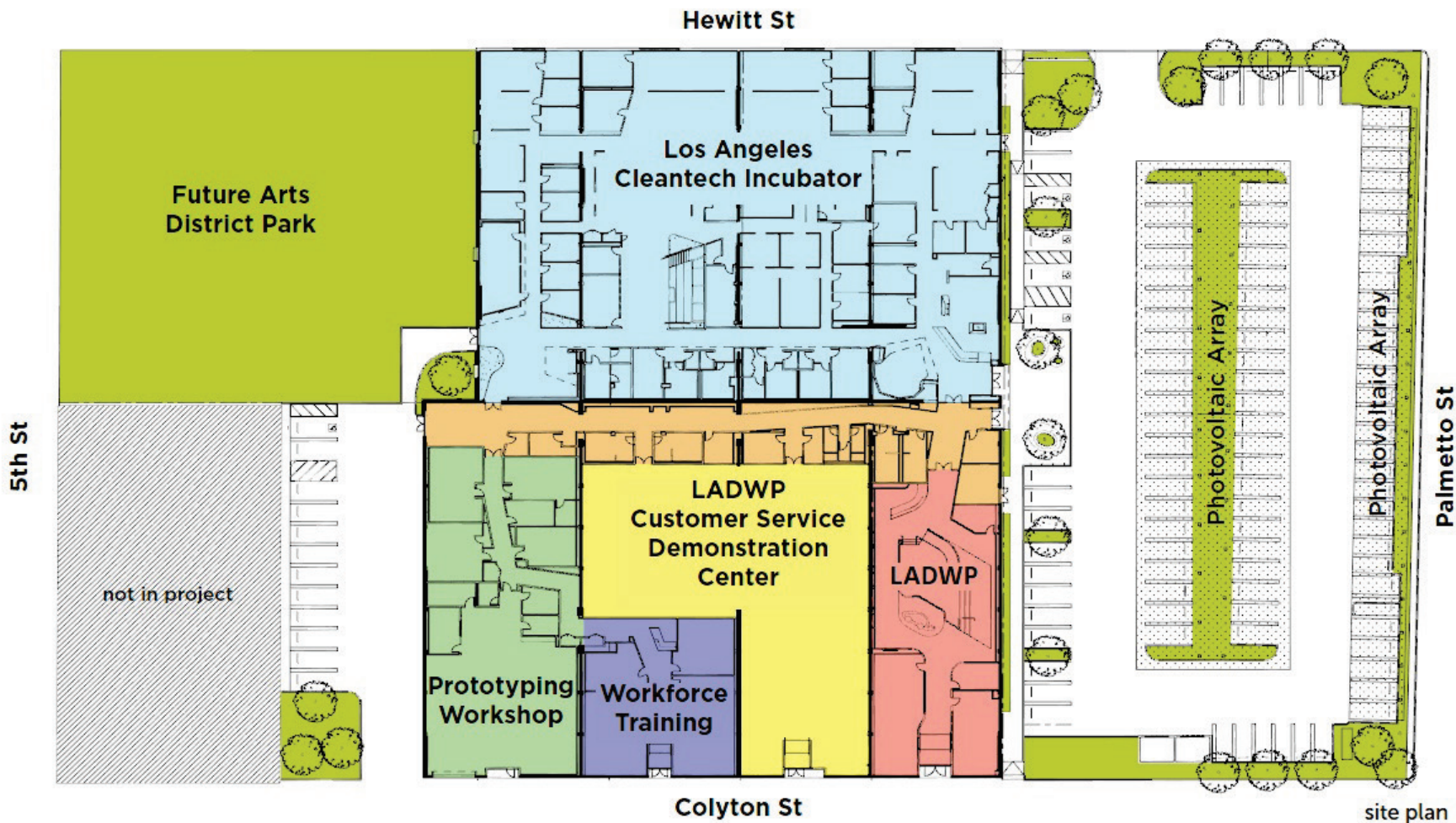
Sherman Way Orange Line Station

Cool Pavement + Cool Roofs + Shade Trees = Cool Neighborhood!



