

2018 Charges Update

Consultation with the Users

Progress of Investment Plan

August 2017

ENAC - ADR Economic Regulation Agreement

Investments in 2017

- Fiumicino
- Ciampino

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Investments in 2017

- Fiumicino
- Ciampino

ADR's capex plan for 2017 - 2021

Plan referred to in consultations of 2016 for the second regulatory period

In '000 di euro

		Area di intervento	2017	2018	2019	2020	2021	Totale 2017-2021
Classe di intervento								
FIUMICINO	1	Attività urbanistiche Fiumicino Nord	5.306	5.580	7.233	516	7.810	26.445
	2	Interventi infrastrutture di volo Fiumicino Sud	41.366	71.221	28.918	65.672	53.908	261.085
	2	Interventi infrastrutture di volo Fiumicino Nord	7.618	36.468	120.225	184.358	183.363	532.033
	3	Interventi terminal Fiumicino Sud	63.586	139.518	126.220	49.497	59.614	438.436
	3	Interventi terminal Fiumicino Nord	4.365	11.242	9.552	9.653	0	34.812
	4	Interventi land side Fiumicino Sud	11.192	18.252	1.141	1.226	1.706	33.517
	4	Interventi land side Fiumicino Nord	240	2.456	2.788	5.607	4.525	15.615
	5	Interventi parcheggi Fiumicino Sud	2.304	14.469	16.432	1.382	379	34.965
	6	Altri interventi Fiumicino Sud	133.748	83.124	63.855	52.510	43.938	377.175
		Totale Fiumicino Sud	252.197	326.584	236.566	170.287	159.544	1.145.177
		Totale Fiumicino Nord	17.529	55.746	139.798	200.134	195.698	608.905
		Totale Fiumicino	269.726	382.330	376.364	370.420	355.242	1.754.082
C		Ciampino	15.990	11.217	6.662	4.308	2.880	41.057
		Totale Capex ADR	285.715	393.547	383.026	374.729	358.122	1.795.138

The Project to Complete Fiumicino Sud

FCO Sud Completion Project

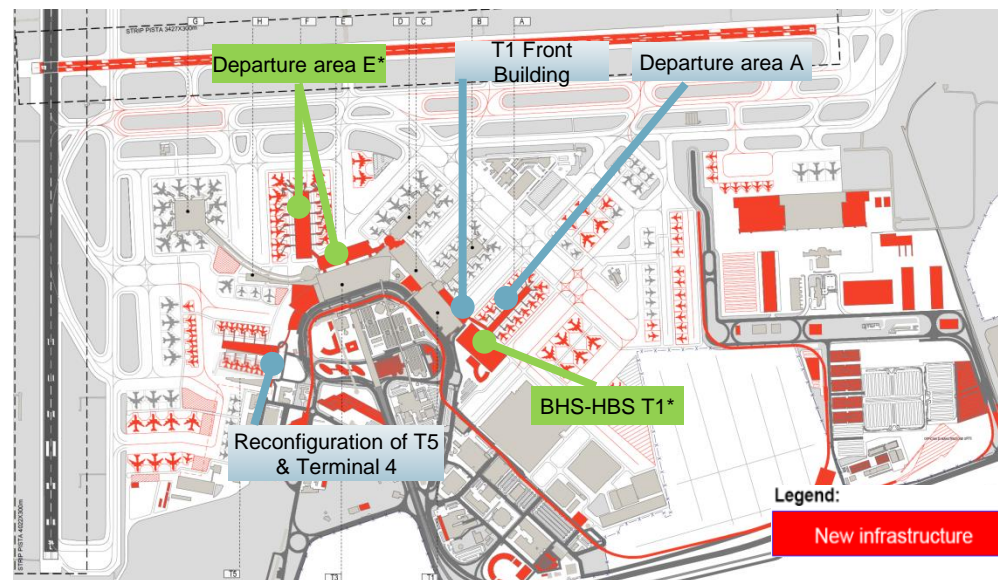
The completion project for FCO Sud outlines **the infrastructural organization** of the airport within its current premises. **ENAC** issued **its technical authorization** on **22/07/2011**

The main **objectives** of the project:

- To ensure the relaunch and completion of the Development Plan for Fiumicino Sud
- To improve the quality level of the infrastructure and of the services provided to users
- To ensure respect for the environment

Environmental Impact Assessment (EIA) Decree FCO Sud Completion Project

The **Environmental Impact Assessment (EIA) Decree 236 of 8 August 2013**, published in the **Official Gazette on 9 November 2013**, concerning the environmental compatibility of the **Fiumicino Sud Completion Project** contains a number of requirements made by the Environmental Impact Assessment Commission of the Italian Ministry of the Environment and Protection of Land and Sea (**MATTM**) and by the Italian Ministry of Cultural heritage and activities and tourism (**MiBACT**) for which ADR, also on ENAC's behalf as "applicant", is carrying out compliance audits with the Reference bodies in order to start construction of the works.



*BHS-HBS T1, Departure Area E completed

Development to the North and Ciampino

FCO's Masterplan until 2044

The **Masterplan** for FCO defines the **infrastructural organization** until the end of the **concession of the FCO terminal**. It involves the construction of new flight infrastructure, passenger terminals, accessibility and related infrastructure. **ENAC** issued its **technical authorization** in **October 2015**.

FCO's Masterplan until 2030

In **April 2016**, **ENAC** asked ADR to prepare its **Masterplan until 2030**.

The airport's organization in **MP 2030** (runway 4, first phase of the north terminal and related works) was **discussed with ENAC in February 2017**.

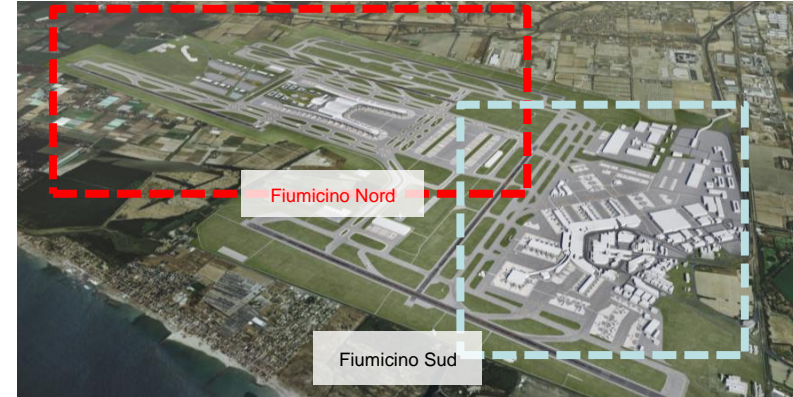
The EIA and urban compatibility procedure of the works of MP 2030 were initiated on 31 March 2017.

