

LOGISTICS – MOBILITY - WASTE



December 2014



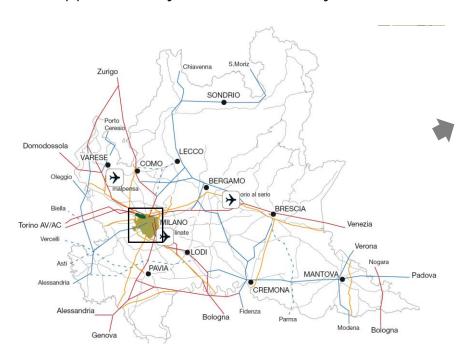


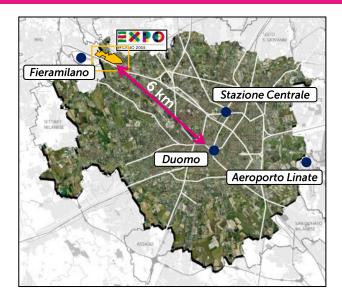


THE EXPO 2015 SITE

THE EXPO SITE

The site of Expo Milano 2015 is located north-west of Milan approximately 6km from the city center







OPENING HOURS

OPERATIONS BY NIGHT

• **Waste management**: 11.30 p.m. – 01.00 a.m.

Cleaning inside Pavilions: free hours

Non-Food Logistics: 01.00 a.m. – 08.00 a.m.

• **F&B Logistics**: 01.00 a.m. – 08.00 a.m.

Street washing and cleaning: 08.00 a.m. – 10.00 a.m.

PARTICIPANTS AND EXPO STAFF: H 24





AGENDA

1. LOGISTICS

- 2. WASTE MANAGEMENT
- 3. MOBILITY



REFERENCE MODEL: SITE ACCESS MODES FOR SUPPLIERS

FOOD&BEVERAGE LOGISTICS





OFFICIAL



- All security checks in the supplier warehouse
- Direct access to Gate Expo (only routine check at the gate)
- Access priority

CERTIFIED



- Subject to Vendor Certification Program (VCP)
- All security checks in the supplier warehouse
- Direct access to Gate Expo (only routine check at the gate)
- Access priority

RESIDUAL



- Drive-thru in Service Screening Area SSA F&B for all security checks:
 - Vehicle, Driver, Goods
- Access "best effort"

NO FOOD LOGISTICS



DB SCHENKER





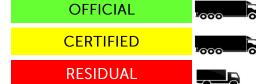
• The Official Logistics Provider will manage Last Mile Operations (security controls in the proximity warehouse and night delivery to the Expo site). Exclusive rights ONLY for the period May 1st-October 31st 2015

OTHER SERVICES LOGISTICS



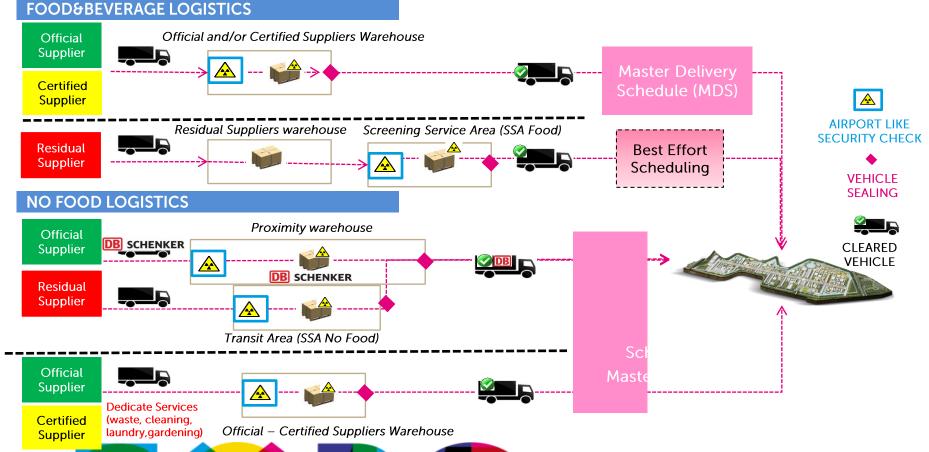
- The model includes also vehicles for dedicated and specific services such as:
 - Maintenance Waste Management
 - Cleaning Gardening
 - Services for events







REFERENCE MODEL: SITE ACCESS MODES FOR SUPPLIERS



VARIABLES OF THE MODEL



LOGISTICS OPENING HOURS

Monday - Sunday 1:00am to 8:00am

FOR NON FOOD LOGISTIC MANAGED BY DB SCHENKER

Orders before 6:00pm will be delivered same night Orders after 6:00pm will be delivered next night Rush orders with 3 hours lead time are possible

LOCK DOWN

The Lock Down is the stage in the life cycle of the Expo Site during which the security plan is fully implemented and all access control measures come into effect.



