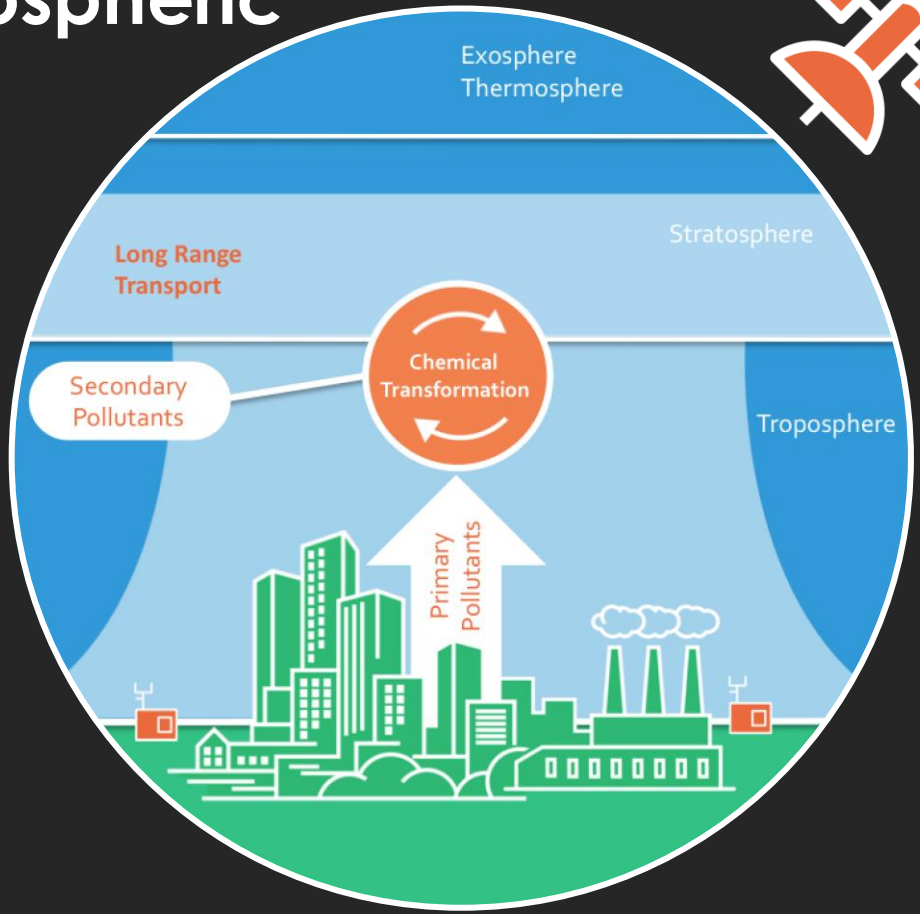
SCEPTERAIR

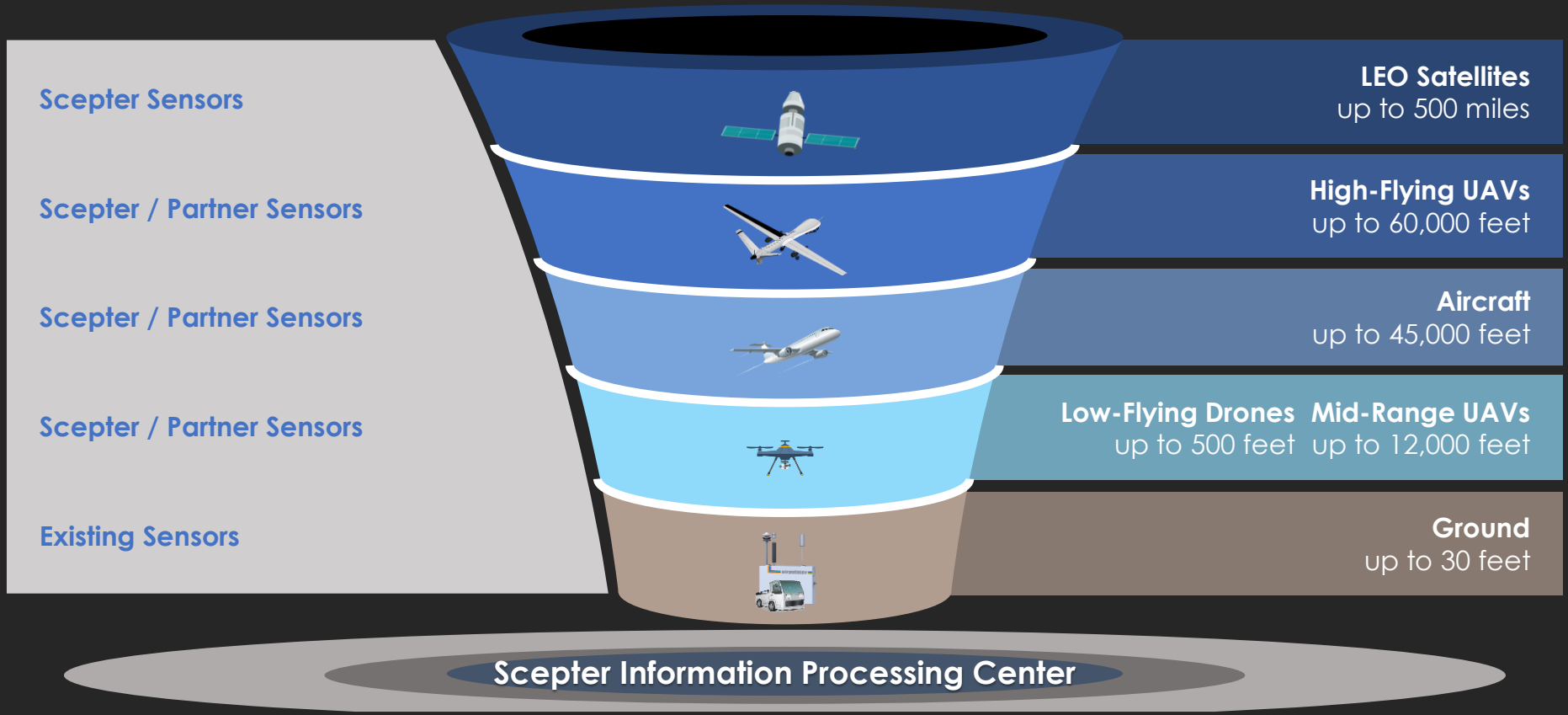
State-of-the-Art Atmospheric Monitoring via an Integrated Data Analytics Approach

Building a Global Atmospheric Monitoring System

- Integrate and Visualize the Vertical Air Column
- Tackle the Next Big Data Frontier, Environmental Data



Proprietary, but Leverage Free



Transforming Atmospheric Data Into Actionable Services – "ScepterAir"

Patent: "**Atmospheric Sensor Network and Analytical Information System Related Thereto**"

Sensors

(Scepter and 3rd party)

