

Behind the formation of Marconi's Electro-Optical Systems Division is a story conforming precisely to the principles underlying the whole history of the Company's growth. The creation of a new Product Division has never been the result of a sudden departure into new fields; it has been the consequence of evolutionary development. Electro-Optical Systems Division was formed in 1967 to take over and extend within a broader context the activities of the Company's Closed-Circuit Television Division and Project Martel.

Until 1959, responsibility for promoting both 'off-air' and closed-circuit television was vested in Marconi's Broadcasting Division. During the early years, the fact that closed-circuit television was a tool having almost limitless applications was slow to gain credence, but in the last decade it has penetrated the world of education, industry, commerce, road and air traffic control, defence, shipping . . . the list is virtually endless.

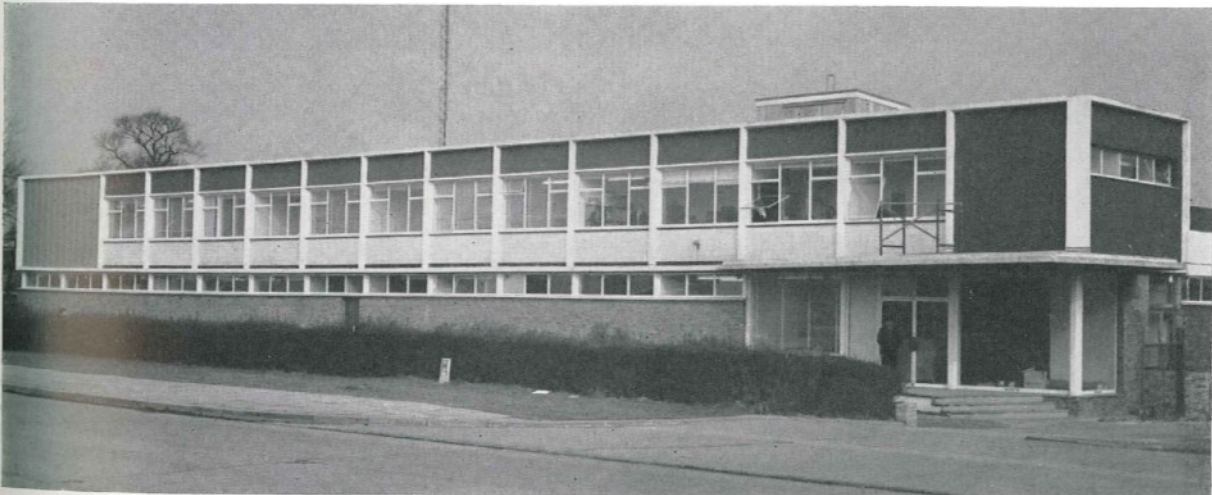
In 1959, aware of its great potential, Marconi set up the specialist Closed-Circuit Television Division—a

