

A large industrial smokestack is visible in the lower-left foreground, emitting a thick, dark plume of smoke that rises and spreads across the sky. The sky is a mix of dark, heavy smoke and lighter, orange-hued clouds from a sunset or sunrise. The overall mood is somber and industrial.

# IT IS IN THE AIR

Team and project presentation



# BACKGROUND & CONTEXT

12% of Infant mortality

World Health Organization, data of 1997 – 2006

1% of World GDP lost to air pollution

OECD, 2060 projections



# TARGET AUDIENCE

Kindergarten or school

*Can we plan outdoor trip tomorrow?*

Pharmacy

*Should we stock on asthma medication?*

Tourist Rental Business

*Bring in more workers to cope with the demand?*

# TEAM\*

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MSc CS, Honors from SUAI



Passion for

... Data Science

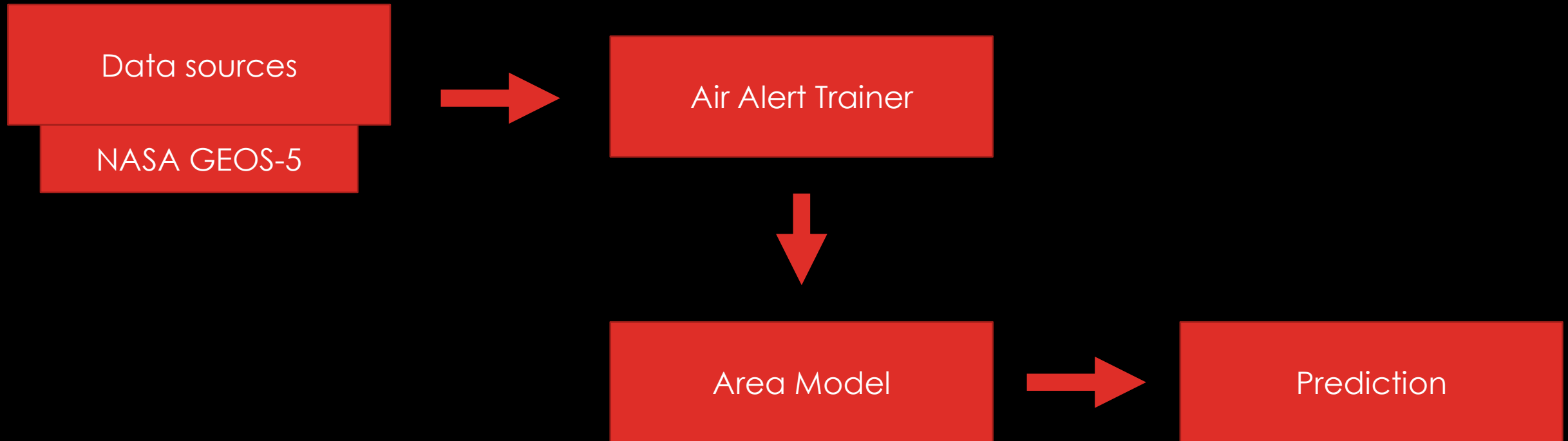
... Machine Learning

... Earth observation

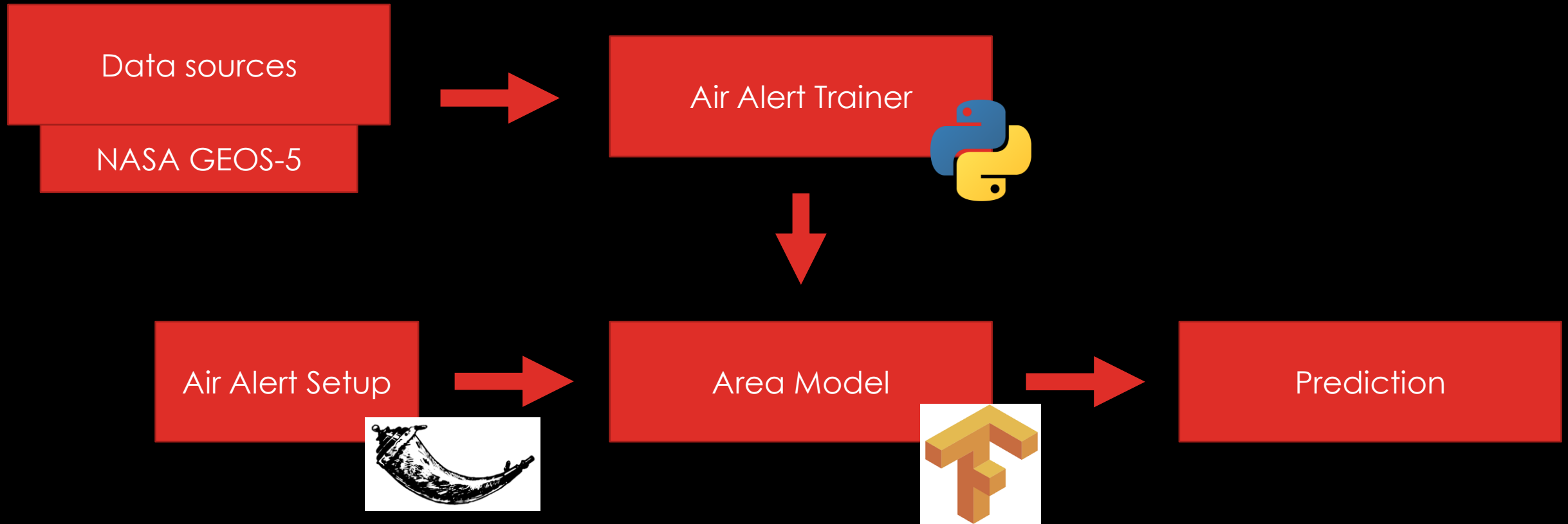
... Data-driven *business management*



# FROM DATA TO DECISION



# TECHNOLOGY





# TECHNOLOGY

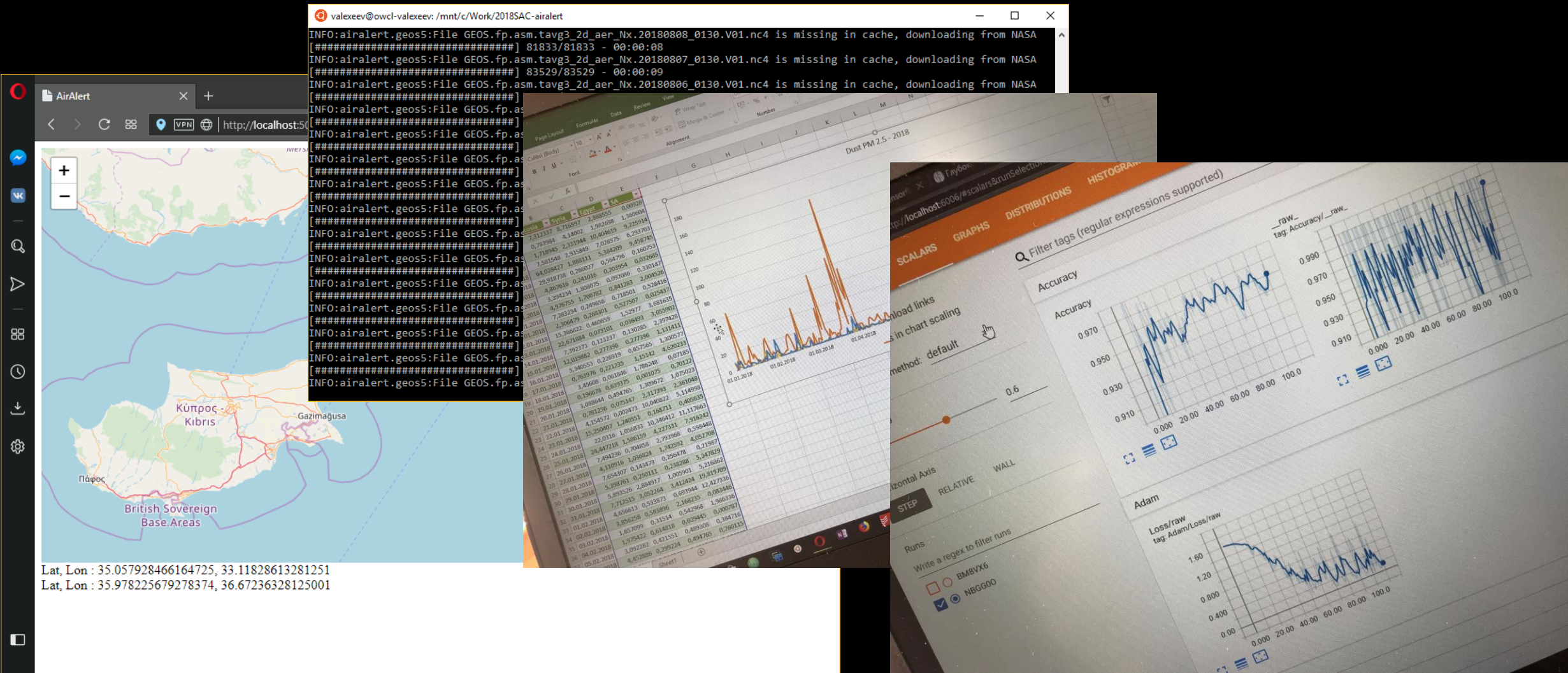
Data: NASA GEOS-5 FP in NetCDF4 format, PM 2.5

Processing: Python 2.7, Flask

Machine Learning: Google TensorFlow, TFLearn



# IN ACTION





# NEXT STEPS

Mobile application

Advanced push alerts

Connected devices

