

Sustainable and efficient fleet management at City of Ghent

Presentation Polis conference Brussels

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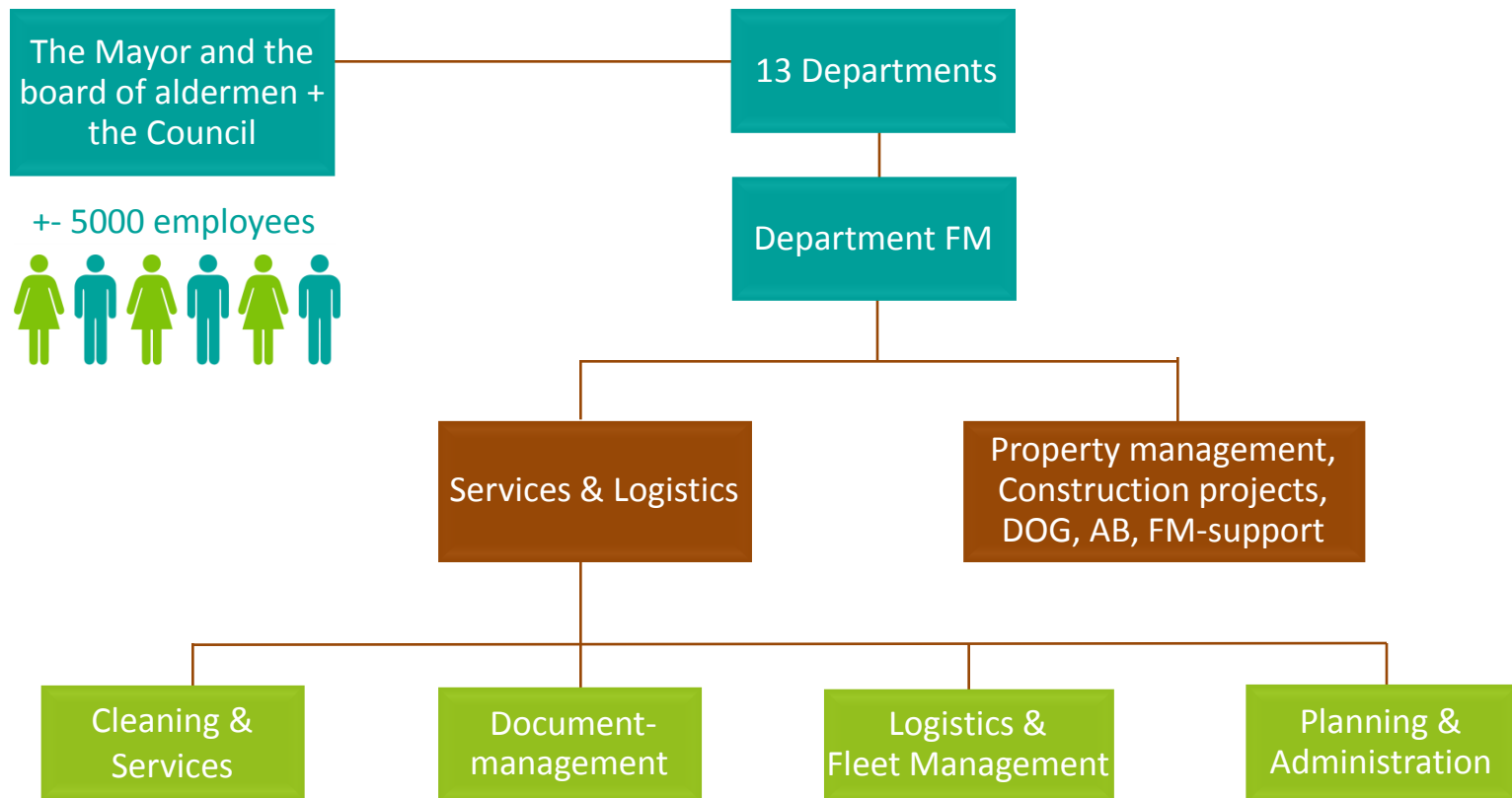


Content of presentation

A presentation of
the division
Services & Logistics
of **City of Ghent**

City of Ghent
its expertise
**sustainable
fleet
management**

Organization chart



Multiple subdivisions

Division Services & Logistics

Cleaning & Services



Printing Office



Logistics & Fleet Management



Planning & administration



Strategic goals (2020)



Fleet Management

Past



Today



Fleet Management Activities

PURCHASING - & COMMAND CENTER



OWN AUTOMOBILE REPAIR SHOP



ADVICE & PURCHASE PRIORITY VEHICLES



R&D AND EXPERTISE CENTRE



City fleet Ghent

+900 vehicles and machines

+600

Passenger vehicles, vans
and trailers <3,5 t



+50

Trucks



+200

Tools: machinery, tractors,
salt spreaders



+50

Scooters, (electric) bicycles, carrier cycles



+50

SUSTAINABLE VEHICLES:

>30 Electric vehicles

6 Hybrid vehicles

11 CNG vehicles

Sustainable & efficient fleet management?

