

# What for?

## application and purpose

## other advantages and motivations



## purpose for user i purpose for client



| urban spaces (sub-areas)                 |             | ****        |          | • • • |                    |                                       |
|--|-------------|-------------|----------|-------|--------------------|---------------------------------------|
| boulevards                               | human being | interaction | technics | light | party people       | ZHdK                                  |
| dimensions:<br>↓ large-scale             |             |             |          |       | tourists, visitors | SAIC or RISD                          |
| crossroads, Small-Scale<br>traffic nodes |             | area        |          |       |                    | Wolfgang                              |
| building<br>entrance areas               |             |             |          |       |                    | city of Eindhoven                     |
| sidewalks<br>pathways                    |             |             |          |       |                    | local industry<br>(shop keepers etc.) |

## human being

## What do people do anyways?

#### situations, actions possible situation parameters not knowing what to do - knowing what to do waiting searching walking do something be inside playing meeting being on the way — being on the spot places, persons a building as a pass-time $A \rightarrow B$ passers-by or Α appointments or services Α being alone — being in company $A \rightarrow X$ locating oneself What are the present Х possible outdoor activities in Strijp-S $\leftarrow$ transitions of usage $\rightarrow$ on the way on the spot fear of the dark, robbery, violation (mostly indoors) looking for friends or new acqaintances doing grocery shopping rather in a hurry buy presents for others going for a walk, thinking going to the gym watching people going to a bar, looking for sex-mates alone jogging, skateboarding doing sports taking your dog for a walk chill on a bench or the lawn ask people for the way talk talking to each other drink stick with the group mostly watch an event (match, show etc.) be bored call other people do sports, play games waiting for someone to join in a group meeting other groups change goal spontaneously loose each other lag behind go ahead buy cigarettes, food or drink on the way dump garbage orient by and follow a few leaders

## What might people think of the light?

### user perspective and possible reactions

#### positive

#### information, augmented reality personalized assistance meet appointments light as landmarks (dynamic or static) people as landmarks orientation find services visibility, recognizability over greater distances spontaneous evening planning visible spontaneous hotspots party finder

personal power personal impact on environment conquering space

#### negative

fears falling and crashing object moving shadow uncomfortable perceived surveillance lacking anonymity (e.g. while snogging, pissing, smoking pot)

annoyance noise (of propellers etc.) color flashes "It doesn't do what I want it to!"

lacking respect vandalism despise ("Waste of money and energy!"

### interesting

associations polar light sun (if light very high up) stars and sky firefly head light torch

in case of a game competing with each other access new features individualization

democracy

theft of objects

#### beauty

unspoilt cityscape (no cables or posts) fascination for the artefact

#### fun

**security** no fear of the dark no dark alleys

#### socializing

group recognizabel as such  $\rightarrow$  members don't get lost different parties of common interest can join (e.g. same destination) could be fostered through game  $\rightarrow$  spontaneous matches



### light doesn't follow behind but flies ahead

moody light object leaves and returns frequently

scout light flies ahead to extend your "safe area"

firefly very small object

#### individualization

the more you've walked the brighter your light shines if you passed a game, your light changes (visible prize) Look at that guy! His light is blue!" "Freispielen"

integration in object number surroundings self-awareness of object

## technics

# How does it move?

How does it fly? balloon zeppelin rotors, propellers hanging → strings on poles (and wheels) within magnetic field

How does it move? static grid (static elements, only light moving) fluent, kinetic grid (creating different denseties)

# How is the light created?

chemical light

physical light

**reflection** different mirrors reflect light from a central source or projection of light into mist

subtractive static light shines through flexible holes

# How does it recognize the user?

kinect camera

# centrally organized software system for scenario c) functional



# hardware?



# definition

electromagentic freque spectrum (wave le

frequency (wave lenght)

amplitude

# brainstorming



## services

fly ahead and thus show you the way fly into side streets to show you what's there -> ne fear of the dark, security wait for you when you pause make a little show when you want it to rise high in order to make you visible for friends from afar shine brighter if it's especially dark or when you're alone accelerate and make you walk faster when you're late come to you when you need it (entrance and anywhere else) change appearance if you want it to, without any change of function play tag (Fangen Spielen) fly higher to illuminate your surroundings fly lower to give you a highlight on something to read direct your attention to signs, shop windows or other things attract you to other people: make detours to make two people meet leave you alone when you want to be distract from you when you don't want to be seen wait for you while you enter a building allows you to take in into your hands in order to warm them roll on the ground allow a tracking function: show your friends where you are on a distant screen create statistics and a movement profile: "How long did you need from A to B?" be passed on to strangers if they need orientation more urgently