Data Aggregation

Fusion

Analytics & Machine Learning

Presentation

Ecosystem Approach

Key Target Markets

Monitoring & Compliance Verticals

Legislated and Self Reporting Needs

Commercial & Government Verticals

Revenue Enhancement, Cost Reduction, Strategic Decision Makings Needs

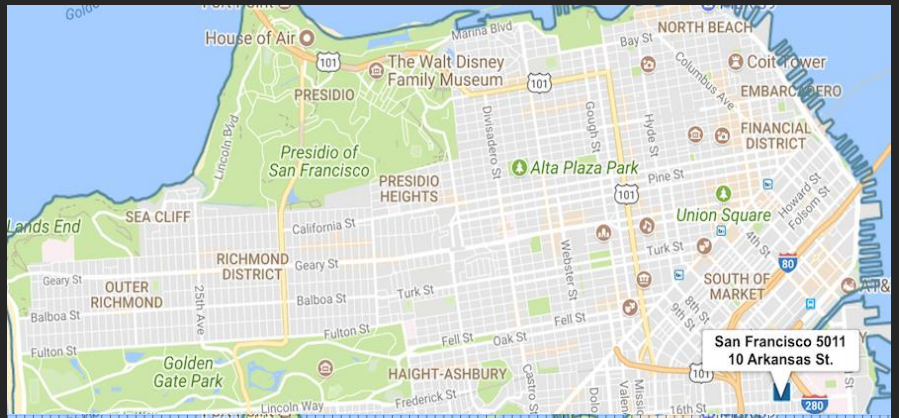
Climate Vertical

Leadership, Trust and Cost-effective Implementation Needs

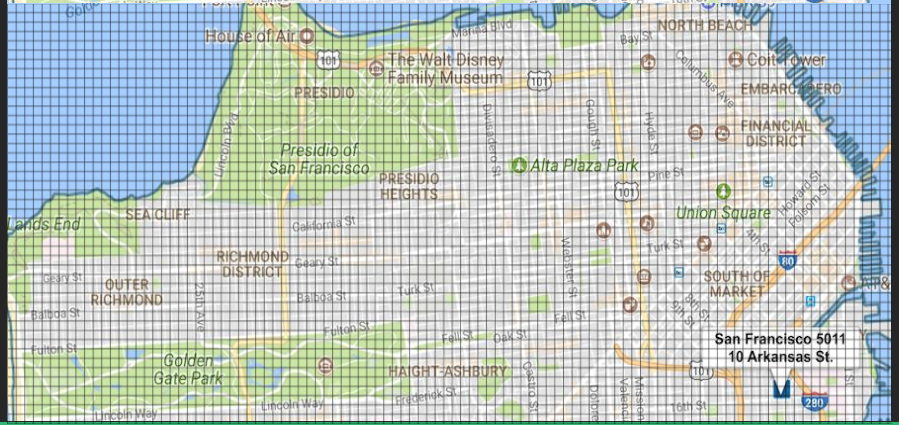
How We Help: Monitoring and Compliance

- Community Monitoring
- Big Data Fusion
- Health Alert Services, for Example

Before



After



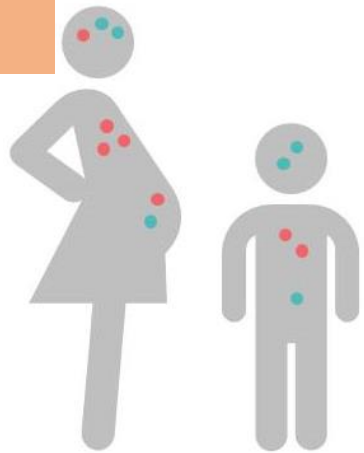
How We Help: Commercial Markets

Air Pollution and the Intersection of Healthcare

Corporate Concerns of Pollution

- Liability Management
- Risk Mitigation
- Disaster Avoidance
- Compliance
- Corporate Social Responsibility
- Fiscal Responsibility
- Brand Management

Health Effects of Pollution



Caused by Fine Particles

Accepted Effects:
Shorter life
Stroke
Heart disease
Asthma*
Lung cancer
Reduced lung function
Low birth weight

Possible Effects:
Learning disabilities
Alzheimer's
Depression
Autism
Obesity
Birth defects
Diabetes

