Ready to Restart!

Protective measures to prevent COVID-19 spread

3rd September 2020

ROME FIUMICINO AIRPORT
LEONARDO DA VINCI

Aeroporti di Roma

PREFACE

The resumption of air transport requires a **clear framework of operational measures,** applied uniformly at national, or even better at European/international, level, on the one hand to ensure an adequate mitigation of the health risks involved in the future phase of managing the epidemic, but on the other hand to restore the minimum economic viability conditions of air transport.

The close collaboration between the Institutions in charge and the various players in the air transport chain, which began in Italy during the initial phase of the emergency, has ensured **the definition and timely adoption of operational processes that are fundamental** to fighting against the spread of the epidemic.

It is considered that a **co-ordinated approach between Administrations and Industry should be preserved in all subsequent phases of post-crisis management.**

In this scenario ADR is since the beginning strongly committed in:

— Providing **safety and health protection** for airline & airport staff
— Creating **confidence for passengers** in order to travel safe again
— Ensuring and complying with the most important **requirements for health & behavior,** such as shielding equipment and social distancing

The following is a description of the measures that have been implemented and that can be remodelled and integrated in view of further in-depth studies that are currently underway.

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CONTENTS

1. **THERMAL SCANNER**
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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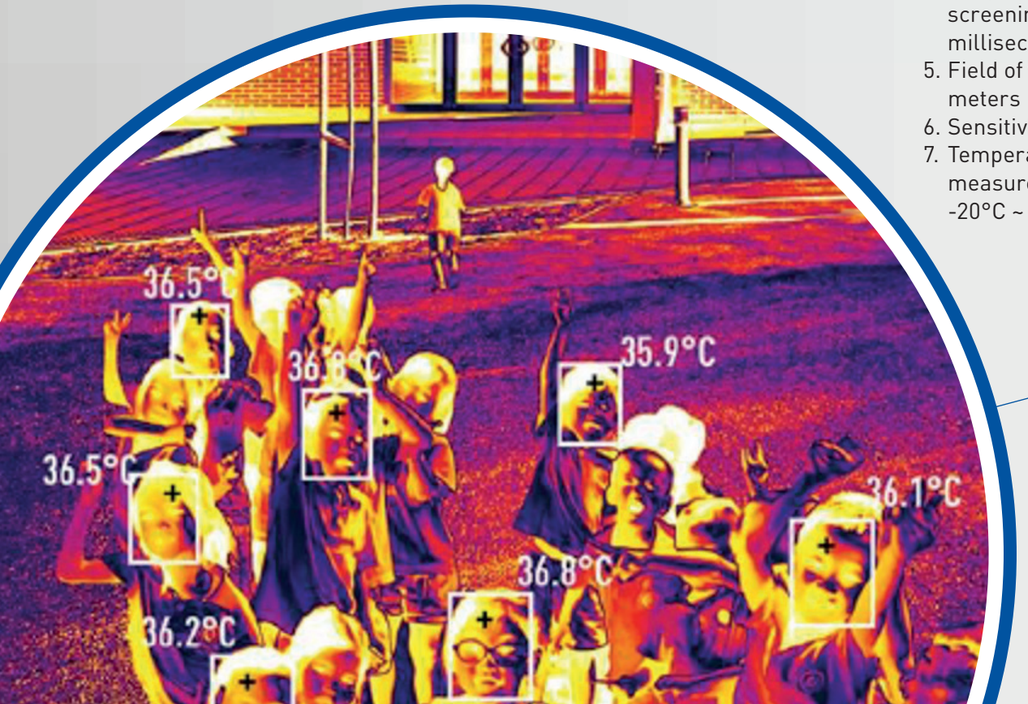
1. THERMAL SCANNER

