

# Introduction

Allgon repeaters are used to fill out uncovered areas in cellular mobile systems, such as base station fringe areas, road tunnels, busirEss and industrial buildings, etc.

A repeater receives signals from a base station, amplifies and retransmits the signals to mobile stations. Also it receives, amplifies and retransmits signals in the opposite direction. Both directions are served simultaneously.

To be able to receive and transmit signals in both directions, the repeater is connected to a donor antenna directed towards the base station and to a service antenna directed towards the area to be covered.

Operation of the repeaters is performed using a desktop or notebook and the Allgon OMT (Operation & Maintenance Terminal) which communicate, locally or remotely via modem, with the repeaters.

There is also an Allgon OMC (Operation & Maintenance Center), which is intended to be used to run many Allgon AR repeaters.

The repeaters and the OMIT is described in this manual. The OMC is described in the *Advanced Repeater OMC, User's Manual*.