CIA's Masterplan

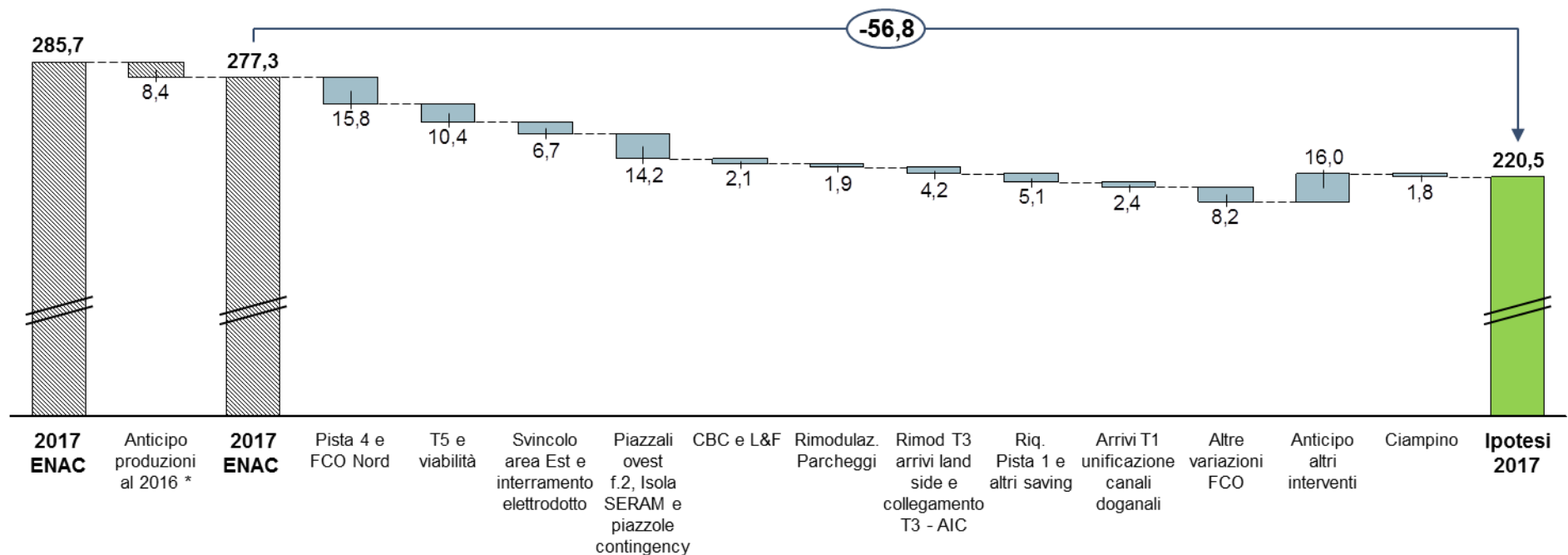
The **Masterplan** for CIA defines the **airport's infrastructural organization**. It includes the upgrade of flight infrastructure and of the commercial and general aviation terminal, under a 'secondary airport' management model, geared towards environmental sustainability.

ENAC issued its **technical authorization** in **October 2015**.

The EIA and urban compatibility procedure of the works of the MP were initiated on 04 February 2016. The additions requested by the EIA Commission were filed in December 2016.



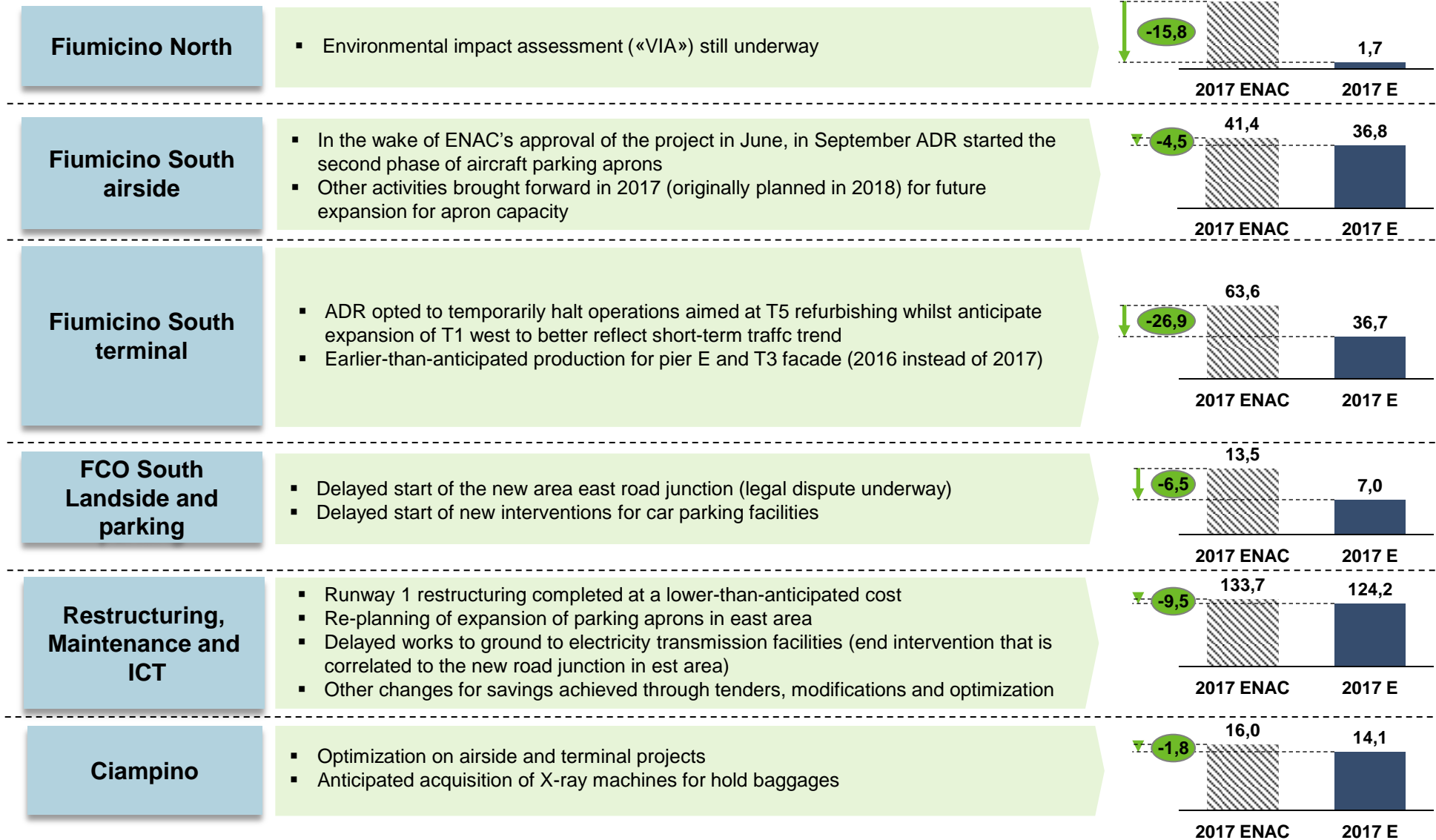
221 M€ of investment are planned for 2017 with some modifications and optimisation versus the original plan



