

SITE CONTEXT

CHARACTERISTICS

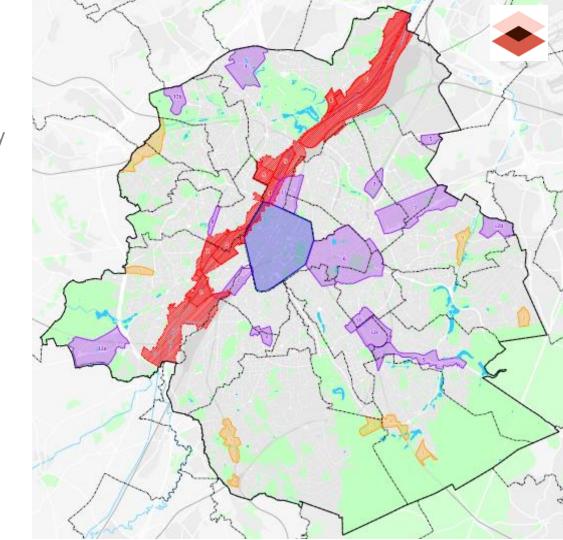
- 14 km long
- N and S: largely industrial/ harbour area
- central area : densely populated, culturally diverse area
- ..

PLANNING CONTEXT

PLAN CANAL: OSP > focus on open space, it's quality coherence and identity)

REGIONAL PLAN FOR SUSTAINABLE DEVELOPMENT

largest regional intervention perimeter



FRAMEWORK AGREEMENT **Central procurement agency OSP (March 2018 - 19)** (5 years) Part 1 Part 2 Strategic guide - 1 Plan updates and complementary studies recommendations) > Lighting strategy Plans, projects and studies 🕡 on public (and private open space)

OSP - LIGHTING STRATEGY





BUREAU BAS SMETS



Perspective.brussels working in close collaboration with : Environment.brussels Mobility.brussels

Vision

Continuities

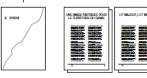
Ambitions and recommendations for the canal territory

- Identity and uses
- Linear public spaces
- Landscape and sustainability

Sub-zones

Ambitions and recommendations for specific districts/ neighbourhoods (adapted to its local context and challenges)

VISION GLOBALE



AMBITIONS ET RECOMMANDATIONS THÉMATIQUES, GROUPÉES PAR CONTINUITÉS





























AMBITIONS ET RECOMMANDATIONS ZONÉES, GROUPÉES PAR SOUS-ZONES























3 Continuities

9 Subzones

emblematic public spaces (singularities)

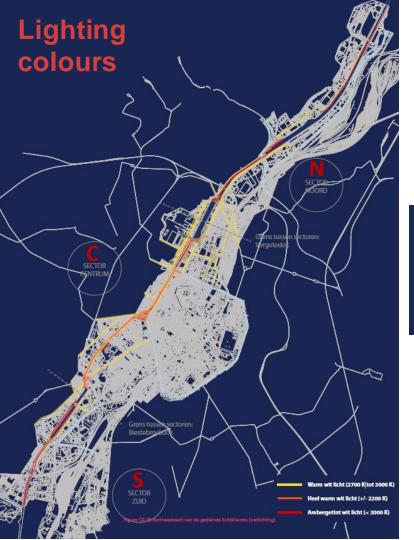
CONTINUITY - IDENTITY AND USAGE

To benefit from the identity of the canal and its continuity

Ambitions

- To rhythm the canal with "emblematic public spaces"
- Bring the canal into the picture
 (perspective views, furniture, materials, *light*)





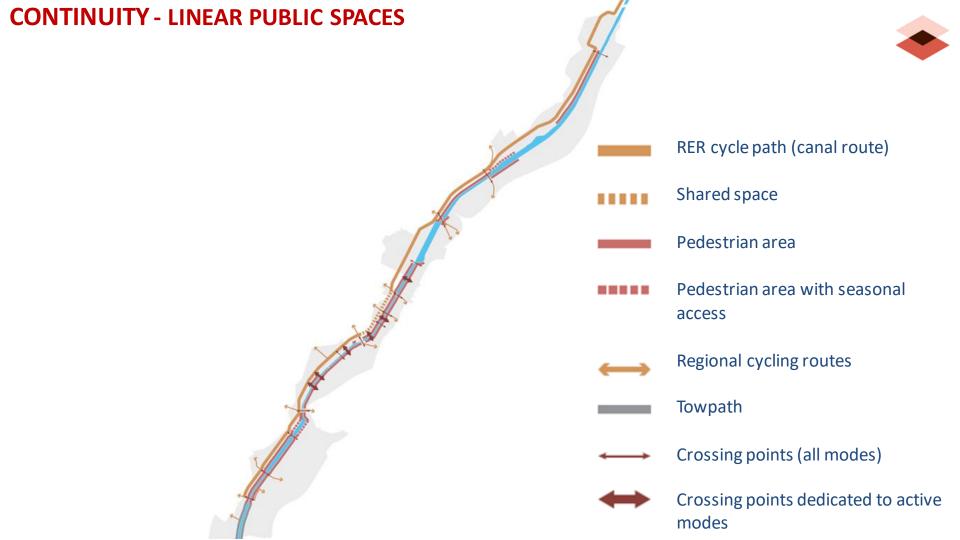




Warm white light (2700 K to 3000 K)

