

## This is who we are... <br> $C E 4 \angle 1 / 5\rangle$



## This is where we work...




## New York 2008

## www.nyc.gov/dot search for "world class streets"



## This is what we look at... the



## Place

## Protection

## Comfort

## Delight



## London 2004

GEHL ARCHITECTS Urban Quality Consultants


Indicators:

Accidents - Data
2User satisfaction - Questionnaire

## The english countrytown 1900



## The english countrytown 1950-

## 2000

Credit: 8 , Han intis





## Pedestrian Injuries and accidents on Broadway 1998-2007



Credit: DOT NYC

## Indicators:

Mix-use: Number of households, places for higher education, shops - Data Activities open at night - Observations
Ground floor shop facades with light / closed shutters - Observations User satisfaltion - Questionna|e \#


717


## Evening activities

The City by night
Evening activities

The number of evening activities and their location are important factors for the vitality of the city and the perception of safery. If there are few activities, or if the evening activities are very concentrated in a few areas, the visitor gets the impression of a deserted city and avoids going there in the evening.

To the right is illustrated the number and character of evening activities in the study area. It is quite evident that Regent Street is a deserted area at night, where only few people look at window displays. Only a few cafes or kiosks are open at night, while more activity generally takes place in the side streets.
Charing Cross Road is part of London's Theatre District and located in an area with many bars, cafes and restaurants. As such, Charing Cross Road is a busy street all day. Generally, the amount of activities is a positive supplement to the street environment. However, an overload of bars does not necessarly add to the general feelling of safety.

To achieve a more citywide location of evening activities and to improve the perception of safety, it is important to spread out night time activities to larger parts of the city centre and incorporate important city streets and squares.

Below: The main evening activity is restaurants and bars



Evening Activities
Recorded on a wint 9 pm -
pm - $11 \mathrm{pm}, 2003$

- Restaurants and bars
- Shops and kiosks
- Discos and Casinos

A HotelsHigh concentration of evening activitiesAreas of almost no evening activitics

Public Spaces - page 60

## Closed facades at night



Recentyears have seen an unfortunate increase in the closing. down of storefronts outside shopping hours. This tums the streets into dark, unattractive tunnels by night, and ruins any ideas of window-shopping and promenading in the evenings and on weekends. The city becomes dark, deserted and frightening. The shutters, are of course, part of an effort to avold break-ins. The Danish Criminal Board advises shopowners to avoid metal shutters because of their negative impact on the streets. Metal shutters tell passers-by that after closing time the city closes as well, and becomes an unsafe place to be in. It is important to note that a number of other safety measures are avallable, such as more open-lattice structures or armed glass, which preserve the transparency between street and shop.

Below: Chinatown - Shops are closed. People rush through.


Metal shutters in Oxford Street and Tottenham Court Road

During the day, Oxford Street is a lively place with lots of shops and pedestrians.
When the stores close, many facades are closed by metal shutters, making the street dull to be in and decreases the feeling of safety.


Above: Oxford Street: 94 metre metal shutters at night


Above: Tottenham Court Road: 118 metre metal shutters at night


Kalverstraat Amsterdam: Today, the city has removed most metal shutters from this street resulting in a quite different night scene where people pass by to window shop.


At Streget, Copenhagen, the majority of shopwindows are litatnight, having a positive effect on the level of pedestrian traffic and the level of crime.

Indicators:

Turbulence and unpleasant wind conditions - simple observations Noise levels +dB measurement Other types of unpleasant weather conditionc-depending on the situation

## Noise



Hearing and talking in the city

Noise and fumes are annoying factors in the street environment. Too much nolse creates an uneasyand stresstu environment where talking. Istening and social events become hard to perform. Dfferent noise levels give dfferent oppottunities for public life to evolve.
London has tremendous noise levels in most streets and squares where the pleasure of promenading, resting and engaging in conversations is deeply affected.
Oxford Street with its more than 70 dbA gives hardly any possibilities for engaging in conversation and even resting in this traffic environment appears to be less attractive. Approximately the same nolse levelis recorded in the other sludy streets. The major sinners which contribute to the noisy environment are the buses and lories, which cause a tremendous roar when hatting and accelerating.