- Advances for work in 2016
- Pending outcome of the EIA procedure
- Rescheduling to assess the actual short-term need in relation to the market scenario
- Pending definition of limits of competence of MIT/ANAS/ADR
- Start of phase 2 west aprons in the second half, rescheduling of move of SERAM area and reassessment of some interventions on pitches
- Further investigation to identify lower impact solutions to relocate the spaces for CBC / L&F
- Further investigation to assess the actual short-term need against market scenario
- Remodulation and optimization of work on T3
- Lower cost from final design of apron 1, savings for the agreements for signage to the passenger, new gates for Boarding Area B, upgrade of the Taxiway "Alfa"
- Rieassessment of interventions
- Other investments previously planned for 2018 brought forward in 2017 (no impact in 2018 tariffs)
- Rescheduling of measures for upgrade aprons, advance to purchase standard "3" X-ray machines for hold baggage

221 M€ of investment are planned for 2017 (-65,2 M€) with some modifications and optimisation versus the original plan

E = Estimate



ENAC - ADR Economic Regulation Agreement

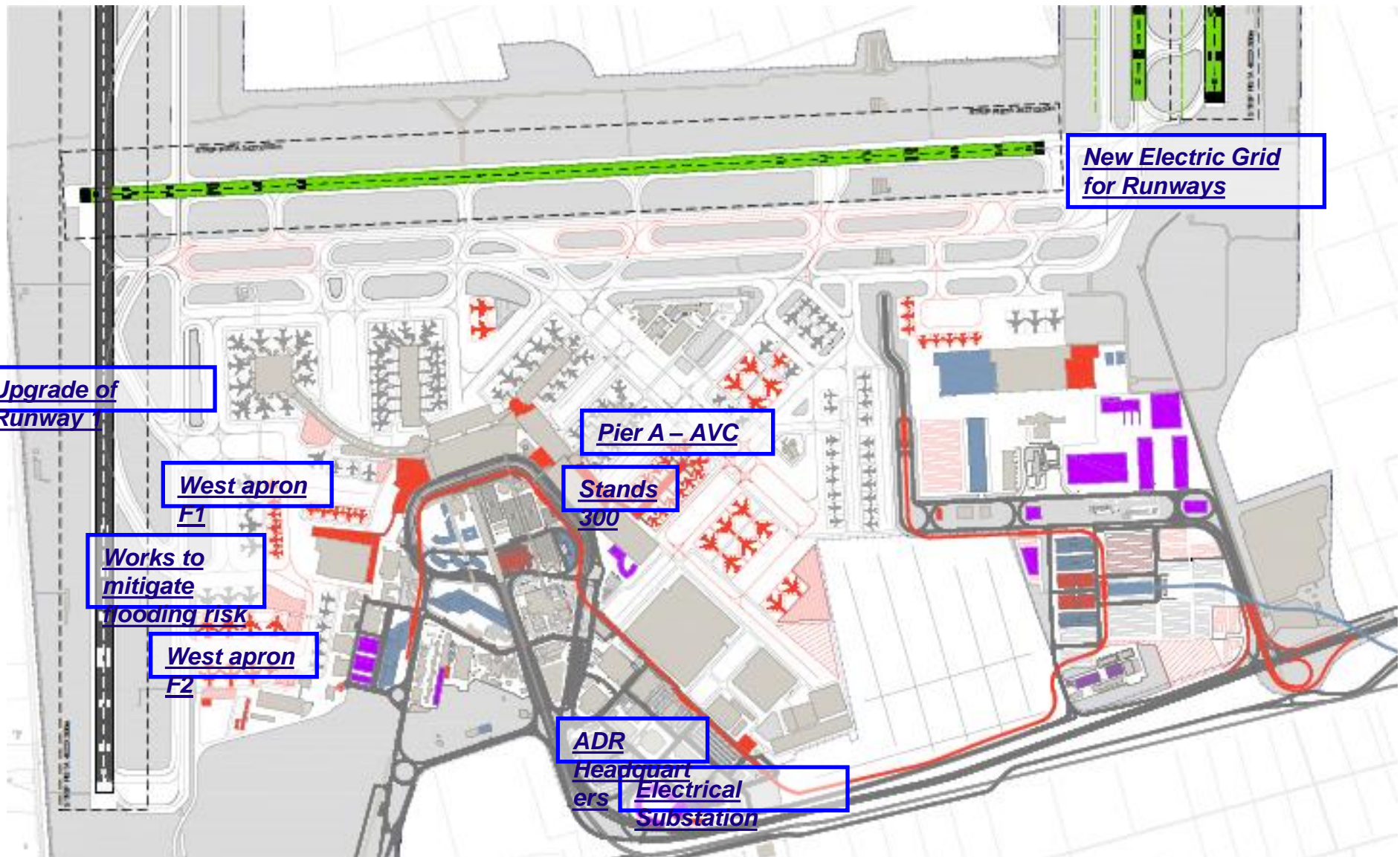
Investments in 2017

- Fiumicino
- Ciampino

Fiumicino

- West Area, expansion of aircraft parking aprons (phases 1, 2)
- Upgrade of runway system 16R/34L
- Works to mitigate the flooding risk in the West area
- East Airport System: departures A, expansion of quadrant 200 apron, expansion and front building
- Adaptation for sensitive flights Terminal 1 and Terminal 3
- New signage to direct passengers
- New layout of passport control at Terminal 3 Departures
- Measures for T3 arrivals landside
- New gates in Departure Area B
- New toilet facilities in T1 (C8-C16)
- Reconfiguration of gates C8-C16
- New electric grid for runways
- Renovation of electrical substation and MV switching center
- Perimeter protection system
- ADR's new headquarters building

Development of FCO in 2017 - the main works



West Area, expansion of aircraft parking aprons (phases 1, 2)

DESCRIPTION OF THE WORKS:

See Schedule A: 2.2 - Flight Infrastructure Works for FCO Sud

- PHASE 1: demolition of freight tunnel buildings and those of former waste treatment area, reconfiguration of stands 808-812: 3 "up to E" + 1 "up to C" (alternate configuration: 6 "up to 6 C"), construction of 6 new "up to C" stands and related taxiway, new ramp vehicles area.
- PHASE 2: new aircraft stands and related taxiway: 6 "up to E" + 3 "up to C" (alternate configuration: 4 "up to E" + 6 "up to C"), new area for ramp vehicles.

