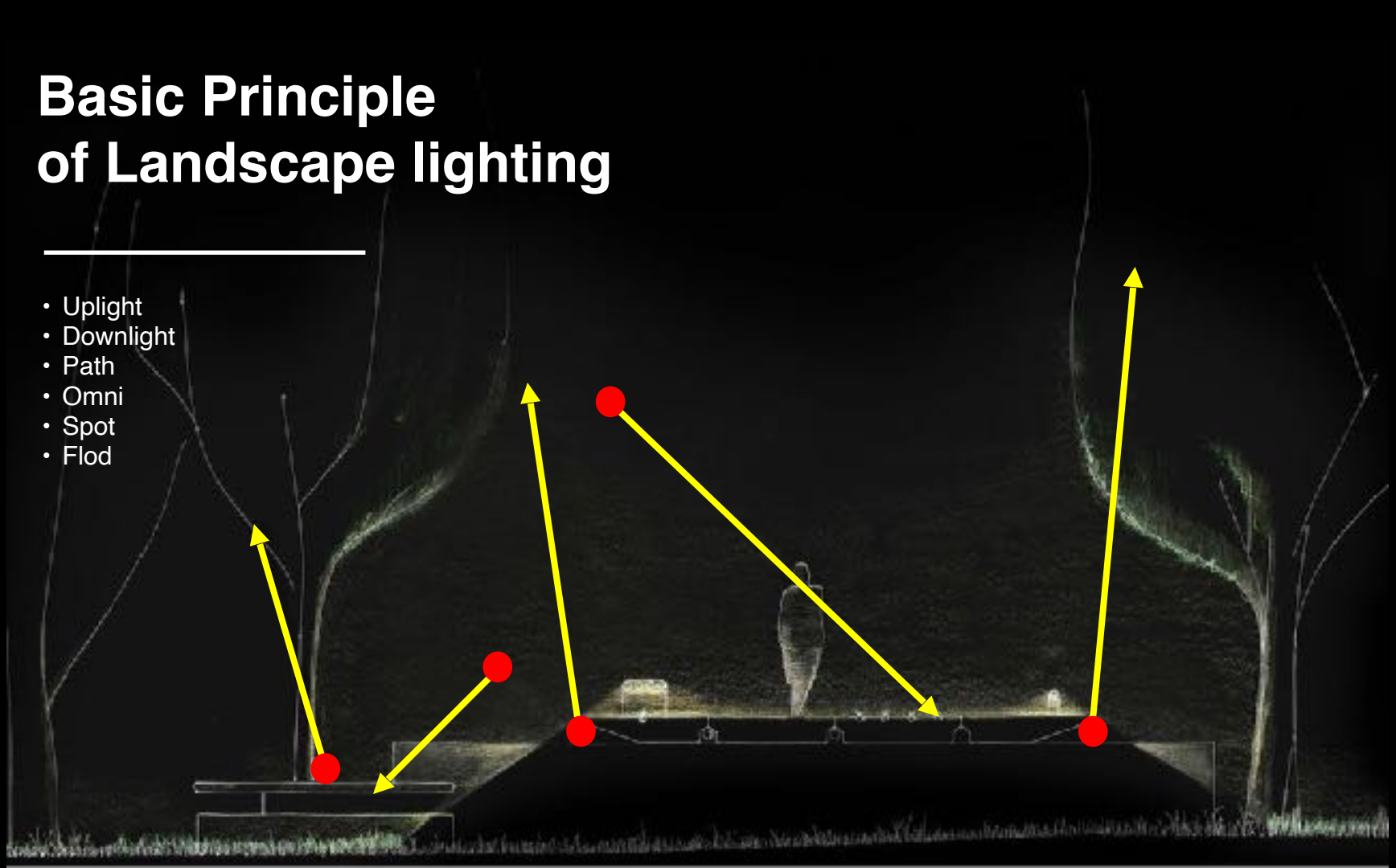
Landscape track lighting
design by Skira 2023 developed by Filix 2025

