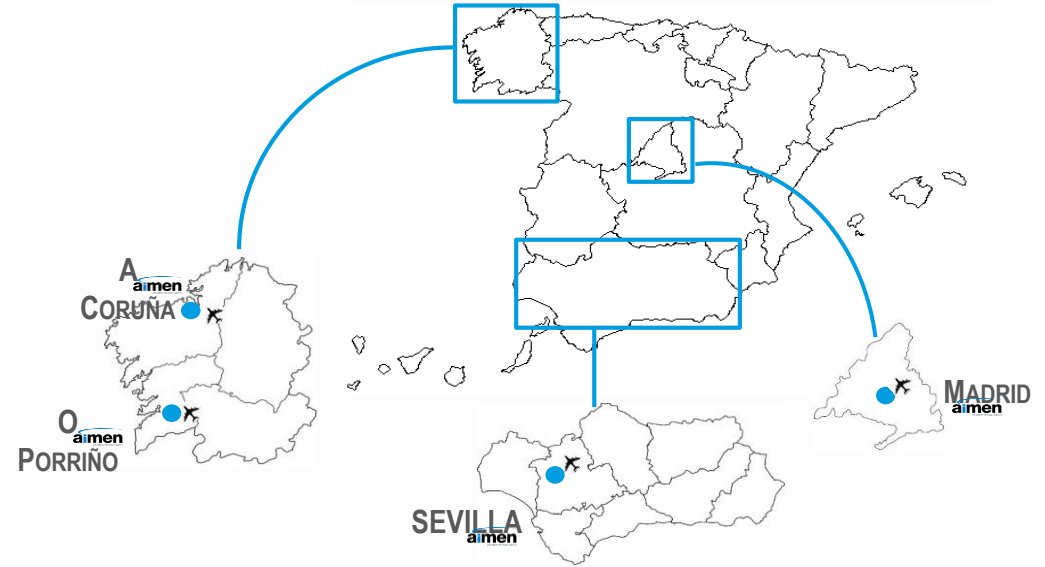


AIMEN

**Gas Detection Activities: LC-MG-1-1-2018: InCo flagship
on reduction of transport impact on air quality**

- Industry supported, private centre
- Applied research in:
 - Polymer and composites
 - Smart Systems and smart manufacturing
 - Additive Manufacturing
 - Laser Based Manufacturing
 - Micro and High Precision Manufacturing
 - Structural and Mechanical integrity
 - Environmental Technology
- Manufacturing Competence Centre
- Headcount: **250**
- Extensive network of industrial partners



PROGRAM	FP7		H2020	
	COORD	PARTNER	COORD	PARTNER
FoF	1	1	3	5
NMBP		1		2
ICT		1	2	2
SC4. TRANSPORT		2		1
SC5. ENVIRONMENT	1		1	
R4SMEs	5	7		
CLEAN SKY			1	
TOTAL	7	12	7	10

SEERS Project – “Snapshot spectral imager for cost effective IR surveillance”

SEERS develops a modular, compact and cost effective snapshot spectral imaging system in the infrared domain (0.7-14 μm wavelength). It's being developed with embedded vision and cognitive fusion capabilities. Robust visibility, robust temperature imaging, gas detection and discrimination, and spill detection will enable event-driven video analysis. Breakthrough performance will be demonstrated in two relevant application scenarios: coastal and road tunnel surveillance.