EXPECTED BENEFITS

- Increase of capacity of aircraft stands
- Improvement of operational performance: LVPs with RVR <400 m, full optional systems: fuel pit, 400 Hz, PCA, VDGS

STATUS and AMOUNTS

Phase 1: Works close to completion

31/05/2017 (opening of code E stands)

July 2017 (opening 6 new code C stands)

Phase 2: final design approved on 19/06/2017

Completion date: September 2018

2016 actual	2017 estimate
9.1 € million	19.8 € million



West Area, expansion of aircraft parking aprons (phases 1, 2)

West Area Step 1 - Hard pavement



West Area Step 1 - Hard pavement



DESCRIPTION OF THE WORKS:

- Upgrade of surface and restoration of slopes of the entire flight infrastructure by:
 - milling of the existing wear layer, milling deeper in the areas where it has been found necessary for regulatory compliance of slope rates;
 - reconstruction of the bituminous layers that have been removed, replacing them with the same thickness of those previously milled.
- The measure also affected the electrical flight assistance equipment in the area of the works, such as signals along the runway, runway centerline, touchdown area, etc. and the horizontal signage of the entire runway:
 - removal and installation of LED visual aids after replacing the recessed bases;
 - provision of secondary power to the affected visual aids;
 - refurbishment of the entire runway signage using thermo-plastic sprayed material.

EXPECTED BENEFITS

- To ensure the maintenance of the geometrical characteristics of the superstructure, in terms of longitudinal and transverse slope, in respect of the EASA standards

STATUS and AMOUNTS

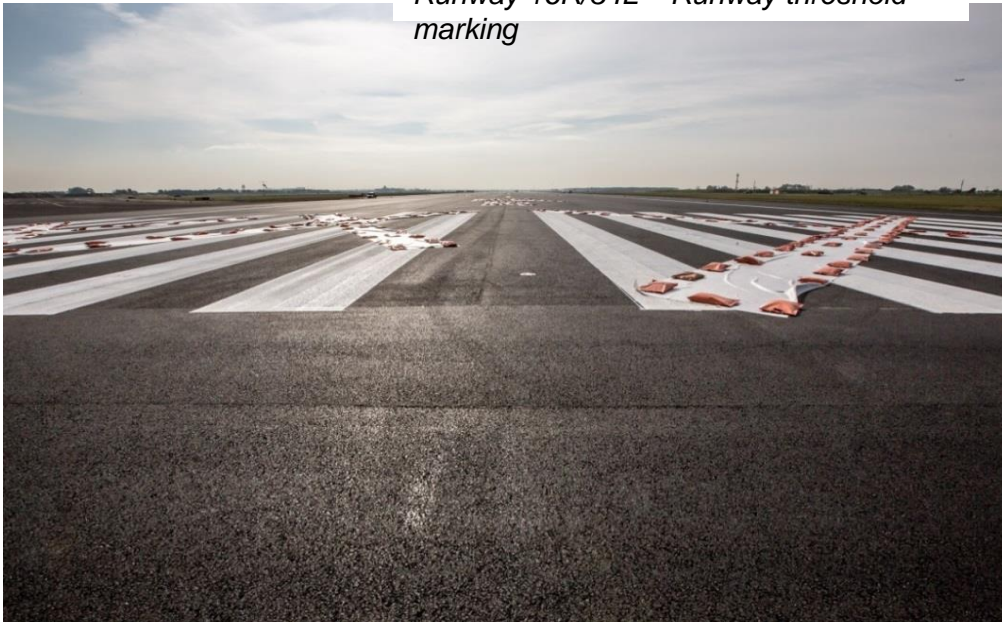
Work completed: runway re-opened on 3 March 2017

2016 actual	2017 estimate
0.3 € million	7.3 € million



Upgrade of runway system 16R/34L

Runway 16R/34L – Runway threshold marking

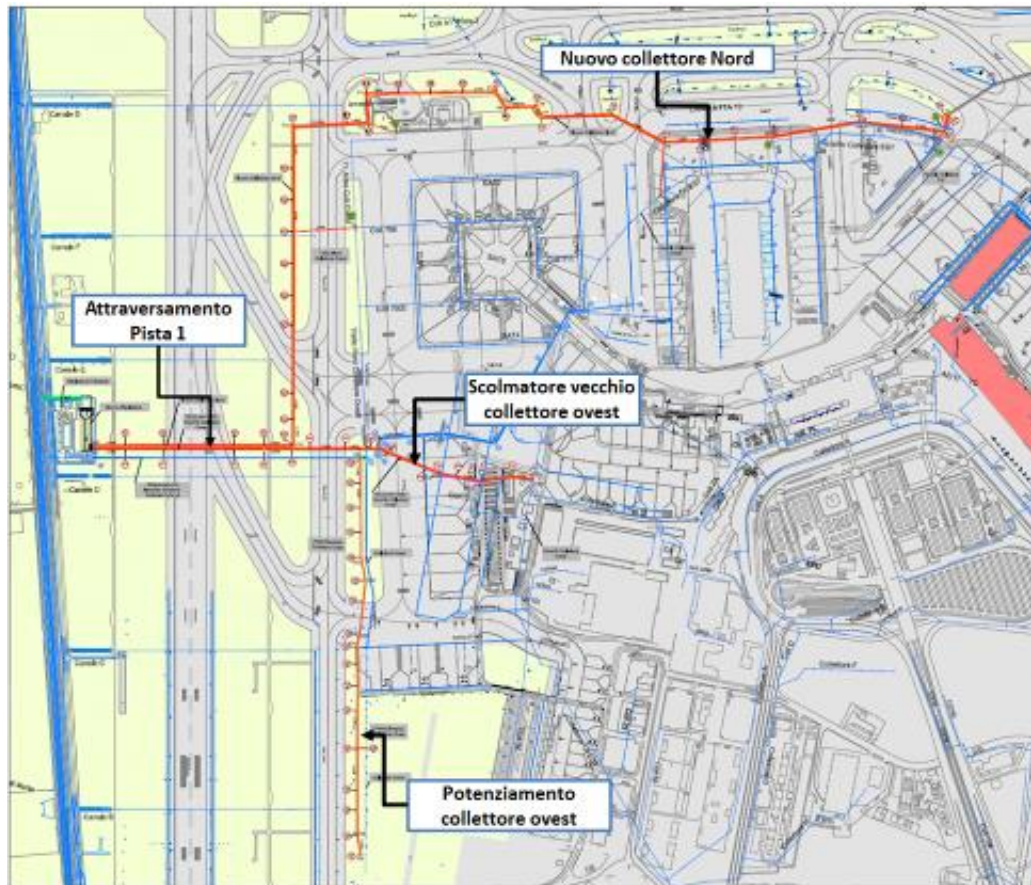


Runway 16R/34L – Runway threshold marking



DESCRIPTION OF WORKS:

- Construction of the new North collector and enhancement of the CA and COS collectors;
- Construction of the spillway of the Old West Collector and construction of a new crossing of Runway 1;
- New continuous oil separator to be built upstream of the outlet of the Coccia di Morto canal, to treat the flow coming from the collectors mentioned above.



