

MOST POLLUTED CITIES IN THE UNITED STATES



Ozone-polluted cities

1	Los	Ang	eles	, Ca

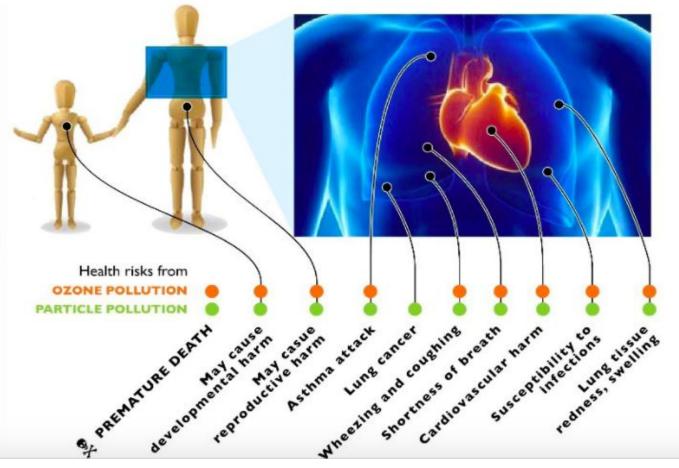
- 2 Visalia, Cali.
- 3 Bakersfield, Cali.
- 4 Fresno, Cali.
- 5 Sacramento, Cali.
- 6 Houston, Texas
- 7 Dallas, Texas
- 8 Modesto, Cali.
- 9 Las Vegas, Nev.
- 10 Phoenix, Ariz.

Statistics courtesy of a new s by the American Lung Associa

Year-round particle-polluted cities

- 1 Fresno, Cali.
- 2 Bakersfield, Cali. 3 Visalia, Cali.
- 4 Modesto, Cali.
- 5 Los Angeles, Cali.
- 6 El Centro, Cali.
- 7 San Jose, Cali.
- 8 Cincinnati, Ohio
- 8 Wilmington, Ind. 8 Maysville, Ky.
- 9 Pittsburgh, Penn.
- 9 New Castle, Ohio
- 9 Weirton W
- 10 Cleveland, Ol

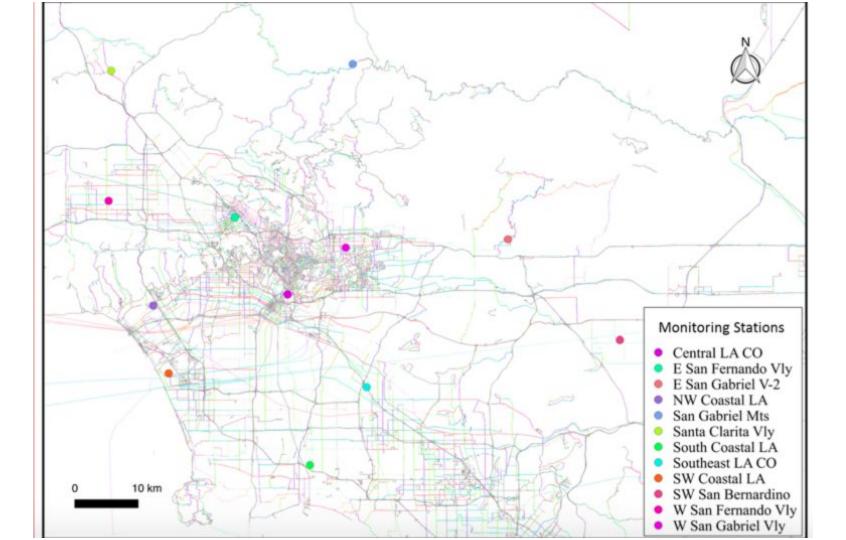
Air pollution remains a major danger to the health of children and adults.