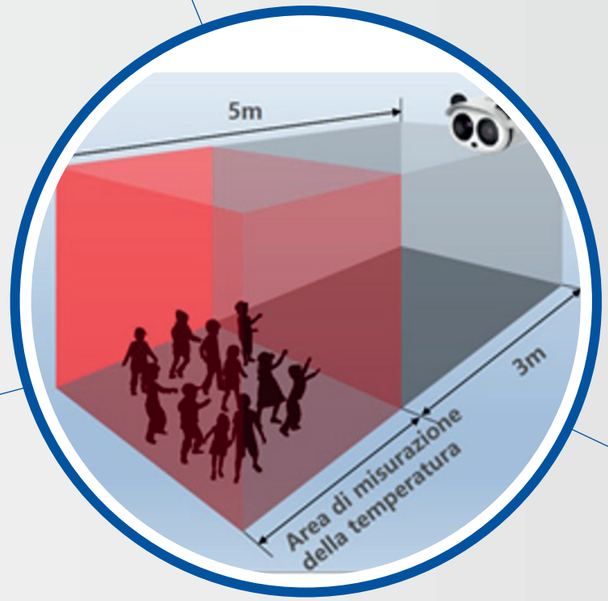
Infrared thermal imaging body temperature screening system has been installed at FCO since February 5th as countermeasure to prevent the virus spreading.

The high technology allows a real-time face temperature detection capturing up to 16 face temperatures simultaneously.

Parameters:

1. Temperature measurement accuracy ≤0.3°C
2. Temperature detection up to 16 face temperatures simultaneously
3. Motion detection, disk alarm, temperature alarm
4. Quick body temperature screening in ≤ 30 milliseconds
5. Field of view ≤ 10 meters
6. Sensitivity ≤ 40mK
7. Temperature measurement range -20°C ~ 60°C





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1. THERMAL SCANNER

Body temperature screening measurement

Body temperature conversion algorithm
A temperature conversion algorithm transforms face temperature into real body temperature.

Temperature algorithm correction
The temperature algorithm correction removes all environment, distance etc. alterations allowing the camera to work in a reliable way.

Temperature measurement accuracy ≤0.3°C
After the temperature correction the accuracy is ≤0.3°C (issuance, distance, environment temperature, etc.).

Alarms interface
2 alarms IN /
2 alarms OUT
Acoustic and bright signals can be activated when the alarm is ON.

Temperature alarm
If a detected temperature is beyond the pre-set threshold, an alarm signal is immediately generated.

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1. THERMAL SCANNER

The body temperature screening is performed under control of Ministry of Health by medical staff.

Both arriving & departing passengers are involved; thermal scanner available also at departure gates.

107 THERMAL SCANNER

- **Long distance, non contact**
- **Blackbody real-time calibration**
- **Large flow fast screening**

Entrance to Terminal Building

Arrivals Hall

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1. THERMAL SCANNER

Smart Helmet: the portable Thermal scanner.

The device allows airport staff to monitor and measure the body temperature of passengers from a distance by walking in the airport.

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1. THERMAL SCANNER

The temperature is measured for passengers, airport staff and operators using the thermal scanners that have been installed in the dedicated entrances.

Dedicated doors for entry / exit from Terminal.

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CONTENTS

1. THERMAL SCANNER
2. **SANIFICATION**
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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2. SANIFICATION

Information pylons showing the list of health protective recommended measures are spread along the Terminal.

Hand sanitizer gel dispensers are available in all areas (public and non public zones).

MORE THAN 250 GEL DISPENSERS

2. SANIFICATION

Electric hand sanitizer dispensers have been installed at the boarding area.
For every single use, 2 ml of product is dispensed ensuring up to 25,000 deliveries.

DISPENSER

2. SANIFICATION

The Terminal sanification is managed on daily basis along the external platforms and inside the Terminal.

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2. SANIFICATION

The treatment extends to continuous and accurate attention to the Terminal equipment such as baggage trolleys, trays at security and toilets.

Baggage trolleys

Trays at Security

Toilets

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2. SANIFICATION

Hold baggage is sanitized before it is collected by the passenger.

Automatic device for the distribution of a sanitizing mist emanated when the baggage passes inside a tunnel has been tested and implemented on all baggage belts; constant remote monitoring of both equipment functionality and availability of sanitizing liquid.

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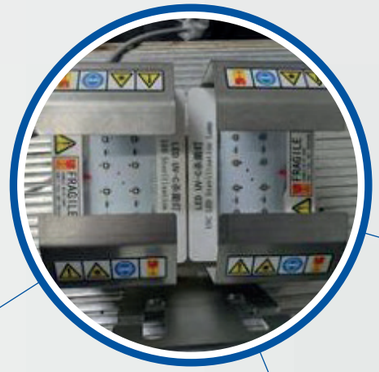
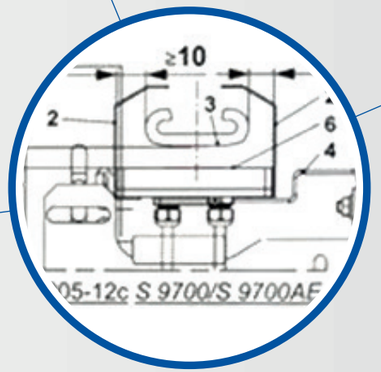
2. SANIFICATION

Escalators and moving walkways.

