

Needs

80% Global trade

IMO, 70% reduction of emissions by 2040

Methanol
Ammonia
Hydrogen, etc.,

NO₂, N₂O, CO₂, NO, CH₂O, BC, CO, PM

Metrology

- Emission measurements
- Dynamic quantities
- Machine learning approaches

Objectives

- Traceability of emission parameters
- Dynamic pressure (0.1–30 MPa) and temperature up to 2500°C uncertainty of 1%
- Virtual sensors and uncertainty budgets for ML models

Approach & Impact

