Sustainable urban logistics

City of Paris
The City of Paris

A population of 2.2 million
105.4 km²
Small area surrounded by a circular motorway « the Périphérique »
20 arrondissements (boroughs)

A city with high population and business density
More than 20 000 residents per square kilometer
1.8 million jobs are located in Paris
Hub of the national transport network infrastructure with:

- Motorway network (regional and national)
- Railway network from 6 railway stations
- Waterway network with the Seine river and its tributaries

The city’s logistics are based mainly on road transport and concentration points located outside of Paris.
Urban logistics in Paris

Transportation of freight
• 90% uses road as transport mode
• 20% of vehicles on the roads of Paris
• 100,000 vehicles per day

Deliveries
• 300,000 pickups and deliveries per day
• 1/3 of the movements in the Region « Ile de France »
• 60% in light freight vehicles

In few words
• 61,000 shops and 13,000 bars, hotels, restaurants
• Evolution of food distribution (+70% of mini-markets in 10 years and 267 supermarkets)
• Non-alimentary retail trade on distribution network
• E-commerce represents 7% of global retail trade and 80% of parcels
• Decreasing stocks
• Land cost
Harmful impacts

• Transport is responsible for:
  • 25% of Paris Greenhouse gas emissions
  • 50% of Paris local pollution emissions

• Congestion

• Noise emissions

• Accidents

• Non-integrated logistics activities within the city
### A large numbers of players

- State
- Région
- Country Council
- Chamber of Commerce, Guild Chamber

- Economic dynamism and important sector for jobs
- Region-wide approach
- Environmentally friendly logistics
- Urban planning
- Transport and deliveries
- Home deliveries / Persons of reduced mobility
- City hall logistics (roadworks and building sites, waste)

| Transport Undertakings
| Logisticians
| Shippers
| Firms
| Urban planners and promoters
| Infrastructure managers and Railway and Waterway Managers |
Charter 2006

Consultation initiated in 2002 and signature in June 2006 by 47 partners
A new regulation affecting traffic and deliveries

Rappel du Règlement Marchandises Applicable à Paris
Sous réserve de la réglementation locale

Horaires de livraison autorisés par type de véhicule

17h00
22h00
7h00
12h00

Je peux livrer 24 heures sur 24, si mon véhicule a une surface inférieure à 29 m² et est propulsé par un moteur :
- électrique, gaz ou hybride
- au gazole qui réunit le norme EURO 3 (jusqu’au 31/12/06) ou EURO 4 (à partir du 1/1/09) ou EURO 5 (à partir du 1/1/10)

Je livre exclusivement de 22 heures à 7 heures si mon véhicule a une surface inférieure à 29 m²

Dérogation permanente pour les véhicules destinés aux fonctions suivantes : transports de fonds, approvisionnement de marchés, livraison de farine, cantine-citerne, porte-voitures, transport de matériaux de chantiers, entretien de la voirie, collecte et transports de déchets, déménagement.

Informations complémentaires

ARRÊT SUR AIRES DE LIVRAISON LIMITÉ À 30 MINUTES
Ce disque est obligatoire pour vos arrêts livraisons/envoiements. Vous devez rester à proximité de votre véhicule pendant vos opérations de chargement et déchargement, et libérer l’emplacement une fois votre livraison terminée. D’autres peuvent en avoir besoin.

Livraison
Le jour entre 7h et 20h

Stationnement
La nuit entre 20h et 7h
les dimanches et les jours fériés
*autres dispositions limites

Espace réservé 7j/7 et 24h/24 aux livraisons

MAIRIE DE PARIS
Urban distribution UCC of Concorde - Chronopost
From a commitment Charter to an operationnal Charter

- More concrete and operational

- Based on project Sheets

- Relying on greater involvement on the part of the signatories

- An operational monitoring committee for the charter projects that will bring together all partners, once a year
**PROJECT 1**

**Outline policy for urban logistics in Paris**

**Area:** LOGISTICS FACILITIES

**Strategic goal:** To respond to the need for logistics zones and changes in flows in the next 10-15 years

**Project leader:** City of Paris (DUD)

**Partners (Sept 2013):** City (DUD, DVD), APUR, IDEF, DRIF, IAU, Conseils généraux, GATM, CERIET, SOGARIS, SNCF, IIIF, Ports de Paris, VNF, CCIP, CMAP, ADME, La Poste, Chronopost, CTIE, SNL, AFTR, CGI, Delamarchy, Martin Brower, Carrefour, Géodis, Cret-Log, IFSTTAR, LEF, CERTU, Afilog, RATP, The Green Link, Francprix, TLF, Point P, Cluster LUD CCI 92, STEF

**Completion:** 2014

### Project monitoring

<table>
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<th>Project parameters</th>
<th>Project monitoring</th>
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<td>Result: Identification and meeting the need for logistics zones in Paris based on freight flows 10-15 years from now</td>
<td>Monitoring indicator: Project progress</td>
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### Project description

- To mobilise all stakeholders and available knowledge to analyze how freight transport in dense areas is currently organised. The aim is to work with professionals, academics, and researchers to identify the principal trends that may affect urban deliveries in the next 10 to 15 years.
- Referring to this detailed information, to propose a metropolitan logistical architecture and an outline policy for logistics in the Paris area based on:
  - A dense network of logistics sites, ranging from large centres to small facilities permitting the development of local logistics services,
  - Transport systems: road vehicles, trains, boats, swap bodies, and maximizing the use of carbon-free vehicles,
  - Demand-responsive organisation: the issue of governance, systems that encourage pooling, the use of digital transport technology, and local services (as proposed by ALUD).