Tria System

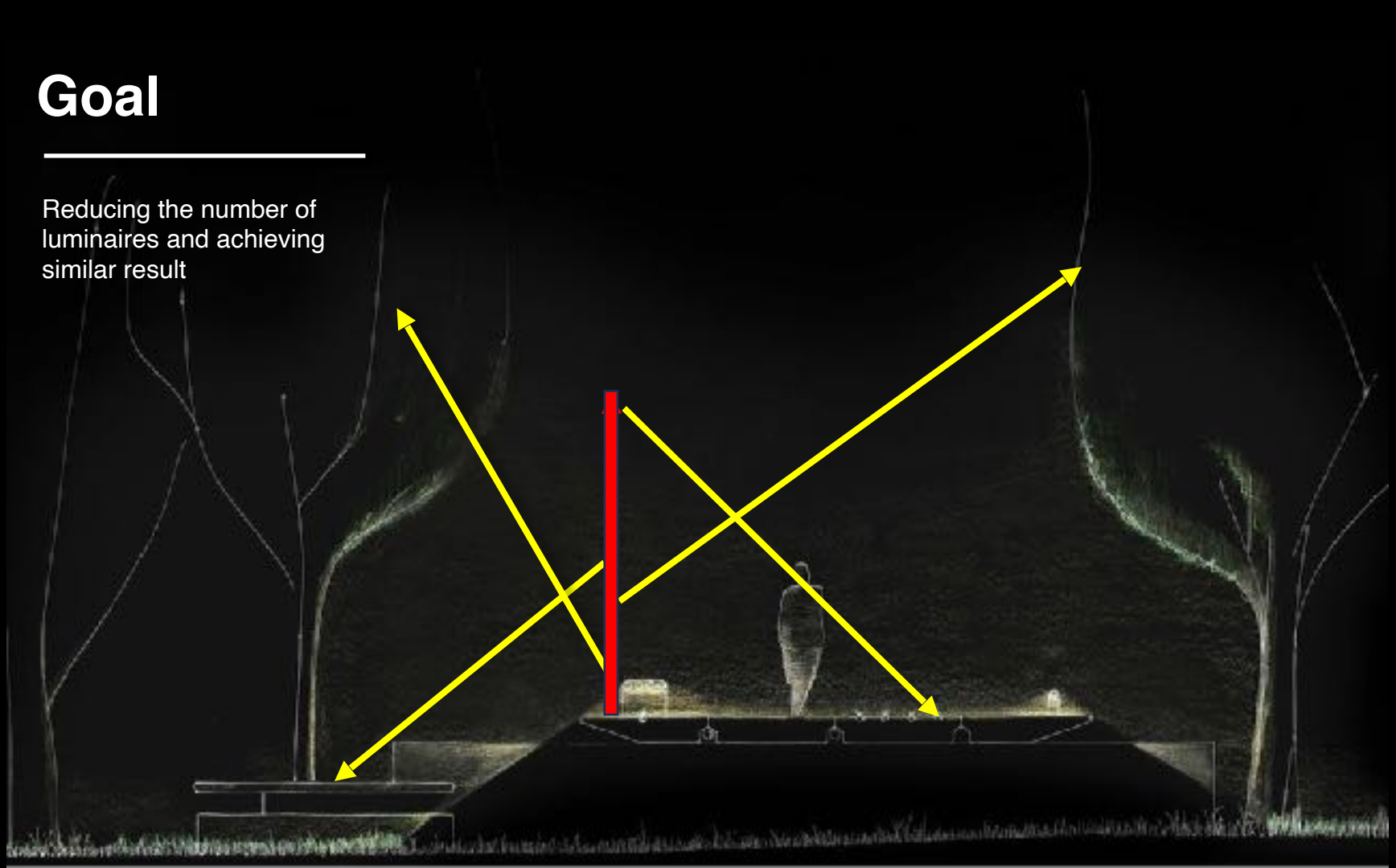
Basic Principle of Landscape lighting

- Uplight
- Downlight
- Path
- Omni
- Spot
- Flod



Goal

Reducing the number of luminaires and achieving similar result



Simulation

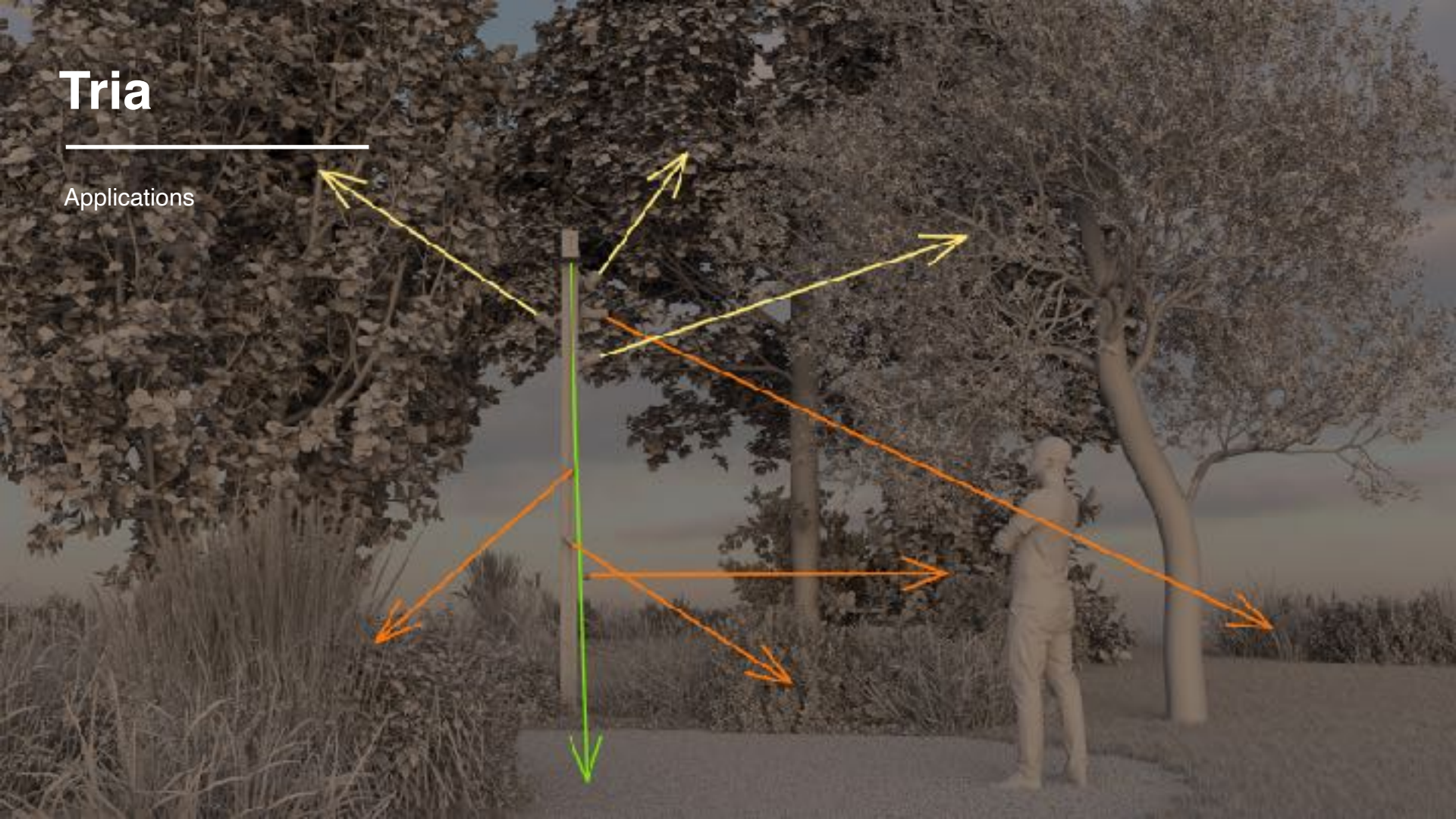
Traditional lighting

Simulation

Traditional lighting

Tria

Applications



Tria

Applications

Tria

Applications


Standard projector pole


Standard projector pole

Goal

Reducing the number of luminaires and achieving similar result

If you have to design lighting for a 70.000m2 landscape what would be your major concerns?