The escalators handrail connecting the Terminal 3 Departures to the Arrivals Hall is sanitised by UV rays LED lamps able to instantly remove and destroy any bacteria or viruses on the entire handrail contact area.





CORRIMANO SANIFICATO CON

Handrail disinfected with

UV CleanTouch

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2. SANIFICATION

By the entrance doors of the Terminal 3 Departures Hall the vending machines have been installed and equipped with a "sanitizing kit" which includes masks and sanitizing products.

The "sanitizing kit" is also available at the vending machines close the Ground Transportation area (trains, buses and taxis).

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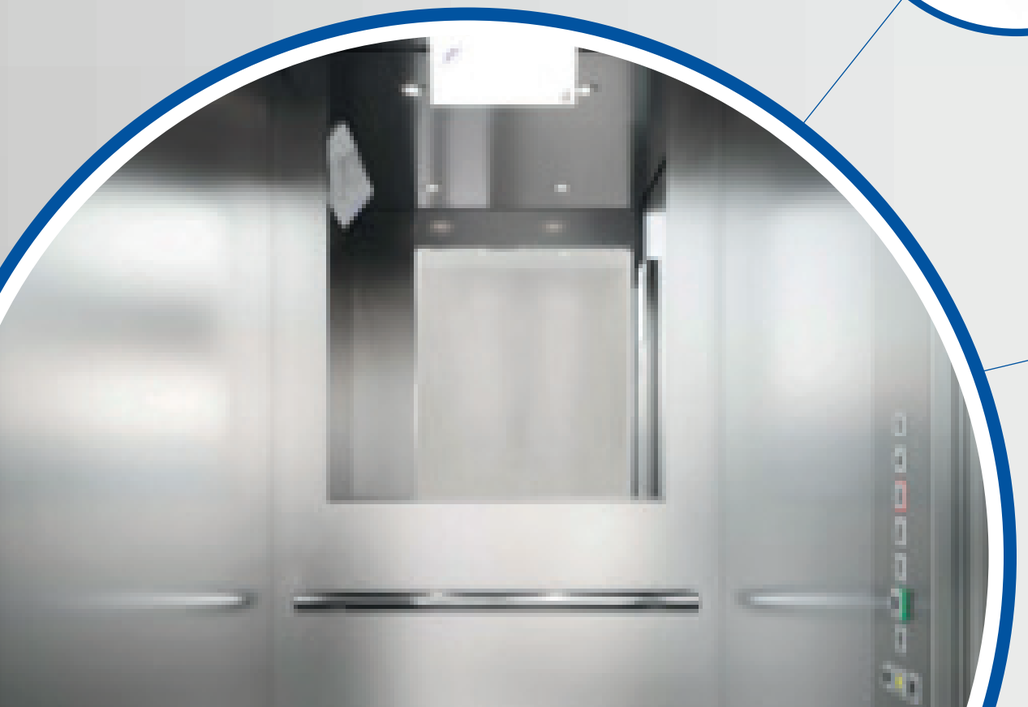
2. SANIFICATION

The sanification of the lift that connects the airside area of Terminal 3 is able to instantly eradicate bacteria and viruses.

LIFT



Aeroporti di Roma

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. **SIGNAGE – SOCIAL DISTANCING**
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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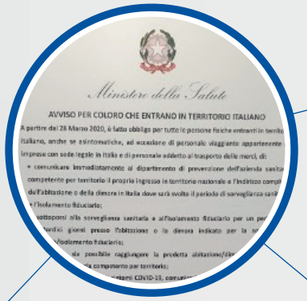
3. SIGNAGE

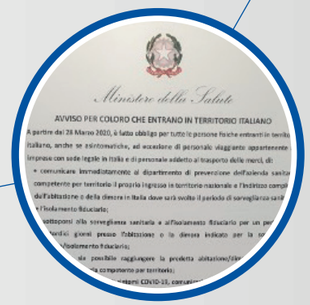
On-site
Signage to inform and remind passengers of body temperature check, health and immigration rules, social distancing message.

