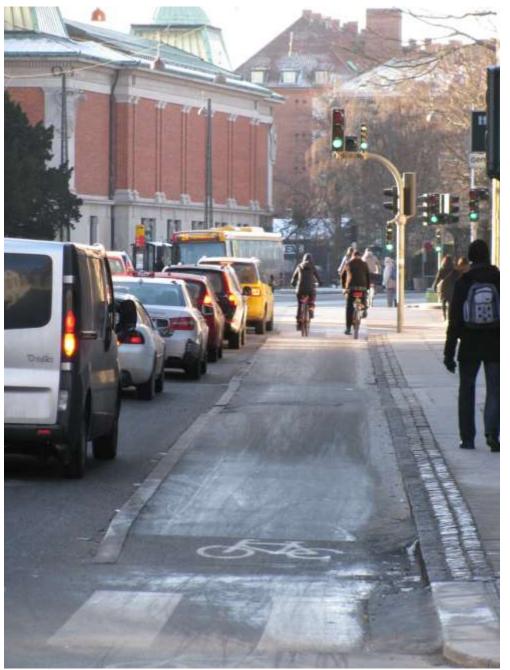
### Cycling in Copenhagen

John L Bowman 2013

### Cycle Track separated by curb from motor traffic and sidewalk. Distinct surface material.



Cycle track is wide enough for two cyclists



### Cycle track to the right of parked cars.



Cycle track to the right of diagonally parked cars.

Cars use cycle track to enter and exit parking area.





### One way street for cars and motorcycles. Two way "contra-flow" with cycle track for bicycles.



# Bike contra-flow without cycle track. "One way. Bicycles exempt."



Bicycle contraflow without cycle track is marked only at intersections.





# Street without bike lane has bike lane marked where it curves left with straight-ahead fork



# Traffic circle: Motor vehicles in center on cobblestone. Bicycles to the right on smooth surface



# Cycle track on major arterial is wide enough for three or four cyclists



Standard for left turn on busy arterial is to ease right while crossing street then line up at advance stop line and wait for green light on cross street. Blue paint shows how in this intersection.





# Service road beside arterial is reserved for cycle track, car parking and right turns



Speed limit 30 kph (18 mph) on many low volume local streets with no cycle track





### There are many pedestrian zones in the downtown commercial districts.



"Pedestrian Zone"

"Driving permitted"

"Use the bike racks outside, and mopeds and motorcycles prohibited"



# Play street in residential neighborhood. Speed limit 15 kph (9 mph)



# Some narrow high volume collector streets lack cycle tracks and lane markings





# Collector street without cycle track has marked advance stop line for bicycles. This probably improves safety.



# Cycle track ends before intersection. Bikes and motor vehicles share right turn lane.



Bicycle traffic light is smaller than motor traffic light.



# Bike traffic light has illuminated bicycle image during all phases.



### Light phases:

- --red (41 sec)
- --motor right green (5 sec)
- --red (5 sec)
- --Bike yellow (2 sec)
- --Bike green, motor yellow (1 sec)
- --Bike and motor green (18 sec)
- --Bike yellow, motor green (4 sec)
- --Bike red, motor yellow (4 sec)
- --Total (80 sec)

#### Bikes:

- --protected from motor right turns
- --get green before cars
- --get red before cars



#### Light phases:

- --red (32 sec)
- --motor & bike right green (9 sec)
- --red (4 sec)
- --Bike yellow (1 sec)
- --Bike green, motor red (1 sec)
- --Bike green, motor yellow (2 sec)
- --Bike and motor green (13 sec)
- --Bike yellow, motor green (4 sec)
- --Bike straight red & right; motor straight & right green (10 sec)
- --Bike red, motor yellow (4 sec)
- --Total (80 sec)

#### Bikes:

- --protected from motor right turns
- --get green before cars

# Signalized intersection where auto right turn ramp crosses cycle track



### Bicycle leaning rail at traffic light



## Cycle track and sidewalk preserved during roadwork zone.



# Cycle track and sidewalk protected from overhead building project



### Cycle tracks cleared quickly after overnight snow



### Cycle track and bus depot at train station entrance



### "Remember,

you can bring your bike on the commuter train

-absolutely free!"



### Uncovered bicycle parking at train station



Double decker parking racks at some train stations





### Covered bicycle parking at train station



### More bicycle parking at train station



### Bicycle parking in circular rack at train station



### Bikes can park at stairway with direct access down to train platforms



Bicycle tire pump at bicycle parking lot



# Bicycle ramp from street to train platform





#### Train cars for bikes are clearly marked.



### "Flexible space is reserved for..." bicycles, baby carriages and wheelchairs.



#### It is also clear where bikes are not allowed.



## Diagonal bicycle parking rack



## More styles of diagonal parking rack





### Permanent bicycle parking corral on one-way street near intersection



#### Permanent bicycle parking corral at busy grocery store



### Permanent four-bike rack in commercial area. There are many and they are seldom empty.



#### Bike rack apparently set out by shop owner



#### Residential parking with and without rack





### A small percentage of bikes appear to be abandoned at parking racks



### Trees are protected in bicycle parking areas.



### "Storing of bicycles prohibited" on this commercial street corner



### Many bikes have baskets



### Most bikes have simple, permanently bolted on locks encircling rear wheel



### Bicycle built for three!



#### There are many styles of cargo bikes











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### Often the cargo is children





This family cycled to the recreation center for a swim





### Young child cycling with Mom



#### How many people in this cycling family?

