NATS

## facts

## The anatomy of a control tower

When most people think of an airport control tower they imagine air traffic controllers in a room with huge windows, talking to pilots through radio headsets. While that is certainly true, it is only part of the story.

Not only do each of those controllers have very different roles, there are more who are working out of sight and using radar to guide aircraft flying miles away. And then there's the team of highly skilled engineers managing and maintaining the systems that make it all possible.

This infographic takes a closer look at the inner workings of the tower at Manchester Airport, a dual runway operation that requires separate controllers for the arrival and departure runways.



is the second tallest in the UK

support the operation

>VCR Controls all airport traffic

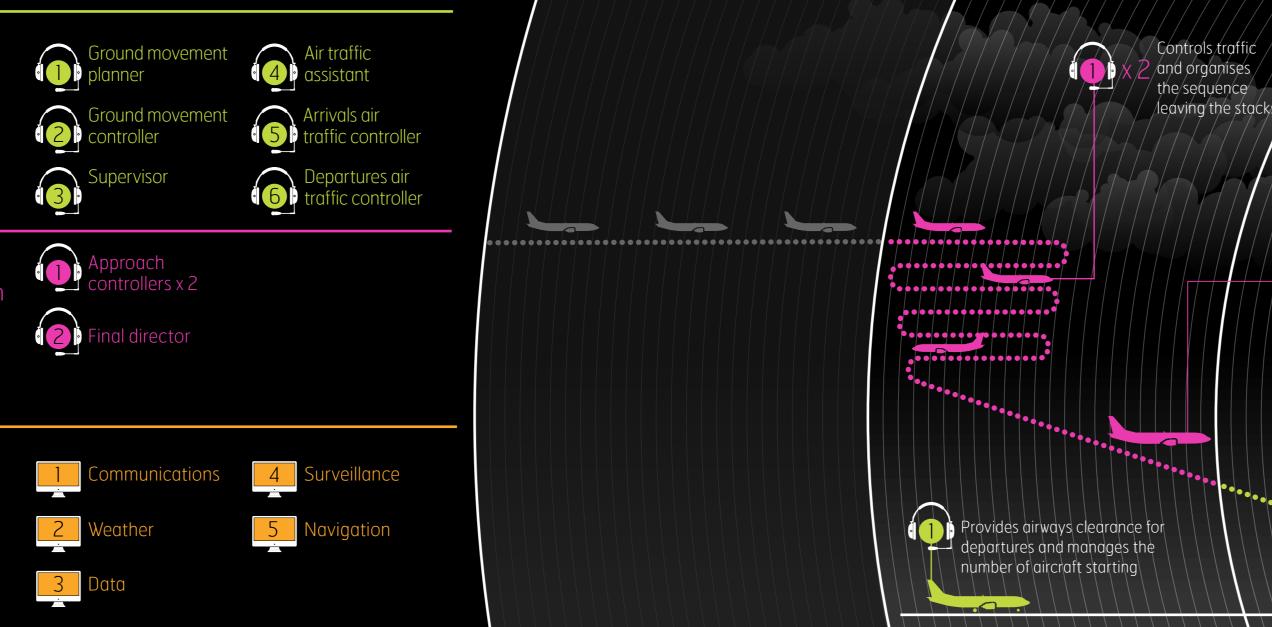
including ground, landing and take-offs. Manages planes within 8 miles of the airport.

ACR Controls aircraft 30 miles

to 8 miles from the airport. Handles aircraft in the stack and agrees spacing and sequence of final approach.

MER Ensures that all the tower systems are well managed and maintained.

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stems dealing with all communications from the tower, including radios ohones and data links



Systems that monitor the er and distribute the formation to pilots



Systems providing flight controllers



Manages all ATC operations from the Visual Control Room

Sequences aircraft and guides them onto final approach



\_\_\_\_\_ Controls movement on the taxiways, I from push back to the runway and from runway to the stands







Focuses on an measure information in and around the airport. Also provides support and weather information to air traffic controllers



Controls the departure runway 두 🕘 aircraft take off



round and air movements/activity At 3 miles outside of the airport, control of aircraft departing is handed to Prestwick Control Centre



igation aids which able aircraft to fly in all weather conditions, including guidance down to the runway in almost zero visibility



Manchester Airport is the UK's third busiest airport, serving over 22 million passengers a year. More than 100 airlines offer direct flights from Manchester to 225 destinations worldwide, more than any other UK airport.

225 Worldwide destinations

170 **I / U**,000 Aircraft movements a year

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