

DECISIONX can cut 2% of human climate impact, reduce asset costs, and create new digital battlespaces.

Digitising the planet from surface to space.

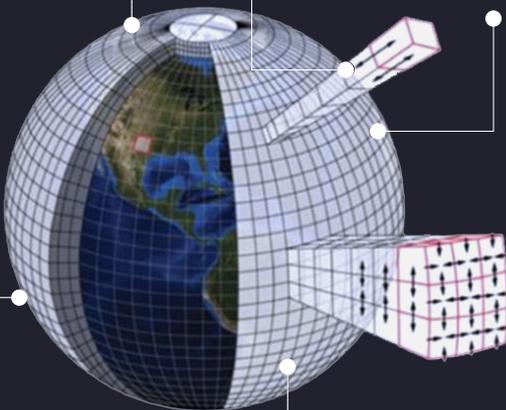
SATAVIA's unique 5-DX technology creates a digital twin of the Earth's atmosphere in five dimensions from surface to space, supporting decision-making across wide-ranging use-cases for all organisations influenced by air, climate and ocean.

Hyper-resolution:

Timestep 30 seconds
Grid spacing 5 km 60 vertical levels 4 billion model cells

Vertical exchange between levels

Horizontal exchange between columns



Dynamics core:

Heat fluxes
Radiation fluxes
Moisture fluxes

Meteorology:

Pressure
Temperature
Humidity
Wind Speed
Hydrometers
Aerosols

DECISIONX offers unique benefits with strong ROI:

- Quantify any meteorological parameter at all points in space and time at over 6 billion locations in the Earth's atmosphere
- Generate terabytes of data in hours with up to 1 quadrillion computations per simulation day
- Scale computing infrastructure up and down on demand, leveraging flexibility and security of Microsoft Azure
- Avoid downtime with industry-leading availability, backed up by advanced devops
- Analyse any use-case in a hyper-fidelity digital twin environment, predicting outcomes while limiting real-world costs

SATAVIA's existing product suite spans three high-impact use-cases

NETZERO:

Enabling aviation to reduce climate impact by 60%



Aircraft contrails cause 60% of aviation's climate impact. DECISIONX:NETZERO allows operators to prevent, quantify, and offset climate impact arising from contrail formation.

FLEET:

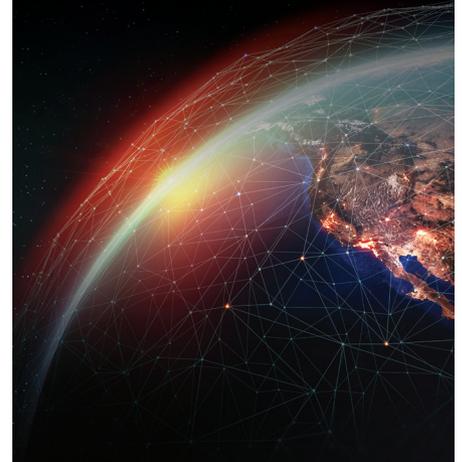
Enabling cost savings through smarter condition monitoring



DECISIONX:FLEET enables smarter condition monitoring for static and mobile assets on land, sea, and air, for any location globally – generating savings in operations, maintenance, and asset lifetime.

5-DX:

Digital atmospheric twin for a suite of defence use-cases



DECISIONX:5-DX enables effective defence and intelligence operations with highly accurate atmospheric and climate data, incorporating security, scalability, and edge capability.

What can DECISIONX do for you? **Contact SATAVIA today!**