

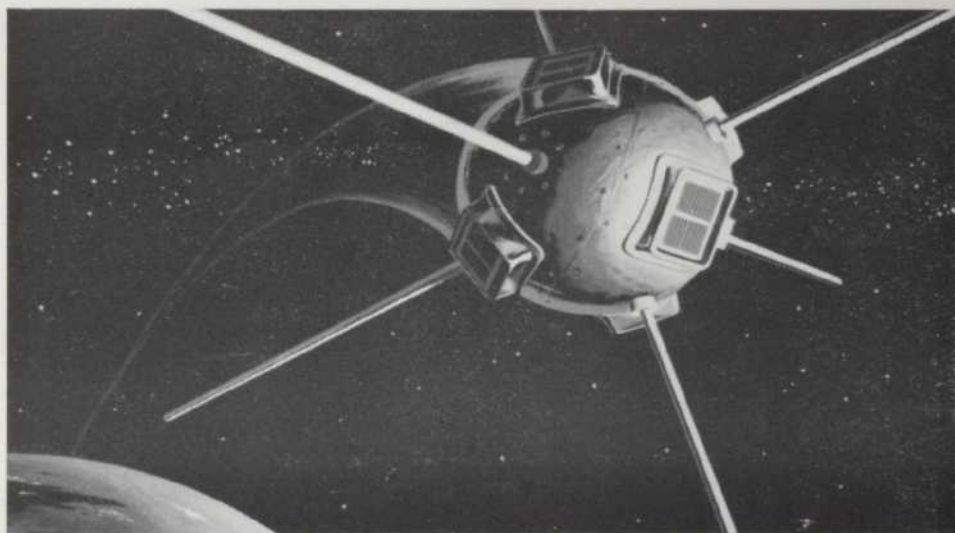
How the Bell System's Transistor Has Created Business and Jobs in Many Industries

It has been just a little over ten years since the Bell Telephone Laboratories announced the invention of the Transistor.

This amazing little electronic amplifier was recognized immediately as one of the big breakthroughs in science that come only at rare intervals. Every year since its birth it has opened new fields of use and progress.

Developed originally for telephony, where its first use was in Direct Distance Dialing, the Transistor has enabled many other industries to bring out entirely new products and improve others. It has also made it possible for a number of new businesses to get started and to grow.

There is no doubt that the Transistor has been one of the leading forces in an electronics boom and is in considerable part responsible for raising the electronics industry from a two billion dollar level in 1946 to over thirteen billion dollars in 1958.



NEWS FROM OUTER SPACE. One of the many uses for the Transistor is in the radio transmitters in satellites. Some other uses of this mighty mite of electronics, in addition to its growing use in telephony, are in hearing aids, personal radios, automobile radios, portable TV sets, phonographs, clocks, watches, toys, computers, data processing, machine tooling controls and even a guidance system for a chicken-feeding cart. A most important use is in a wide range of military equipment, including radar and guidance systems for missiles. Though little larger than a pea, the Transistor can amplify electric signals up to 100,000 times.

The Bell System has licensed more than seventy companies to make and sell transistors. More than 50,000,000 will be made this year.

The Transistor is just one example of how the basic research of the Bell Telephone Laboratories contributes to the economy and progress of the country. Frequently this constant search for new knowledge to improve communications brings forth

discoveries of great value to other industries and the whole field of technology.

For telephone users, the Transistor has made possible advances that would have been impossible a brief decade ago.

In the years to come it will bring many new ways to make telephone service more convenient and useful to more and more people.

BELL TELEPHONE SYSTEM

