UNISON is a cutting-edge
European project funded by the
European Union and
coordinated by CNRS (Centre
National de Recherche
Scientifique).



UNISON focuses on advancing environmental monitoring through high-resolution optical spectroscopy in the midinfrared (mid-IR) spectral range.

BRINGING TOGETHER 8 ESTEEMED PARTNERS FROM 5 EUROPEAN COUNTRIES





Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich







http://unison.c2n.universite-paris-saclay.fr/

MSOn

Grant agreement ID: 101128598

Environmental Monitoring

Telecommunications

And more applications

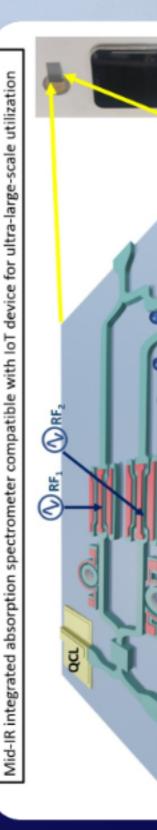




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Why It Matters?

- Enables ultra-sensitive gas detection (partsper-billion level) for environmental monitoring.
- Supports the EU's "Zero Pollution Action Plan" for cleaner air, water, and soil.
- Advances wearable and loT-integrated sensing for real-world applications.



🌣 Key Innovations :

- Dual Comb

 Spectroscopy Leveraging advanced Quantum

 Cascade Lasers (QCLs) and Silicon-Germanium photonics.
- Compact & Scalable Overcomes the size and cost limitations of traditional mid-IR spectrometers.
- Versatile Applications