- The security of the delivery will be guaranteed by seals applied to the load area of the vehicle done by the Security Responsible of the Supplier.
- Seals are sensible materials and must be kept in a separated area. Every use of the seal must be tracked. Every supplier will have a dedicated range of seals numbers.

SEALS

• The Expo site has 7 Cargo gates. One (number 12) will be dedicated to waste management and emergencies





CARGO ACCESS RULES IN LOCK DOWN PERIOD



PROCESS

Vehicle accreditation

All vehicles must be logged on the accreditation database specifying the vehicle type, make, model, registration plate and payload

Vehicle conformity

Vehicles must comply with the goods access security procedures which include the control of the cargo, application of seals to the cargo, presence of the appropriate transport documents and any security checks

Driver accreditation

All drivers must be logged on the accreditation database and carry an ID pass issued by the Organizer

Vehicle access

Vehicle access must have been **booked and scheduled** in the Master Delivery Schedule

- The visual checks on the goods will be done in the Official/Certified Supplier warehouse or in the SSA
- F&B **Residual** suppliers will be checked and managed in the SSA in "drive-thru" mode (no load consolidation)





OFFICIAL AND CERTIFIED VENDORS

Official

Certified





VENDOR CERTIFICATION PROGRAM - VCP



The Vendor Certification Program (VCP) is a specific program applied ONLY to Italian companies which must be proposed by single or multiple Participants. Vendors will pay a fee to access VCP. The VCP aims to demonstrate that the Vendor can grant adequate security standards for the stocking and delivery of goods to the Expo site, giving to the certified vendors priority access privileges.

Application

Self certificatio n Docume nts check

Audit (optional)

Certification

Process Verification

• APPLICATION: the certification will allow suppliers providing goods or services inside the Expo Site to inspect, check and seal deliveries directly in their own warehouses streamlining access and control procedures at the entry cargo gates



- SELF CERTIFICATION: Suppliers must implement precise security protocols within the certification process for: warehouses, personnel, vehicles, safety seals, documentation, deliveries to the Site
- DOCUMENTS CHECK: Expo Security and/or the Police will check all relevant documentation submitted
- AUDIT (OPTIONAL): Expo Security and/or the Police might perform an audit at the Vendor venue/s
- CERTIFICATION: award
- PROCESS VERIFICATION: during the Expo, Expo Security and/or the Police might perform an audit at the vendor venue/s









Residual









SCREENING SERVICE AREA - SSA

All F&B goods of Residual Suppliers must drive thru the SSA for:

- Visual check of the goods
- Vehicle check (driver and cargo area)
- Identification and background check for the driver
- Accreditation (temporary pass) for the driver and the vehicle
- Cargo Sealing and Best effort scheduling in MDS to enter the Expo Site:





















DB SCHENKER

Proximity warehouse for nofood goods









NO-FOOD PROXIMITY WAREHOUSE by DBS



Master Delivery Schedule



MASTER DELIVERY SCHEDULE - MDS



The Master Delivery Schedule is a vehicle access management system, developed to meet the Organizer's needs, which manages vehicle and goods flows in and out of the Site securely, effectively and efficiently.