PA announcement every 15' during operational hours.

Staff briefed to monitor compliance with social distancing.

PASSENGER INFORMATION





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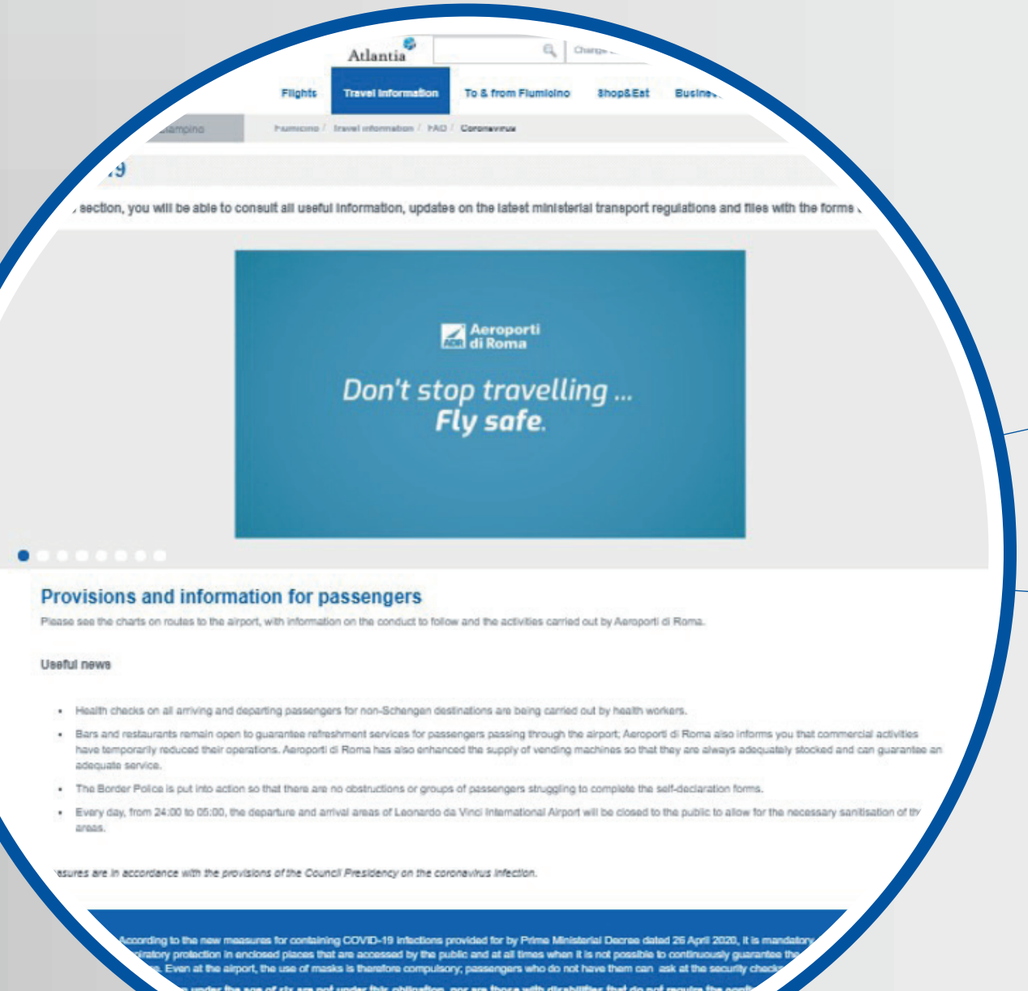
3. SIGNAGE

App, Site, Video Making.



Site adr.it

PASSENGER INFORMATION

We have made a video whose goal will be to provide information, reassure passengers and at the same time ask everyone to contribute to the respect of the rules to protect their own health and that of others.

App

3. SIGNAGE

Social distancing message on Ledwall and FIDS (Flight Information Display Screen) at check-in, boarding area, Arrivals and Departures Hall.

