

This document is a product of the Big Mathematics Initiative (BMI), which aims to provide experience-based guidance on practicing valuable Knowledge Exchange (KE) in the Mathematical Sciences (MS). The BMI is a two-committee initiative composed of an Strategic Committee and Implementation Group, established by the Council of Mathematical Sciences (CMS) to further explore the recommendations from the [Era of Mathematics Review](#), authored by Philip Bond. One such recommendation stated that ‘existing mechanisms for KE initiation should be made more robust and expanded in scope and capacity’ for academics and industry to find.¹

A taskforce was asked to investigate and map out the establishment of various modes of KE engaged through various university mathematical science departments. These findings have been used as the evidence base to create a best practice guide to engaging in rewarding KE practices.

The document is divided into three parts:

- an overview of the key themes which have consistently emerged from university Mathematical Science departments engaged in KE, evidence gathered through the BMI activities, and from the ‘Era of Mathematics’ review (page 1).
- a summary of common points made in the survey of MS departments carried out by the BMI Implementation Group intended as a source of ideas for other academic institutions (page 3).
- a collation of challenges in MS Knowledge Exchange based on relevant personal experiences of committee members (page 6)

It should be emphasised that the aim of this document is not to be prescriptive, but rather to provide a compilation of experiences from the community to assist Mathematical Science departments in developing their own policies.

¹ From The Era of Mathematics by Professor Philip Bond <https://epsrc.ukri.org/newsevents/pubs/era-of-maths/>