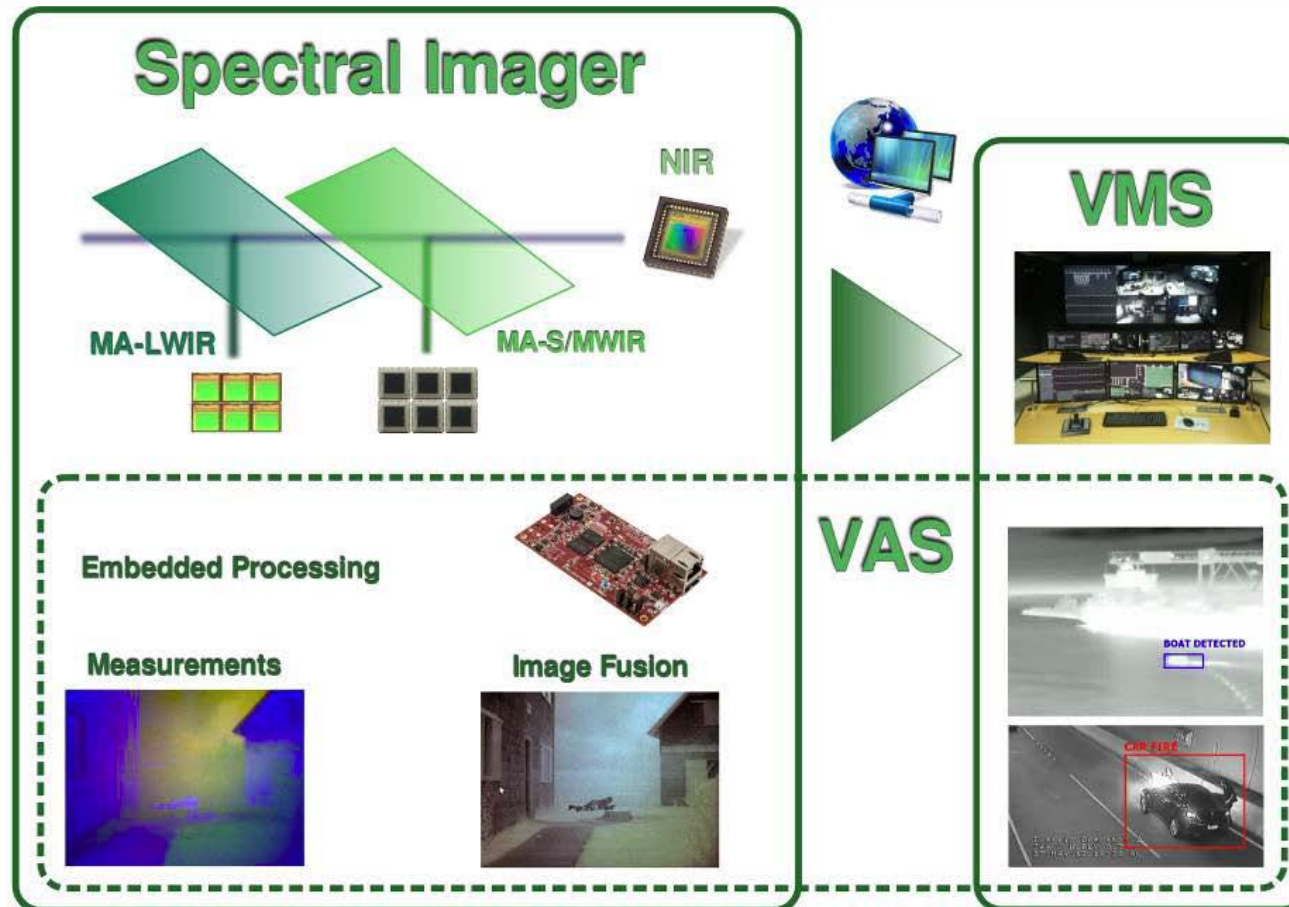


<http://www.seersproject.eu/>



H2020-ICT-2014-1 Photonics KET Application driven core photonic technology (Sensing for safety and civil security)