SOCIAL DISTANCING

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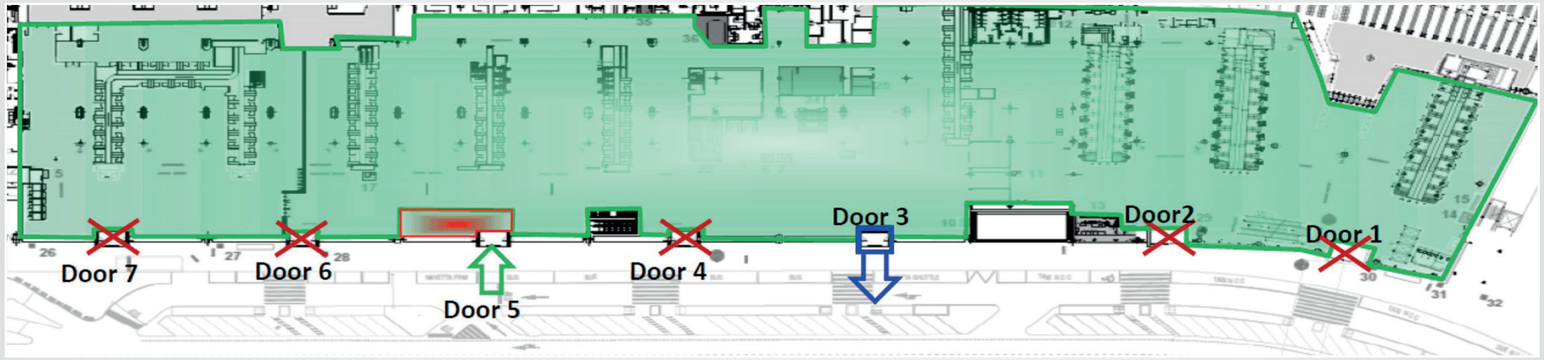
3. SOCIAL DISTANCING

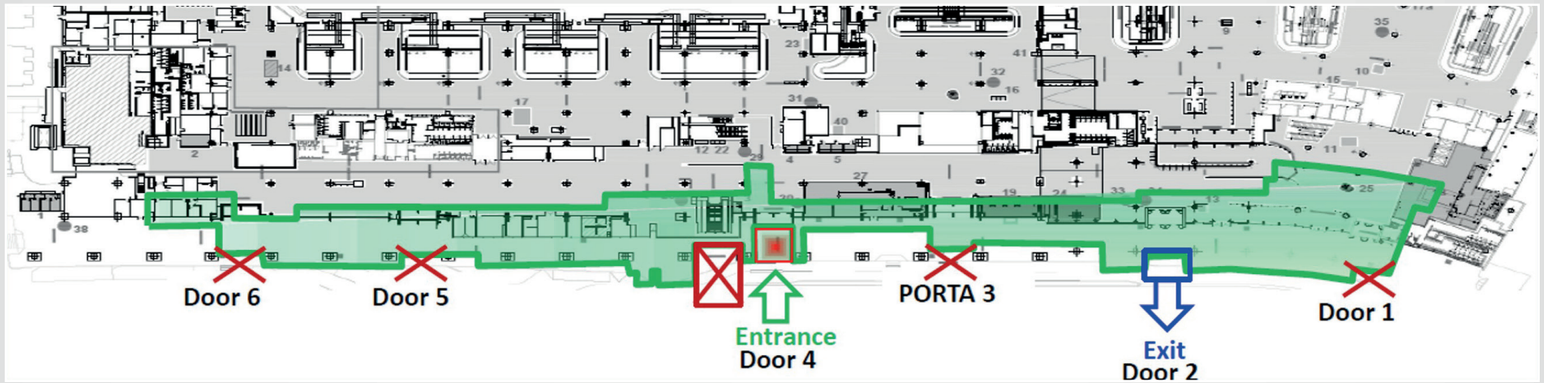
ENTRY / EXIT DEDICATED DOORS

- Fever Free Landside Area
- Thermal scanner
- Door closed

Terminal 3 - Departures



Terminal 3 - Arrivals



3. SOCIAL DISTANCING

Floor stickers applied for social distancing message at the security controls queueing area.

SECURITY CONTROLS

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3. SOCIAL DISTANCING

Short term: floor signage implementation and plexi dividers positioning to maintain social distancing.

DISTANZA SOCIALE - SOCIAL DISTANCING

SECURITY CONTROLS

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3. SOCIAL DISTANCING

Floor tape at Passport queuing area applied to remind passengers for social distancing.

