

ANNEX A

DEFINITIONS

Some similar definitions for the various terms in the B and D reports were put forward by the Zuckerman Committee in 1962 and in 1963 by the Committee of Enquiry into the State of Science advised by Sir Brian Ford. The definitions are as follows:

ANNEXES

We have taken "science and development" to mean, in general terms, all those activities which are directed towards the acquisition of scientific facts and techniques, or towards their application, in the hope of their being of use to mankind, or to a part of it, in the service of some purpose, other than knowledge for its own sake, the maintenance of national equilibrium or pure profit.

We have found it helpful to distinguish between the acquisition of scientific knowledge and its application. The former is the science and the latter is the development. There are four basic research activities: basic research, applied research, applied (practical) research and development. The distinction of these words is set out in the following paragraph. We regard "science" as covering the whole of these activities and not just the acquisition of scientific knowledge, and "development" as covering the application of scientific knowledge to other fields, with the whole range of scientific and development.

(1) Pure Basic Research

Pure basic research is research carried out solely in order to increase scientific knowledge, and is knowledge of the nature of the scientific world, such as general or "fundamental" laws, "fundamental" or "pure" or "basic" laws, general principles, "fundamental" or "pure" research, and the like. It is not directed towards any particular practical application, and is not directed towards the acquisition of scientific knowledge for its own sake, or towards the maintenance of national equilibrium or pure profit. It is distinguished from applied research by the fact that it is not directed towards any particular practical application, and is not directed towards the acquisition of scientific knowledge for its own sake, or towards the maintenance of national equilibrium or pure profit.

(2) Applied Basic Research

A study of the pure laws of physics, such as mechanics, the constitution of matter, chemical and physical properties, and the like, is usually directed towards the acquisition of scientific knowledge for its own sake, or towards the maintenance of national equilibrium or pure profit.

(3) Applied Basic Research

Research which is directed towards the acquisition of scientific knowledge for its own sake, or towards the maintenance of national equilibrium or pure profit, but which is also directed towards the acquisition of scientific knowledge for its own sake, or towards the maintenance of national equilibrium or pure profit.

Committee chaired by Sir John Cockcroft in the United Kingdom, the Committee was formed in May 1962 and reported in July 1963. Report of the Committee on the State of Science and Control of Nuclear Energy, Department of Scientific and Technical Research, London, 1963, p. 12.

¹ Science, London, 1962, p. 12.
² Report of the Committee on the State of Science and Control of Nuclear Energy, Department of Scientific and Technical Research, London, 1963, p. 12.