EXPECTED BENEFITS

- Mitigation of flooding risk by adapting the airport to a uniform level, with return period of 20 years;
- Improvement of the drainage system for the future paved surfaces;
- Reduction of flow to the Traiano pumping station.

STATUS and AMOUNTS

construction in progress

Completion date: October 2018

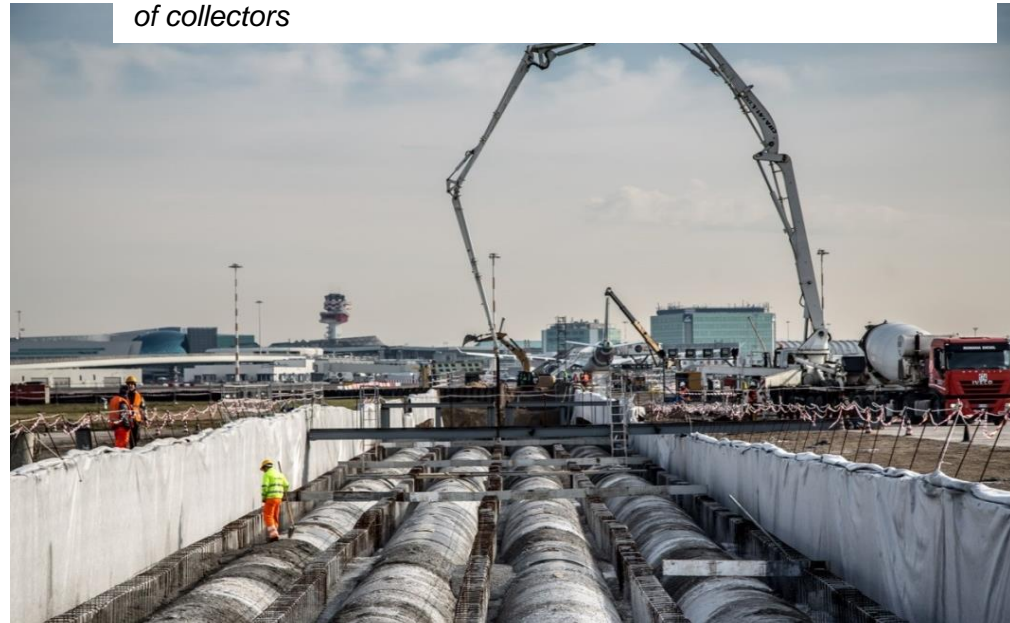
2016 actual	2017 estimate
0.2 € million	10.7 € million

Works to mitigate the flooding risk in the West area

Construction of reinforced concrete de-oiling tank



Crossing under runway 1 - pile driving, excavation and housing of collectors



East Airport System: departures A, expansion of quadrant 200 apron, expansion and T1 front building

See Schedule A: 3.4 - Works for FCO Sud Terminal

DESCRIPTION OF THE WORKS:

- Construction of the **Front Building of T1**, of the **departure area A** and **related aprons**: **+ 4 MLN pax/year of capacity**
- Construction of the **West extension of T1** (T2 demolition) and **reconfiguration** of the hub of the **Boarding area D**. At Boarding area C, the airside traffic areas and services will be expanded, 10 remote gates will be created: **+ 3 MLN pax/year of capacity**

EXPECTED BENEFITS

- Increase of the operational and functional capacity of the infrastructure

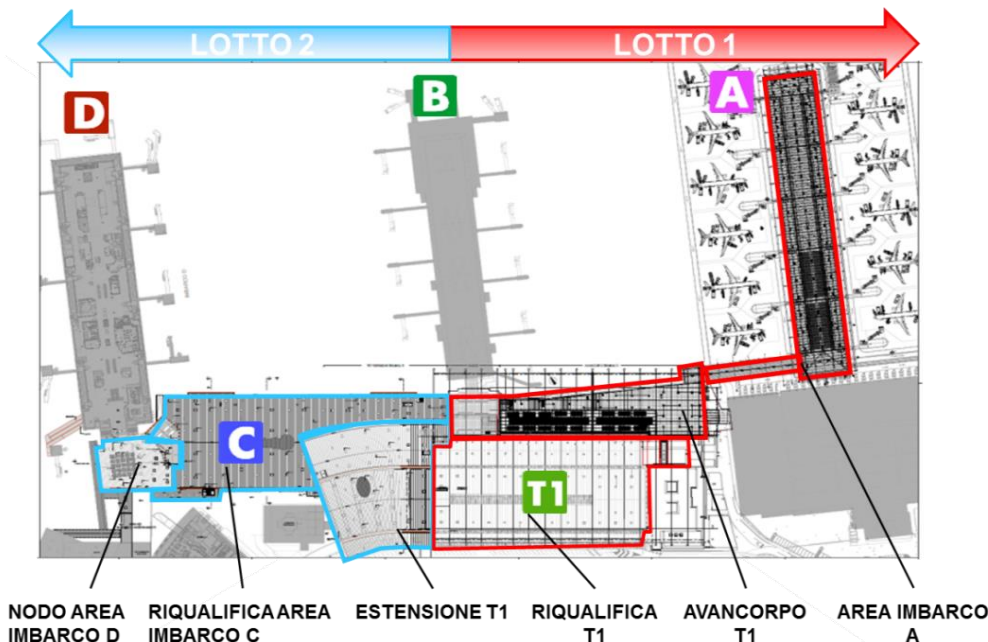
STATUS and AMOUNTS

Lot 1: economic approval in progress

Lot 2: detailed design being completed

Completion date of Plan:

- Expansion of quadrant 200 apron: Work completed during **2016**
- Quadrant 300 apron: Work in progress with expected completion in March **2018**
- A Departure area, T1 Front Building: *October 2019*
(T1 Expans.: 2021; AIC/AID adaptation: 2022)



2016 actual

12.2 € million

2017 estimate

8.9 € million

See Schedule A: 3.13 - Works for FCO Sud Terminal

DESCRIPTION OF WORKS:

- Preparatory works to move the check-in counters of American and Israeli airlines flights to Terminal 1 and Terminal 3
- Segregation of areas for the flights of the above airlines with dedicated security check channels.
- Introduction of specific security measures agreed with police, ENAC and TSA.



