

# ULB a Climate Action plan ?

A strategic and operationnal point of view

Alexandra Demoustiez-

*Director of Sustainable Departement ULB*

*6th UNICA GREEN WORKSHOP- ROMA - 2016*

# Plan

---

- I. Facts & Figures
- II. Sustainable Commitment
- III. Assessment after 10 years
- IV. Why a Carbon footprint strategy
- V. How to implement



# I. ULB Facts & Figures

---

Founded in 1834  
13 faculties  
4 main campus (103.000  
m<sup>2</sup>- built area)  
1 hospital

25,154  
STUDENTS

32 %  
INTERNATIONAL  
STUDENTS  
FROM 130 COUNTRIES

247  
MASTER'S  
PROGRAMMES

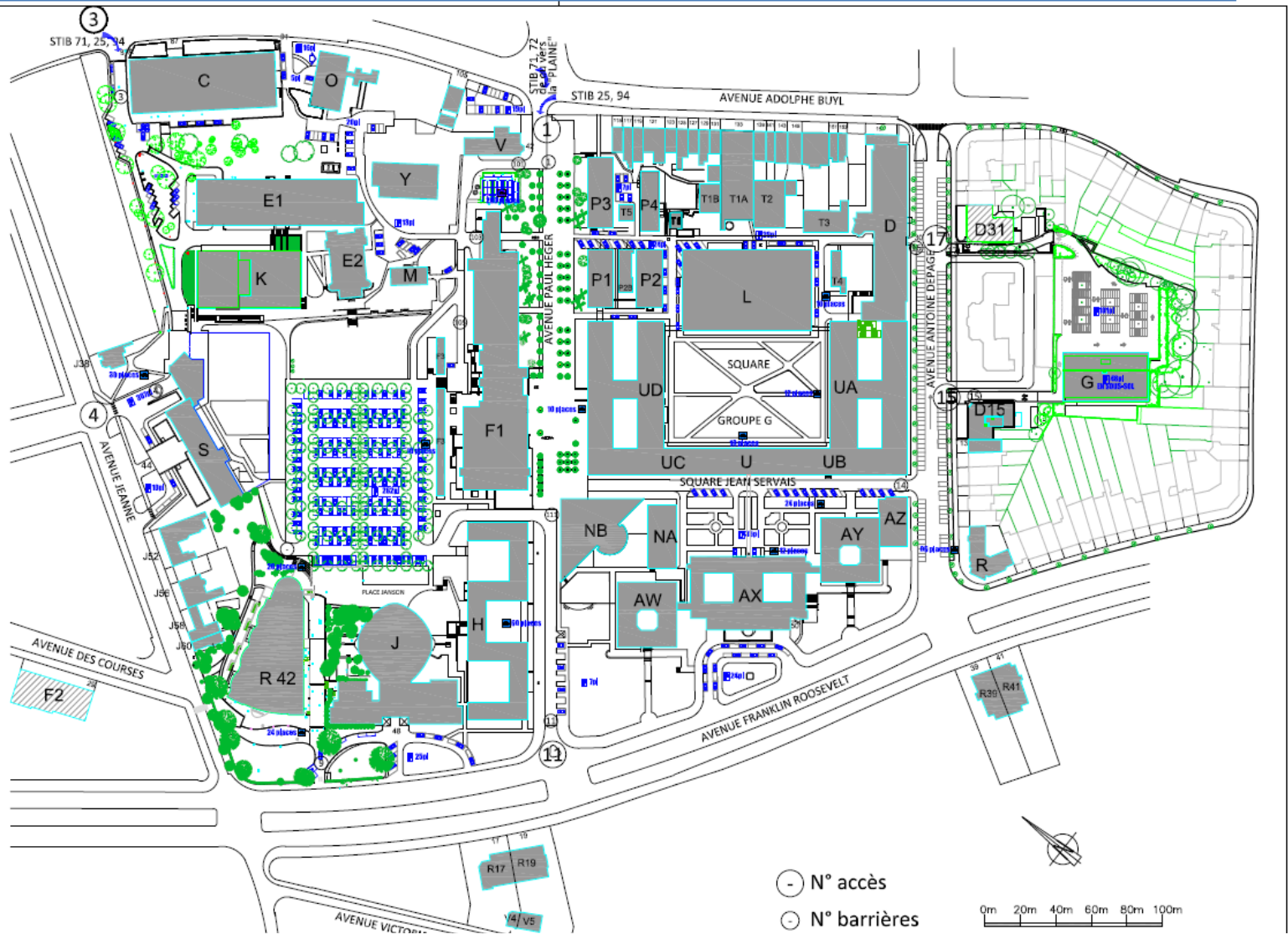
8,221

ULB AND  
