Radar solutions for your business

Open innovation at your service



Deep Radars S.r.l.
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Who we are



Dr. Elia Vignoli
CEO



Giorgio Guerzoni, PhD
CTO



Pasquale Di Viesti, PhD
President & CKO



Prof. Giorgio Matteo Vitetta
CIO

We are a fresh, agile, and forward-thinking Italian-based company aiming to become the national reference point for radar systems and solutions.

Deep Radars Srl is an **innovative start-up and external spin-off** of the University of Modena and Reggio Emilia.

Our numbers

7+ **years of experience** in testing, validation, prototyping and evaluation of radar-based solutions.

4 **patented solutions** (international)

7+ new **NDAs** signed in Q2 2025 only

What we do

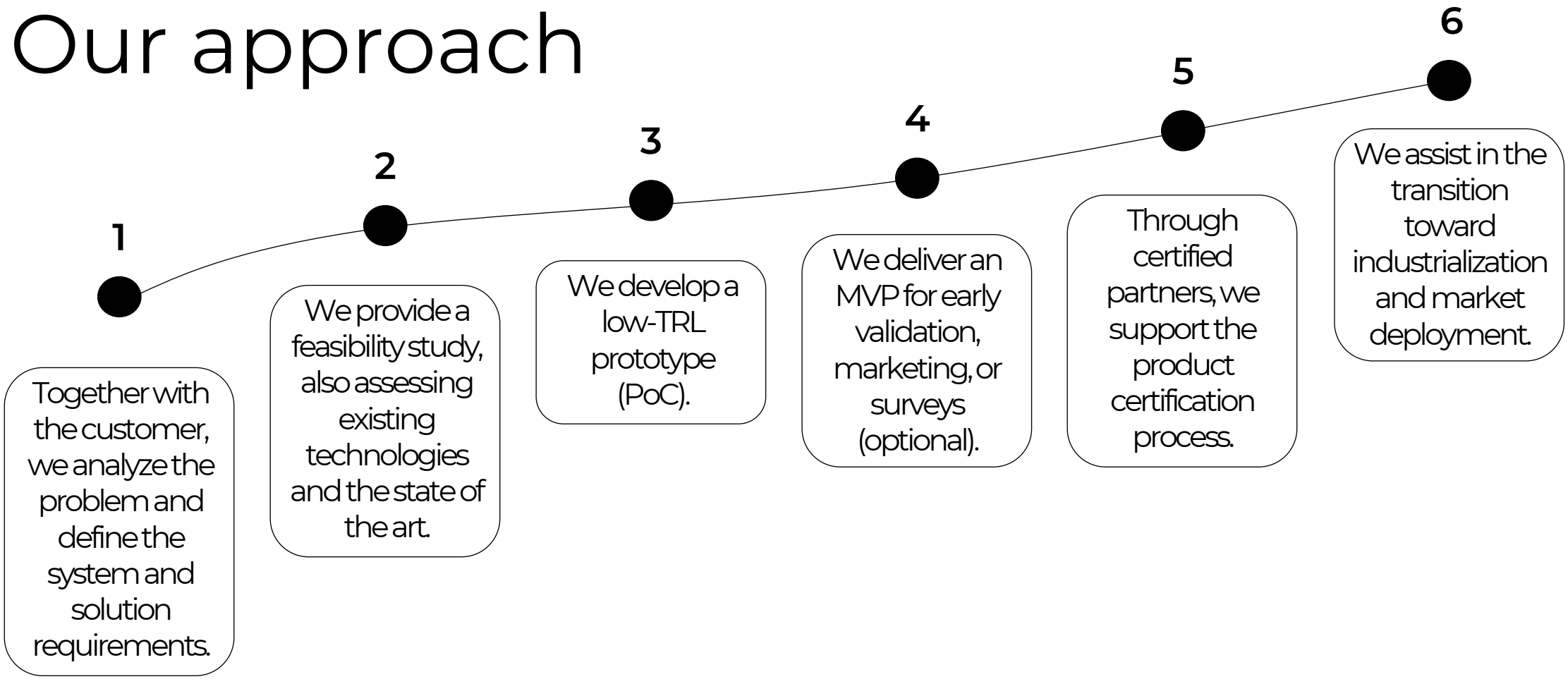
We develop innovative solutions based on **radar technology**, applicable to a wide range of sectors including **automotive, infrastructure monitoring, security, industrial and healthcare fields**.