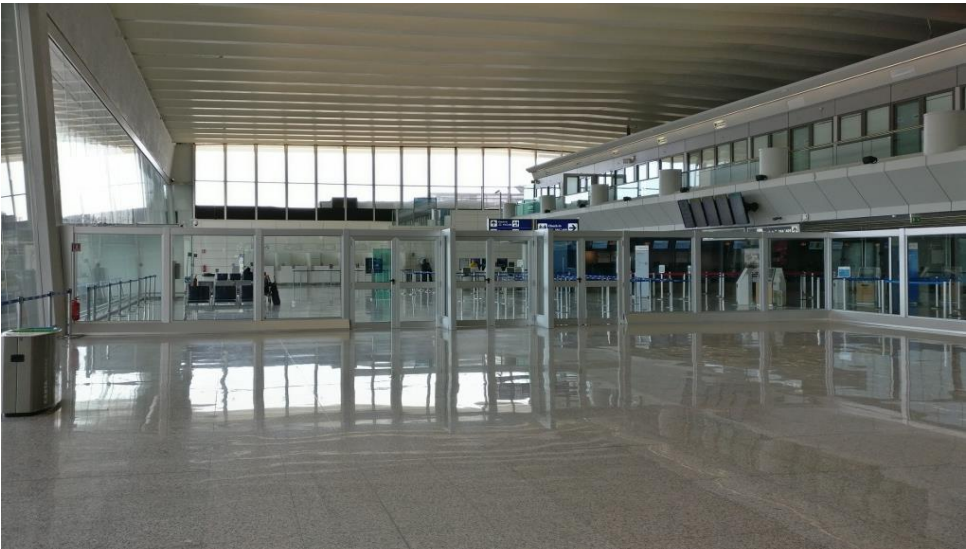
EXPECTED BENEFITS

- Preparatory activities to centralize check-in operations in the central Terminal system
- Improvement of quality, avoiding the need for passengers to transfer by bus to boarding areas

STATUS and AMOUNTS

Completed

2016 actual	2017 estimate
1.7 € million	€ 2.9 million



See Schedule A: 6.1- Other works for FCO Sud

DESCRIPTION OF WORKS:

New passenger directions signage is being installed at the Fiumicino airport, with new panels characterized by greater message clarity and energy saving.
The graphic and typeface characteristics are in line with the panels installed at the new pier and front building in order to ensure complete homogeneity and uniformity.

Main features:

- Different typefaces to differentiate operational and service signs
- Maximum versatility with panels of different heights depending on the heights between floors and spatial characteristics
- Better graphic presentation and looks by eliminating frames to maximize the surface area of the message
- Durability and energy savings by adopting LED technologies and monitoring systems
- Solutions that increase maintainability



EXPECTED BENEFITS

- Improved quality and ease of orientation for passengers
- Technological update

STATUS and AMOUNTS

Works in progress

Completion date: November 2017

AMOUNT

2016 actual	2017 estimate
€ 0.3 million	€ 1.4 million

New layout of passport control at Terminal 3 departures area

See Schedule A: 6.1- Other works for FCO Sud

DESCRIPTION OF WORKS:

- As a result of changes in the legislation on border regulations, the passport control area for departure and transit at Terminal 3 has been reconfigured
- Enlargement of the buffer area (+300 m²), enhancement of control stations:
 - +7 pax departure stations
 - +4 pax transit stations
- Enhancement of automated e-gates (+4 modules)



EXPECTED BENEFITS

- Regulatory compliance
- Capacity increase of passport control system

STATUS and AMOUNTS

completed

AMOUNT

2016 actual	2017 estimate
€ - million	€ 1.3 million

First phase of works for Terminal 3 Arrivals land side

See Schedule A: 3.3 - Works for FCO Sud Terminal

DESCRIPTION OF WORKS:

- Expansion of the passage section between Terminal 3 East and Terminal 3 West to facilitate passenger flow;
- New area for Car & Driver hire



EXPECTED BENEFITS

- Improvement of the management of passenger flow, increasing its cross-section

STATUS and AMOUNTS

Works in progress

Completion date: September 2017

AMOUNT

2016 actual	2017 estimate
€ 0.1 million	€ 0.5 million



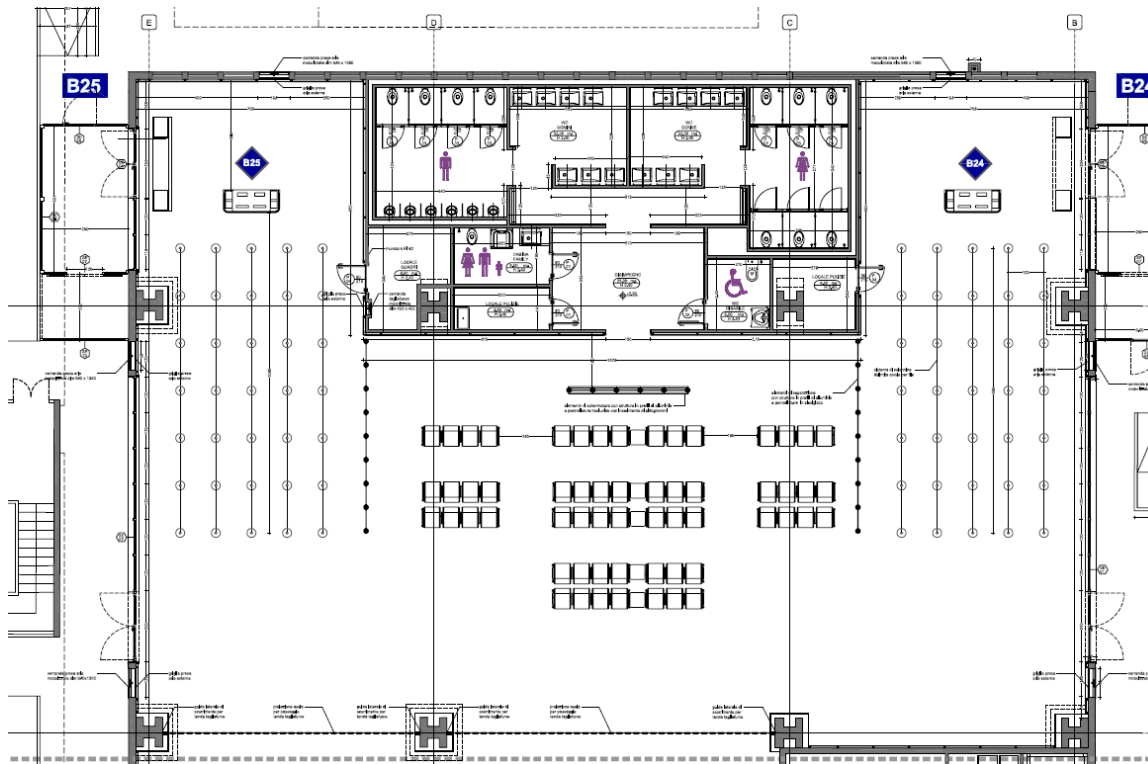
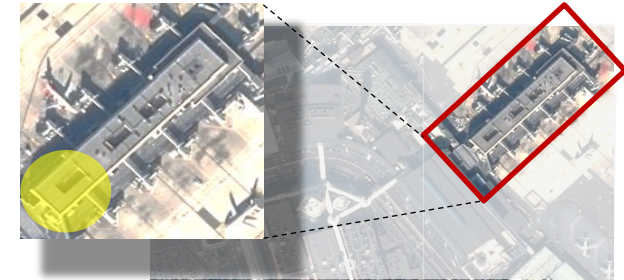
Note: Capex as per ITA GAAP

