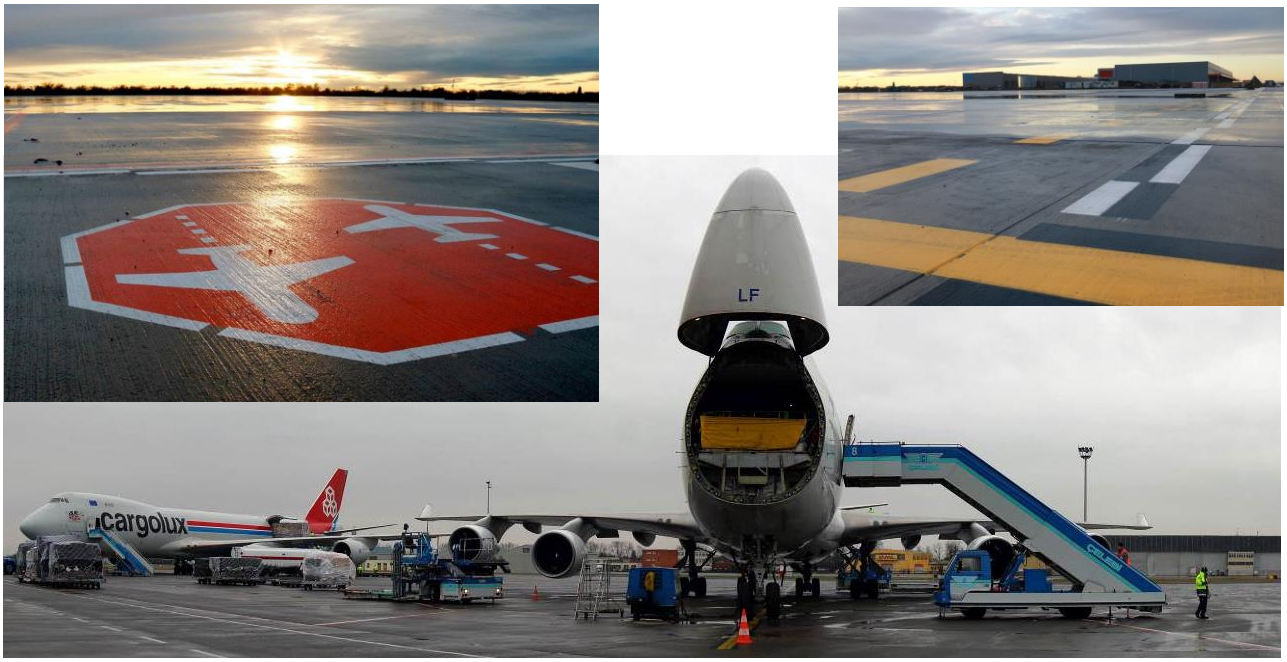
AIRPORT PLANNING AND DESIGN

# NEW CARGO APRON AT BUDAPEST LISZT FERENC INTERNATIONAL AIRPORT




**Client:**
**BUDAPEST AIRPORT**

**Features:**
Length of apron: 190,0 m
Width of apron: 172,5 m
Length of connecting taxiway: 50 m

Concrete pavement:
36.550 $m^2$ load bearing concrete pavement, 40 cm thick, 5.00 m x 5.00 m slabs

Asphalt pavement:
6.100 $m^2$ load bearing asphalt pavement for TWY shoulders
2.420 $m^2$ asphalt pavement for service roads

Airfield ground lighting, floodlighting, transformer connection, CCTV system, drainage, structural design

**Time of design:** January 2018 – August 2018

**Services:**
Preparation of design for approval and construction design

The growing cargo traffic at Budapest Liszt Ferenc International Airport necessitated the construction of a dedicated cargo apron and the related service and warehouse buildings.
At runway II, a separate concrete-paved apron was built connected to taxiway Alpha, which can accommodate 2 ICAO F-category aircrafts (Boeing 747-8F) or 4 C-category aircrafts.
Asphalt shoulders have been built around the new pavements, and an asphalt pavement-structured service road and patrol road are also connected to the apron.
The apron is illuminated from 24-30 m high columns, which also accommodate a security camera system. A local transformer was installed to ensure power supply for the apron. The alignment of the external safety fence was also modified. To drain the area, a new ditch was created with a pollution measuring device (TOC).

During the project the following sectoral design works were completed:
- geodesy, geotechnical engineering
- airport design (pavement, markings)
- hydraulic engineering (rainwater drainage)
- high voltage power supply (airfield ground lighting, airfield signs, transformer station, primary and secondary cable network, floodlighting)
- low current (communications and security technology, camera system, telecommunications)
- organization
- structural engineering