Accreditation

Access request

Data sanity check

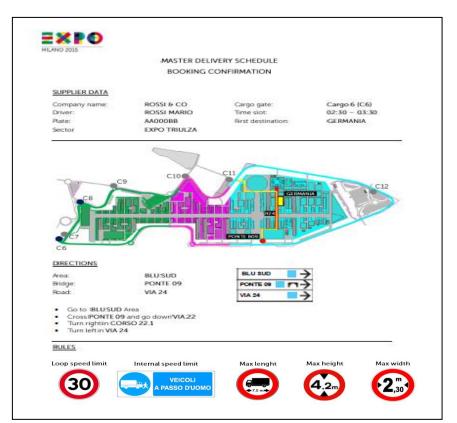
SW processing Access comunic ation Access to `cargo
gate

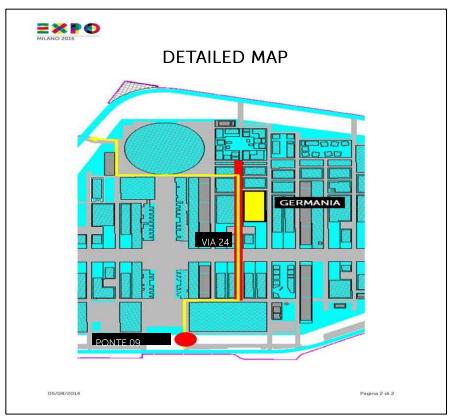


- ACCREDITATION: Employees background check, entry in Accreditation data-base
- ACCESS REQUEST: data entry in web application to request access for delivery to the Expo site.
 Cut-off time to book «next night deliveries» is 8:00pm
- DATA SANITY CHECK: cross check of the data with the Accreditation data-base and check with cut-off timing
- DATA PROCESSING: processing of all the access requests according to the scheduling and access priority rules
- ACCESS COMMUNICATION: communication to every requesting Supplier of the access details: cargo gate, timing, internal sector, bridge, indication on how to go the Pavillion
- ACCESSS TO CARGO GATE: the accredited vehicle and driver of the Supplier can go to the cargo gate at the specified timing for secirity controls



MASTER DELIVERY SCHEDULE ORDER











VOLUMES



• General goods volumes referr to fittings, furniture and commercial items for all the Participants of the exposition (OP, NOP, Italian Pavilion). These volumes are subject to further modification/ update.



FOOD &
BEVERAGE
VOLUMES

- F&B volumes ccount for 25.9 million meals , corresponding to approx 45 ktons of F&B supply
- There are the following types of restauration areas:
- Daily volumes are split into average days and peak days (55 days)



• Volumes for other services, such as events, maintenance, cleaning, waste etc have been estimated by Operations Division according to the available information. These volumes are subject to further modification/ update.



• The limited internal viability of the Expo Site restricts deliveries only to small size vehicles:



nassimo (LxLxA) Dimensioni 3,8x1,7x1,7 0 litri Capacità 80



Dimensioni massimo (LxL 6x2,1x2,5 Capacità 1000 litri



Dimensioni massimo (LxLxA) 6,5x2,1x2,5 Capacità 1000 litri



Dimensioni massimo (LxLxA 7,5x2,4x2,9 Capacità 18-2500 litri

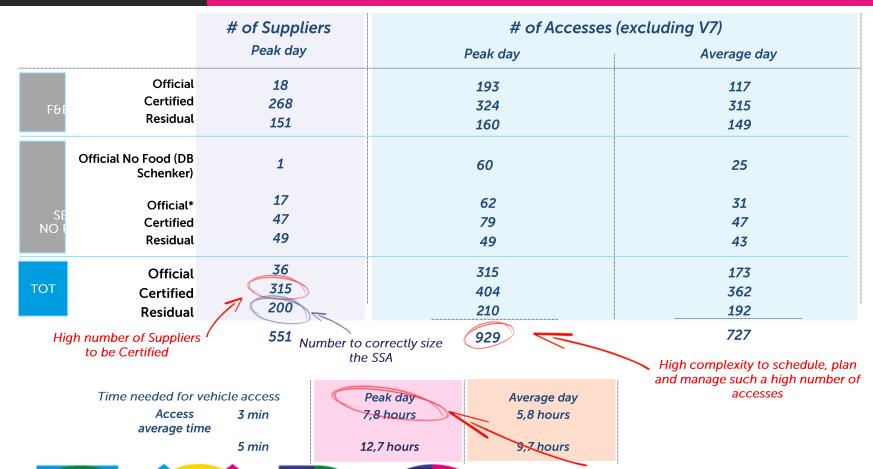








SUPPLIERS & VEHICLES ACCESS OUTCOME



Need to extend the logistics opening hours (1:00am-8:00am)