$70.75 \mathrm{dbA}:$ impossible.

$60.65 \mathrm{dbA}:$
Peaceful environment.
Good possibilities fo communicaling with
others.
Photo: Victoria
Embankment Gardens


## Indicators - Walking along:

Room for walking - recordings of sidewalk width and actual walkable space -Observations
Obstacles for walking $=$ recording of objects on the sidewalk Observations
3. Unnecessary interruptions of the sidewalk - recording -
(Accessibility/Comfort) Observations
Access to places and buildings - (Accessibility) Observations
Good quality pavement (Accessibility/Comfort) Observations
Facade quality - recording of facades (A-F) Observations
Directhess of route - observations

## Actual street wi



Paden sydlige kant af Torvet găr fodgangere slaiom mellem skilte og udstillings varet


P1 Mulergade er der ogsá mange shmenter igàmaden som kemper om plads of opmarksomhed, og gegadens reetle tredje er ogst her meget smal

## Congestion



The newspaper stands contribute to crowding by narrowing the walking space.

## Pedestrian Pattern - south/ east corner

Crowding points appear where the usable footway is narrowed substantially by commercial activities, stairs to the tube, goods from shops etc.


Recording:
$5.30 \mathrm{pm} \quad 9372$ pedestrians / hour 156 pedestrians /minute

Recommended pedestrian capacity:
13 person/minute/metre footway width

* 3.5 metre available footway width
= 46 pedestrians $/$ minute
Pedestrian traffic beyond comfortable capacity:
110 pedestrians $/$ minute $=\mathbf{2 3 9} \%$



## Functional walking - versus recreational walking



## Winter and summer pedestrian traffic

In London the differences between summer and winter pedestrian traffic are very low. Pedestrian traffic increases with a maximum of $15 \%$ (Oxford Street). This points to a city yet to be further developed for public life to evolve and include other activities than the most necessary.

In other cities larger differences are to be found. Copenhagen experience a $50 \%$ increase in pedestrian summer traffic compared to pedestrian wintertraffic. Part of the explanation to the Copenhagen increase is that more tourists come to Copenhagen during summer but a much more importan factor is the recreational dimension. Copenhagen has during the last 40 years developed a city with good and many quality spaces (total: 100.000 m 2 of pedestrianized areas in the city centre, an area of 1 kmz ). This has led to an increase in pedestrian traffic area of 1 kmz ). This has led to an increase pedestrian traffic during summer because people no more come exclusively to shop or work, but also come to enjoy the city, to meet friends and relatives, to sit at a square and sip a cappucino or to enjoy the city scene from a public ench. As such Copenhagen is a much more lively city been expanded to include more activities than the most necessary ones (as going to work, going to lunch, shopping etc.) because of improvements of public space.


## Walking across



Indicators - walking across:

Short waiting times at traffic lights - (Comfort)
Observations
Jaywalking - Observations
${ }_{2}$ Directness of routes in crosswalks - Obser̄vations
Clear and legible street design - Observations

## Walking time - waiting time



## Lack of pedestrian lights



Cambridge Circus
3 out of 4 crossings are without pedestrian signals. Recording:
An average weekday, 6 pm to 7 pm . Cars and pedestrians were recorded separately at each crossing during a 15 minute period.

2260 vehicles cross between 6 pm and 7 pm 7550 pedestrians cross between 6 pm and 7 pm ( 3.3 times as many pedestrians as vehicles).
$74 \%$ of all pedestrians cross without pedestrian signal
Cambridge Circus (CC) is regarded as one of the most dangerous intersections in central London. Each year many pedestrians are injured or killed at CC.
A major problem is the lack of pedestrian lights in three of the four crossings. Pedestrians in these crossings are not able to see whether traffic lights for vehicular traffic are red or green, but need to rely on their own feeling of when it is safe to cross. Crossings happen in platoons, which build up on either side until a certain number of people is reached and the platoons start moving.