Very warm white light (+/- 2200 K)

Amber white light (<2000 K)



CONTINUITY - LINEAR PUBLIC SPACES





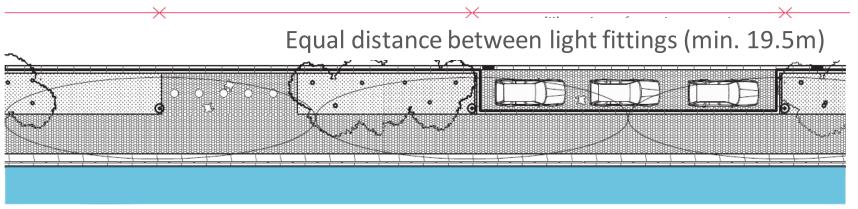
- Asphalt footpath
 Composition of the generic quay
- Paved footpathSegregated cycle lane
- Segregated Cycle land
- Multi-functional strip
- Asphalt road

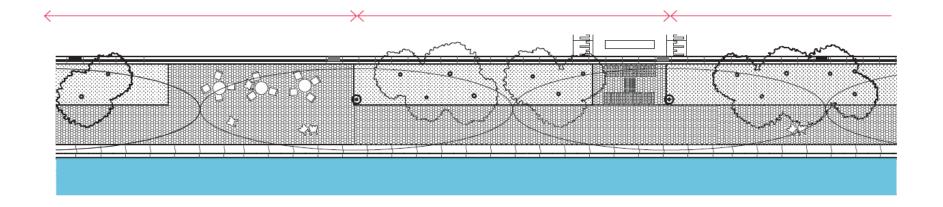
- large planting beds (layered)
 - paving materials,
 urban furniture and
 - lighting (character reflecting the functional and industrial character of the canal)

AMBITION - CREATE A COHERENT FIGURE ALONG THE QUAYS Trottoir en pavés Chaussée en Piste cyclable en Zone piétonne en Piste cyclobie en Zone piétonne en asphalte asphalte ocre asphalte ocre

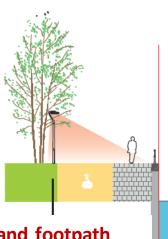
AMBITION - CREATE A COHERENT FIGURE ALONG THE QUAYS







NORTH and **SOUTH**: no light to amber white light for active modes



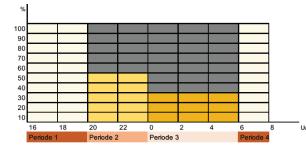
Cycle- and footpath

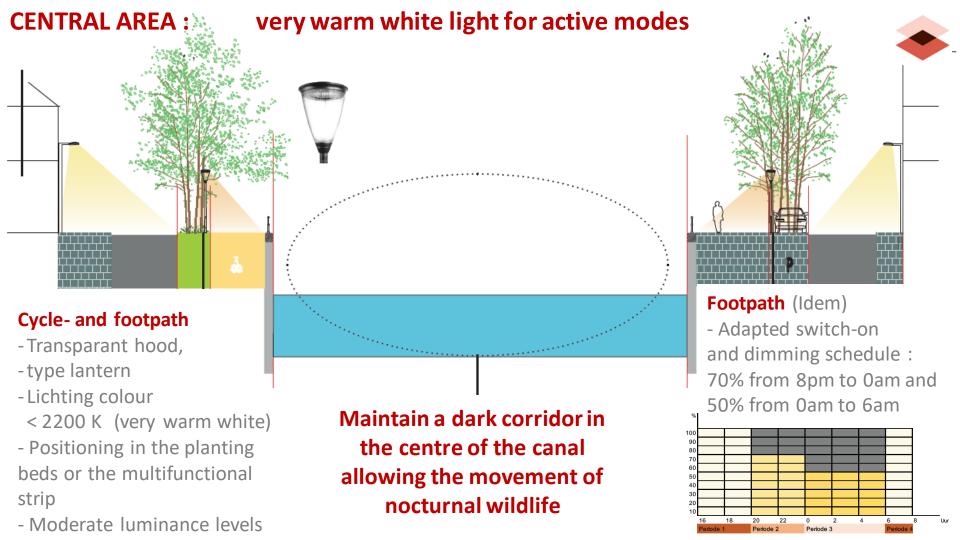
- Narrow-beam light fittings
- Lichting colour<2000K (amber white)
- Positioning in the planting beds or the multifunctional strip
- Moderate luminance levels

Maintain a dark corridor in the centre of the canal allowing the movement of nocturnal wildlife