AGENDA

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3. MOBILITY







WASTE MANAGEMENT

PAVILIONS & SCHEDULE



Waste produced in Pavilions should be kept in storage room in appropriate containers provided by Organizer; all other containers displaced in Pavillion will be in charge of Participants



- Monday Sunday 23:30 to 01:00
- Every night by 23.00 to 23.30, the bins provided must be placed outside the Pavilions, in the specific areas.
- The Waste Management Partner will collect only once per night, therefore it is essential that participants respect this schedule









COMPOSTING TREATMENT

RECYCLING MATERIALS

INCINERATION WITH ENERGY RECOVERY





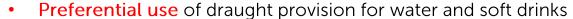






WASTE MANAGEMENT MANDATORY PROCEDURES





- Provision of water in jugs or with returnable glass bottles
- Limitation of the use of glass and discouraging customers from taking any glass container and/or bottles off the premises where served (due also to security reasons)



Use of washable - rather than disposable - tableware

A pest control system will be applied to the whole Expo Site and will protect against:

rats - crawling insects - flying insects

It will cover every area (storage and technical areas included), and will be done with monthly frequency, to be increased according to the needs.









WASTE MANAGEMENT

PUBLIC AREAS CONTAINERS



Containers in **public Areas** will be emptied by a **team** of 80 people according to the following cycle:

TIME BAND	LEVEL OF WASTE PRODUCTION	FREQUENCY EMPTYING (minutes)
10:00 – 11:30 («breakfast»)	MEDIUM	60-90
11:30 — 15:00 («lunch»)	HIGH	30-60
15:00 - 19:00 («snacks»)	LOW	90-120
19:00 – 23:00 («dinner»)	HIGH	30-60







WASTE MANAGEMENT STREET CLEANING and BIN WASHING

Daily stree cleaning:

• schedule: 07.30 - 09.30





BIN TYPE	WASHING
Organic Type A	Daily
Organic Type C	Every 3 days
Paper Type C	Every 7 days
Glass Type C	Every 7 days







AGENDA

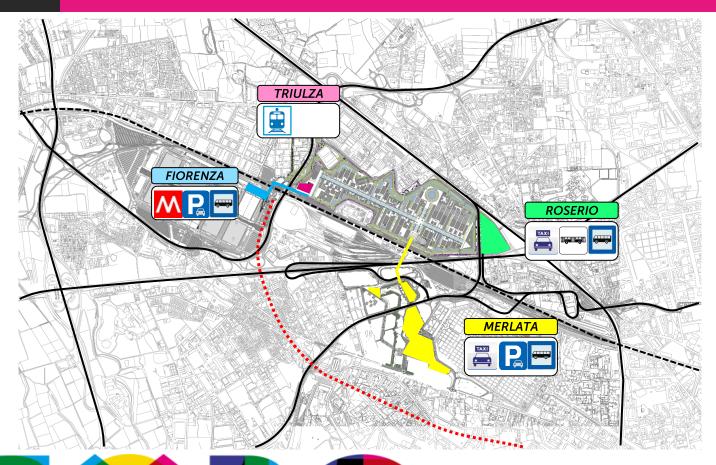
- 1. LOGISTICS
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MOBILITY ACCESS TO THE EXPO SITE



MOBILITY

VISITORS FLOWS AND ACCESS TO THE SITE





SOUTH-WEST GATE

33% total entries





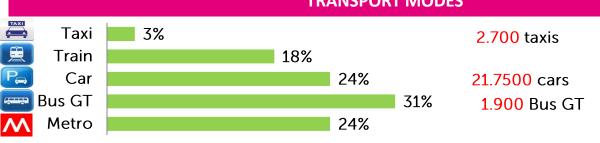
32% total entries



PE.