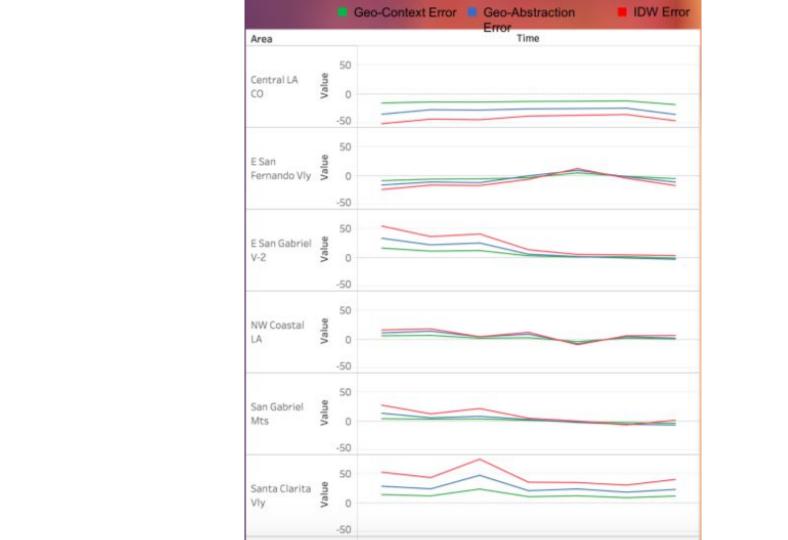


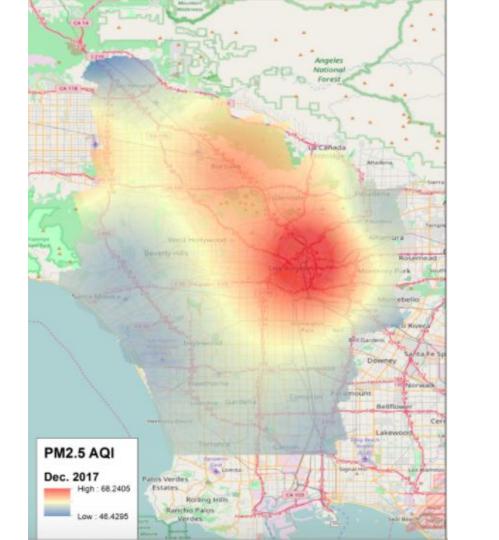


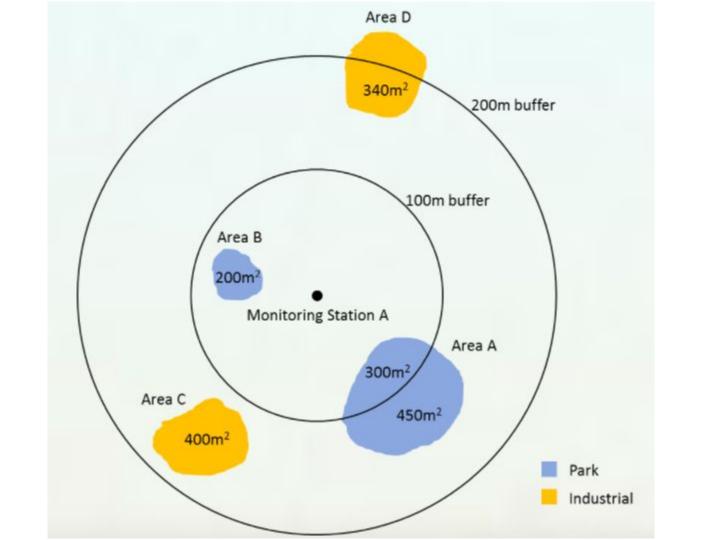


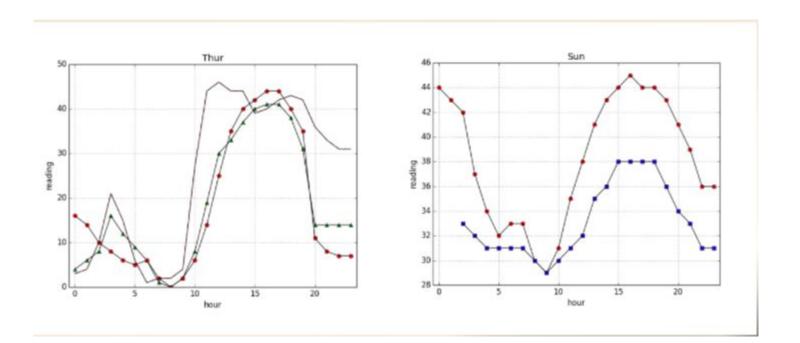


























PROJECT TIMELINE

Data Cleaning		
Exploratory Analysis		
Prototyping		
Deploymen	nt & Validation	
	Design Retouch	
		User Testing
		Documentation & Presentation
Week 1 W	eek 2 Week 3	Week 4

Mining Public Datasets for Modeling Intra-City PM_{2.5} Concentrations at a Fine Spatial Resolution