Footpath (idem)

Adapted switch-on times and dimming schedule :50% from 20 to 0 h and30% from 0 to 6 h





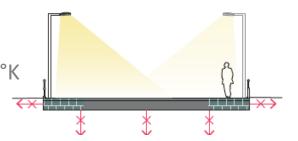
Lighting and dimming schedules for bridges and of foot-/ cycle crossings

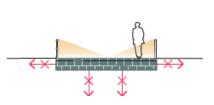
• Fitting model: fittings at low height

and with narrow beam

• Lichting colour: amber white < 2000°K

• Intensity: moderate lichting levels (= minimum needed for usage)

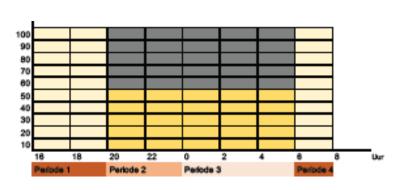




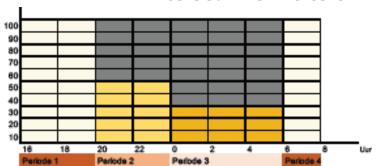
Maintain a dark corridor in the centre of the canal allowing the movement of nocturnal wildlife

Dimming schedules

Urban centre: dim to 50% from 20h to 24h



N and S areas: dim to 50% from 20h to 24h to 30% from 0 to 6h



LIGHTING OF PASSAGES ALONG AND UNDER BRIDGES AND LOCKS

1. Quays with all modes going under het bridge

Central driveway

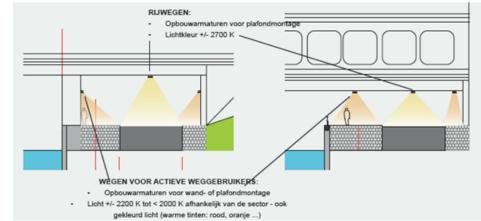
- model: ceiling-mounted fitting
- lighting colour: warm white +/- 2700 K

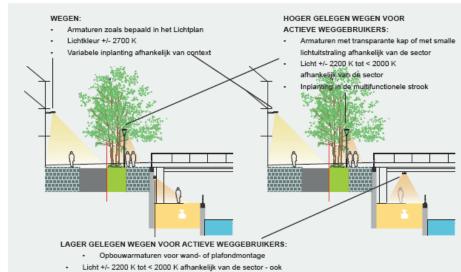
Lateral connections for active modes

- model: ceiling- or wall-mounted fitting;
- downward lichtbeam
- lighting colour: very warm white (+/- 2200 K) to amber white (< 2000 K), or warm-tainted light: red, orange, ...)
- 2. Quays with only active modes going under the bridge

Paths for active modi (covered underpass):

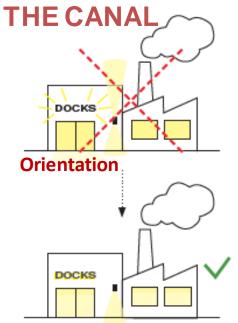
- model: ceiling or wall-mounted fitting; downward lichtbeam
- lighting colour: very warm white +/- 2200 K to amber white < 2000 K (or warm-tainted light: red, orange, ...)



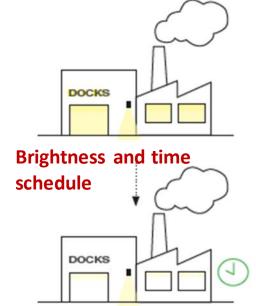


gekleurd licht (warme tinten: rood, oranie ...)

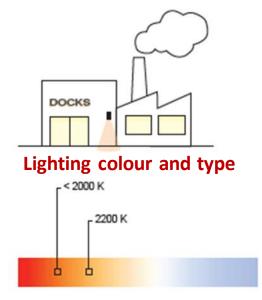
LIGHTING OF LOGISTIC, INDUSTRIAL (and other) BUILDINGS ALONG



- Downward vertical lighting
- Inwards oriented lighting of shops or buildings
- Publicity signs with backlighting (no direct lighting).



- Brightness levels of façade lighting and the immediate area to be dimmed 50% from closing time, then off from 22pm to 5am
- Turn off illuminated signage when activity ceases, except for essential services: pharmacy on duty, commissariat, hotel, hospital, ...
- **Switch off indoor lighting** visible from the public area from 22pm or end of activity.
- · Use a timer or similar system.



- Avoid aggressive light signage, excessive brightness and light gadgets (e.g. no flashing lights, colour changes, large screens, etc.).
- Give preference to static and soft lighting.
- light colour of outdoor lighting:
 - Centre: very warm white (+/- 2200 K)
 - N and Z : amber white (< 2000 K).





Thank you

(NL)

- https://perspective.brussels/sites/default/files/220901 bkp verlichting 0.pdf
- https://perspective.brussels/sites/default/files/221017_bkp_addendum_verlichting_nl_0.pdf
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