ERASME HOSPITAL  
STAFF MEMBERS

344  
PARTNERS  
WORLDWIDE



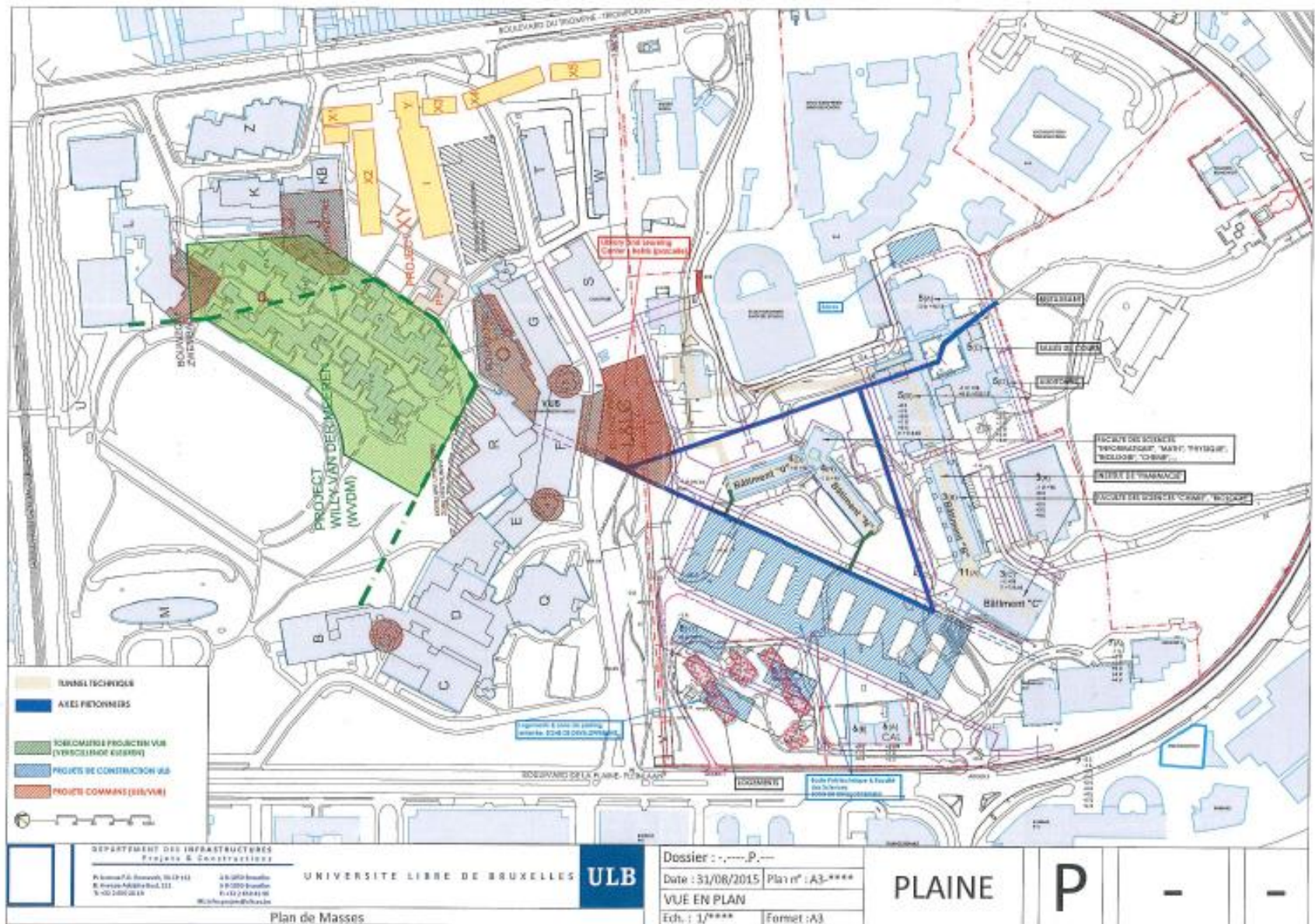
# I. ULB en chiffres: Solbosch







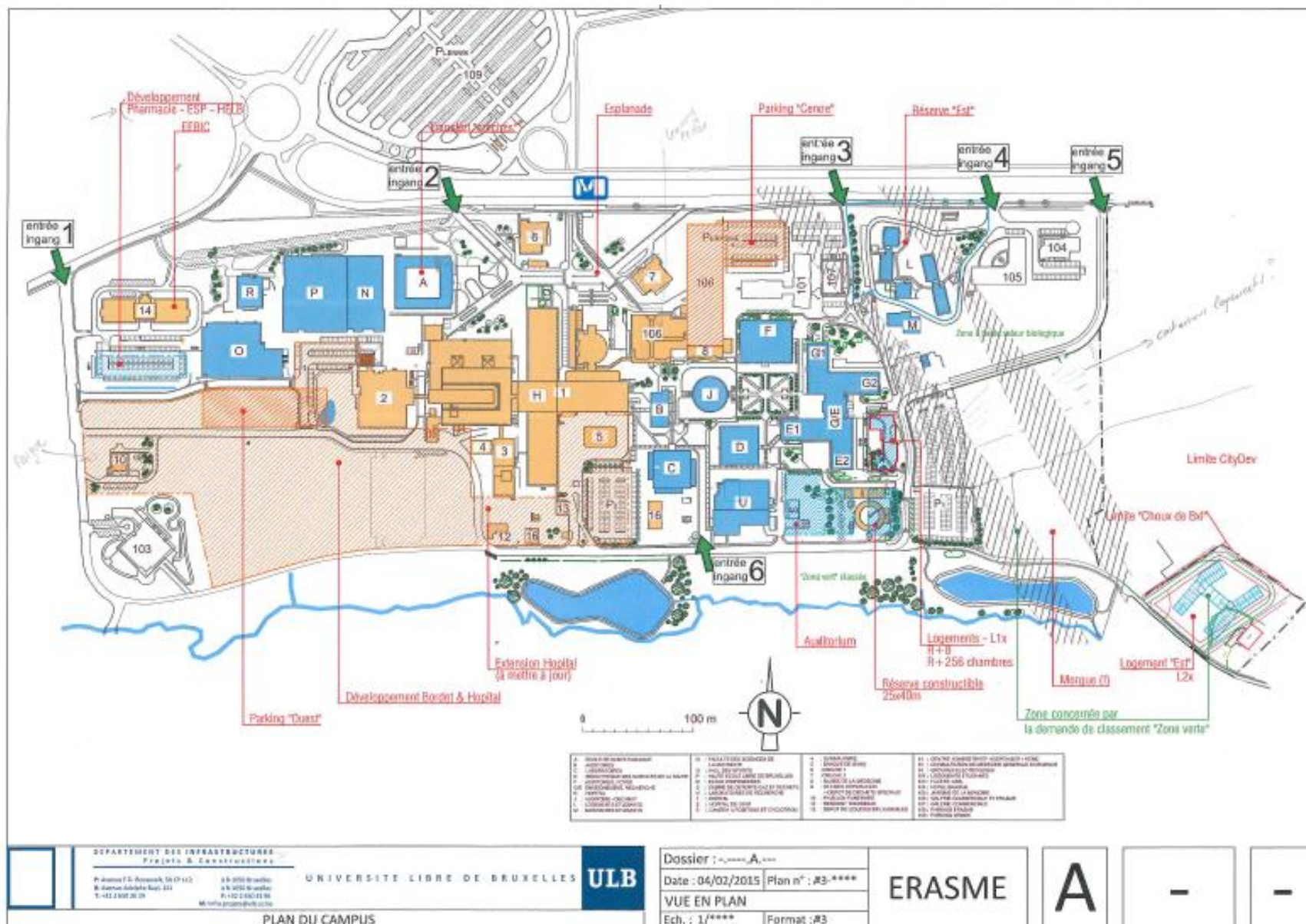
# I. ULB en chiffres: Plaine





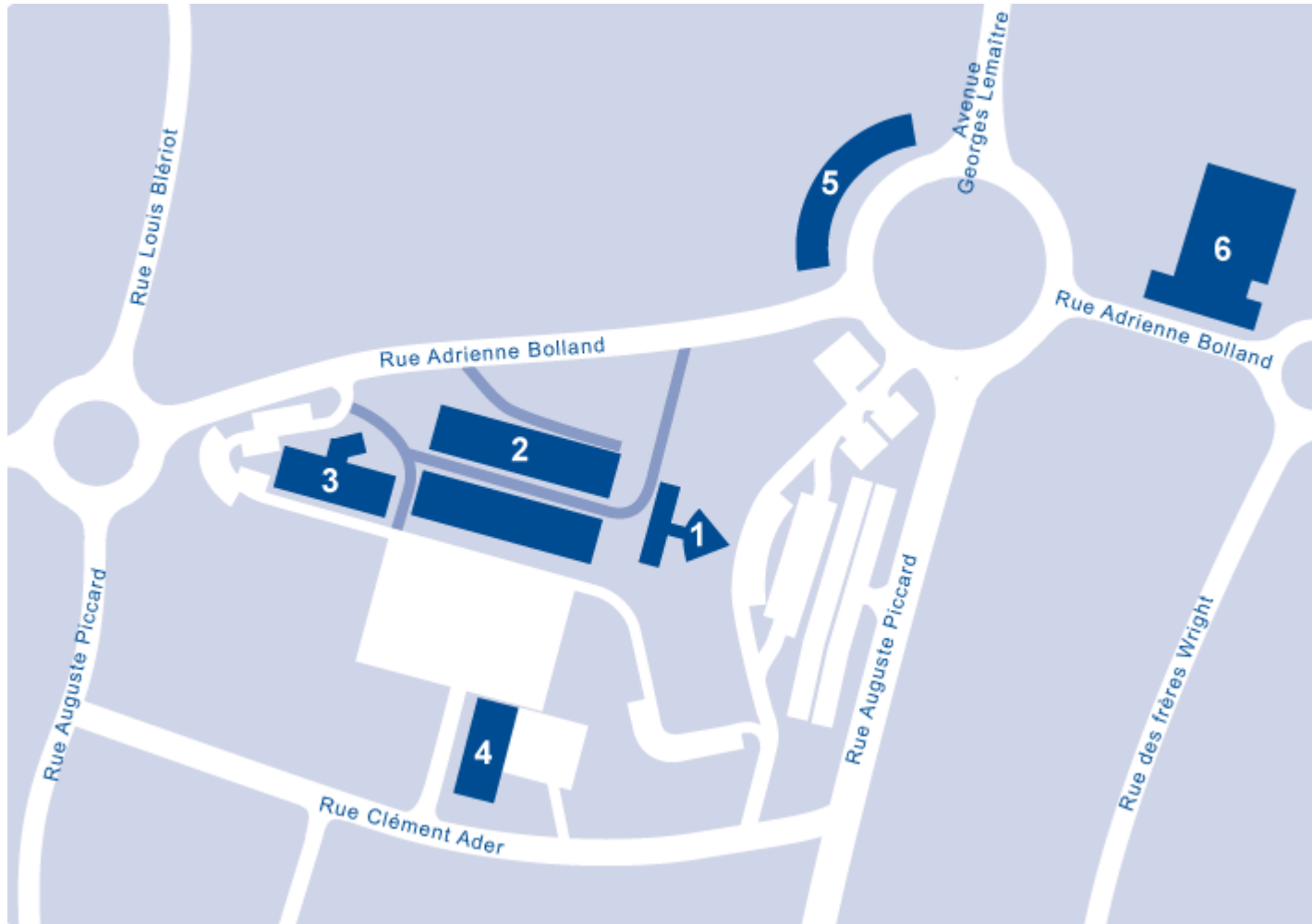


# I. ULB en chiffres: Erasme





# I. ULB en chiffres: Charleroi







# I. ULB Sustainable Commitment

---

2003: Sustainable unit created

2006: Environmental policy approved by the board

2009: Environmental management system (EMS)-> external certification

2012: Rio+20 declaration approved -> 2 new objectives highlighted at the agenda: education/research