Site Requirements

✅ Installation and wiring must comply with engineers' specifications for public use

✅ Passthrough wiring system

✅ Large cable section compatibility for pole installations

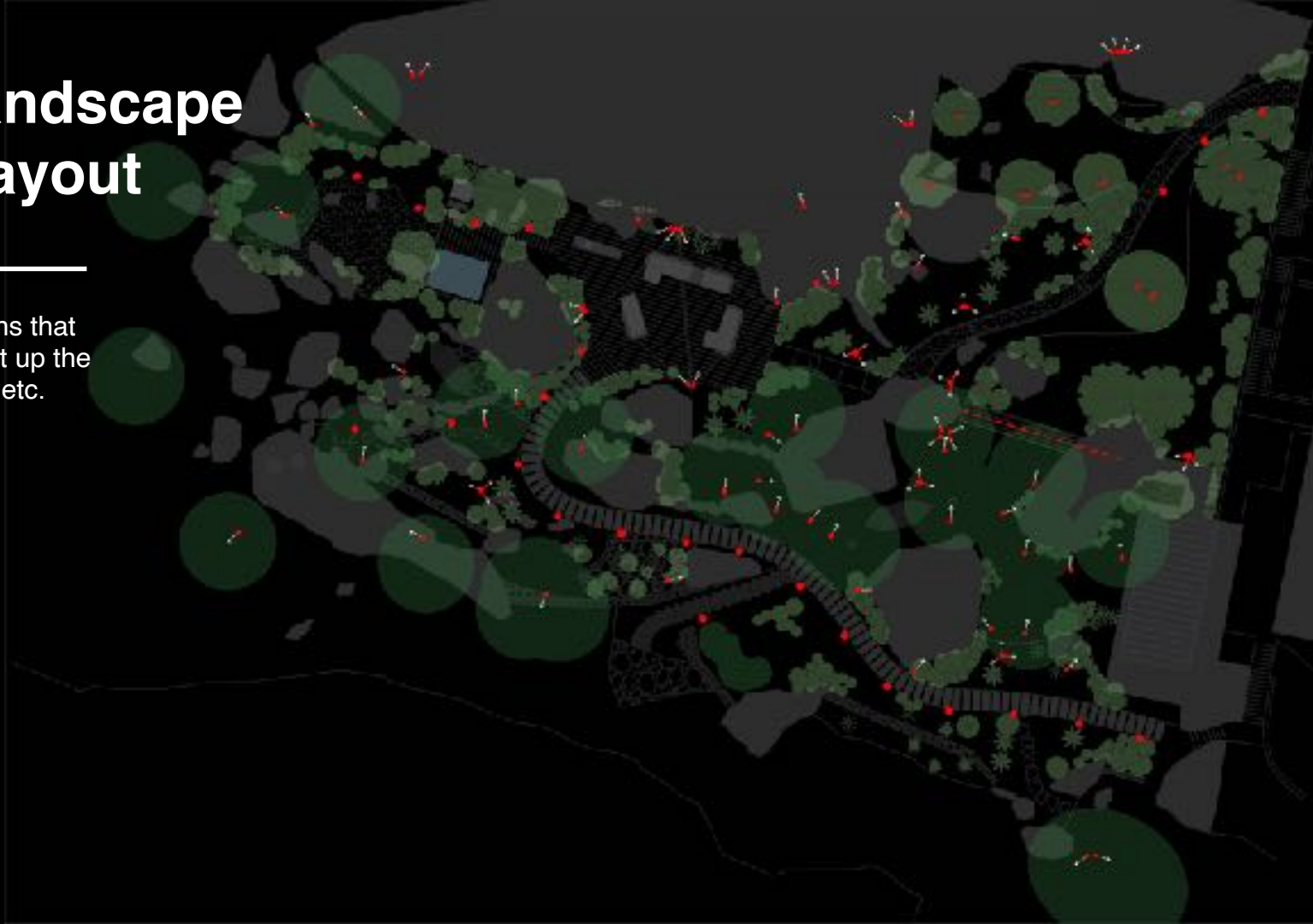
✅ Seaside protection (corrosion-resistant materials/coating)

Product Requirements

- ✅ Multiple body housing colors available
- ✅ Multiple optics options (crucial)
- ✅ Various power range options
- ✅ Antiglare accessories and lens options
- ✅ IP and IK ratings; vandal-resistant design
- ✅ RGBW and Tunable white color options

