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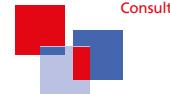
MasterMAN™ iRoom

Intelligent ROster OptiMization

MasterMAN™ iRoom is an innovative tool for the deployment planning of air traffic controllers, which has been especially designed for small and medium-sized airports. Staff planning is usually complex and partly has to be carried out manually. With **MasterMAN iRoom**, staff planning can be provided much more efficiently, using both flight plan data and real-time data.

With the use of heuristics and algorithms, the availability of all air traffic controllers (such as holidays, illnesses, training, etc.) can be taken into consideration to determine an optimized deployment plan for several weeks.

MasterMAN iRoom offers a transparent overview (day, week, and month view) and intuitive handling. Due to the integration of real-time data, the current daily planning can be adjusted and is always updated.

MasterMAN™ iRoom

▶ Staff planning support for small and medium-sized airports

▶ Provision of traffic overview at the airport

▶ ATCO availability and scheduling

▶ Representation of the working hours and availability of each air traffic controller
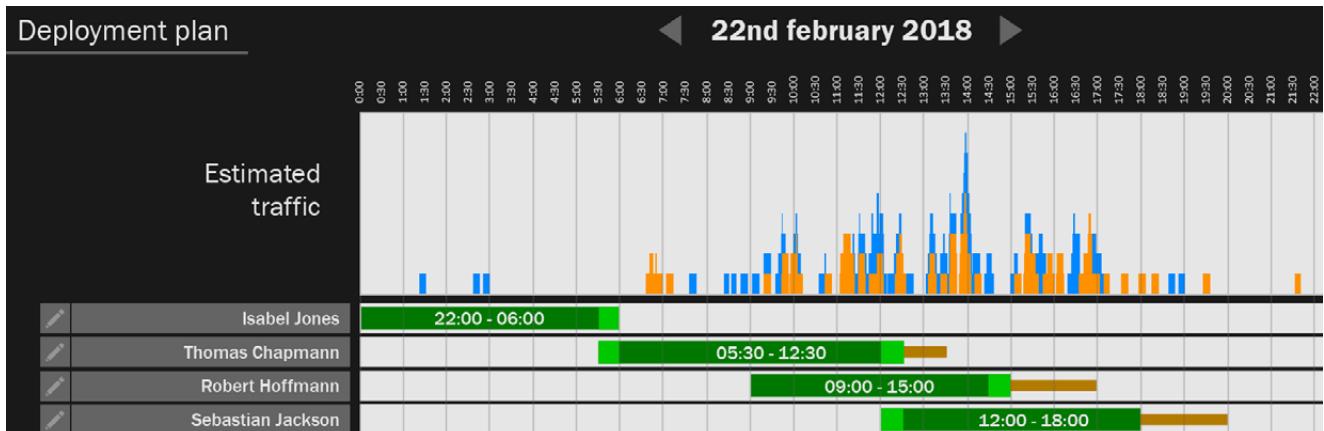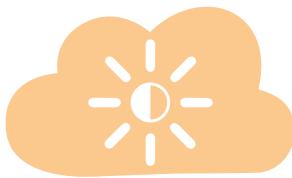
Staff planning

▶ Calculation of an shift plan

▶ Optimization of personnel deployment and flexible allocation of ATCOs

▶ Consideration of the airport opening hours, weather and other incidents available
(optimization according to different criteria possible)

▶ Link to ATC data (flight plan and real-time data)

▶ Recommendation for daily and monthly personnel deployment plan

• Flexible staff deployment

• Reduction of labour costs

• Prevention of mental overload or underload

Handling

▶ Depicts detailed information for all events (air and ground movements)

▶ Offers color-coded user interface for better comprehensibility

▶ Provides interactive handling and conflict solving capabilities

▶ Enables an intuitive usage via touchscreen

Developed by Human Factors Consult.

**Human
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