IMMIGRATION / EMIGRATION

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3. SOCIAL DISTANCING

Walkable totems and stickers, use of check-in monitors to signal waiting positions and the need to keep the distance.

CHECK-IN COUNTER

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3. SOCIAL DISTANCING

SMOKING CABIN

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3. SOCIAL DISTANCING

TOILETS

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CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. **PROTECTION SCREENS**
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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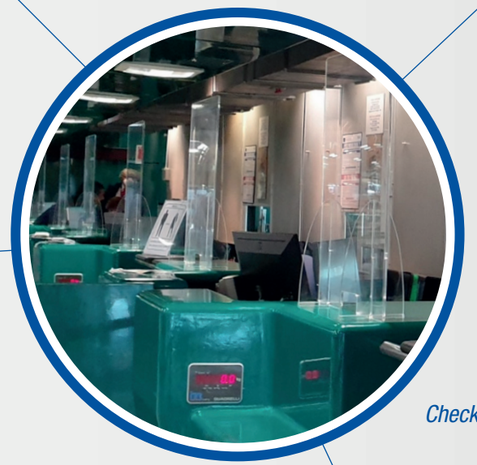
4. PROTECTION SCREENS

Plexiglas protection screens at check-in, ticketing, information desks to enhance the social distancing.

Information Point



Check-in counters

Ticket Office

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4. PROTECTION SCREENS

Plexiglas protection screens at border controls to guarantee protection between both passengers and operators.

Between Passengers

Between Operators

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. **WAITING AREA**
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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5. SEATING AREA

Seating area reduced with blocked seats to maintain the social minimum distance (leaving empty seats in between).

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5. BAGGAGE RECLAIM HALL

Walkable and use of the ledwall to indicate
the positions to be maintained on the ground.

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CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. **RAILWAY – BUS STATION**
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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6. RAILWAY AND CENTRAL BUS STATION

MECHANIZED CONNECTIONS

Stickers and totems at the beginning and end of the tapis roulant to remember the need to keep the distance.

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CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. **CURBSIDE**
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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7. CURBSIDE

Totems and panels
placed outside the terminals.

Aeroporti di Roma

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. **RETAIL**
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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8. RETAIL

People counting and signage to remember social distancing.

Aeroporti di Roma

CONTENTS

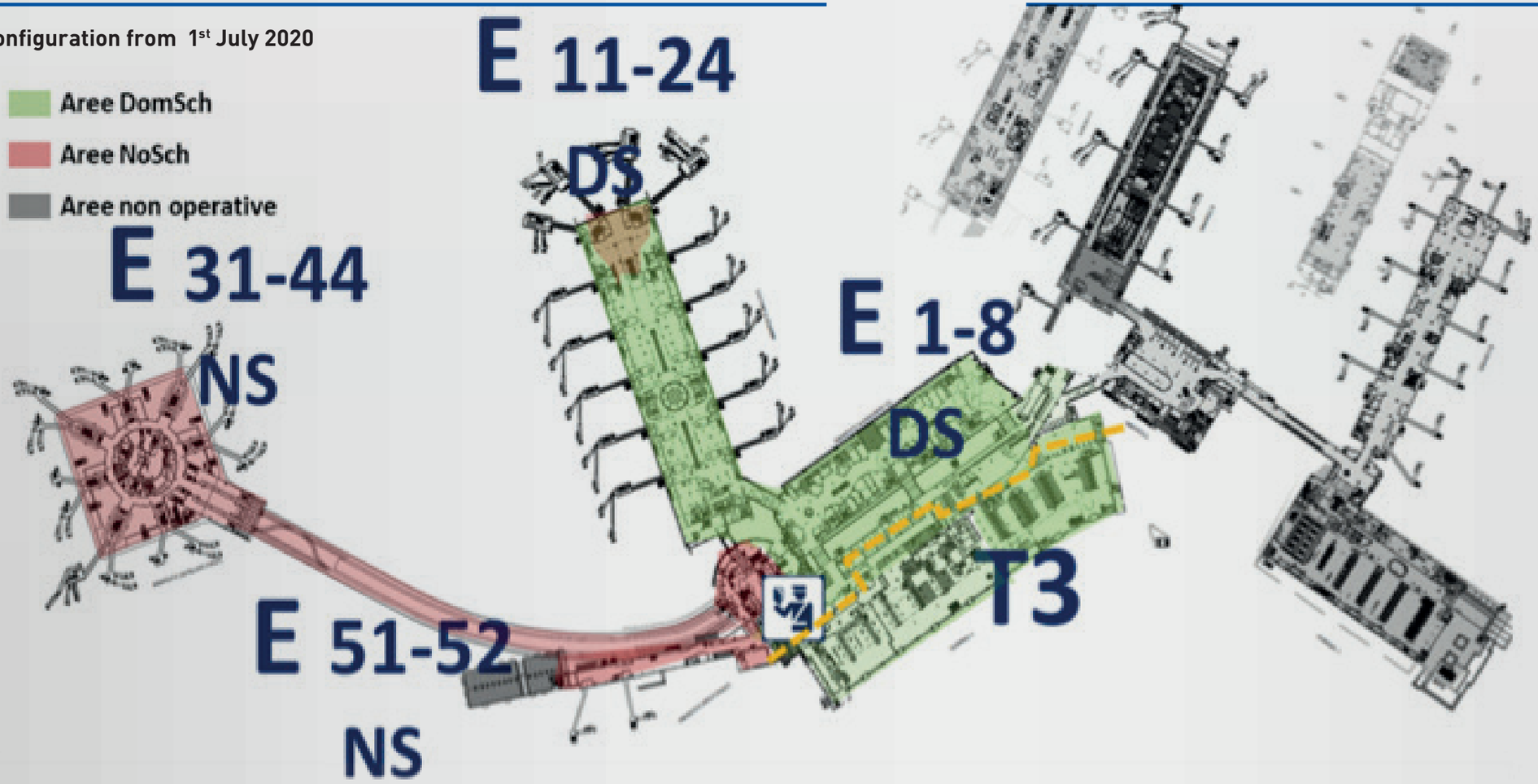
1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. **NEW LAYOUT OF THE TERMINAL**
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