New gates in Departure Area B

DESCRIPTION OF WORKS:

- Construction of two new remote gates and a new group of toilet facilities at the departure area B at 2.00 m above ground, after reallocation of airline support rooms.

See Schedule A: 6.1- Other works for FCO Sud



EXPECTED BENEFITS

- Increase of passenger capacity airside
- Improvement of quality with a new group of toilet facilities for boarding area B

STATUS and AMOUNTS

Works in progress

Completion date: August 2017

AMOUNT

2016 actual	2017 estimate
€ 0.1 million	€ 1.9 million

New toilet facilities in T1 (C8-C16)

See Schedule A: 6.1- Other works for FCO Sud

DESCRIPTION OF WORKS:

- Construction of a new group of toilet facilities at the departure area C at 6.00 above ground near the gate, after rearranging the transits desk and support rooms.



EXPECTED BENEFITS

- Improvement of quality with a new group of toilet facilities for departure area C

STATUS and AMOUNTS

completed

AMOUNT

2016 actual	2017 estimate
€ 0.1 million	€ 0.3 million

Reconfiguration of gates C8-C16

See Schedule A: 6.2- Other works for FCO Sud

DESCRIPTION OF WORKS:

- Rearrangement measure of departure gates C8-C16 for a total surface of about 1.900 m²;
- Renewal of the gate counters and rearrangement of layout of queues to avoid overlap;
- Creation of pre-boarding areas.



EXPECTED BENEFITS

- Improvement of the functionality of the area for queuing
- Improvement of comfort by defining a new hierarchy of spaces and characterization thereof

STATUS and AMOUNTS

completed

AMOUNT

2016 actual	2017 estimate
€ - million	€ 0.4 million

New electric grid for runways

DESCRIPTION OF WORKS:

- Centralization of absolute reliability of the electrical power supply network for runway equipment;
- Use of high power rotating units to be installed in two new cabinets to ensure power supply continuity, replacing the existing medium size rotating units, installed locally in individual medium voltage/low voltage transformer cabinets;
- Reorganization of the medium voltage electrical network, reconfiguring from individual rings to double rings to maximize the reliability of the power supply;
- Revamping of systems in existing substations.

See Schedule A: 6.1- Other works for FCO Sud

EXPECTED BENEFITS

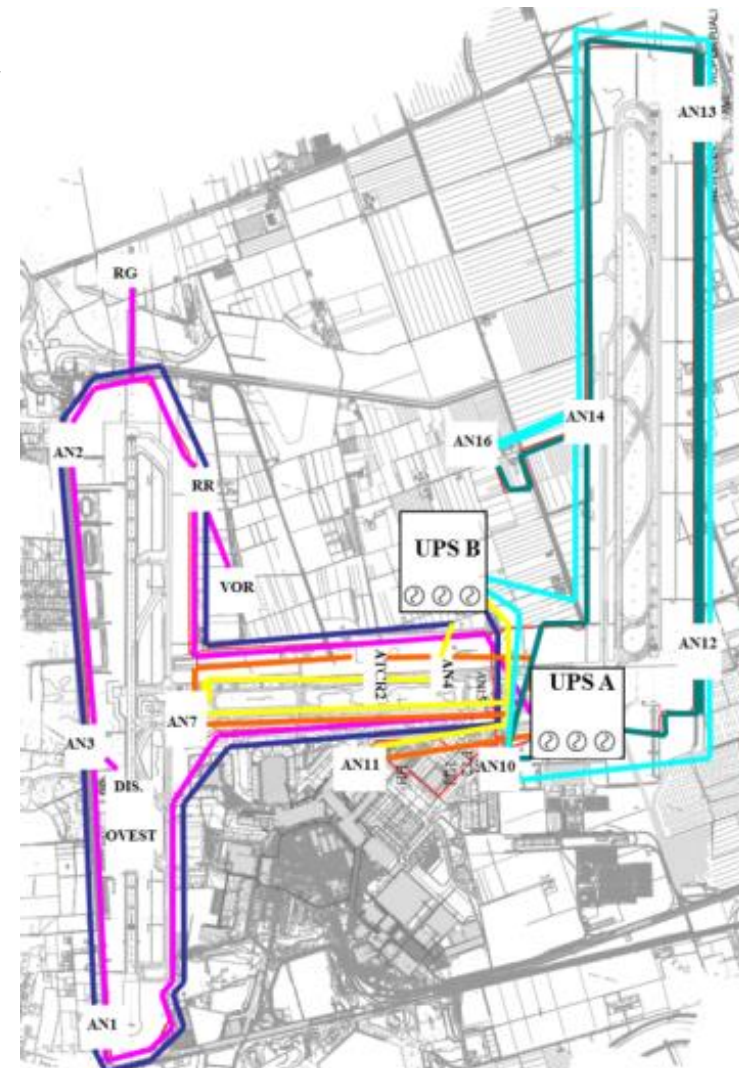
- Increase of efficiency and reliability of the electrical system of the runways

STATUS and AMOUNTS

Works in progress

Completion date: March 2018

2016 actual	2017 estimate
9.9 € million	11.3 € million



DESCRIPTION OF THE WORKS:

See Schedule A: 6.1- Other works for FCO Sud

- Construction of a new high-voltage/medium voltage electrical substation, located near the existing facility, so as to ensure greater reliability of the entire electrical grid.
- Physical breakdown at the high/medium voltage transformer level by using four smaller transformers, which are also totally redundant, which divide the network into four sectors;
- Adoption of gas rather than air insulated high voltage systems, to provide greater plant protection, better compartmentalization for fire prevention and smaller amounts of electromagnetic emissions.



