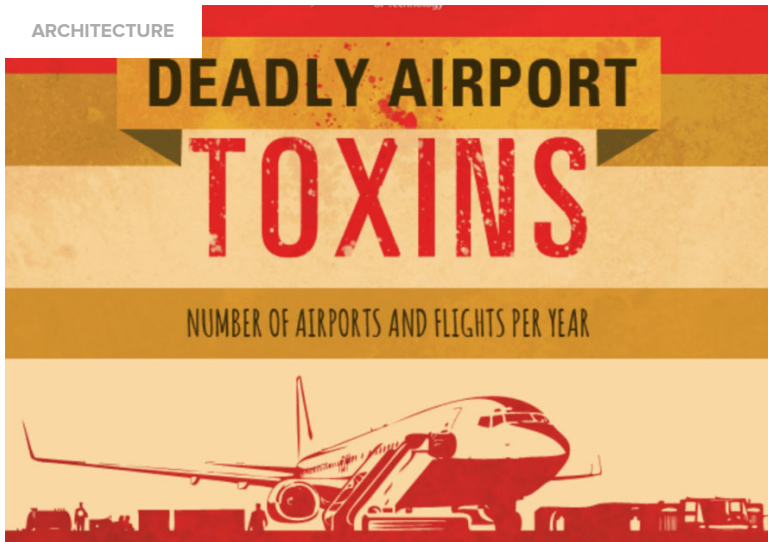


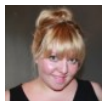
INFOGRAPHIC: The toxic dangers of living near an airport

ARCHITECTURE



04/28/2016 under [Architecture](#), [Environment](#) 0 Comments

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by Kristine Lofgren

VIEW SLIDESHOW

The US aviation industry has grown to be the most robust in the world, shuttling millions of passengers from one point to another every year. According to the New Jersey Institute of Technology, more than 8.5 million flights departed from US airports in 2014 alone. In addition, the number of airports increased from 15,161 in 1980 to 19,453 in 2013. Along with this rapid expansion, and under the aviation industry's veneer of transport efficiency, lies a deadly secret very few people are willing to discuss in air travel: deadly **toxins** emitted through the day-to-day operations of the industry. To learn more deadly airport toxins, checkout the **infographic** below created by the **New Jersey Institute of Technology's Masters in Civil Engineering Online** degree program.

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DEADLY AIRPORT TOXINS

NUMBER OF AIRPORTS AND FLIGHTS PER YEAR



8,681,333

FLIGHTS DEPARTED FROM U.S. AIRPORTS IN 2014

THE NUMBER OF AIRPORTS IN THE U.S. HAS GROWN

15,161

1980

19,453

2013

STATES WITH THE MOST AIRPORTS

TEXAS	→	1,957
CALIFORNIA	→	912
FLORIDA	→	852
ALASKA	→	737
ILLINOIS	→	730

OVERVIEW OF TOXINS EMITTED BY AVIATION INDUSTRY

The aviation industry produces large amounts of toxic emissions that are a threat to human health and known to be carcinogenic including:

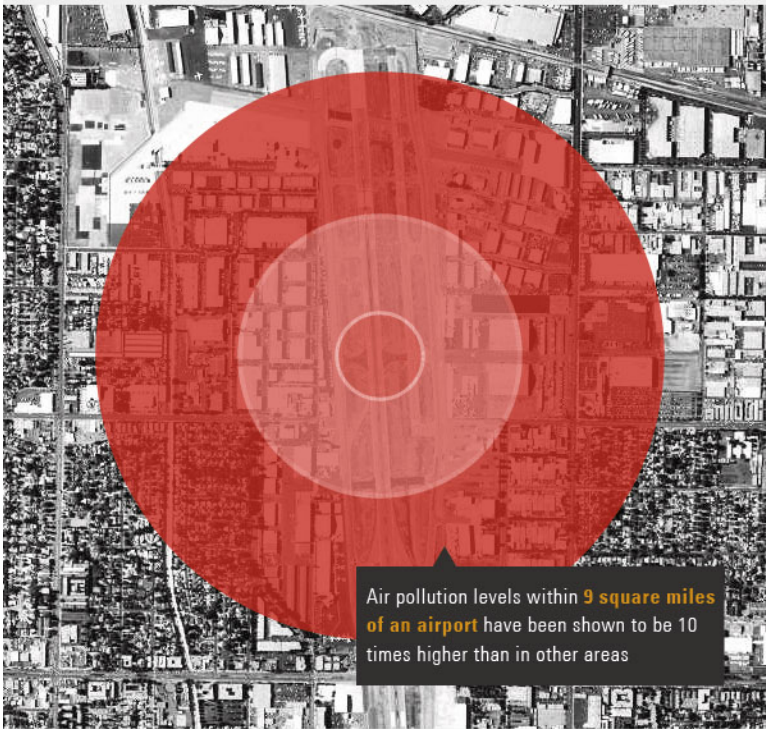


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These minute toxic particles and fumes can easily be inhaled into the lungs and bloodstream of people and animals in the area



STATS ON TOXIC FUMES EMITTED BY SPECIFIC AIRPORTS

SEATAC AIRPORT SEATTLE, WA

The carbon monoxide levels registered above federal guidelines

VAN NUYS AIRPORT VAN NUYS, CA

1.4 tons of lead emissions estimated annually

CINCINNATI/NORTHERN KENTUCKY INTERNATIONAL AIRPORT COVINGTON, KY

All airport terminal services employees tested exceeded the ACGIH carbon monoxide threshold limit value of 25 ppm

LOGAN AIRPORT BOSTON, MA

VOC emissions measured at 667432 kg/yr.