INTERNAL MOBILITY

SECURITY

COST OPTIMIZATION

INNOVATION

ECOLOGICAL FLEET MANAGEMENT

**OBJECTIVE =
SYNERGY BETWEEN
ALL 5**

1

Cost optimization



- cost management: TCO and “make or buy”
- managing fuel costs
- mobility (identifying the impact of mobility choices)
- input multiannual planning
- monitoring maintenance contracts

2

Ecological fleet management

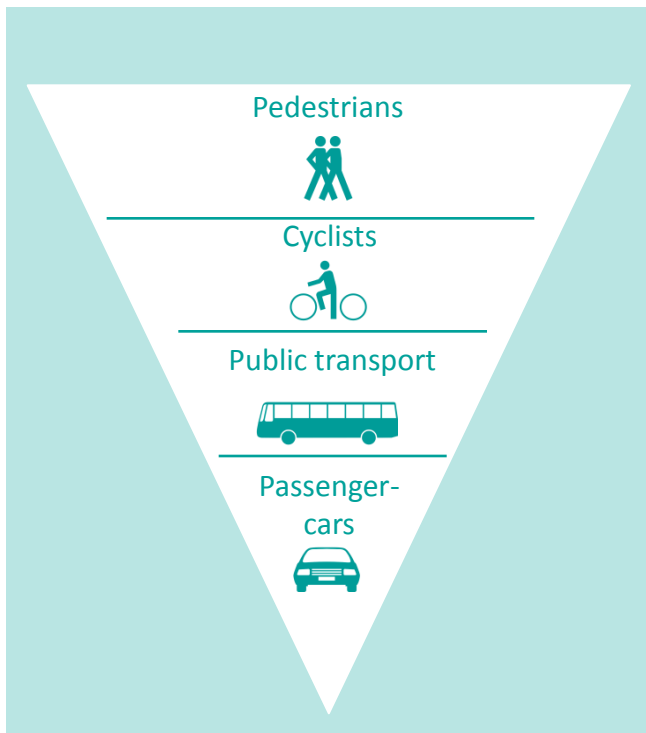


CITY OF GHENT 2050: climate neutral city independent of fossil fuels



- ecodriving
- tire pressure
- ongoing environmental-analysis
- a link with MTV application VITO
- EU Clean Vehicle Portal
- purchasing policy
- market research
- implementation of ITS principles as a tool for environmental assessment





- needs assessment = go!
- dare to think about mobility
- reservation tool: car sharing system for own fleet
- Cambio: car sharing system
- STOP-principle
- ITS for intelligent logistic and transport.



- competence building, including:
 - security load per unit
 - optimization of driving style linked to followed courses
 - Periodic training of drivers
- member of Road Safety, a EUROCITIES working group



- electric vehicles
- CNG- vehicles, slow fill station
- hybrid truck
- ongoing research on identifying innovation potential
 - feasibility study B30
 - participation in EU-project Fired-uP
 - integration of ITS
 - Smart Public Procurement (SPP)

Tools?

Integrated software application

Browser tabs: <http://vlootbeheer.gent.be/ultimo.aspx#dataentry/oper>, Nieuws - SAP NetWeaver Portal, Objecten hoofdscherm: NIS...

Menu: [Menu](#) [Systeem](#) [Help](#)

Welkom, Helsloot Liesbeth [Afmelden](#)

MIJN ULTIMO

Objecten hoofdscherm

Actief

Invoer | Selectie lijst | Filter

VOERTUIG

Kenteken: 1ERO742 | NISSAN Leaf | Dienst FM-Ondersteuning

1e inschr.: 04-03-2013 | 000000 | Aard: Personenwagen | Adm CP: Rodts Karen

Schraping: | Categorie (DIV): Vtg.meerd.doeleinden (AF) - 10 jaar | Tech CP: |

LEEFTIJD: 0 jaar en 2 maand | **Contractsoort**: Onderhoud Herstellingen Pech | **ECO-SCORE**: 0 | **TANKCODE**: | **METERSTAND**: 0

