

In Germany, Fraport and Delair Air Traffic Systems have together developed Arosa, a generic system designed to manage and analyze airport capacity. The complete turn-around process including arrival and departure is analyzed holistically in an effort to guarantee the best use of an airport's total capacity. Based on defined milestones, a target-performance comparison is carried through continually for each phase of the process, and traffic forecasts can be calculated. The Arosa system consists of two components: Arosa Capman and Arosa Ataman. Arosa Capman optimizes airport capacity, identifying capacity reserves and improving punctuality. Arosa Ataman analyzes the phases of the air-to-air process, determining target slot times and synchronizing them with actual times. Flights are allocated to runways after consideration of arrival, departure and taxiing costs and available runway capacity. The results are continuously updated according to current data. Due to the immediate analysis and control of ground movements, Arosa provides constantly updated status, allowing for the optimum use of airport capacity. Arosa was successfully tested during a first trial phase at Frankfurt International Airport, and a second trial phase is scheduled for October 2009. #864.ATC5