

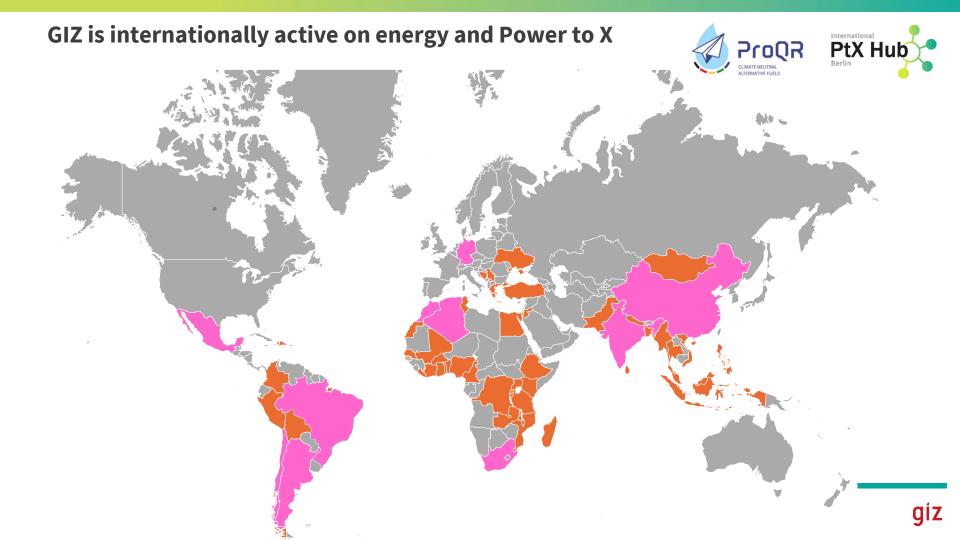


On behalf of:









PtX and sustainability

A comprehensive assessment



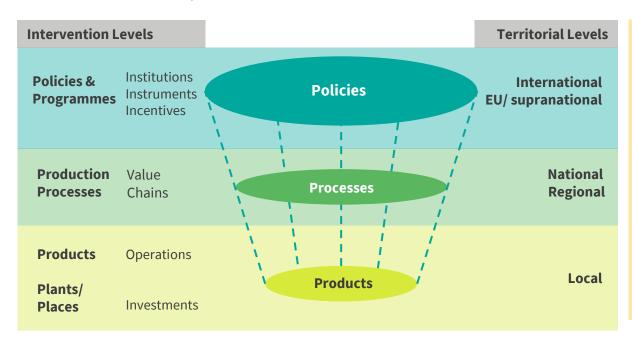


Sustainability concerns must be considered at different assessment levels

Comprehensive sustainability standards must be met, ensuring:

- ecosystem integrity
- · economic value added
- social inclusion
- decent work and human rights
- transparency
- public acceptance
- financial support

at different levels



Tools

Measuring / Monitoring

Valuing / Evaluation

Standards

Certification

Due Diligence

Indicators

- data
- thresholds
- timelines

PtX and sustainability

A comprehensive assessment



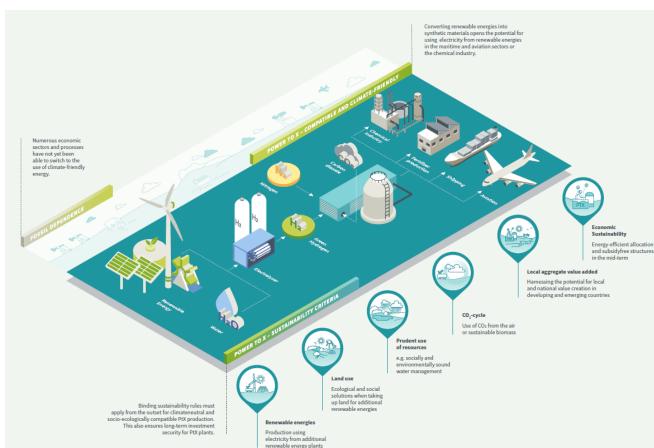


Comprehensive sustainability standards must be met at every step of the value chain.