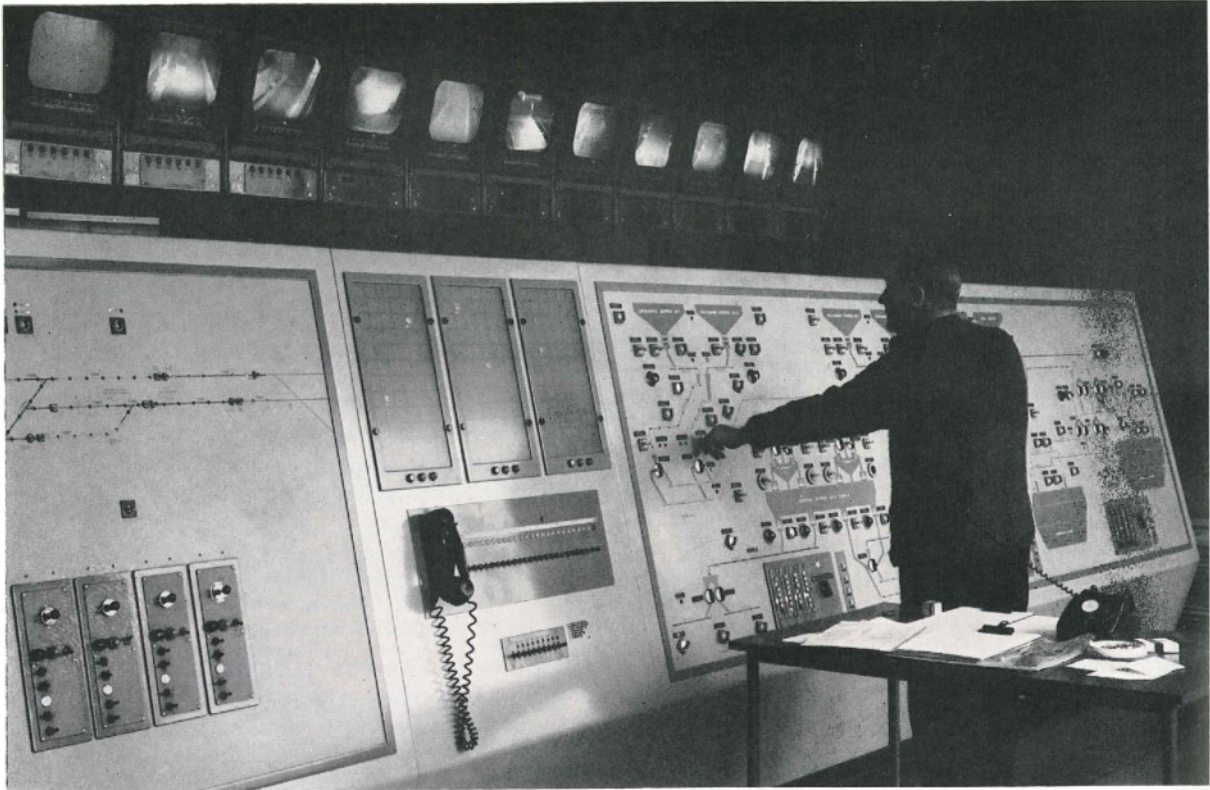
step which was amply justified by the results.

In 1965, a team of engineers, drawn from the Closed-Circuit Television and Aeronautical Divisions, started development work on Project Martel—a television guidance system for the Anglo-French air-to-ground missile.

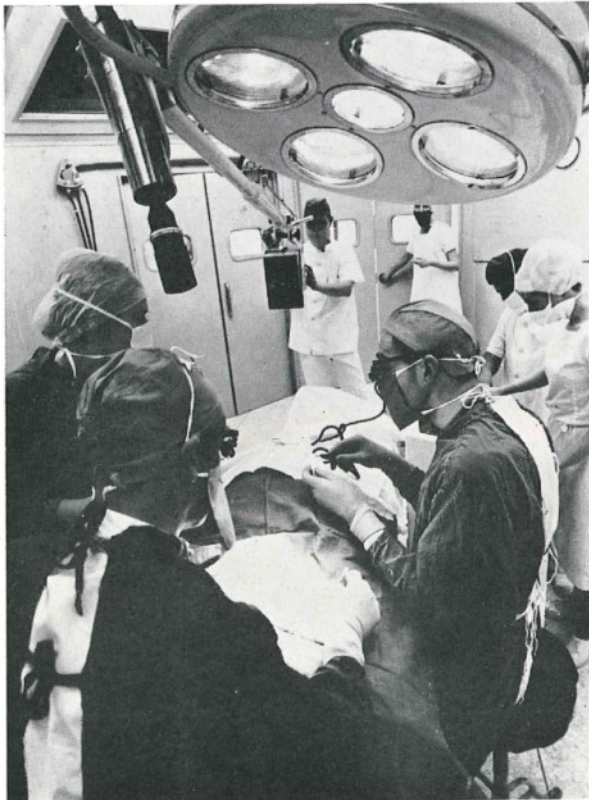
The amalgamation of the expertise of the Closed-Circuit Television Division and the Project Martel team has consolidated the Company's lead in the application of electro-optical technology to the ever-increasing variety of situations where the extension of human capability is called for. Major areas of activity continue to be missile guidance, fire-control, night-viewing, industrial surveillance and control, information transfer and training.