Aeroporti di Roma

9. NEW LAYOUT OF THE TERMINAL

BOARDING AREA

Configuration from 1st July 2020



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9. NEW LAYOUT OF THE TERMINAL

Departures
n. 8 cabins (l. 2,2 m)
Connecting Pax
n. 4 cabins (l. 2,5 m)

EMIGRATION AND CONNECTING

Aeroporti di Roma

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

Aeroporti di Roma

10. EASA PILOT

On April 15th 2020, the European Commission presented a common European roadmap setting out recommendations on Covid-19 containment measures. As requested in the roadmap, on 13th May 2020 the Commission presented indications on how to progressively restore transport services, connectivity and free movement with the speed allowed by the health situation, while protecting the health of workers and passengers.

The Commission has mandated the European Union Aviation Safety Agency (EASA) and the European Center for Disease Prevention and Control (ECDC) to jointly publish more detailed technical operational guidelines for the aviation sector.

EASA and ECDC developed these guidelines, the purpose of which is to serve as a basic protocol for aviation health safety and to provide a source of good practice on how airport operators, airlines, and national aviation authorities can ensure the health and safety of passengers, as well as of operators in the sector, reducing the risk of transmission of the virus.

Air carriers and airport operators have been invited to participate in a program for compliance with these rules which, among others, provides for a weekly data collection aimed at constituting a feedback cycle on the execution of the implemented measures established in the protocol.

This collection will facilitate further refinements and revisions of the protocol to improve the effectiveness and efficiency of the guidelines, in view of the expected increase in traffic volumes and potential new waves of Covid-19.

Aeroporti di Roma has been one of the first airport operator to join this program.

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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11. BIOSAFETY TRUST CERTIFICATION

The new approach and the contingency measures evolved in **standard procedures.**
We decided together with RINA to apply at the airport the concept of Biosafety Trust Certification.

The first certification framework for management systems designed to **prevent and mitigate the spread of infections** in order to protect people from the threat of biological agents.

It is based on ISO norms (ISO 45001, ISO 14001, ISO 31000, ISO 19011), with a focus on the analysis of behaviours from the Organizational Behaviour Management (OBM) and on Risk Management. Monitoring of third parties and training courses on the respect of hygiene norms is part of the management system.

The requirements of this new tool can be integrated in other current certifications, in particular in the Occupational Health and Safety certification ISO 45001.

Aeroporti di Roma has been the First Airport Operator in the World to be Biosafety Trust Certified.