Algemeen | Extra Info | Documentatie | Wijzigings historiek | Opties | Kenmerken | Afbeeldingen | Verzekeringen | Tankbeurten | Materiaal verbruik | Gebreken | Jobs | Schades | Perio

ALGEMENE GEGEVENS

Merk: NISSAN | Type: LEAF | Uitvoering: | Fabrikant: | Leverancier: 6173 | Nissan Belux | Bouwjaar: 2013 | Brandstof: | Elektriciteit: | Secundaire brandstof: | Kleur: Wit | Transmissie: Automatisch | Combinatie: | Onderdeel van: |

CARMAN HISTORIEK (ZICHTBAAR TOT 31/12/2012)

Dienst: | Techn CP: |

INFO

Vervangt: | Vervangen door: | Te vervangen in: 2023 | Begroting: |

VOLGEND ONDERHOUD EN KEURING

PO model: | Datum: | Keuring: |

DIENTINFO

Vestiging: Stad Gent | GENT | Dienst: FMONDER | Dienst FM-Ondersteuning | Diensthoofd: Declercq Evellen | Kostenplaats: 3469400 | COM - ONSTERSTEUNING | Standplaats: 00000083 | Gent, Sint-Salvatorstraat 16

AFBEELDING

Wijzig afbeelding

Buttons: Invoeren meterstand, Printen stamkaart, Overzicht, Uit dienst

REMARKS OF THE JURY

For only the second time a government institution has won this price. The jury especially remarked the **customer-focused approach**, the **streamlining of the maintenance process** and the **innovative** nature of some projects. City of Ghent is taking up a pioneering role in the development of a **sustainable mobility policy**. And with the introduction of a series of CNG vehicles this role will be even more visible.

STRENGTHS

- Centralization of purchase and maintenance
- TCO approach (Total Cost of Ownership)
- Driver education and training
- Hybrid and CNG vehicles

Choice of transport mode

The right vehicle for every task !



Driving electric



- **Involving** users
- Fast charging vs. slow charging?
- Provide **infrastructure**
- 1 **public** at Cambio
- First **experiences**:
 - User predominantly positive
 - Actual radius of action

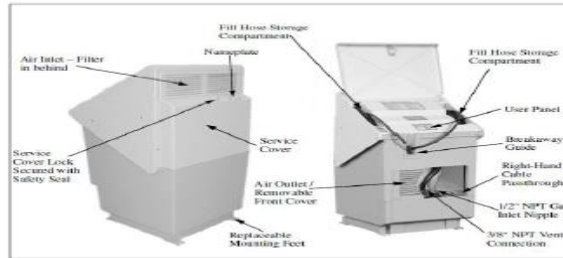
WHEN ?

- city traffic
- start-stop traffic
- < 120km
- limited cargo

TYPES

- Volvo C30
- Nissan Leaf
- Peugeot Ion
- Alké
- Mega
- Peugeot Partner
- Renault Kangoo ZE
- Gator John Deere

CNG: Compressed Natural Gas



- **Filling infrastructure?**
 - Own slow-fill CNG station
 - DATS Melle
- **Bi-fuel**
- **No conversion**
- **Cheaper**
- **Safer with respect to LPG**
- **Environmental benefits:**
 - PM, NOx: almost nothing
 - CO2: significantly reduced
 - Biogas...?

WHEN?

- Light cargo and/or long distances
- Not for heavy goods
- not (yet) PTO
- As charging point CNG

TYPES

- Fiat Ducato
- VW Caddy

Hybrid vehicle



- **Mature** technology
- **Opportunities** plug-in
- Further efforts to deploy for **transport goods?**

WHEN?

- Passenger and cargo transport

TYPES

- VOLVO FE hybrid 300: truck
- Toyota Prius
- Peugeot 3008
- Honda Civic

Standard vehicle:



- Diesel vs. gasoline
- PTO
- Highest level of:
 - Ecoscore
 - Euro norm

WHEN ?

- Where sustainable techniques are not (yet) deployed
 - Budgetary constraints
-

Future opportunities

- **Challenge: Integral sustainable supply chain:**
 - **integration** electric pick-up, hybrid and other transportation modes for city deliveries
 - **centralization** of warehouses
 - **mobile** shop
- **Results Fired-uP: Fire Services develop Innovative Procurement**
 - **3-year** project in collaboration with the London Fire Brigade targeting innovative and Smart Public Procurement
 - Approximately **€ 850,000** grant
 - Sustainability **opportunities** in the segment of priority vehicles

Thanks for your interest!



City of Ghent

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