TRANSPORT MODES



DIRECTIONAL SIGN







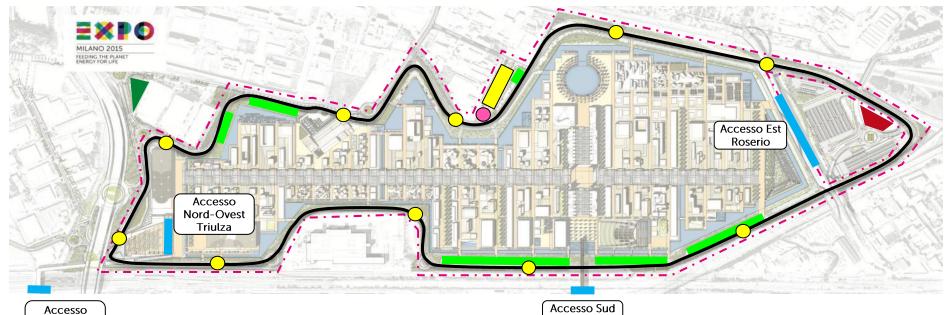












Sud-Ovest Fiorenza

Merlata









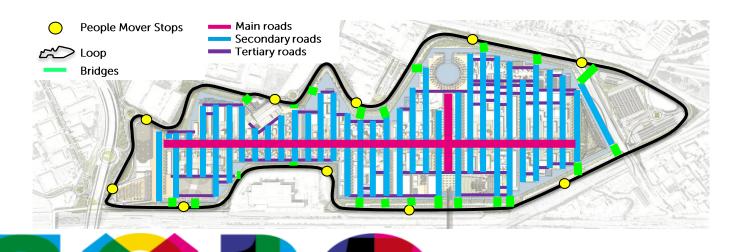
DECUMANO and CARDO: Widht 35 m



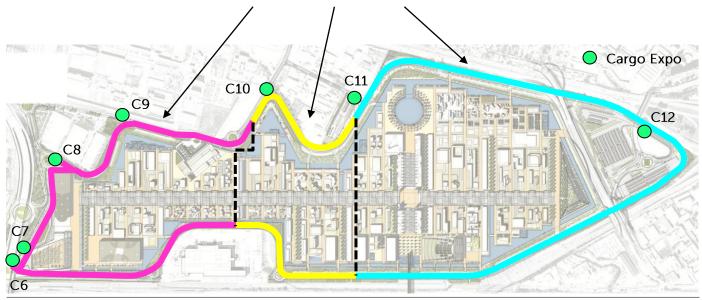
STRADE: Width between 3,3 e 4,7 m

VIALI: Width 7,5 m





The Site is divided into 3 colored areas: MAGENTA, YELLOW and CYAN



Loop spee limit

Internal speed limit



Max height

Max width



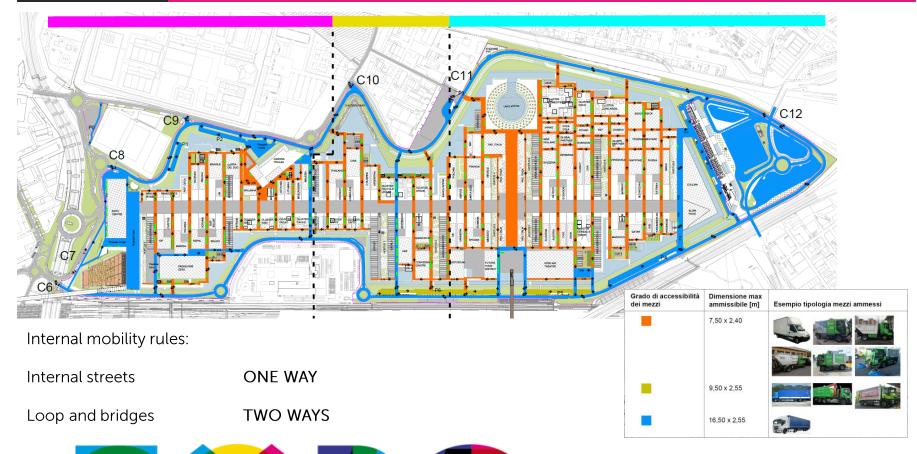


VEICOLI A PASSO D'UOMO









SERVICES INTO THE SITE

PEOPLE MOVER



- People mover service along the loop perimetral road
- 10 bus stops
- Operating from 09.00 to 24.00
- Free service

DELEGATION'S SHUTTLE



- In site shuttle service with driver
- Reseved for delegations
- Service available upon reservation
- Up to 23 seats for each vehicle, 6 vehicles available
- Operating only during opening hours

COURTESY CAR



- Each Participant is eligible to have an electric golf car (maximum 4 seats). The golf car must be parked inside the Participants' lot.
- The circulation is allowed only during closing hours.