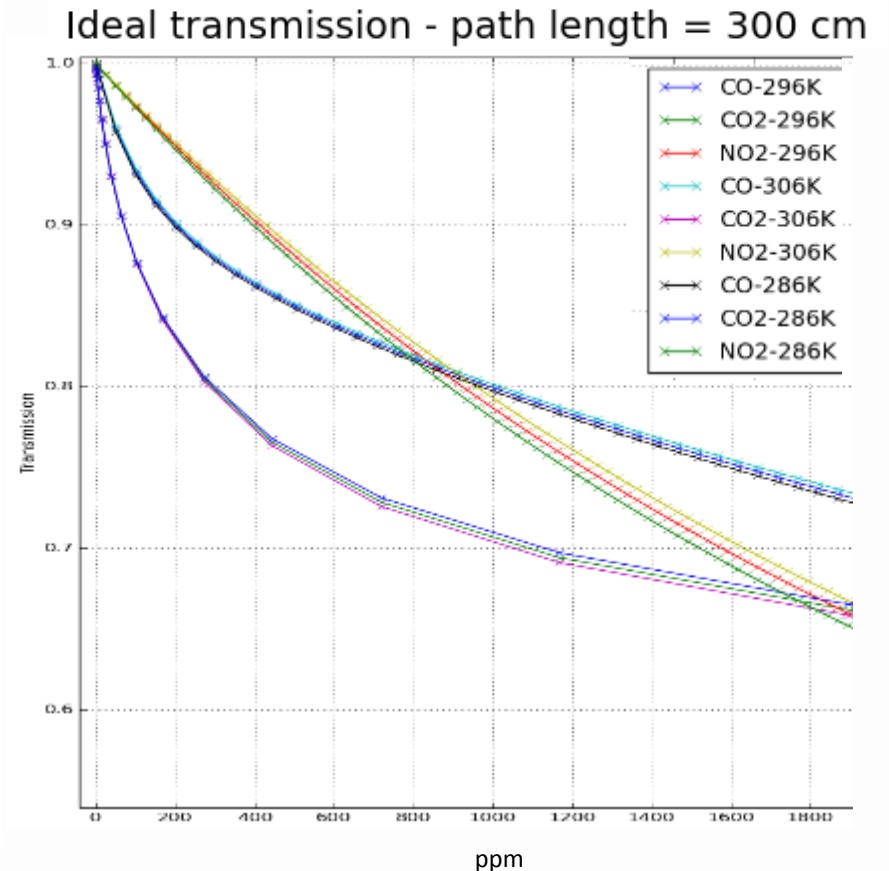
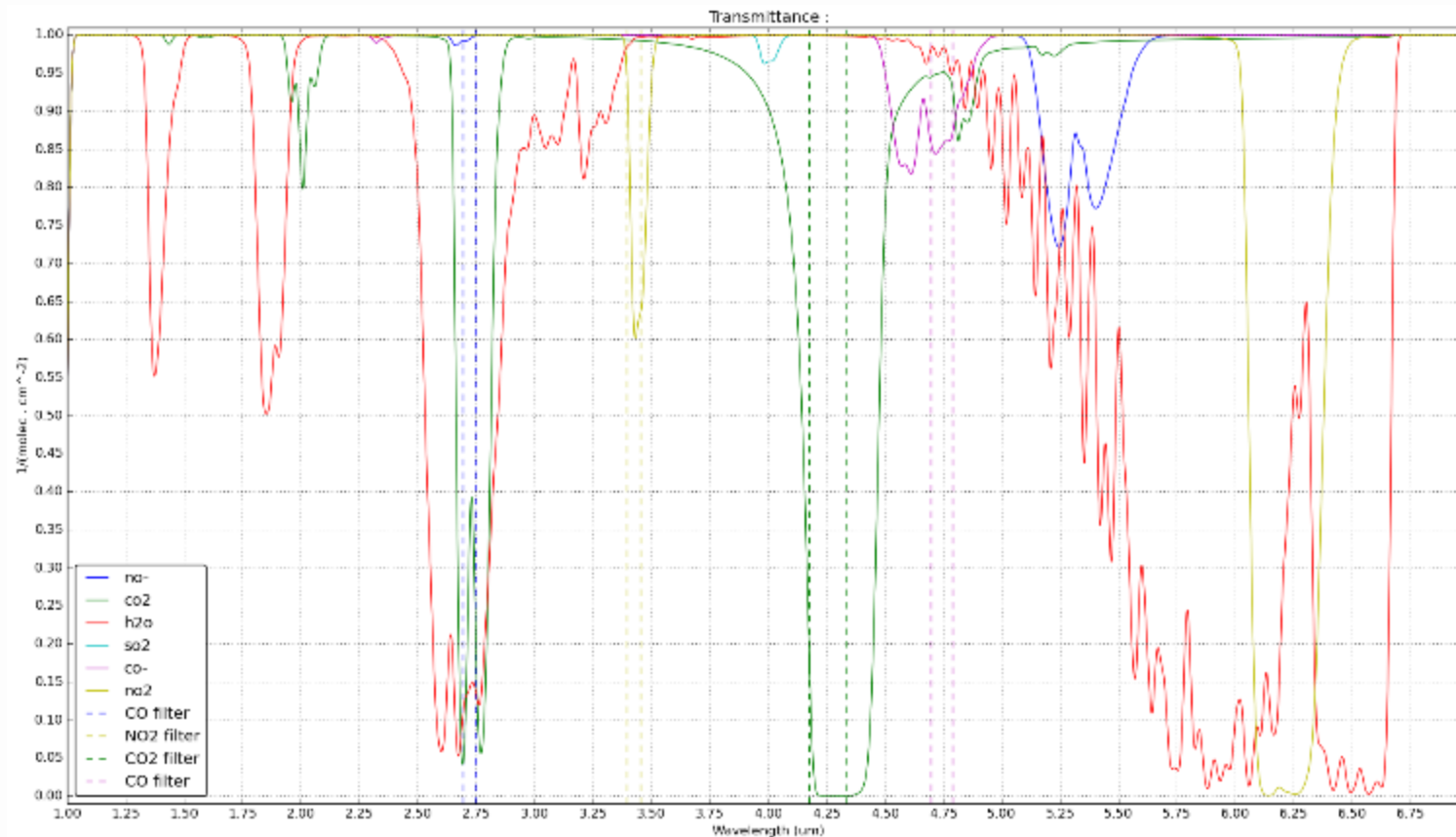
SEERS Project – “Snapshot spectral imager for cost effective IR surveillance”