Our goal **is to offer a valid and flexible alternative to traditional vision and security systems,** such as cameras and LiDAR. We manage all stages of the process: from feasibility studies to the development of proof of concepts and advanced prototypes, up to the engineering and production of the final product.

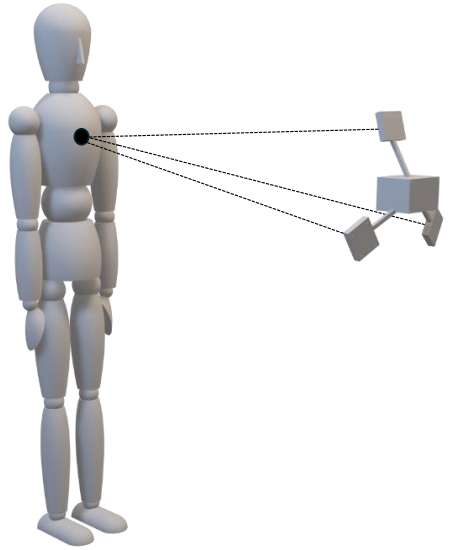
We offer integrated solutions that are customizable and easily adaptable to the specific needs of our clients. We operate on a national level and are **open to collaborations, partnerships, and joint ventures.**

We offer **technical courses and workshops** to companies and individuals, from beginner level to advanced.

Our approach



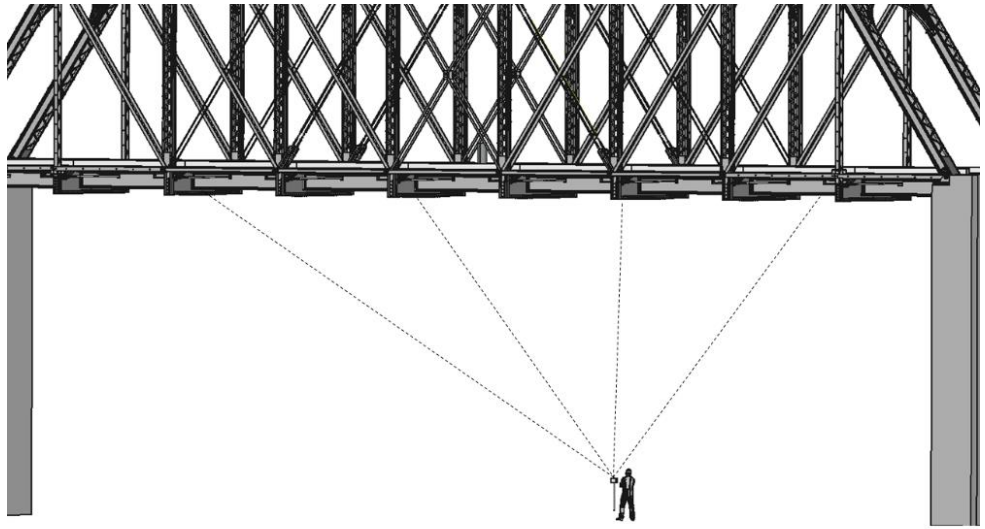
Our current solutions in development



Contactless vital signs monitoring: breath rate and heart rate estimation

- PoC (TRL 3) consisting of a 3x4 FMCW 60GHz commercial radar + custom-made signal processing algorithm
- Patent pending technology (Italy + PCT)
- Development in collaboration with an Italian biomedical company with the aim of creating the first biomedical device based on radar technology for diagnostic purposes.

Our current solutions in development



Contactless structural health monitoring: assessment of the structure integrity through permanent deformation detection

- PoC (TRL 3) consisting of a 12x16 FMCW 77GHz commercial radar + custom-made signal processing algorithm
- Target customer: civil engineer conducting static load measurements during oversized cargo transport.

Want to discover more about our other current projects?

Do you have a specific need you'd like to address?

Do you need a trusted radar expert?

Let’s keep in touch ⟶

Our contacts

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