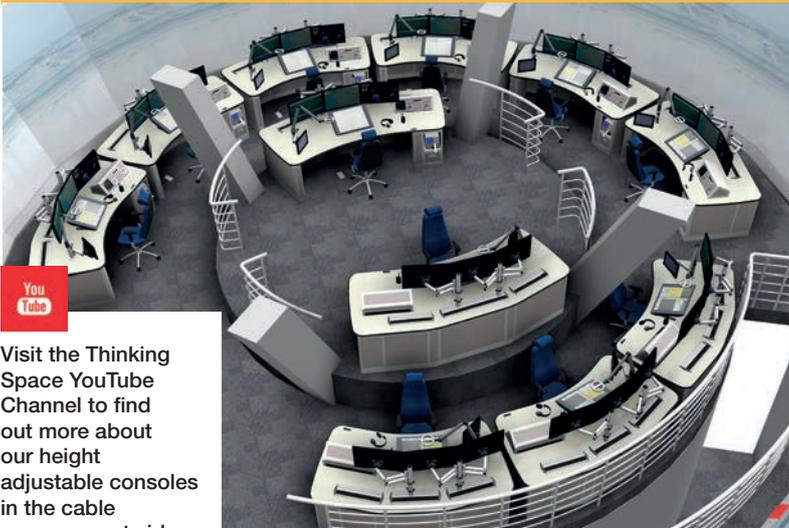




improving working environments

## Height adjustable tower consoles for Abu Dhabi ATC



Visit the Thinking Space YouTube Channel to find out more about our height adjustable consoles in the cable management video.

*Above: One of the Thinking Space render proposal drawings provided*

*Far right top: the prototype console being reviewed*

*Far right bottom: an installed console*

*Right: a console getting ready for crating and despatch*



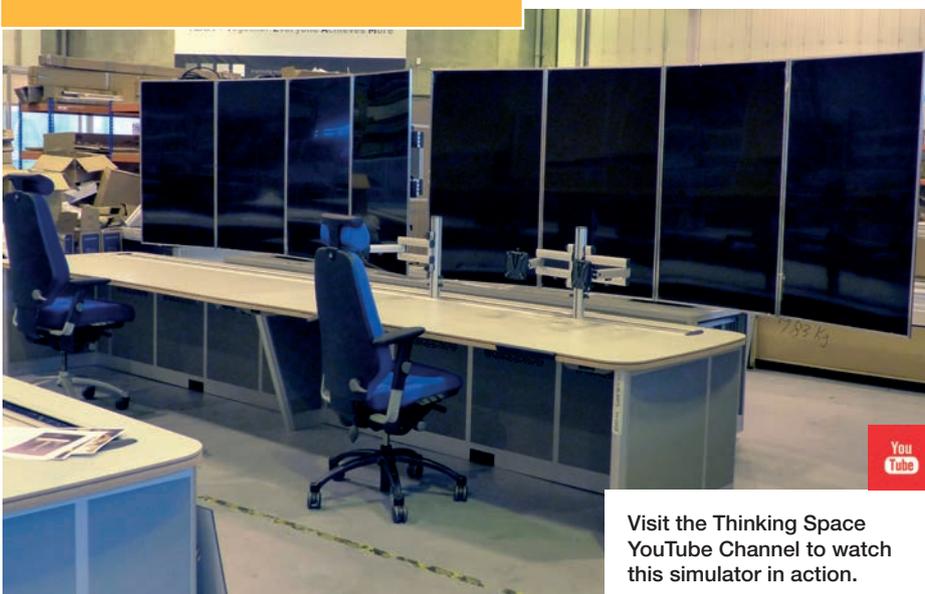
Thinking Space are currently in the process of supplying seventeen consoles bound for Abu Dhabi. The brand new air traffic furniture, which has electrical height adjustment, has been custom designed to fit within ATC towers and for ATC simulators at various sites.

In December, Thinking Space created a prototype console for the clients' approval and carried out a consultation exercise at the tower itself, so that the client could ensure their requirements were met.

The final modifications are being made for manufacturing early in 2018, to complete the installations.



## Training simulator solutions



Visit the Thinking Space YouTube Channel to watch this simulator in action.