Ensuring:

- ecosystem integrity
- · economic value added
- social inclusion
- decent work and human rights
- transparency
- public acceptance
- financial support

at different levels and at every step of the value chain



PtX sustainability dimensions

The EESG Framework





Environmental

Energy (renewable & additional)

Carbon (closed cycle)

Water management

Land use & biodiversity

Resources (Critical Raw Materials)

Logistics: Toxicity & safety

Economic

Decoupled growth

Local value added & employment

Energy mix and transformation

Innovation, R&D, Technology Transfer

Infrastructure & logistics

Trade in H2/PtX (EX-IM)

Circular economy

G **Power** to X **Products Processes Policies**

Governance

Political commitment and stability Multisector & multi-level co-operation Transparency & Rule of Law Ease of doing business Local / national ownership Community involvement Stakeholder participation

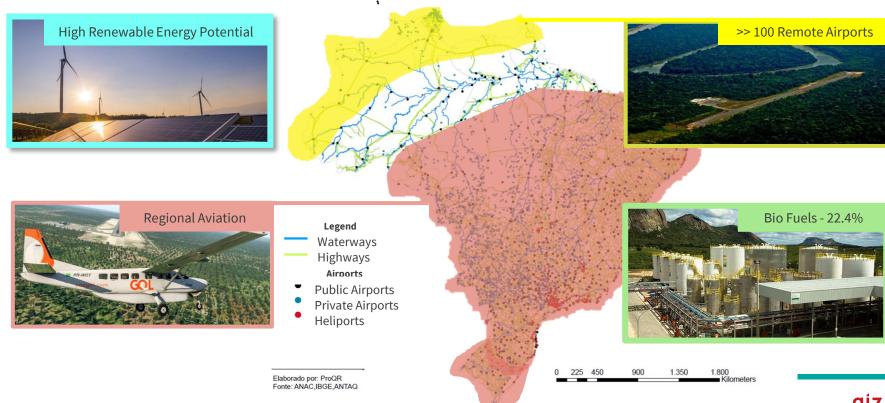
Social

Access to energy and resources Human rights (UN FPIC) Labour standards (ILO) Jobs, skills and training Health and safety Just transition

Brazil - Potential for PtL SAF







Current Developments







- Industrial Zone of Pecém
- **Export** infrastructure
- 5,4 Billion USD projects





National Hydrogen Strategy

(in preparation)

Positive dynamics to overcome pandemic slow down



- Leadership in Energy Transition
- Integration of Public Policies for cleaner transport matrix
- Technical Committee (CT-CF)

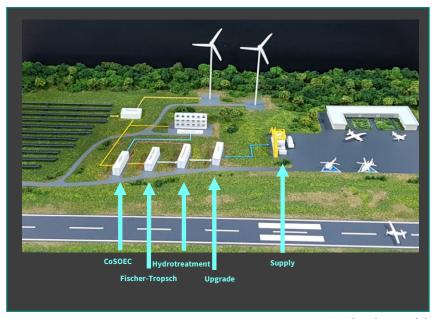


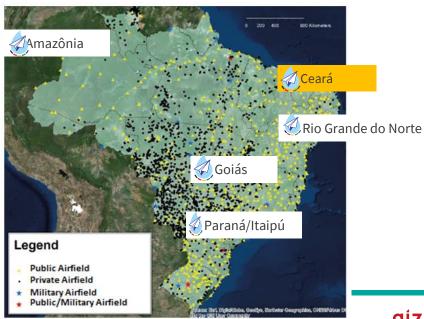
ProQR Climate Neutral Aviation Fuels – PtL-SAF-Project 🔣





- Pilot plant for decentralized fuel production in remote airport (PtL SAF)
- Regulatory advisory
- Studies on feasability
- Collaboration with universities





Thank you for your attention!



info@ptx-hub.org | www.ptx-hub.org



proqr@giz.de | www.ptx-hub.org/proqr









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