<http://www.seersproject.eu/>

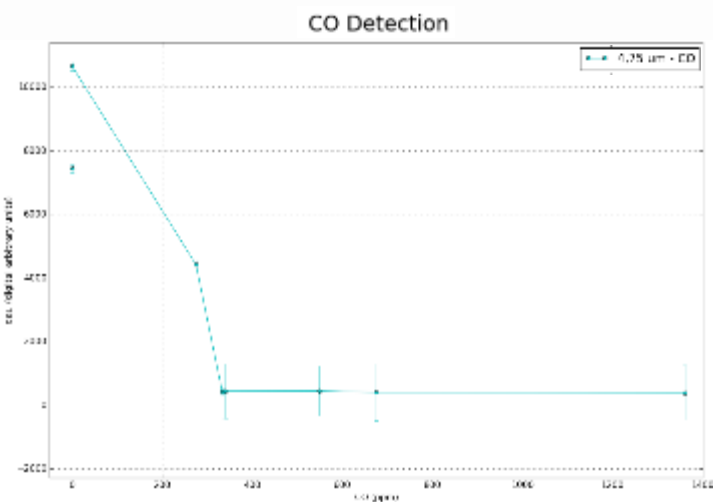
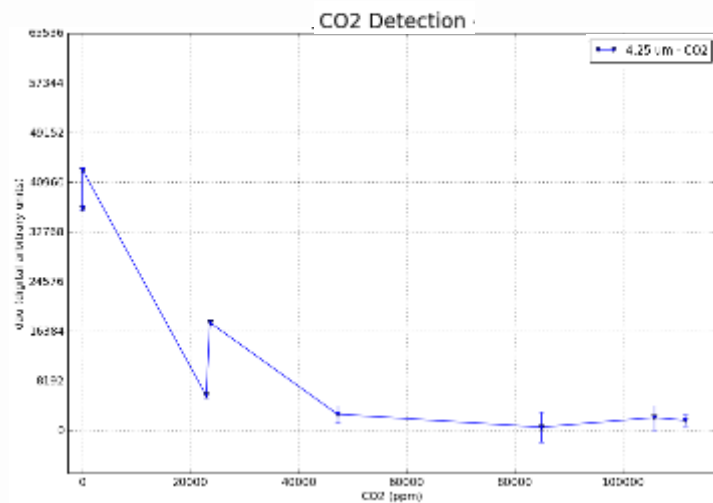
STUDY OF ATTENUATION LEVEL MEASUREMENTS

- **data:** HITRAN (www.hitran.org)
- **procedure:** L. S. Rothman, C. P. Rinsland, A. Goldman et al., "The HITRAN Molecular Spectroscopic Database and HAWKS (HITRAN Atmospheric Workstation): 1996 Edition", Journal Of Quantitative Spectroscopy and Radiative Transfer 60, 665-710 (1998).