How We Help: Climate

Methane Monitoring

SCEPTERAIR

+

OGCI

OIL AND GAS CLIMATE INITIATIVE

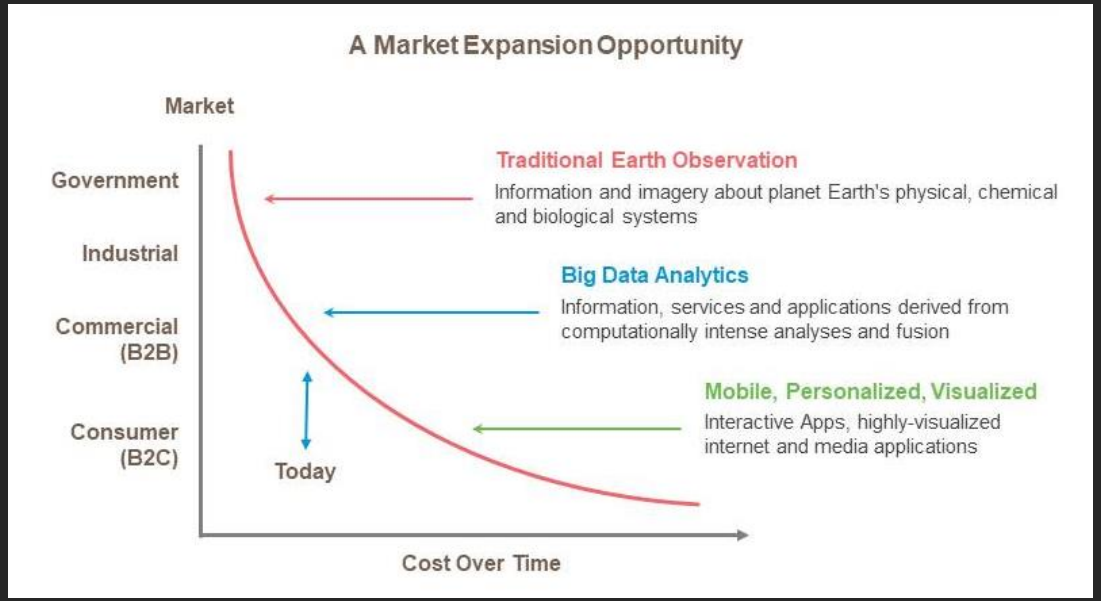
INVEST
in technologies
and solutions

DEPLOY
with members
and partners

We Leverage Market Trends

Unique Timing

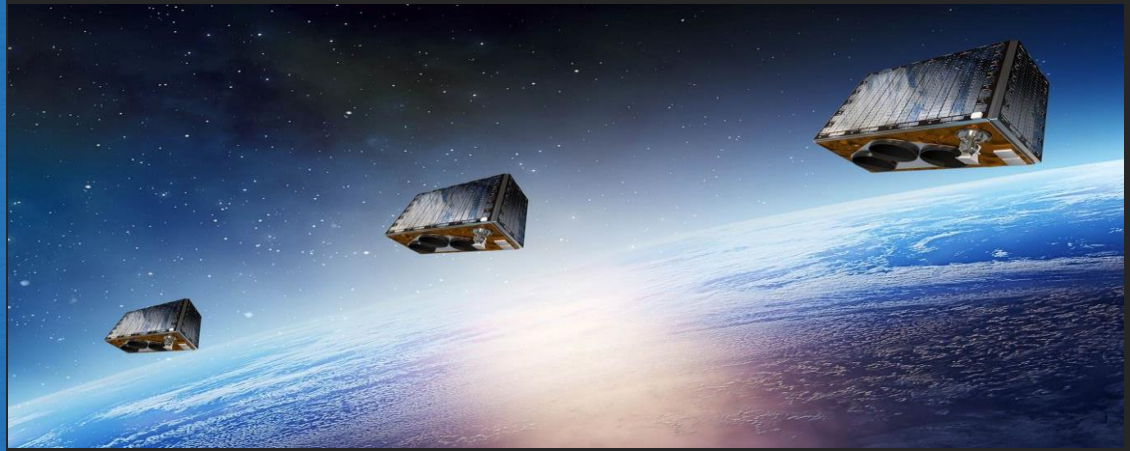
- Lower Cost Access to Space
- Big Data Analytics, Environmental Data as Next Frontier
- COTS and Sensors
- Security, Immutability



