

HORIZON Project Partner Search

Who We Are?:

- Part of BILGEM, a governmental research center focused on information technology & electronics, located ~50 kms SE of Istanbul, Turkey
 - <https://bilgem.tubitak.gov.tr/en>
 - 1900+ personnel, participated in more than 30 EU projects since 2004.
- Bioelectronics System Laboratory:
 - <https://biyoelektronik.bilgem.tubitak.gov.tr/en/>
 - Conducts research on: forensic imaging, biotechnology, optical design & development
 - Current products & solutions: <https://biyoelektronik.bilgem.tubitak.gov.tr/en/urunler-cozumler/>

What We Are Looking For: Project Partner(s) for the Call:

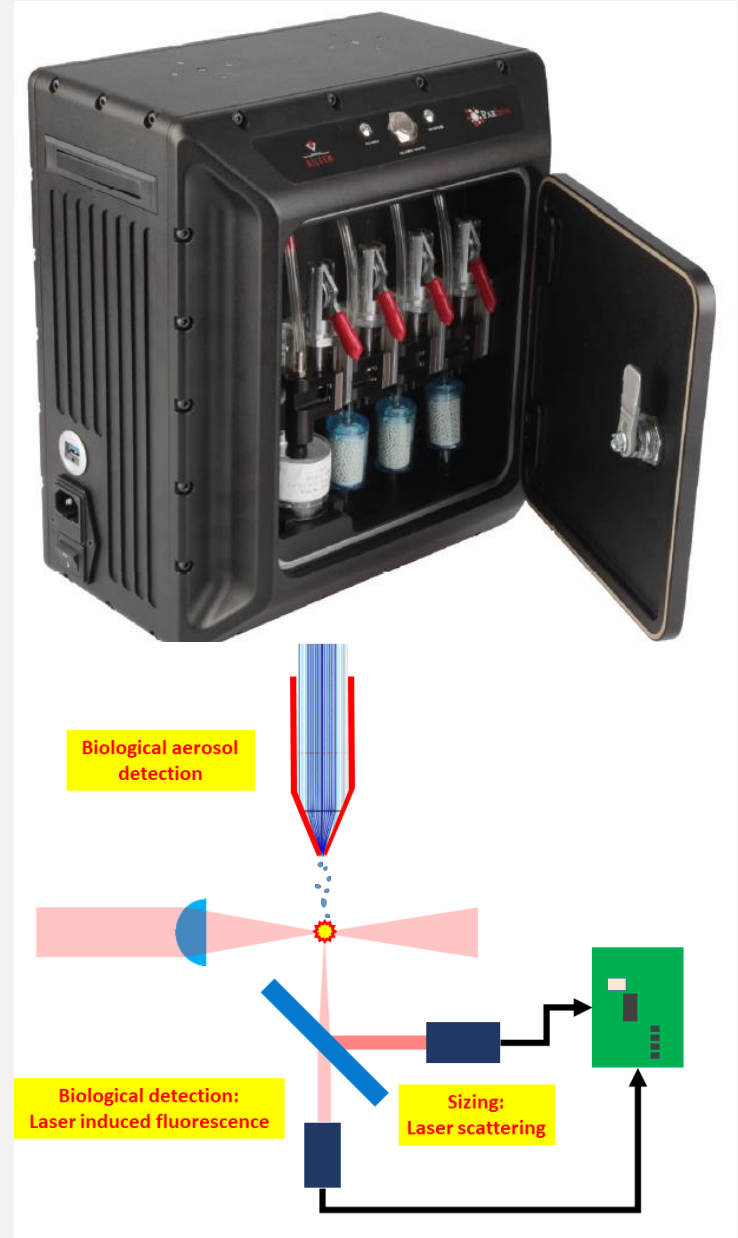
HORIZON-CL3-2022-DRS-01-08:

Enhanced situational awareness and preparedness of first responders and improved capacities to minimise time-to-react in urban areas in the case of CBRN-E-related events

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What We Have Done:

- Developed a prototype air monitor device that can detect and size potentially hazardous biological aerosoles:
<https://biyoelektronik.bilgem.tubitak.gov.tr/en/biyoaerosol-algilama-sistemi/>
- Features:
 - Real time results: Ideal for on site decision making
 - Cost-effective optical method (laser induced fluorescence and scattering)
 - 0.5 - 10 μ m particle sizes
 - Sampling for further analysis (exhaust collected on air filter)



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What We Can Do?:

- For: HORIZON-CL3-2022-DRS-01-08: Enhanced situational awareness and preparedness of first responders and improved capacities to minimise time-to-react in urban areas in the case of CBRN-E-related events (or similar):
- Customize our biological aerosol detection device according to our partners' needs (e.g. different platforms, enhanced sensitivity for a specific kind of threat).
- Develop a lower-cost version of the prototype device suitable for widespread use.
- Merge data from deployed devices to guide decision makers about geographical spread of the detected biological event, and minimize reaction time.

Contact:

Umut Uludag, PhD

umut.uludag@tubitak.gov.tr