

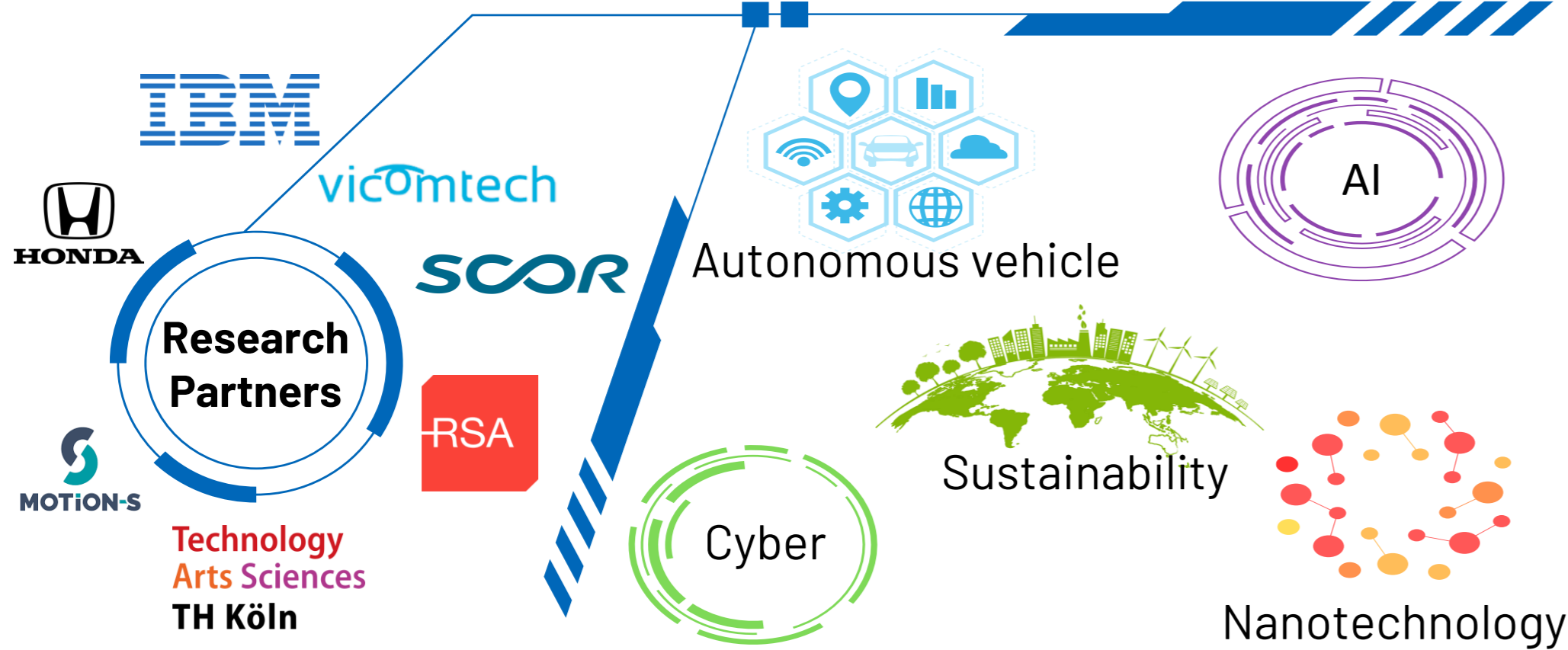
Emerging Risk Group

1 VISION & SCOPE:

Founded in 2007, the Emerging Risk Group (ERG) addresses the European Commission's need for understanding and mitigating risks associated with emerging technologies. With a focus on risks lacking historical data, ERG employs statistical, machine learning, and qualitative methods to assess and communicate potential threats and ethical considerations.

Collaborating primarily with STEM researchers on significant EU/SFI projects, ERG leverages scientific data to inform the regulatory and insurance sectors about the risks of new technologies. Initially concentrating on nanotechnology, ERG expanded its focus to include autonomous vehicle risks, Cyber, AI ethics, and terrorism finance related to the dark web.

Core Research Fields



2 RESEARCH TOPICS:

One of the key strengths of ERG is its ability to respond to and quantify new paradigms of risk fuelled by emerging technological innovations. To respond to this new phenomenon of emerging technological risk the group has built a collaboration of members that collectively present one of the most unique risk focused knowledge basis and research paradigms on offer today. This collective expertise is pivotal in addressing several key areas:

Risk Management and the Regulatory Response to Emerging Technologies

Risk Transfer Requirements for the Sustainable Deployment of Emerging Technologies

Liability Regimes around Emerging Technologies

Risk and Applied Ethics around Emerging Technologies

Policy Response to Emerging Technologies and Climate Change

Through this multifaceted approach, the ERG is uniquely positioned to respond to the challenges and opportunities that emerging technologies present. Their ongoing commitment to research and collaboration ensures that risk management strategies evolve in tandem with technological advancements, paving the way for innovation that is both responsible and forward-thinking.

3 ACHIEVEMENT & IMPACTS:

Our team recently concluded three EU Horizon 2020 projects, collectively funded at €20 million, focusing on the implications of semi-autonomous vehicles (VI-DAS, Cloud-LSVA) and nanotechnology (PROTECT). We evaluated the legal, ethical, and actuarial aspects of ADAS technology, and the risks associated with nanotechnology applications. Currently, we're engaged in projects including Anti-Fin-Ter (EC-funded), PROACTsme (Interreg Europe), and BAV Spoke (SFI-funded). Additionally, we've significantly impacted research and policy, offering expert advice to the European Commission and participating in influential bodies like EIOPA, ERTICO, and CCAM. This involvement underscores our pivotal role in shaping regulations and societal changes concerning emerging technologies.



One measure of the group's success is the number of projects and the extensive European network created in the process. The funding success allowed the ERG to graduate 13 PhDs, with 11 PhDs currently enrolled. Nearly 100 peer-reviewed papers, edited books, and book chapters have been produced. The ERG has collaborated with over 100 organizations across Europe and the globe on these projects, establishing deep connections with insurers, regulators, and research organizations.

4 SUMMARY RESEARCH PERFORMANCE HISTORY:

	Total
Research Outputs	
Academic Journal Article (peer-reviewed)	98
Research Income	
European Commission	€1,711,180
National (SFI, IRC, EI)	€4,472,445
Industry	€310,788
Postgraduate Graduations	
Graduated PhD	13



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