HEALTH RISKS OF LIVING NEXT TO AIRPORTS

CARBON MONOXIDE

- Premature death, at very high levels
- Reduction in the oxygen-carrying capacity of the blood
- Reduction in ability to respond to increased oxygen demands of exercise or exertion in people with heart disease

- Increased respiratory disease and symptoms
- Aggravation of existing heart disease, leading to increased hospital admissions and premature death

NITROGEN OXIDES

- Reduction in the oxygen carrying capacity of the blood

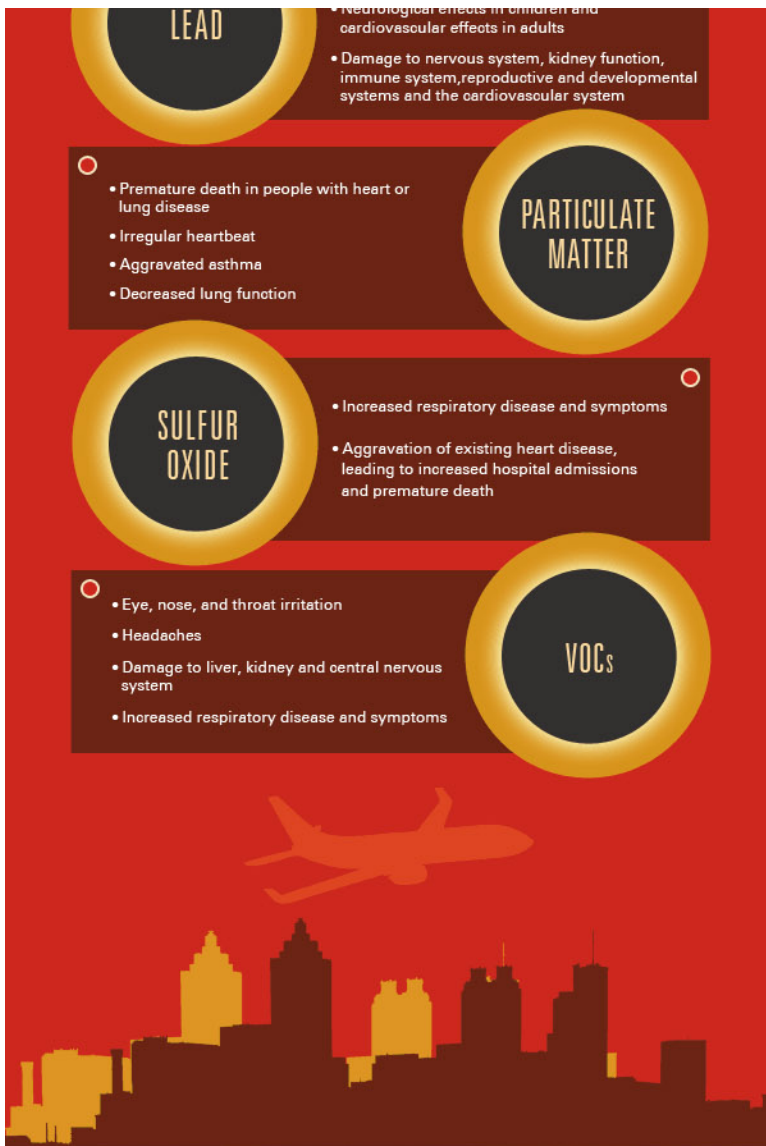
• Neurological effects in children and

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DEATHS AND DISEASES ATTRIBUTED TO AIRPORT TOXINS



HOW CAN WE REDUCE EMISSIONS AND IMPROVE AIR QUALITY?