HEADQUARTERS AND DEVELOPMENT LABORATORIES
of Marconi's Electro-Optical Systems Division at Basildon





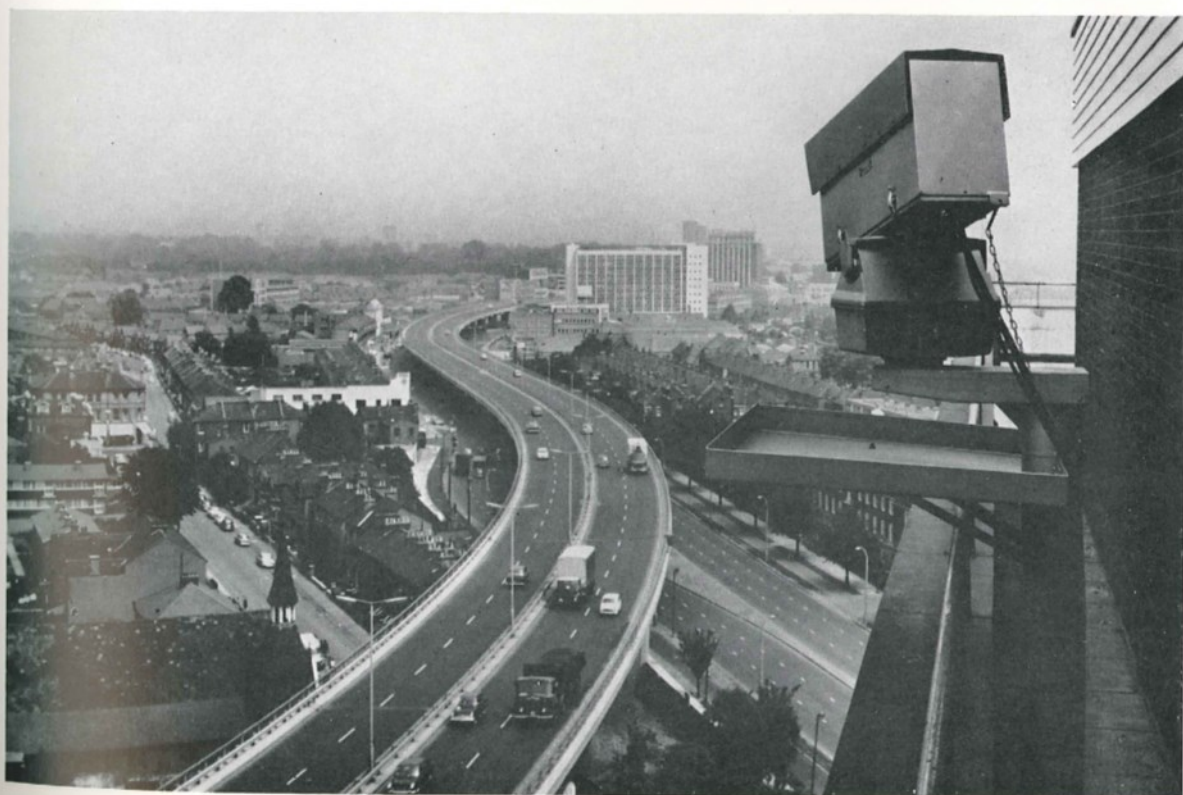
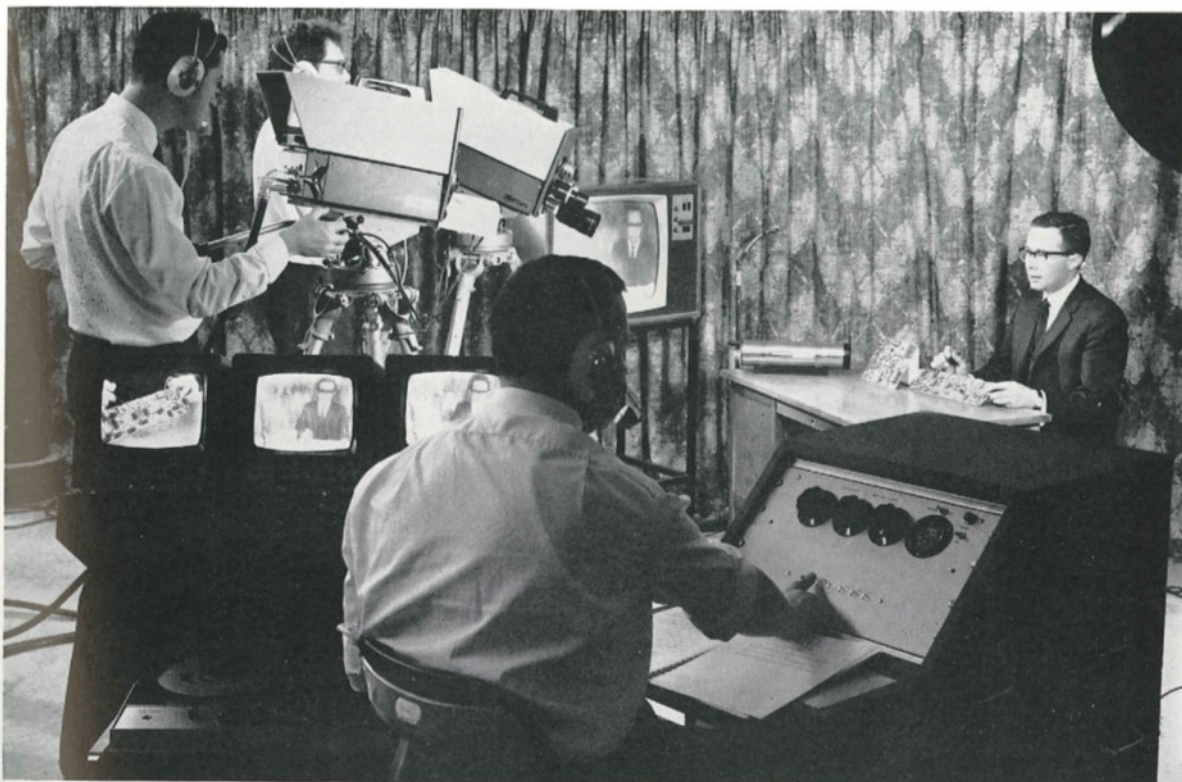
Above: **INDUSTRY** Closed-circuit television in industry provides a dynamic visual record at central control centres of diverse, remote and possibly inaccessible-to-man processes. The photograph is of the central control room at Drakelow Power Station



