

Space for ESG

(Environmental, Social and Governance)

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Introduction – AXSYSNAV (Toulouse)

Profile

Spacetechnology innovation management, 25 years in the space industry providing advisory services to EC, ESA, CNES and private customers.

Projects

H2020 projects Wildfire Alerts, Space Hubs Network and space robotics study. Galileo, Copernicus and EC certified business coaching. VC investment and corporate deals.



The offices of the company are located in Toulouse, FR

Environmental, Social and Governance

What is ESG?

ESG dossiers are used to promote company attractiveness – in the case of potential financial investment, for example. In 2020, the Black Rock asset manager (€8 trillion) stated it would base all its decisions on ESG criteria.

In financial terms, global **sustainable** investment in 2020 was €25 trillion, an increase of 70 percent since 2014 and ten times the level of 2004.

Environmental, Social and Governance

Why ESG?

ESG is now an essential part of the long-term viability of a company.

ESG proposals increase a company's credit rating and reduces its risk.

Climate crisis can negatively affect operations, with physical and production risks.

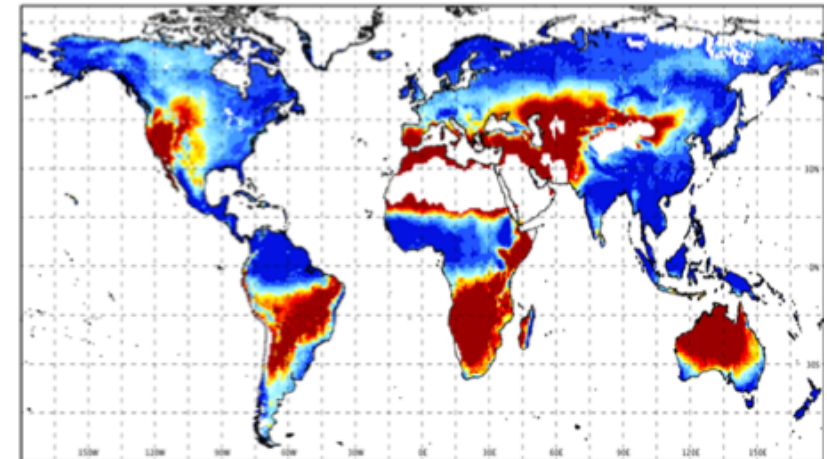
Environmental

Criteria

The carbon footprint of the company, the pollutants and waste products emitted.

An industry's energy/production requirements

The effect the company has on the environment and the means undertaken to reduce this impact.



Social

Criteria

The relationship with the workforce.
Training and education.

Representativeness in terms of diversity, inclusion.

The effect on local population (employment,
migration)



Governance

Criteria

The system the company uses to manage itself, the procedures and practices it uses for compliance.

These guidelines help reduce the number and impact of corporate scandals.



What space can do: Environmental

Space companies can take the current interest in ESG to enhance their customer base and product portfolio.

Downstream space services

Gather, analyse and commercialise geospatial data (EO, Copernicus) for insurance, oil & gas market, solar array prediction.

Proof of compliance with environmental regulation (forests, natural resources, coastlines).

Track supply chain to ensure compliance, e.g. from Farm to Fork or the real cost of re-cycling.



What space can do: Environmental

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Downstream space services

Monitor air pollution from air transport, not only for CO₂ but also methane and other harmful aerosols.

Verify industry complies with local regulation for greenhouse gasses.



What space can do: Environmental

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Downstream space services

Water management for industries like chemical, nuclear, steel, construction and for agriculture like cereals and dairy farming.

Use of remote sensing to predict future water availability in specific regions where industry invests.

Transport sector – EO/GNSS for route optimisation. Also satellite interferometry to prove minimum environmental degradation.



What space can do: Social and Governance

Space companies can take the current interest in ESG to enhance their customer base and product portfolio.

Space infrastructure

Increase social inclusion, better telecommunication links.

This was seen during the pandemic when increased number of people with handicap could now work from home.



Thank you!

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