EXPECTED BENEFITS

- Reduction of recovery times from failures by dividing the network into sectors;
- Greater protection of the system, better segmentation for fire protection and lower electromagnetic emissions

STATUS and AMOUNTS

Works in progress

Completion date: January 2018

2016 actual	2017 estimate
0.8 € million	11.6 € million

DESCRIPTION OF THE WORKS:

This initiative consists in **building of an intrusion prevention system along the perimeter fence of the airport (about 35 km)**

- Control system for the perimeter fence with a function to prevent physical intrusion, consisting of triaxial accelerometers
- Installation of video surveillance system consisting of 140 thermal imaging cameras and corresponding dome/PTZ cameras equipped with IR illuminators for night vision
- Central data system for processing, alarm and diagnostics management, archiving of data flows with operator stations to manage detections



See Schedule A: 6.1- Other works for FCO Sud

EXPECTED BENEFITS

- **Availability of an effective system to ensure high security standards, making it possible to view, record and perform intelligent video analysis of the areas of interest. The primary objective of intelligent analysis is to eliminate "false positives" by selecting the "alerts" for which it is actually necessary to activate measures, drastically reducing the time required for evaluation and response;**
- **The system will also be used for airfield area safety (which includes apron areas and connectors), monitoring the flow of aircraft, the flow of vehicles and persons in these areas so as to be able to document specific events using systems with multifocal sensors.**

STATUS and AMOUNTS

Works in progress

Expected completion date: December 2018

2016 actual	2017 estimate
€ 0.4 million	€ 2.9 million

DESCRIPTION OF THE WORKS:

- Improvement of the building previously used for AZ offices (11,000 m²) to be used as ADR's new headquarters
- The upgrade of state-owned assets significantly reduces the cost and time originally planned for the work



EXPECTED BENEFITS

- More efficient distribution of the corporate functions between central and remote offices

STATUS and AMOUNTS

Works in progress

Completion of infrastructure works: September 2017

2016 actual	2017 estimate
4.3 € million	7.0 € million

ENAC - ADR Economic Regulation Agreement

Investments in 2017

- Fiumicino
- Ciampino

Ciampino

- Restructuring of General Aviation Terminal
- Standard 3 X-ray machines

Restructuring of General Aviation Terminal

See Schedule A: C.5- Works on Ciampino Terminal

DESCRIPTION OF THE WORKS:

- Complete upgrade of the building
- Renewal of the layout and interior trim, to align the passenger experience to the specific traffic target of General Aviation

STATUS

Completed*

AMOUNT

2016 actual	2017 estimate
€ 2.5 million	€ 1.1 million



Note: Capex as per ITA GAAP; * Work and interior set-up completed

Restructuring of General Aviation Terminal



Standard 3 X-ray machines

See Schedule A: C.6 - Other works Ciampino

DESCRIPTION OF THE WORKS:

- Construction of new foundation bollard
- Implementation of new antivibration structures for X-ray machines
- Replacement of the entire set of STD2 equipment for hold baggage checks with 4 STD3 machines (Smith Heimann)

STATUS and AMOUNTS

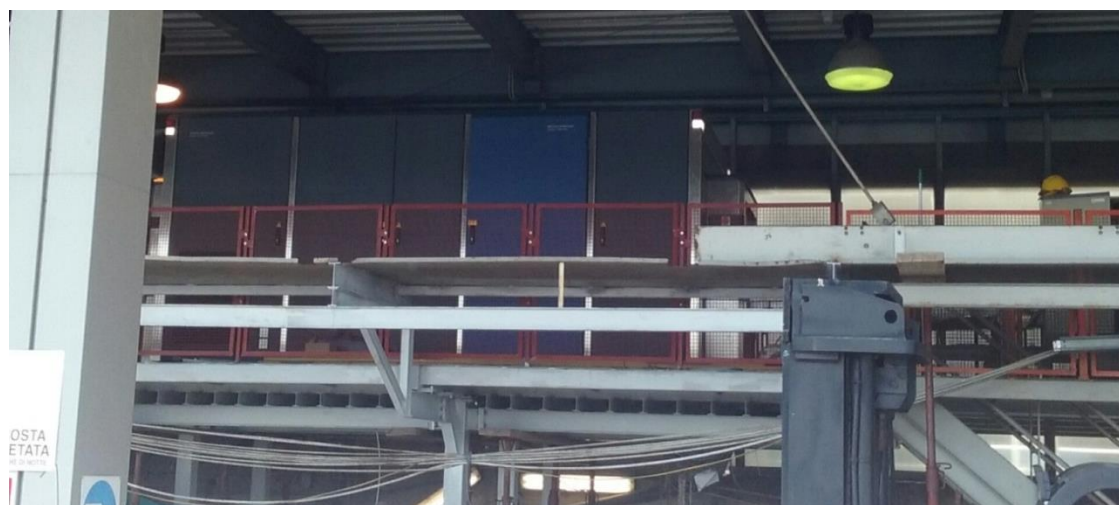
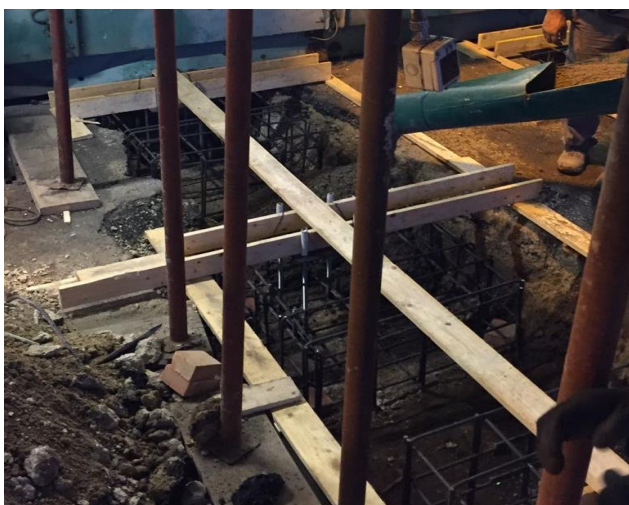
Construction in progress

Date of completion civil works: September 2017

Operation of first 2 X-ray machines: August 2017

Operation of remaining 2 X-ray machines: September 2017

2016 actual	2017 estimate
€ - million	€ 4.1 million



Note: Capex as per ITA GAAP