A requirement to provide an Air Traffic tower training simulator solution firstly involved 2 two person consoles being manufactured in the factory. To be located in front of each console, a separate base unit has been created to support two monitor support structures at either end. Each structure, made from Kanya aluminium profiles, is designed to support the load of four 55" flat screen monitors which are mounted in portrait mode. Both join together to create a continuous curved simulator screen.

The added feature of this particular simulator design, is that the monitor support structures can be rotated on their bases to change the angle of the screens easily, which then provides two smaller simulator screens for each operator position, assembled there. The whole simulator took no longer than a day to reassemble, with the training desks accurately positioned within the simulator rig to complete the final training facility.

## New radar consoles at Malta International Airport



The new radar consoles are now operational

Read our case study

[www.thinking-space.com/case-studies](http://www.thinking-space.com/case-studies)

Thinking Space have recently completed the installation of new radar consoles at Malta International Airport.

After meeting at ATC Global in 2012, Thinking Space were awarded the contract to design, manufacture and install the new radar consoles for clients, Malta Air Traffic Services. They were to upgrade their ATC operations room which involved the updating of their ATM system. This in turn required a great deal of planning so that operations remained active with no loss of service. So a "shadow mode" was planned, in phases, where both ATM systems would be run at the same time.

However, after some initial designs and consultations between both parties, it was realised that rather than having a number of workstations dotted around the Ops Room, a single hexagonal console design wrapping around the room was a better solution. This would create better co-ordination



The new console installed at the control room in Swanwick

NATS, to ensure that optimum ergonomics and high comfort levels were established within the new control room. A twin controller console for the remote monitoring operations of two Controllers has been installed, along with a supervisor and support console, and 24/7 control room chairs for maximum comfort. The ATC Controllers will need to be looking up towards the live footage displayed on 14 HD screens that form a seamless curved panoramic moving image within the control room. So that both operators achieve an ergonomic environment, the controller console is curved in design with the avoidance of sharp edges in a busy workspace.

"The transition process was fully coordinated with TS personnel and this facilitated simultaneous installation processes thereby reducing significantly the installation and testing execution times. The process turned out to be a success story thanks to the effort from all parties and the excellent teamwork. This was something that was noticed and appreciated by the MATS operational section who enjoyed their new environment".

Frankie Dimech

between the teams of operators, positioned so that those teams who needed to communicate with each other had the ability to do so. Its design within the room limited distractions by other teams and sound absorbing privacy screens were added to the rear of the consoles to limit noise and distractions from staff passing around the room. Some of the features of the consoles included footrests, PIP panels, VCCS mounts, sliding printer shelves and an array of Novus monitor mounts and LED task lights.

After a detailed Factory Acceptance Test in September 2013, where a team from MATS visited the factory to see the assembled consoles in entirety, the consoles were then broken down into partial elements and exported to Malta. After the completion of phase 3 of the clients' ATM system project in May 2017, the Thinking Space installation team headed out to Malta to reassemble the consoles, working 12 hour days to minimise the transition period. The beauty of a Thinking Space console is that it is easily reassembled, even after a number of years being in storage, thanks to the aluminium profile system used as the basis of all furniture builds.

With the new OPS Room now fully commissioned and active, its operators have positive feedback for how teamwork ensured project success.

## Digital ATC Control Tower consoles

Thinking Space Systems have provided one of their long-standing clients with air traffic control tower consoles. But the consoles are not installed in an air traffic control tower. The consoles become part of the the UK's first digital ATC Tower.

As part of the project at London City Airport to replace its existing 30-year-old tower with an advanced digital system, the airport will become the first in the UK to operate remotely from a new control room at NATS in Swanwick, Hampshire. Images and data of the airfield taken from cameras located on a proposed new tower at the airfield, will be sent via independent and secure super-fast fibre networks to the new control room, some 70 miles away.

The air traffic control consoles were custom designed by Thinking Space in close collaboration with

"Due to the nature of Air Traffic applications, it is essential to have trust in a supplier that can deliver a high level of service and product on time and to budget. I have been involved in Control Tower projects over the last 10 years and it is always a pleasure to work with Wayne and his team"

Derek Brien, Program Manager NATS

See Thinking Space at the World ATM Congress in Madrid from the 6th to the 8th March. We'll be at stand 240 with examples of tower and radar consoles on display as well as our team of experts ready to offer advice on your next project.



World ATM  
Congress 2018

6-8th March | IFEMA | Madrid

See us at Stand 240

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