Left: **MEDICINE** is an area in which closed-circuit television is invaluable as a teaching aid. This operation at Moorfield's Eye Hospital is being viewed on monitors by students in another room

Top right: **EDUCATION AND TRAINING** Electro-Optical Systems Division has supplied sixty educational closed-circuit television systems throughout the world. The picture shows the new Marconi portable television unit which enables training programmes to be recorded on the spot

Bottom right: **ROAD TRAFFIC CONTROL** Closed-circuit television is used extensively to survey traffic, the pictures being shown on monitors at traffic control centres so that steps can be taken to deal with congestion. Here, a Marconi V321 television camera in weatherproof housing views a section of the M4 motorway



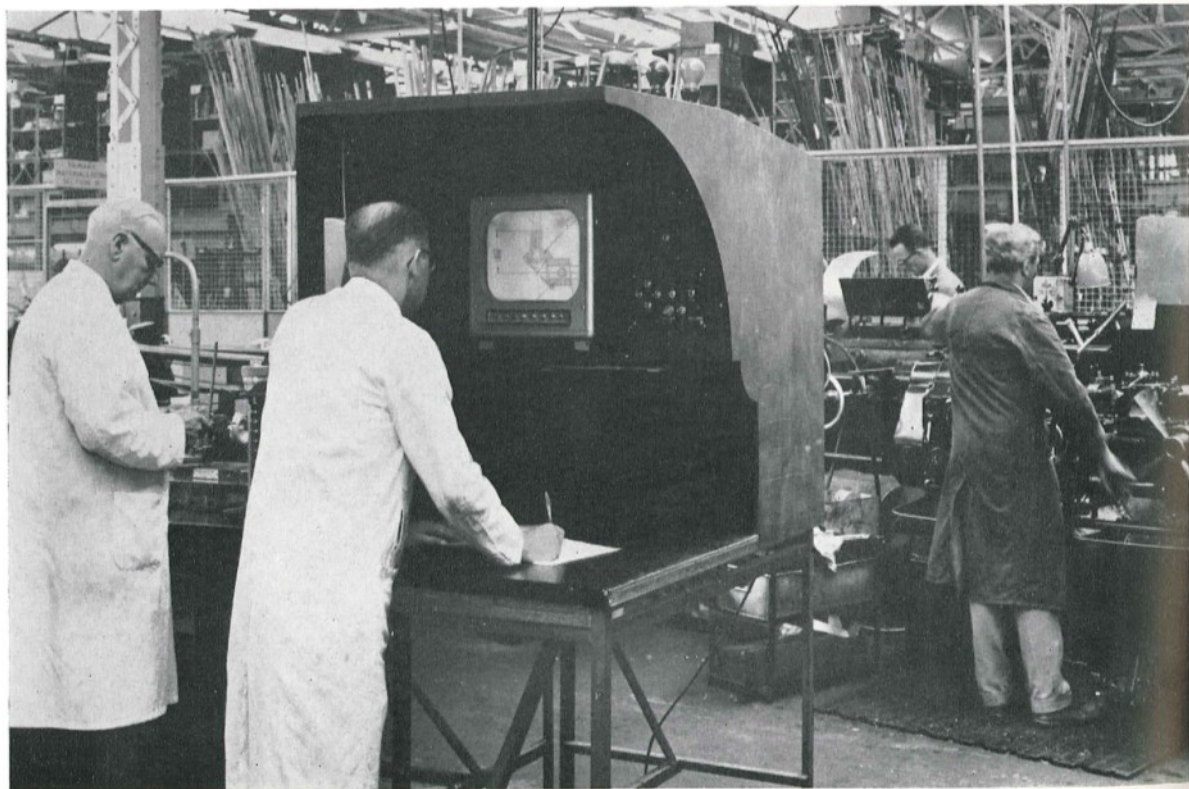
Right: **AIR TRAFFIC CONTROL** Flight information, written on translucent screens, is televised by Marconi closed-circuit cameras and displayed on monitors directly above the PPI displays on the radar controllers' consoles

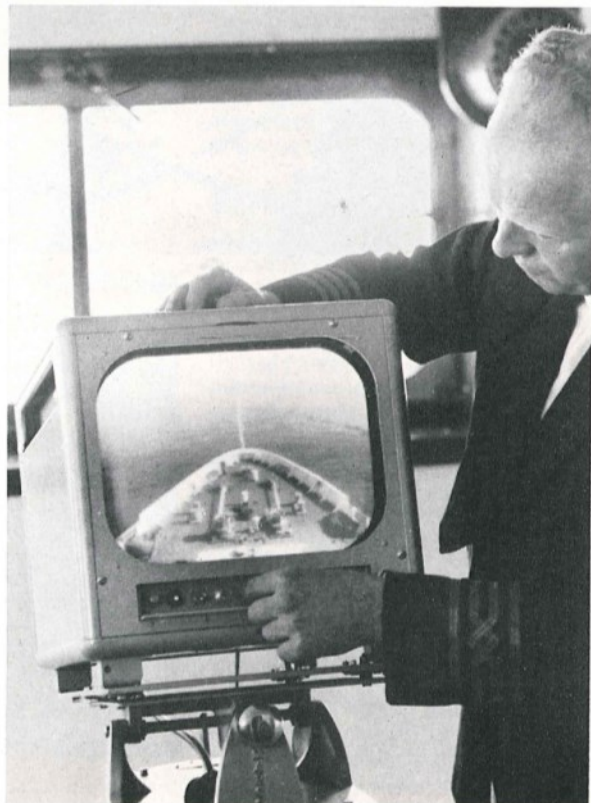
Below: **MANUFACTURE** An example of how closed-circuit television may be used to increase efficiency in the factory. Here, an operator on the shop floor has called up the print room, which is equipped with a Marconi camera, and has given the number of the drawing he wishes to see on the monitor

