

i-CEMS

FTIR- Based Carbon
Emission Monitoring System



The Challenge

Every Voyage Produces Emissions. Managing Them Doesn't Have To Be Difficult.

Modern vessels operate under increasingly strict environmental regulations. Manual reporting, multiple sensors, changing regulations and inaccurate emission data can increase operational costs, delay reporting and expose operators to compliance risks.

The Challenge

- Increasing environmental regulations
- Manual emission calculations
- Multiple monitoring systems
- Risk of reporting errors
- Expensive maintenance
- Future regulations keep changing



Our Solution

Integri Marine i-CEMS

A complete Continuous Emission Monitoring System that automatically measures, records and reports exhaust emissions in real time—helping vessels stay compliant while reducing operational effort.

Simple. Accurate. Future Ready.



CEMS Components



Why Choose i-CEMS

Built for Modern Marine Operations



Monitor 10+ Gases Simultaneously

CO₂, CO, SO₂, SO₃, NO_x, CH₄, N₂O, NH₃ simultaneous



0.5 ppm Detection

Superior accuracy vs electrochemical/NDIR — detects at trace levels



Zero Routine Calibration

Virtually maintenance-free operation —significantly lower OpEx



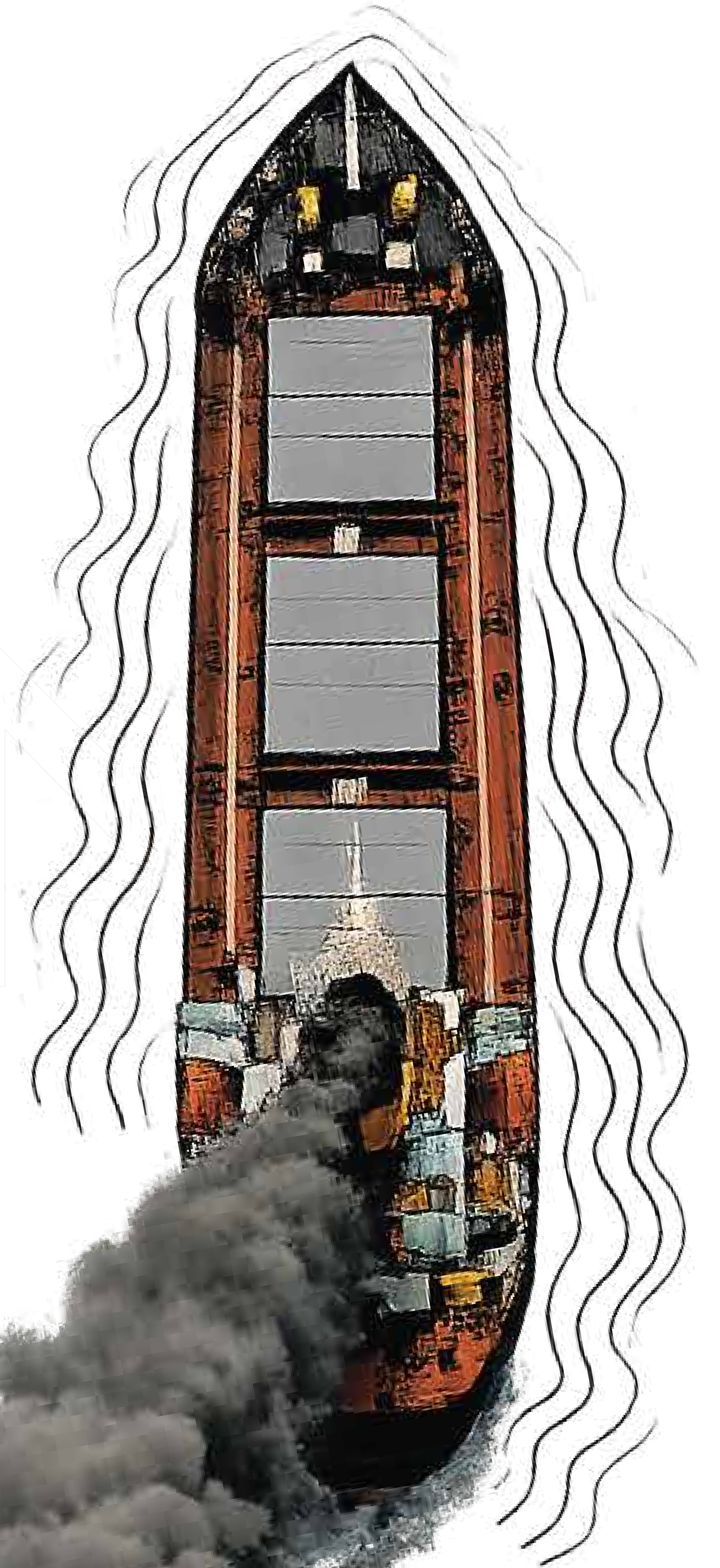
Multi-Stack, One Unit

Single analyzer handles multiple exhaust stacks without cross contamination

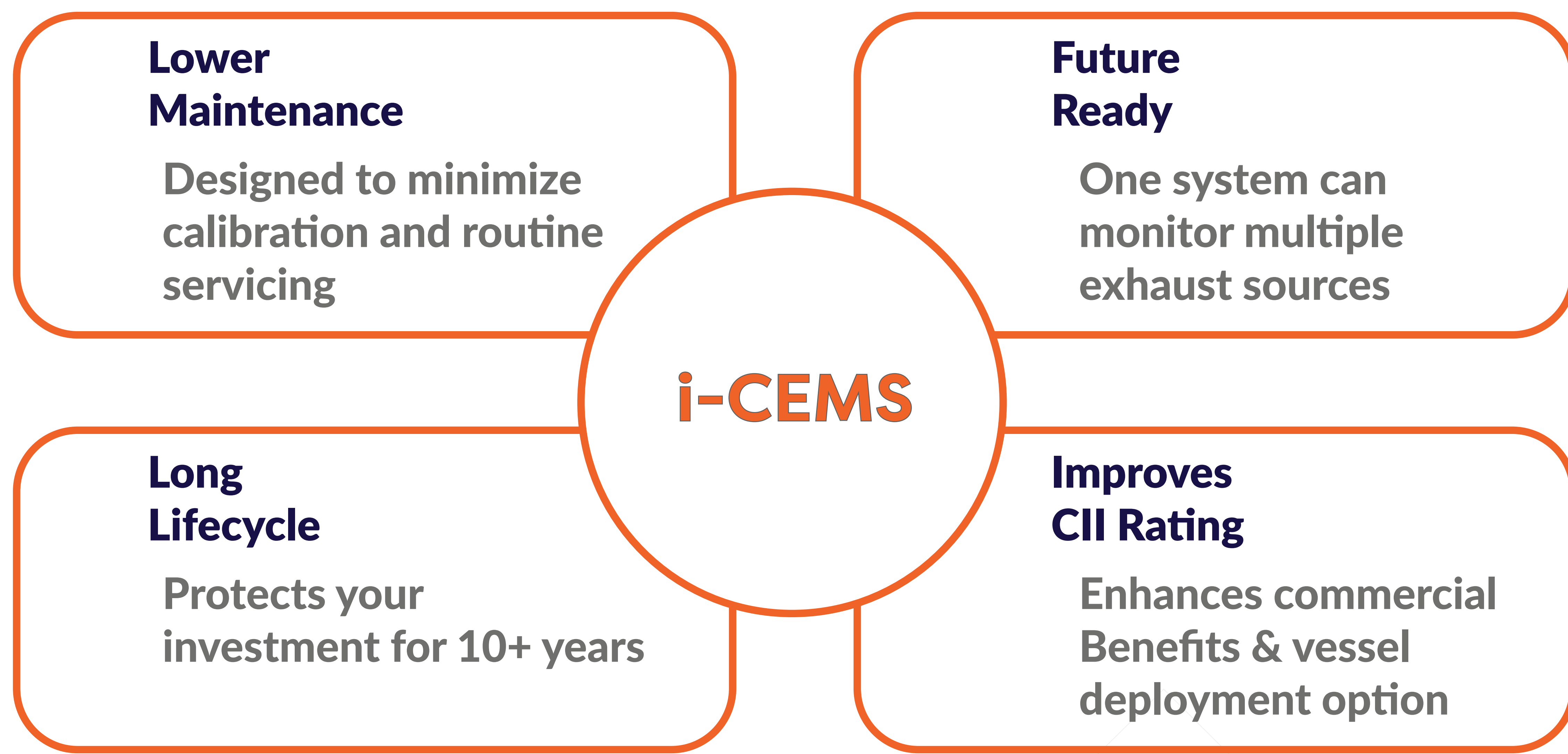


Software-Only Upgrades

New gases added via software — zero hardware swap, zero extra CAPEX



More Than Compliance



Save Crew Time

Automated data collection reduces paperwork and manual calculations.

Improve Operational Visibility

Access real-time emission information whenever you need it.

Avoid Costly Non-Compliance

Accurate monitoring helps reduce the risk of penalties and reporting errors.

Reduce Operating Costs

Lower maintenance requirements and fewer monitoring devices help reduce lifecycle costs.

Protect Your Investment

Software-based upgrades keep the system ready for evolving environmental regulations.

Our Presence



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