Aeroporti di Roma

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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12. ACI AIRPORT HEALTH ACCREDITATION

An important international recognition for Rome's airport in the fight against the spread of Covid-19.

1st airport in the European Union – and third in the world – **to receive the Airport Health Accreditation issued** by Airports Council International (ACI), the international association that represents over 1,900 airports.

A recognition that demonstrates how the protocols and measures taken at FCO are the forefront in the procedures for containing the spread of the virus and are examples of best practise to be followed in the air transport industry.

The ACI Airport Health Accreditation (AHA) programme provides airports with an assessment of how well their health measures align with the ACI Aviation Business Restart and Recovery guidelines and the recommendations of the ICAO Council Aviation Restart Task Force, along with industry best practises.

The cleaning and disinfection of areas, the maintenance of physical distancing, the protections provided to staff and communication to passengers were all assessed.

Since the beginning of the pandemic, Aeroporti di Roma has launched a considerable intervention plan, due to the breadth and depth of the measures implemented, in order to ensure safety and comfort for passengers and workers.

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS
14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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13. COVID-19 TEST

The new dedicated area of 1,000 square metres at the Terminal 3 Arrivals Hall allows to accommodate up to 480 passengers simultaneously, in full compliance with the safety distancing rules where doctors from the Health Ministery can operate in 12 reserved boxes (up to a maximum of 20) in full respect of privacy.

Covid-19 antigenic tests are provided to arriving passengers from Malta, Spain, Greece and Croatia.

AIRPORT T3 ARRIVALS

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13. COVID-19 TEST

The small travelers as well, children with their parents are welcomed by medical staff in a reserved and comfortable area.

AIRPORT T3 ARRIVALS

Aeroporti di Roma

CONTENTS

1. THERMAL SCANNER
2. SANIFICATION
3. SIGNAGE – SOCIAL DISTANCING
4. PROTECTION SCREENS
5. WAITING AREA
6. RAILWAY – BUS STATION
7. CURBSIDE
8. RETAIL
9. NEW LAYOUT OF THE TERMINAL
10. EASA PILOT
11. BIOSAFETY TRUST CERTIFICATION
12. ACI HEALTH ACCREDITATION
13. COVID-19 TEST – AIRPORT T3 ARRIVALS

14. COVID-19 TEST – AIRPORT DRIVE-IN CENTRE

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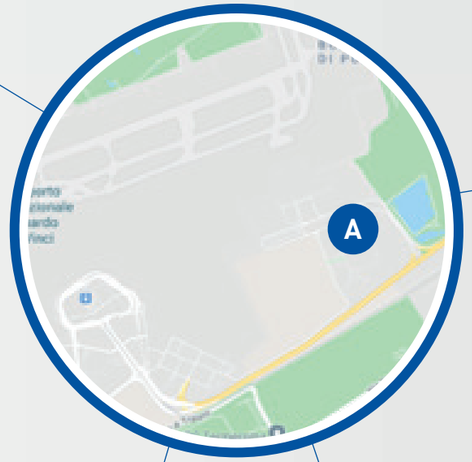
14. COVID-19 TEST

Aeroporti di Roma made available an area of about 7,000 square meters converting a portion of the Long stay car parking to build a new Drive In structure of the Lazio Region to perform swabs antigenic Covid-19.

AIRPORT DRIVE-IN CENTRE

The structure was built in collaboration between the Health Ministery, the Lazio Region, the Spallanzani Institute and Italian Red Cross.

It is managed by the Health Authorities of the Lazio Region and manned by medical and paramedical staff of the Italian Red Cross.



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14. COVID-19 TEST

The new area dedicated to rapid tests, accessible to anyone, can be easily accessed from the Rome-Fiumicino motorway, partly thanks to dedicated road signs.

The facility, which is the largest in Italy, has six health check-points for sampling and a pedestrian dedicated lane. **Up to 130 vehicles can have access simultaneously.**

AIRPORT DRIVE-IN CENTRE

The drive-in is open seven days a week with extensive opening times giving also the opportunity to undergo the test for arriving passengers in the evening after closure of the test area at Terminal 3 Arrivals.

A shuttle service is available from and to the Terminal: the connection is enhanced during evening hours to facilitate the use of the drive-in.

Food service is available and the area is equipped with toilets.

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www.adr.it