Pedestrian crossings with and without Pedestrian SignalsPedestrian crossings with pedestrian signal Total 101 pedestrian crossings with signal

- Pedestrian cressings without pedestrian sigral Total 43 pedestrian crossings without signa


## 20 Euston Rd



## Jay walking and pedestrian tunnels

- 101 pedestrians (23 \%)

- 336 pedestrians (77 \%)



## Guard rails

Below: Guard railing coming round corners forces pedestrians to do detours, creates an abrupt walking rhythm and often cause crowding .


The spaces in the study area carry the following amounts of linear guard railing:

| Piccadilly Circus | 425 metres |
| :--- | :--- |
| Oxford Circus | 199 metres |
| St Giles Circus | 160 metres |

Regent Street
Tottenham Court Road
Charing Cross Road
New Oxford Street
Euston Road

The amounts of guard railing on the streets mentioned are averages of the amounts placed throughout the streets.

## Below:

Pedestrians often get trapped outside guard railings and are forced to climb the railing to reach the footway.


## Foot path interruptions

WALKING ALONG

A clear sign of low pedestrian priority are the many minor side streets and delivery lanes which are allowed to interrupt footways in all streets included in the survey. Instead of footways in all streets included in the survey. Instead of streets pedestrians are forced to walk up and down the kerb and look out for traffic while they cross the small lanes. This is the case even on major shopping streets like Regent Street. The car is given first priority and pedestrians need to yield at every minor crossing. All these interuptions of the walking rhythm constitute a constant irritation and an overall feeling that pedestrians are not really welcome and cared for.

An aimmust be to give pedestrians high priority in the streets. This can be achieved through a step by step improvement of footpaths and by closing many of the minor side streets for traffic. Taking fooways across these minor streets and deliverylanes is an overall goalto improve conditions offered for pedestrians and to enhance the qualizy of the walking emvironment

How it ought to be done
Invariouslocations in London good examples are found on how to continue the footway across side streets


Lower Marsh


## Illustration:

In the streets studied a total of 74 unnecessary internuptions of footways can be found. Each of these interruptions should be addressed of these interruptions should be addressed
and efforts be made to create continous and efforts.


74 unnecessary footway interruptions

- Unneces sary footway interruptions
- Footways taken across side streets


## One building - two solutions



Example A
A minor delivery lane cuts up the footway giving clear indication that the fow cars using this lane have higher priority than the 30.000 pedestrians walking along the western footway on Regent Street daily.

Example B
Pedestrian accessway to the pedestrianized Heddon Street


## Paving standards



## Maintenance issues



Picadilly Circus


Leicester Square

## Ground floor facade attractiveness




A - Attractive
Small units, many doors (15-20 units per 100 m )
Diversity of functions
No closed or passive units
Interesting relief in facades
Quality materials and refined details


B - Pleasant
Relatively small units ( $10-14$ units per 100 m )
Some diversity of functions
Only a few closed or passive units Some relief in the facades
Relatively good detailing

City Quality at Eye Level - The ground floor facade
The quality of the building frontages facing the footway is an extremely im portant factor for the quality of an urban area Good ground floor facades are rich in detail and exciting to walk by, interesting to lookat, to touch and to stand beside. Activities inside the buildings and those occurring on the street enrich each other. In the evening friendly light shines out through the windows of shops and other ground floor activities and contributes to both a feeling of security as well as genuine safety. Interesting ground floor facades also provide good reasons for walking around in the city in the evenings and on Sundays, engaging in the age old attractive pastime: window shopping. Blank walls, on the contrary, underline the futility of visiting the city outside working hours.