Trends

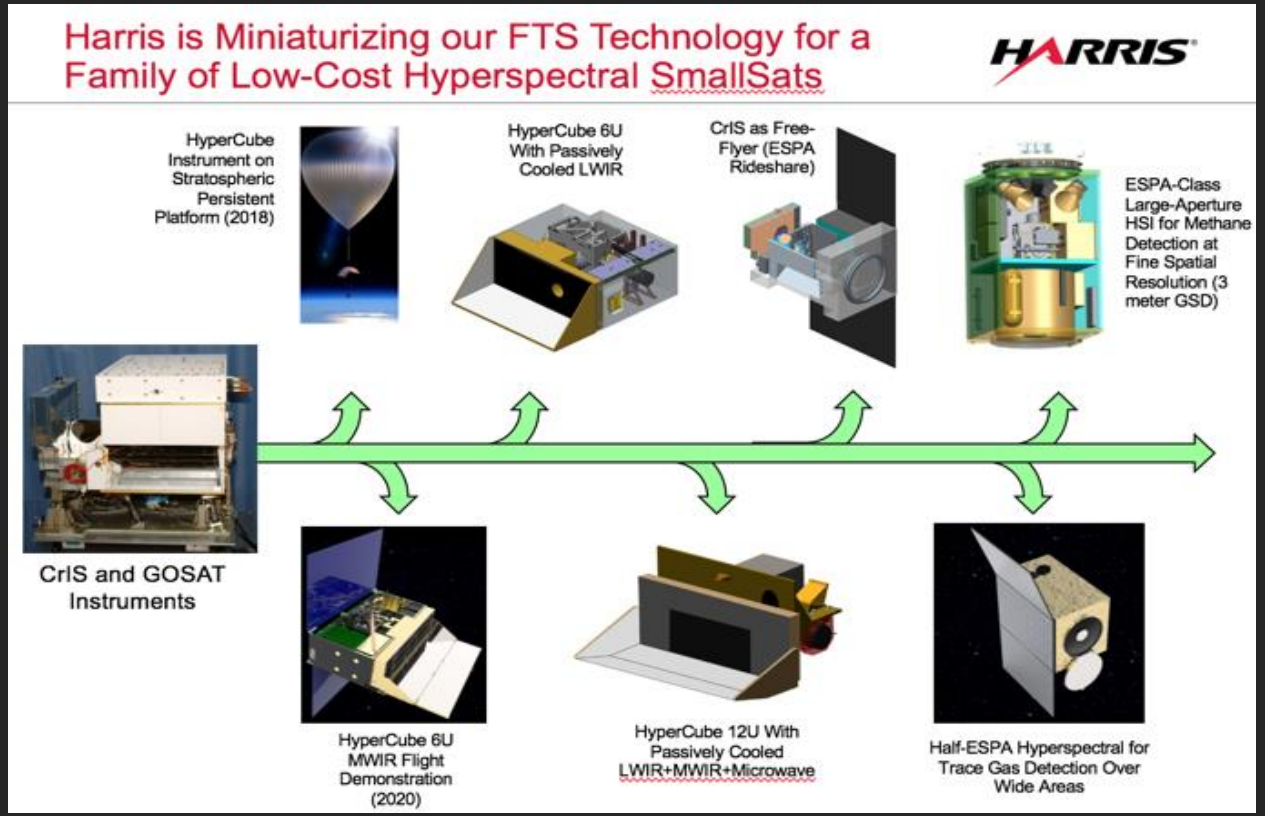
New Space Economy

- LEO Constellation
- Global
- Real time



Trends:

Sensor(s) by Harris for Example

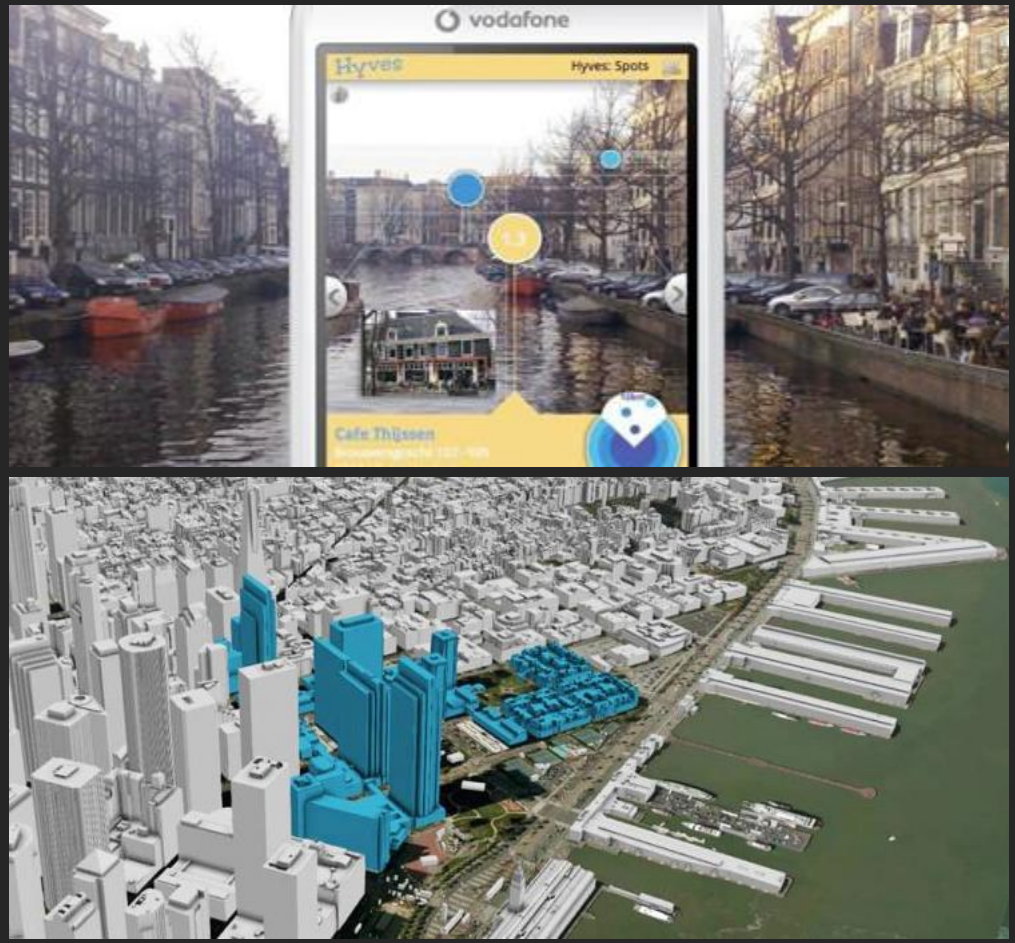


Trends:

Visualizing Data

Any Vertical, Any Device, Any Time

"The soul never thinks without a picture" - Aristotle



Potential End State

Scepter-Driven, Trusted "Clearing House"