the Unit becomes a department

2014: First External certification – 2 stars (\*\*) for 1 campus

2015: Sustainable Transport Policy approved by the board

2016: 2<sup>nd</sup> external certification- 2 stars (\*\*) for 2 more campuses

# Strategic Plan 2015-2020



**O1 : Green their campuses by: i) reducing the environmental footprint; ii) adopting sustainable procurement practices; iii) providing sustainable mobility options for students and faculty; iv) adopting effective programmes for waste minimization, recycling and reuse, and v) encouraging more sustainable lifestyles.**



**O2 : Teach sustainable development concepts, ensuring that they form a part of the core curriculum across all disciplines**



**O3 : Encourage research on sustainable development issues, to improve scientific understanding through exchanges of scientific and technological knowledge. -**



**O4: Support sustainability efforts in the communities; share practices ; lobby**

# 10 years committment

---

## SCOPE 1 & 2 EMISSIONS:

### ① Energy:

- ✓ Centralized technical management
- ✓ Heating: Renovation, Energy Efficiency building program cogeneration, geothermic program, 9 green roofs
- ✓ Electricity: Relighting, purchasing renewable Energy...

- ✓ Sustainable building criteria for new building

### ② Company's vehicule fleet:

- ✓ Restricted & limited

- OPERATIONS :INDICATORS
- EDUCATION
- RESEARCH : LIVING LAB

TOP- DOWN approach

BOTTOM UP approach (Student collaboration- Student green office model)

## SCOPE 3 EMISSIONS:

### ① Waste :

- ✓ Reusable cups
- ✓ Strong commitment to waste reduction: 16 sorting behaviour
- ✓ Reduce program: Repair café / public fontains

### ② Water:

- ✓ Water conversation-water saving systems
- ✓ Water reuse- Rainwater reusing system
- ✓ public water fountains program

### ③ Transport:

- ✓ New car park policy
- ✓ STOP priority –
- ✓ Lower carbon commuting strategies (shared use of vehicule fleet; public transport access, bicycle active program)

### ④ Sustainable consumption

#### food:

- ✓ ULB local & organic market
- ✓ Fair-trade market
- ✓ “What do you eat at the kot?”
- ✓ Sustainable food criteria – Tender market

#### Paper

- ✓ Reduce emission from paper and printing

### 5 Green space

- ✓ No Pesticides
- ✓ No invasive plants or at least information on It
- ✓ Sustainable Management

# Why a Climate action Plan ?

---

Target: travel & transport + Energy Use

Example of Copenhagen University:



65% REDUCTION OF CO<sub>2</sub> emissions\* by 2020



50% reduction in ENERGY consumption\* by 2020



20% reduction in overall WASTE volume\* by 2020



30% reduction in WATER consumption\* by 2020



Campus as a LIVING LAB

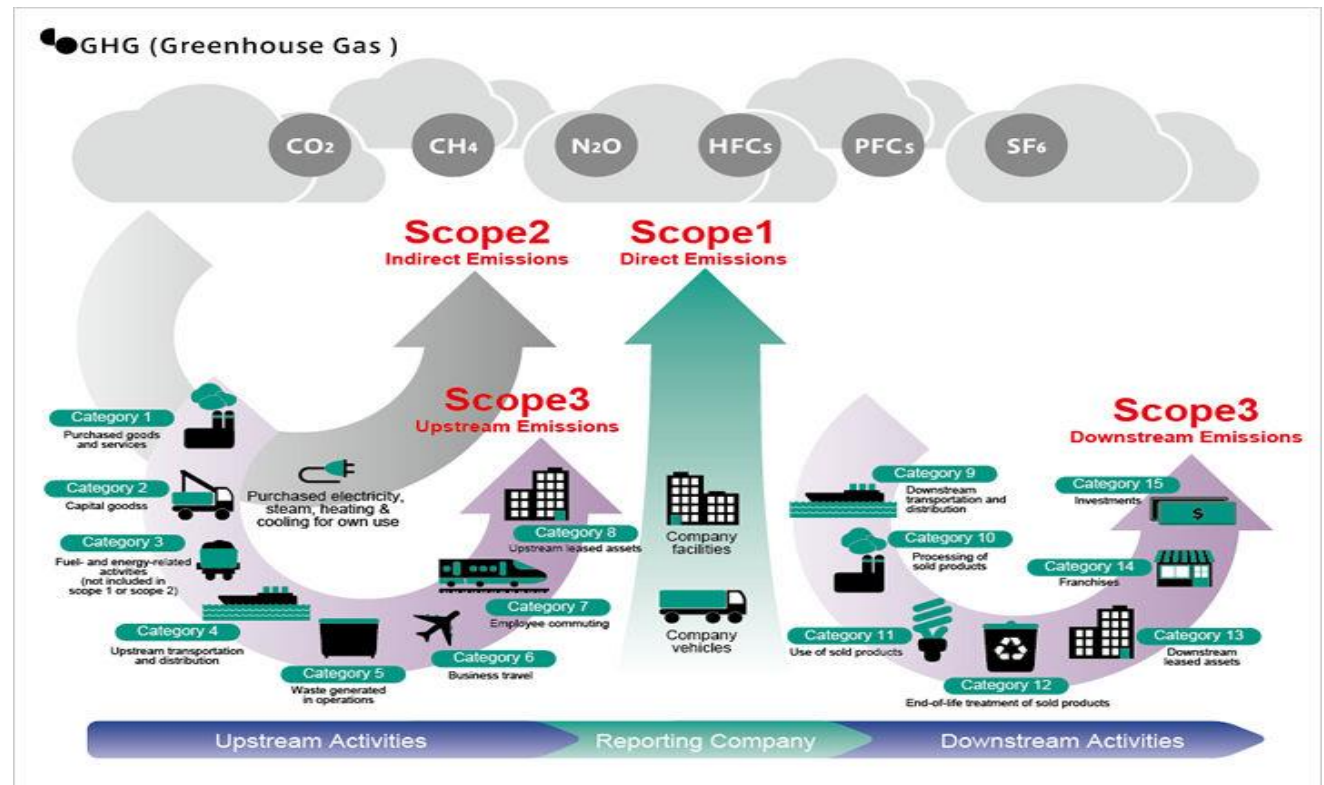


# How to start ?



## Accurate Carbon Footprint Assessment

- ✓ Student work <> Consultancy Office
- ✓ Scope 1, 2 and 3 – GHG Protocol



# ULB Scopes

---

## Scope 1 & 2

- Building Energy Consumption
- Fuel of vehicles fleet

## Scope 3

- Travel moving Students & staff
- Business travels (!)
- Waste
- Paper consumption
- Food purchase
- It purchase – Events organization (!)



# ULB First Results

	Total	Staff	Students
Transportation by road	3.457	1.176	2.281
Energy	15.579	15.579	-
IT hardware	-	-	-
Fixed assets infrastructure	2.025	2.025	-
Green electricity (pro memo)	-	-	-
Transportation by air	-	-	-
Visitors' travels	318	318	-
Food, beverages and cup	147	147	-
Transportation by rail	1.043	202	841
Waste	276	276	-
Paper and ink	114	114	-
Airco	-	-	-
<b>Total (without upstream emissions)</b>	<b>22.959</b>	<b>19.837</b>	<b>3.122</b>
<b>Upstream</b>	<b>1.862</b>	<b>1.862</b>	<b>-</b>
<b>Total (with upstream emissions)</b>	<b>24.821</b>	<b>21.699</b>	<b>3.122</b>