E-Unattractive Large units with few or no doors No vis ible variation of function Closed and passive facades Monotonous facades
No details, nothing interesting to look at


Typical London side street

- many smaller units, many experiences


Quality of Ground floor frontages
$\longrightarrow$ Category A


Calogory D
Category
$\square$ Concentration of poor ground floor frontages


Ground floor frontages in London are generally welcoming, transparent and the units reas onably sized, which contribute to a diverse and lively street environment. Retail streets like Regent Street, Oxford Street, Tottenham Court Road, Charing Cross Road are the most interesting streets where larger etail stores alternate with longer stretches of smaller units. Euston Road is more uninteresting with dull facades, no transparency and larger units. New Oxford Street is also dominated by larger units with few doors and functions no addressing the street.

On street tree planting:
Totten ham Court Rd \& Charing Cross Rd


Pubuc Spaces - page 49

Indicators - Sitting:

Sitting opportunities \& user patterns (Primary, secondary and café seating) Observations
Benches - Number of seats on benches-Observations
Benches -Index of use (\% empty seats) Observations
Evaluation of quality of benches - (Climate, View, Noise/pollution, Comfort and Placing)-Observations
Types of seating arrangements - (Talkscapes, tables etc.) Observations Café seating - Observations
Café seating -Index of use (\% empty seats) Observations

## 3 types of seating



## SITTING IN THE CITY

Seating is vital for a good city area. Without a sufficient number of seats the city becomes a transit zone where people move from one point to another, but where not much is going on in the public spaces.
Good, comfortable seating placed in the right locations provide visitors with a rest and an opportunity to stay longer in the city. As such the short and longer rests are vital in creating a more lively city. Economic benefitsare also related to the development of a good qualitycity where people enjoy staying and thus spend more
Below are illustrated three different seating options which the city has to offer.


## Secondary seating

Altemative opportunities for sitting such as stairs, ledges, niches, monuments, fountains or directly on the pavement. These secondary seating opportunities are mainly utilized in good weather and almost exclusively by young people who do not care too much about comfort.


Public seating
The seating that is provided in the city is an important facto for the amount of recreational activities that take place. Oldergenerations onlyenjoy sitting when comfortable bench seating is available and generally this age group awoid secondary seating.


Outdoor cafe seating
Recent years outdoor cafe culture has provided the European cities with a large number of extra seats where a meal or a drink in the outdoors can be combined with an interesting view of the life in the city.

## Secondary

A city without Seats - Secondary seating

London has a serious lack of public seats along all the most frequented routes forcing people who need a rest to eith er forget it orto seek some kind of second rate support.
This happens all over London where people sit, eat, tak and enjoy the city from various locations on steps, fountains, signs, recesses, guard railing, footways etc.

A high level of secondaryseating is a symptom of a benchless city - a city without seats.


Sitting at the edge of traffic can be done, but does certainly not provide a proper rest. Left: St. Giles Circus Below: Oxford Circus



With a lack of anything better people sit where they can find an edge, a corner or recess. Left: Euston Road Below: Regent Street



Many things can be done to keep people from resting - some more effective than others.
Left: Garden of Tate Modem
Below: Haymarket


Pubuc Spaces - page 41

## Public

Comfort and appeal of public seats
Sitting in the city


Criteriafor evaluation of the Bench Quality

| C | Climate | $1-5$ |
| :--- | :--- | :--- |
| V | View | $1-5$ |
| N | Noise/pollution | $1-5$ |
| CO | Comfort | $1-5$ |
| D | Placement | $1-5$ |



4 People resting at Leicester Square
Rating: $\mathrm{C}=5, \mathrm{~V}=5, \mathrm{~N}=5, \mathrm{CO}=4, \mathrm{D}=4$ Score: 23 - (highest quallity score)


O Benches at Tottenham Court Road
Rating: $\mathrm{C}=3, \mathrm{~V}=4, \mathrm{~N}=3, \mathrm{CO}=4, \mathrm{D}=4$