Fan Pan data modeling & visualization programming

Gabby You aesthetics design & visualization programming Vijem Lin Spatial Stances buttute University of Southern California vijembajduse oda

Dienitrio Stripelio Information Inivenes Italitate University of Southern California attipolicitat edu For Pas Apotal Sciences Institute University of Southern Collisions. Enganifere.edu

Too Vi Chineg Spoint Sceners Institute to University of Southern California yang nighter adu

José Linis Ambitor Information Volences Institute University of Institute California antifection only Sundruh P. Eckel Department of Frevenive Medicine University of Southern Coldinson substillances

Rims Habor Department of Providers Medicine Department of Northern California Industrializations

ABSTRACT

Air goality mobils are important for multing the impact of six political exclusive sealth conditions at a thin matricespeed early fronting work hypodicioties on area specific, report-whetel politicism regiments, Reporting and Transport Business Inc., Authorisistant Par building the model for such conditioning of study area, polletonitrapes, and spetistempsed reality. In this paper, we present a data mining approach that utilizes publishy analysis Openits of East (MM) data to automatically pracrate as air goality model for the concentrations of the perfectate mater less than 2.5 to its accusivmonth diagnostes at martine being and enalts. The experiment alterna that our Elevanie Longart Ene model codd powersky accurate 75%; ; consent ration extension, which can be used to improve air goldthy smallest that traditionally rely an expert selected layer. That approach also quantifies the impact on air quality from a vantsty of prographic findness (i.e., how various types of prographic hadoms had no puriting but and commercial haddings affect on and area tutteral and authorogenic six policities energie. This approach is particularly important for enabling the construction of contest specific qualitatespecial models of air publishes, allowing investigations of the impact of air collaborate expression on weather population each as didden with address at reals.

CCS CONCEPTS

-bidemantive systems -- backet largesst systems:

KEYWORDS

296), 1 Conventorion, Air Quality Holes, Geograph Date Strong.

ACM Reference former.

Yang Liu, Yan Yan, Yan Chiang, Statisti Hagadh, Jod Lian Jindhin, Sun San, Ji Jiang, and Shan Habar. 2011. Manag Shillin Salaman San. Persisting Selfs-Cay Phys., Communication of A Sin. Special Self-anniance. In Proceedings of ArXIV SIGNATURE. Analosis Stanfor, Co., USA: Streetsber. 2017. (SIGNATURE).

DCS-36.7141/www.manage

1 INTRODUCTION

Title pietinitrie patter (PNL, y) counts of particles less tites 2.5 es le aconfessante Austrie Dut once infested can penetrate fin requisitie region of the longs and contribute to requisities and cardiometribe Server. Typical primary was res of contributions to few portunists makes under visionary and working reliable reflective, and person plants. Secondary PM_{3,3} is also formed as a rough of given-classical routions in the absorphore in the prostate of previous game and solar radiation. Transmissional studies have above associations between supercire to PM, a subtraction health contitions, including long and required any disease (21), each us softens [1, 1]. In the 1995 hardrants are pollution. Theread tip Cities Study 130 and other recent studes (16), researchest reported associations between the levels of exponent to him particulars conposterious and the sixt of australity and apprinting by viting of ever the books. As a result of this associate evidence and several other similar studies, somy countries have set againstal audiated many-based and quality standards for FMs s. In the United States, the Contravanted Protestion Agency (Cli SPA) art PR(1) stordeath and established the air quality index (AQS) to communicate relative health risk levely of carnel polistics. Jevdy compared to the standard which is conversal by PNL a convertation. Dar LS ACT ranges from 6 to 500 and consists of six categories. "Cond" "Machiner", "Victorabley for Sensitive Groups", "Tribuskity", "Vary Univality", and "Distantinal". Firsts at unbits of pellicitati reservetrafers taken over one salvalate for corresponding ACE and its health shill conspany for each type of regulated air pollution. For example, a 30 g/m² PM₂ ; resonantiated introsposals to set AQI of 60 and a in the "Madeste" collegers, which income that "he pacific is acceptable. Assesse: for some pollutates there may be a recorder Supply sylpton States, year a with around Standard viandously attenuelly amothe to air polisition," A stirp to FML a recommend consequentions on AQS of 110 and is in the "Delevable," unagrey.

Untitled

Haotian Zhang data pipeline & visualization programming

Jing Peng web development & visualization programming