Emerged from Stealth Mode

SPACENEWS

5th edition
LATSAT
May 15-16, 2018 / Mexico City

Scepter Inc. unveils plan for global atmospheric monitoring constellation

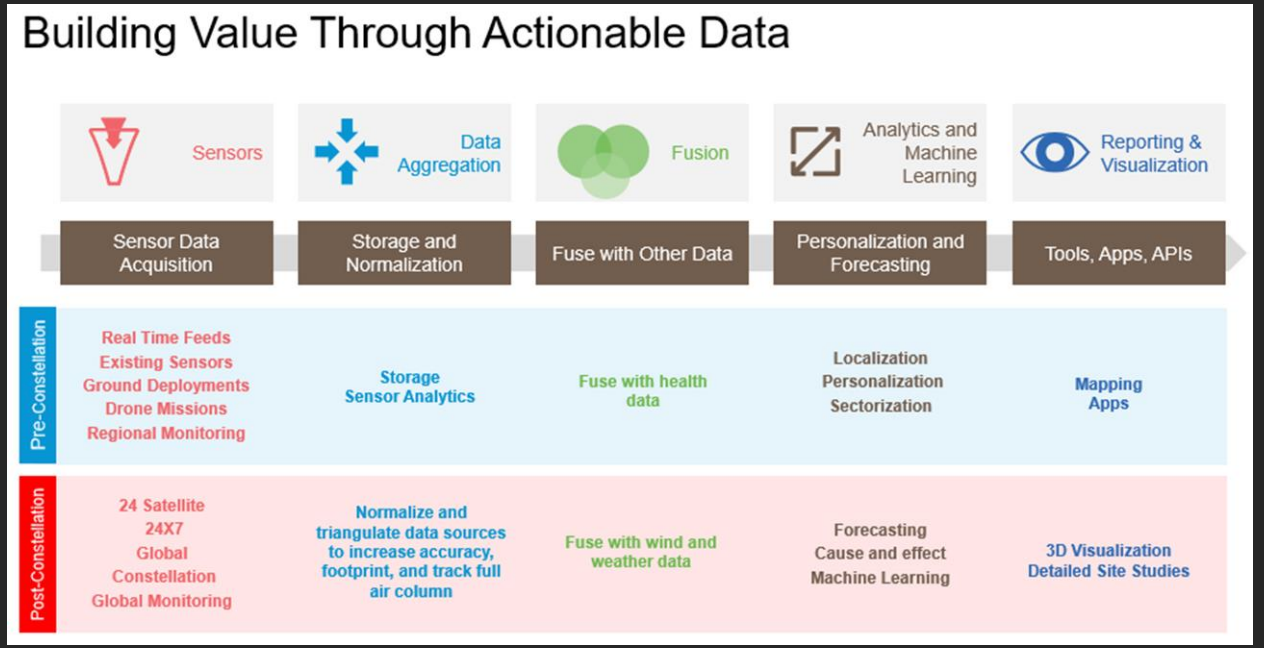
by Debra Werner — March 23, 2018

Philip Father, Scepter chief executive, and former DigitalGlobe executive Rafay Khan, discuss plans for a global constellation of atmsopheric-monitoring satellites at Space Systems Loral, a Maxar Technologies company. Credit: SSI.

PALO ALTO, California — Scepter Inc., a Silicon Valley startup, unveiled plans March 22 to launch a constellation of satellites to provide global atmospheric monitoring services for government and commercial customers.

Customer Activity Today 1/2:

Data Fusion



Customer Activity Today 2/2:

DigitalGlobe Aerosol Optical Depth

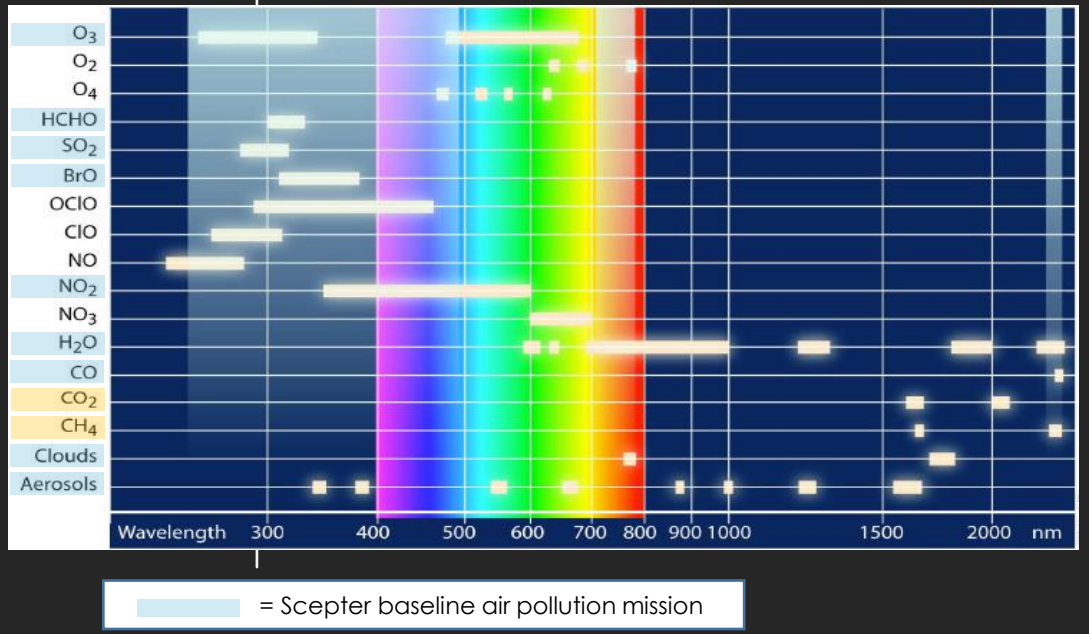
Appendix

Sensors Monitor Air Pollution and Climate

Approximately 25 Species Comprise Baseline Mission

- CH_4 and CO_2 are within wavelength range

Example Plot of Wavelength for Different Species



Source: The TROPOMI Telescope, Ad Verlaan