Next Steps: Multi-Product Demonstration Site At Los Angeles Department of Water and Power LaKretz Innovation Campus in the Downtown LA Arts District

Coating Demo
Patches

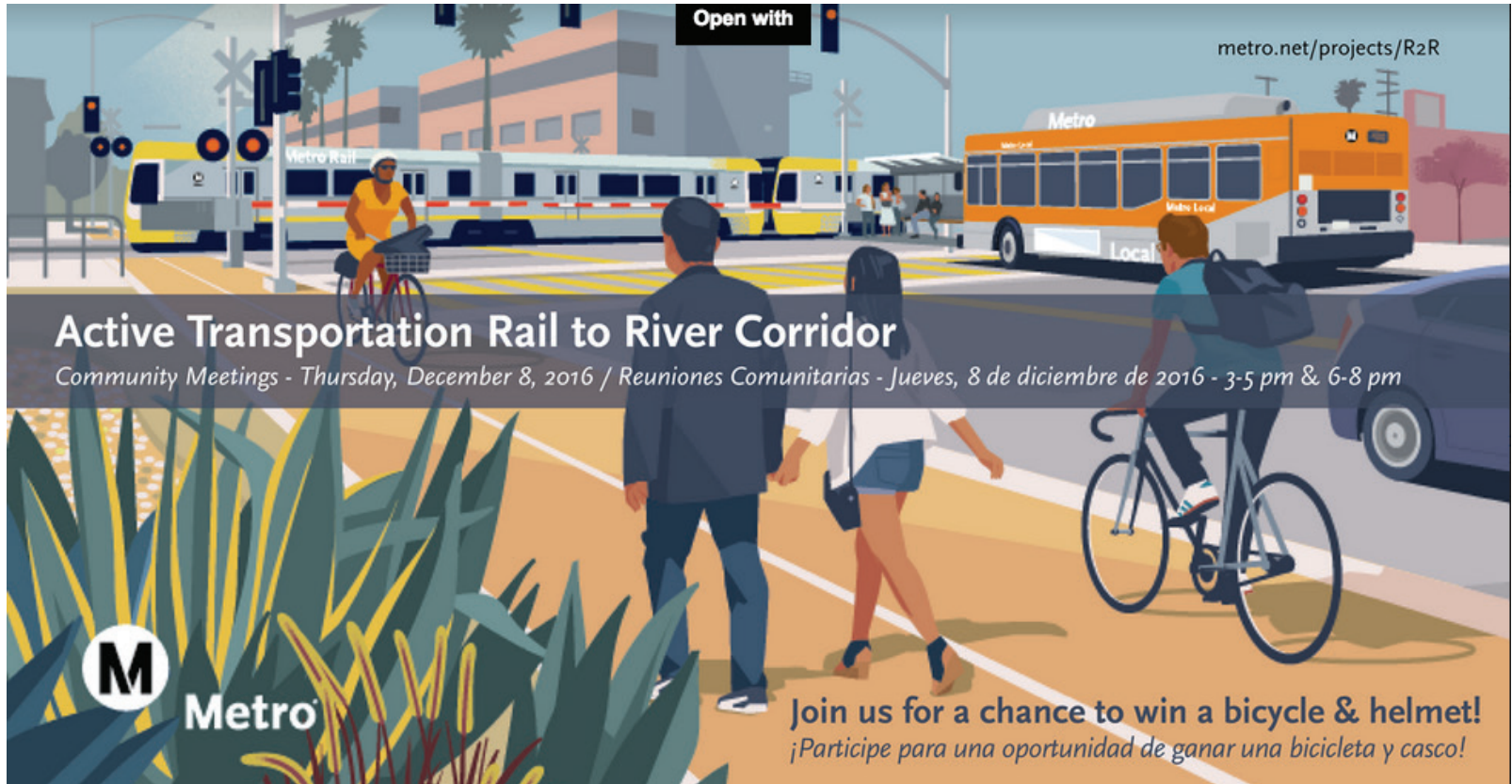


Next Steps: Cool Pavement Phase 2

Coating a subdivision to see if a neighborhood-level cooling effect can be realized



Next Steps: Cool pavement on a major off-street bike path?




Open with

metro.net/projects/R2R

Active Transportation Rail to River Corridor

Community Meetings - Thursday, December 8, 2016 / Reuniones Comunitarias - Jueves, 8 de diciembre de 2016 - 3-5 pm & 6-8 pm



Metro

Join us for a chance to win a bicycle & helmet!
¡Participe para una oportunidad de ganar una bicicleta y casco!

ME: greg.spotts@lacity.org

BSS: WE'RE HERE TO HELP!



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