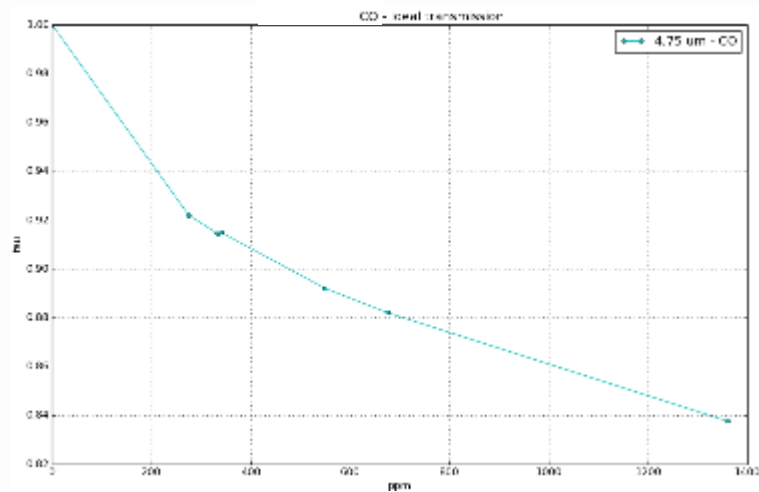
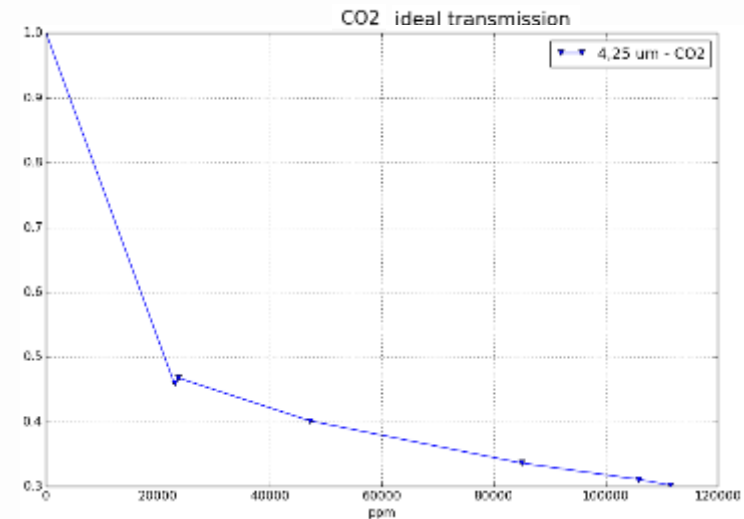


EMISSIONS ANALYSIS WITH DIFFERENT SENSORS

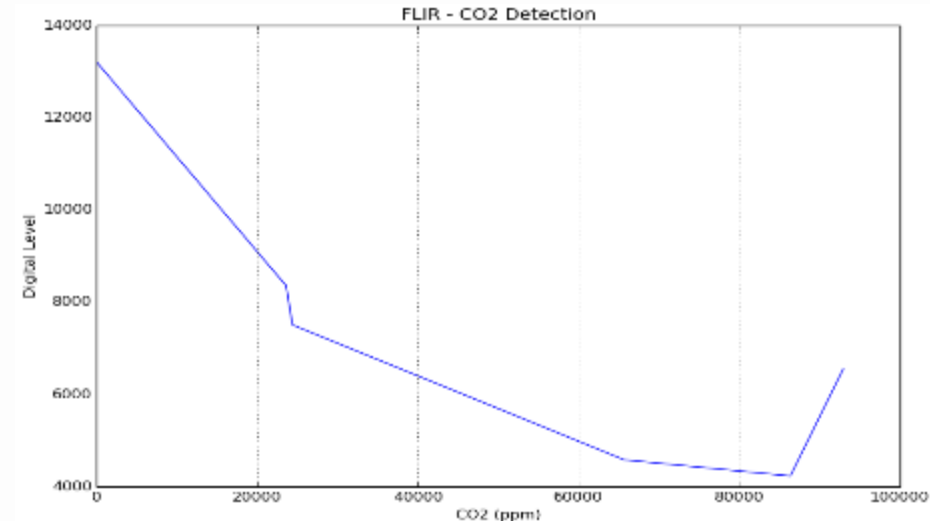
low-cost NIT camera



theoretical simulation



high-cost FLIR camera



GAS DISCRIMINATION AND CONCENTRATION MEASUREMENTS