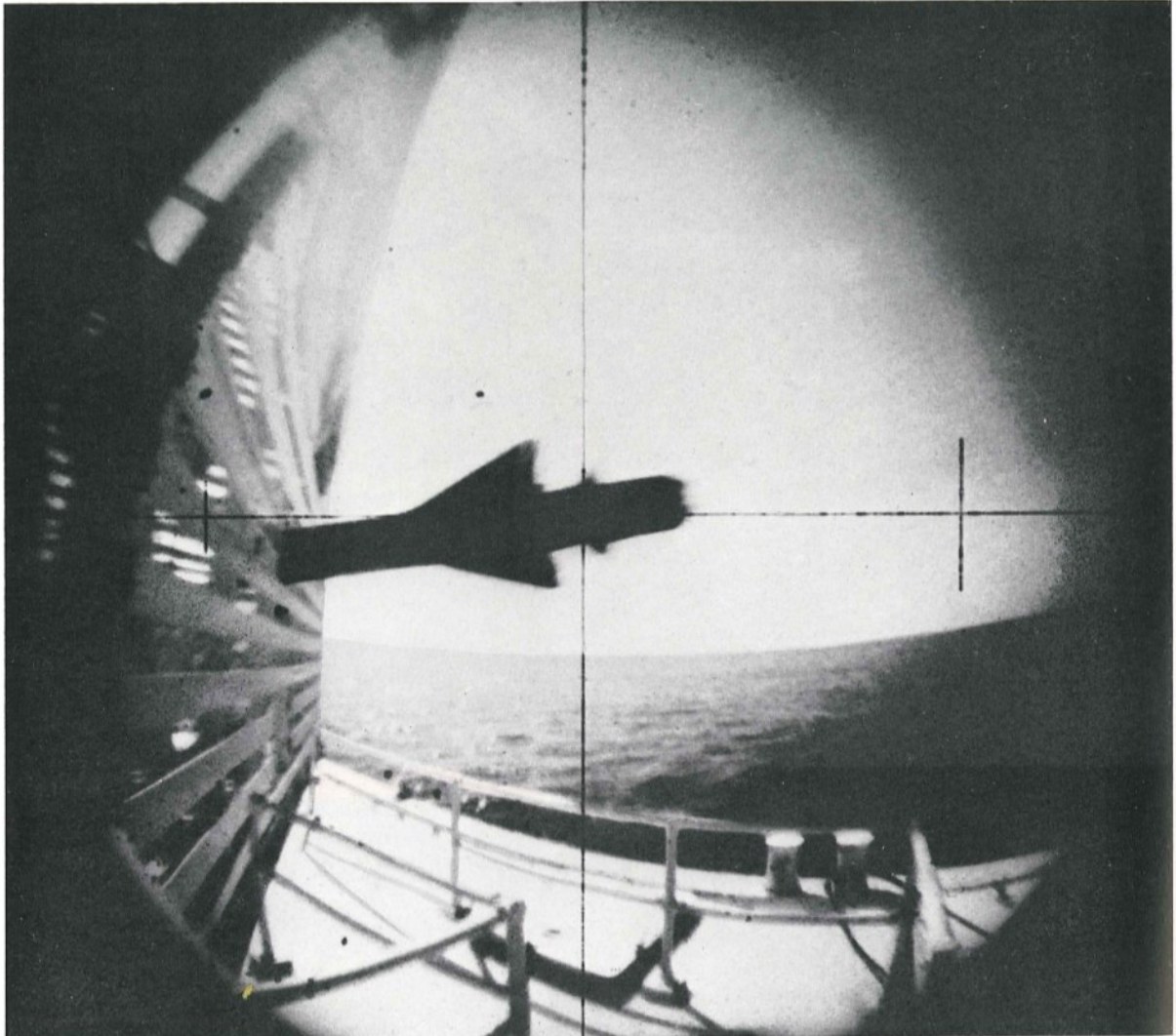
Facing page top: **AVIATION** Marconi closed-circuit television colour cameras and the Queen's Award winning large screen colour projector are used to provide pilots in flight simulators with realistic impressions of airfields and surrounding terrain

Facing page bottom left: **PUBLIC SERVICES** A remotely-controlled Marconi closed-circuit television camera, fitted to a snorkel fire-fighting appliance, can view interiors of blazing buildings for signs of life and can facilitate the accurate direction of hoses. It can also be used to help the police to apprehend criminals attempting roof-top escapes

Facing page bottom right: **SHIPPING** In mammoth tankers, with the bridge aft, it is difficult or impossible to discern objects which are screened from the pilot's vision by the bows. A remotely-controlled closed-circuit television camera in a weather-proof casing, fitted to the bows, can be the 'eyes of the ship', transmitting pictures to monitors in the ship







DEFENCE *The television-guided version of the Anglo-French air-to-ground missile, Martel, at the point of impact. The television guidance system for the missile was developed by Marconi and is now in production*