



KNOWLEDGE INTO ACTION FORUM

ENGAGEMENT WORKSHOP FORM

TITLE: CLICK OR TAP HERE TO ENTER TEXT.

1. Central Theme

Connected vehicles (including cars) offer the potential for major benefits. The types of connection can be broadly classified into driver to vehicle communications, vehicle to vehicle connections and vehicle to (physical and digital) infrastructure interactions. Such developments have many possible benefits; many of these may yet to be identified and fully articulated, but currently include improved driver and vehicle safety, enhanced assisted possibilities, better vehicle security, and raising the capacity of road networks. The modern road vehicle embodies some of the most complex and advanced electronic and mechatronic systems available. But, as with all digital technology developments these open the way to cybersecurity issues and new forms of vehicle and cybercrime. These create very substantial costs for vehicle owners and users, insurers, manufacturers, governments and many parties not directly involved in specific cyber-attacks.

2. Going Beyond the State of the Art

Vehicle cybersecurity has predominantly been treated as a technical issue. However, a purely technical focused approach is not adequate to either understand the issues or fully reduce the problem to manageable proportions. We need to recognize that it will never be economically efficient to reduce vehicle cybercrime to zero. However, cost benefit analysis is needed to help understand the level and direction of resource usage. There is also the question of who should bear the costs and in what proportion. Cybersecurity systems, like many others, often fail because those who create them do not bear the full costs of failure. On the other hand, insurance markets are not sufficiently developed to offer those at risk adequate and well-understood protection. Although cybercrime is common in other arenas, the specificities of the auto domain and different and complex and present new and emerging challenges.



3. Objectives

At this stage we are not proposing specific objectives. The H2020 “Economics of Cybersecurity” topic area (DS-04-2016) suggests a number of challenges and objectives. It stresses the study of “relevant market specificities” and we believe the car market would be an ideal one in which to pursue one or more of the issues identified as being within the scope of the challenge. Our project would focus on the behavioral aspects of security and include some consideration of behavioral economics.

4. Anticipated value and impact

Coventry University (and CBiS) in particular has a long and recognized history in research the car industry in Europe and beyond. A particular focus of our work has been in the way in which the industry, throughout the supply chain, has responded to technological change and market opportunities and threats. The connected car is a current focus of interest. We are also developing a research cluster focusing on cybersecurity issues and developments and the two areas of interest have major overlaps and synergies.

5. Funding Scheme

The H2020 “Economics of Cybersecurity” call. We are seeking partners with a relevant interest and strong track record.

6. General Theme (Choose at least one)

Education

Research

Training



KEYWORDS

<input type="checkbox"/> Social entrepreneurship <input type="checkbox"/> Human Right <input type="checkbox"/> Health <input type="checkbox"/> Sustainability <input type="checkbox"/> Innovation <input type="checkbox"/> Technology <input type="checkbox"/> Life Style, Sociology <input type="checkbox"/> Management <input type="checkbox"/> Entrepreneurship <input type="checkbox"/> Leadership <input type="checkbox"/> Cross-sector and Society Collaboration <input type="checkbox"/> Corporate Social Responsibility <input type="checkbox"/> Ethics, Human Resources <input type="checkbox"/> Business Model <input type="checkbox"/> Social Responsibility	<input type="checkbox"/> Sustainable Development <input type="checkbox"/> Training, Research <input type="checkbox"/> Corporate Strategy <input type="checkbox"/> Development <input type="checkbox"/> Environmental Sustainability <input type="checkbox"/> SMEs <input type="checkbox"/> Strategy <input type="checkbox"/> Competitiveness <input type="checkbox"/> Consumer Behavior <input type="checkbox"/> Corporate Responsibility <input type="checkbox"/> Developing Countries <input type="checkbox"/> Finance <input type="checkbox"/> Circular Economy, <input type="checkbox"/> Smart Cities, <input type="checkbox"/> Water, <input type="checkbox"/> Big Data
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7. Administrative information:

Information of Person Submitting the Project idea

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