CIVIL ENGINEERS AND THE AIRLINE INDUSTRY CAN

DESIGN AIRPORTS TO HAVE EFFICIENT

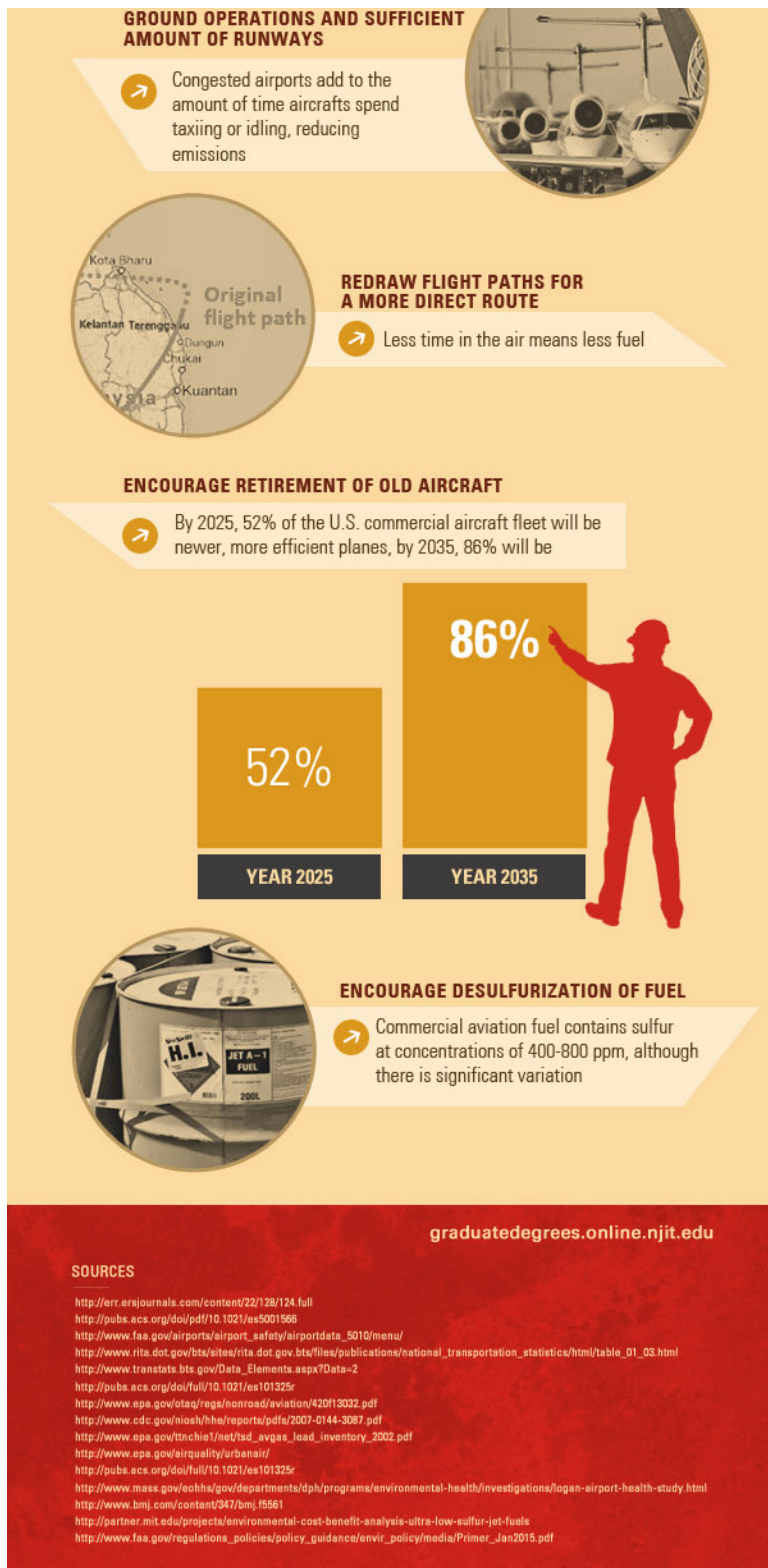
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+ New Jersey Institute of Technology's Masters in Civil Engineering Online

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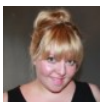
The devastating reason Mumbai dogs are turning blue

ENVIRONMENT [or Animals, Environment, News, Water Issues](#)

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by Kristine Lofgren

VIEW SLIDESHOW

Lately, blue stray dogs have been spotted running around Navi Mumbai, India, and it's no laughing matter. Inadequate waste treatment at a local river has allowed dye to leach into the water, turning dogs who wade in a bright blue color. To add to the concern, the **pollution** is likely harming fish and birds who rely on the water resource.





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Residents began noticing blue dogs roaming the streets and were prompted to bring a complaint to the local authorities, asking that the water pollution be controlled. “It was shocking to see how the dog’s white fur had turned completely blue,” **said Arati Chauhan**, who runs the Navi Mumbai Animal Protection Cell.

Related: What’s the deal with this green cat?



According to the **Hindustan Times**, “the levels of biochemical oxygen demand (BOD) — the concentration of oxygen required to sustain aquatic life — was 80 milligram a litre (mg/L). Levels of chloride, which is toxic, harms vegetation, aquatic life and wildlife, were also high.

“Allowing the discharge of dye into any water body is illegal. We will take action against the polluters as they are destroying the environment,” said Anil Mohekar of **MPCB** in Navi Mumbai. According to Arati Chauhan, she and others have been working with local authorities to assure that the problem is cleaned up and prevented in the future.

Via the **Hindustan Times** and Boing Boing

Images via **Arati Chauhan/Deepak Gharat**



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