- Long benches frame Trafalgar Square Rating: $\mathrm{C}=4, \mathrm{~V}=5, \mathrm{~N}=3, \mathrm{CO}=2, \mathrm{D}=4$ Score: 18


$\square$ Round stone bench at British Library Rating: $\mathrm{C}=4, \mathrm{~V}=3, \mathrm{~N}=3, \mathrm{CD}=1, \mathrm{D}=5$
Score:16 Score: 16

* Camping equipment at Euston Square

Rating: $C=2, V=2, N=5, C O=2, D=3$
Score: 14


- New stone benches at St Martins Place Rating: $\mathrm{C}=3, \mathrm{~V}=3, \mathrm{~N}=2, \mathrm{CD}=1, \mathrm{D}=1$ Score: 10

事 Stone bench along Oxford Street
Rating: $\mathrm{C}=2, \mathrm{~V}=1, \mathrm{~N}=1, \mathrm{CO}=1, \mathrm{D}=2$ Rating: $\mathrm{C=2,V=1,N=1,CO=1}$,
Score: 7 -(lowest quality score)


The quality of benches is just as important as the number and location of seating. Studies show that the most used benches offer a combination of pleasant views, protected climate and good comfort.

A set of quality criteria has been developed to evaluate individual bench areas.
The benches evaluated here are selected because they represent different issues to be considered when planning public seating in the city.

St. Martins Place, Oxford Street \& British Library
A new bench type has been developed to meet requirements to discourage homeless people, skaters and graffiti - all big issues in a large city.
The result has been a new stone bench which offers so little

## Criteria for evaluation of the Bench Quality

C Climate 1-5

View
1-5
N Noise/pollution 1-5
CO Comfort 1-5
D
Placement
Scale:
$\qquad$ 12345 $\qquad$
Poor Good

## Commercial



Sitting in the city
Outdoor cafe seats

Outdoor serving has become a common part of the European streetscape. Even during colder periods of the year, many people like to use outdoor seating.
Sitting at a cafe provides an opportunity to relax, get ritreshments, enioy the sunshine, while being able to bot refreshments, enjoy the sunshine, while being able to both observe and be a part of the street's public life.
In spite of the popularity of outdoor cafe seating, it is important to note that cafe seats cannot replace public benches, since one has to pay to be able to enjoy the service.
However, outdoor service areas offer a great quality to the streetscape and have - in the case of London - a great potential to be further developed.

Outdoor cafes in London
In the research area there is a moderate number of outdoor serving areas, supplemented by the many smaller outdoor cafes in side streets.
To the right is illustrated the distribution and number of cafe seats in the studystreets and squares. The illustration shows a lack of outdoor cafes in Regent Street (southern part), Euston Road and Tottenham Court Road, while Leicester Square has a high concentration of outdoor serving areas.

A more even distribution ought to be obtained in order to secure more liveliness and diversity in some areas and lower the concentration in other areas. As such, Leicester Square and adjoining streets are dominated by bars and restaurants, deteriorating the general quality of the public realm. If a good thing is multiplied by 100 it is not necessarily many times better.


Publuc Spaces - page 52

Location of Outdoor Seats
Total 81 cafes
Total 1309 outdoor cafe seatsConcentration of outoor cafes

- 1.25 seats
- 26-50 seats
- 51-100 seats

4 cafes - Euston Road
42 cafe seats


## Putting the data to use: Kensington High Street



## Awards and accolades

Awarded 'UK Lighting Design Award 2002'
Awarded 'Best cycling facility 2002'
Praise from Lord Rogers, Chairman of the Government's Urban task force
Used as an example of good practice in the English Heritage booklet 'Changing London - an historic city for a modern world'

Short-listed for two awards in the London Transport Awards 2004

## Casualty review



## Brighton New Road, 2007




## Major achievements:

- $62 \%$ increase in pedestrian traffic
- $93 \%$ reduction in motorised traffic
- $600 \%$ more staying activity
- $22 \%$ increase in cycling activity


There's much more to walking then walkihg?


