

Editorial on Science and Engineering

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Abstract:

In most reports setting forth frameworks or standards for science, technology, and engineering, the three domains are described as related by their focus on systems in the real world yet different in the roles that the disciplines play in understanding and modifying the world. The definitions for this entry are based on documents produced by national sets of experts in which the relationships of science, technology, and engineering are described. Definitions of science, engineering, and technology can be culled from these frameworks and standards developed by engineering and science organizations, as well as from standards for engineering and technology for state, national, and international assessments.

These definitions of science, technology, and engineering are the starting points for developing assessments of understanding of the ways in which they are related.

Pre-eminence in technological innovation depends on a wide array of factors, one of which is leadership in engineering research, education, and practice. A three decade- long decline in the share of federal investment in research and development devoted to engineering and a perceived erosion of basic, long-term engineering research capability in U.S. industry and federal laboratories have raised serious questions about the long-term health of engineering research in the United States. This book illustrates the critical role of engineering research in maintaining U.S. technological leadership;

documents major challenges and opportunities facing the U.S. engineering research enterprise; and offers specific recommendations for leaders in federal and state government, industry, and universities to help strengthen U.S. engineering research in the face of intensifying global competition.

Technology is a rapidly developing concept and its development is second to none while technology and the Internet is more available than ever. Its uses range from personal use, up to and including large corporate organisations. However, this study will be closely looking into Small Medium Enterprises (SMEs) and their perception of technology. With SMEs taking up the largest portion of all businesses in the UK, they are the majority target audience to study. This research will into the adoption and usage of technologies by SMEs and more specifically we will explore the case of Making Tax Digital (MTD). This includes a review of the academic literature surrounding SMEs and the use of technology. We will be discussing the research methods used within this study and the research results gathered from our primary respondents. This study uses both secondary and primary research in an effort to develop further understanding of SMEs and their close relation to technology. The study investigates the future of Making Tax Digital and the affect it will have on SMEs while it summarises how businesses must adapt MTD and face the new system's requirements.