### Schedule

1. 2013: data collection and general framework policy for logistics
2. 2014: further study, in particular involving sector-based analysis
16 project sheets

- Outline policy for urban logistics in Paris
- Work on Chapelle International Logistical Hotel
- Developing Canal transport on Canal Saint-Denis

Hier, tout un secteur d’emprises logistiques

Demain, l’hôtel logistique compact laisse de l’espace à d’autres programmes
16 project sheets

• Trialling of Tramfret with an operator
• Program to develop logistics zones in leased car parks on land owned by social landlords
• Modernization of delivery zones. Inventing and trialling an information service dealing with the availability and reservation of delivery zones
• Deploying a network of recharging terminals for electric vehicles in Paris
  • 5th terminal of the network of Autolib public terminals
  • Public recharging network based on deliveries zones without protected status (180)
  • Fast recharging terminals on the service stations on land owned by the city
16 project sheets

• Developing fleets of electric vehicles (own account or subcontracted)
• Agreement between the City of Paris and car transport firms about car carrier trailer traffic. Implementing the principles of the charter: consultation, environment, urbain integration, economic dynamism. Signature of the agreement before the end of 2013
• Certification for low-noise night deliveries with Certibruit: certification of entire transport chain - vehicles, sites, staff training + creation of a tool-free number
• Introduction of a system of parking space reservation for removals
• ALUD: Trialling of a local pedestrian delivery service
• Encouraging good practices for deliveries to small shopkeepers and own-account transport
• Developing water-based urbain logistics with a self unloading boat
16 project sheets

• E-commerce and home deliveries
• 50% of last mile deliveries performed by non-diesel vehicles by 2017 and 100% by 2020
  • Alternative energy supply with electric vehicles and gas vehicle
Urban logistics in the local master plan
Urban logistics in the local master plan
An innovative logistics

In 2015, the City of Paris and Paris&Co appeal for innovative logistics projects
- 22 candidates selected

Goals are:
- To support the 22 companies selected for an experimental test in real conditions over a period of one year maximum
- To bring out, through a partnership approach, reproducible process or project involved in improving the logistics of the last km and reduce its negative impacts
Innovative projects

Pooling flows
- FM Logistics
- Instafret
- Parismart by Urbismart
- Shopping Center by Coursier.fr
- Step Vert Paris by Step Phoenix

Storage and package setpoint
- Abricoli by Inpost France / Colis Privé
- Pickup station by Pickup Services (LaPoste)
- Persocode®FacilityAcess® by Spartime
- City-Locker
- UPS
Innovative projects

Delivery
- Biocycle et Au Pas de Courses
- Voisins Relais
- Coursierprivé.com by MPW Transports

Streaming tours
- Citodi
- TourSolver Cloud by GEOCONCEPT
- Shippeo

Parking and area of delivery
- DPL by Park 24 with Egis
Innovative projects

Transport solutions

- Blue Line Logistics
- Cluster Logistique Urbaine
- Libner and the smart logistics base
- Jump’’ Log by Green Logistic
- Matin Brower
Fight plan against air pollution

http://www.paris.fr/actualites/lutte-contre-la-pollution-de-l-air-les-mesures-d-accompagnement-sont-lancees-2601
Fight plan against air pollution

An implementation in several steps:

- 2015: prohibition each day from 8 am to 8 pm in Paris (downtown), heavy goods vehicle and bus, over 3,5 tonnes, gasoline or diesel with a commissioning before 2001
- 2016: prohibition during the week and in Paris (downtown) light vehicles, under 3,5 tonnes, gasoline or diesel, with a commissioning before 2001

Supports for professionals:

- From 3 000 to 9 000 euros to help to buy an electric vehicle or gas vehicle - 15% of the price
- Free parking for electric gas vehicles
- Charging stations network
- Implementation of new compressor stations...
New service for professionals

Shared electric commercial vehicles : « car-sharing »
Streets share

LA RUE EN PARTAGE

Voies et quartiers en zone de rencontre (20 km/h)

1. Rue André Brezhet (17)
2. Rue Emile Duployé (18)
3. Marché de l'Olive (18)
4. Abbesses (18)
5. Rue Joubert et Victoire (19)
6. Rue Ambroise Thomas (19)
7. Rue des Fos St-Denis (19)
8. Rue Lune (2)
9. Rue Chabanais (2)
10. Rue Jean-Jacques Rousseau (11)
11. Rue Gambin (9)
12. Rue des Fos du Temple (10) (11)
13. Carreau du Temple (2)
14. Rues Temple et Vieille du Temple (2)
15. Rue Coutures St-Gervais (2)
16. Rue des Rosiers (4)
17. Rue Joly (4)
18. Rue Popincourt (11)
19. Rue de Lappe (11)
20. Rue Bonne Graine (11)
21. Marché d'Aligre (11)
22. Rue Robert Houdin (11)
23. Passages des Tourelles et Gambetta (20)
24. Rue Florian (20)
25. Montgallet (20)
26. Bureaux aux Cailloux (13)
27. Rue du Pot de fer (9)
28. Saint-André des Arts et Bud (6)
29. Rue de l'Ecole de Medicine (6)
30. Odéon (6)
31. Rue du Dragon (6)
32. Galette (14)
33. Place Adolphe Chérioux (15)
34. Place Commerce (15)
35. Rue des Buix et Déchaugiers (16)
Thank you for your attention