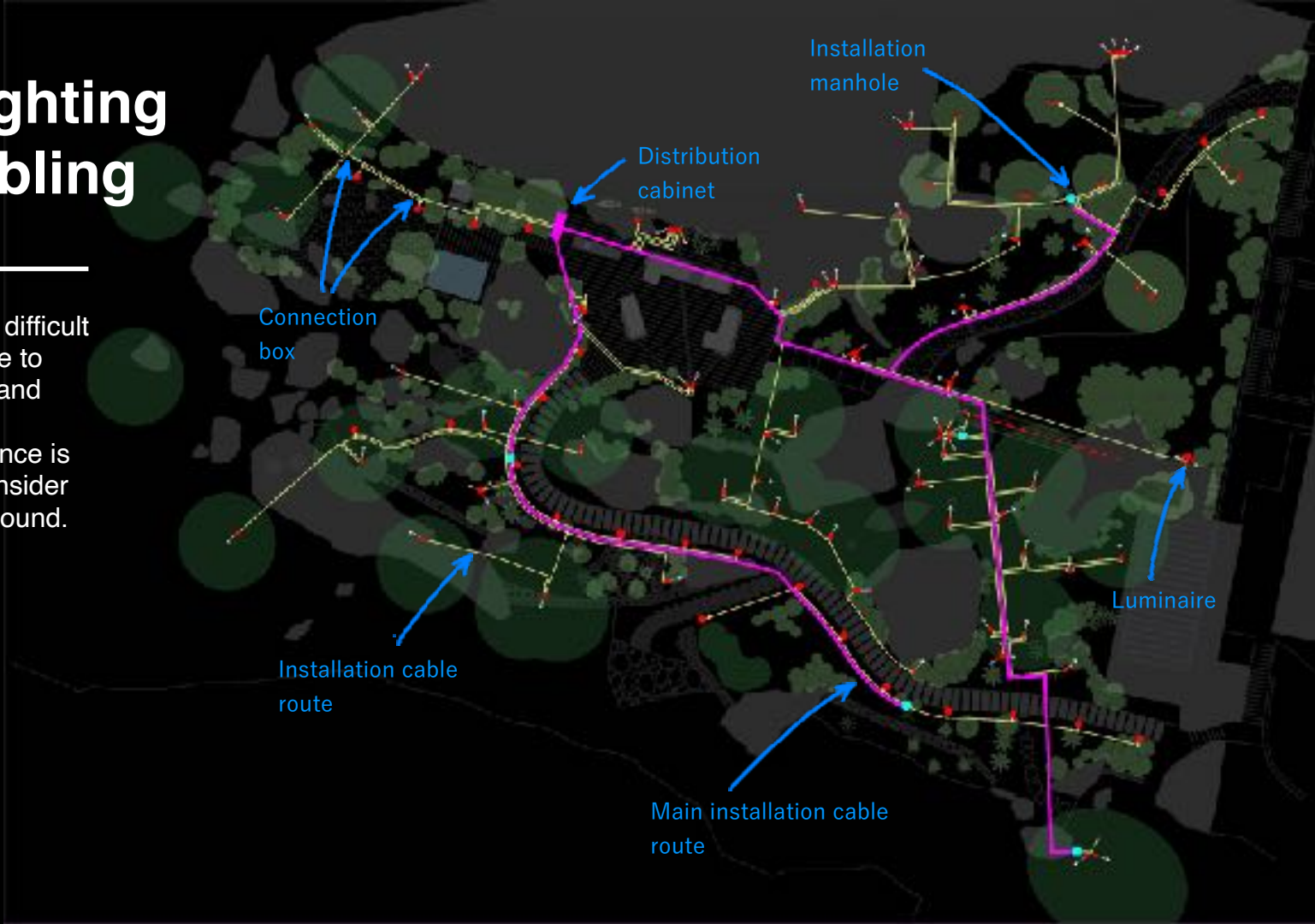
Typical landscape lighting layout

Usual lighting positions that would be used to light up the garden, trees, paths, etc.



Typical lighting layout cabling

Installation cabling is difficult and gives a headache to investors, designers and installers.
Landscape maintenance is challenging, must consider many cables underground.

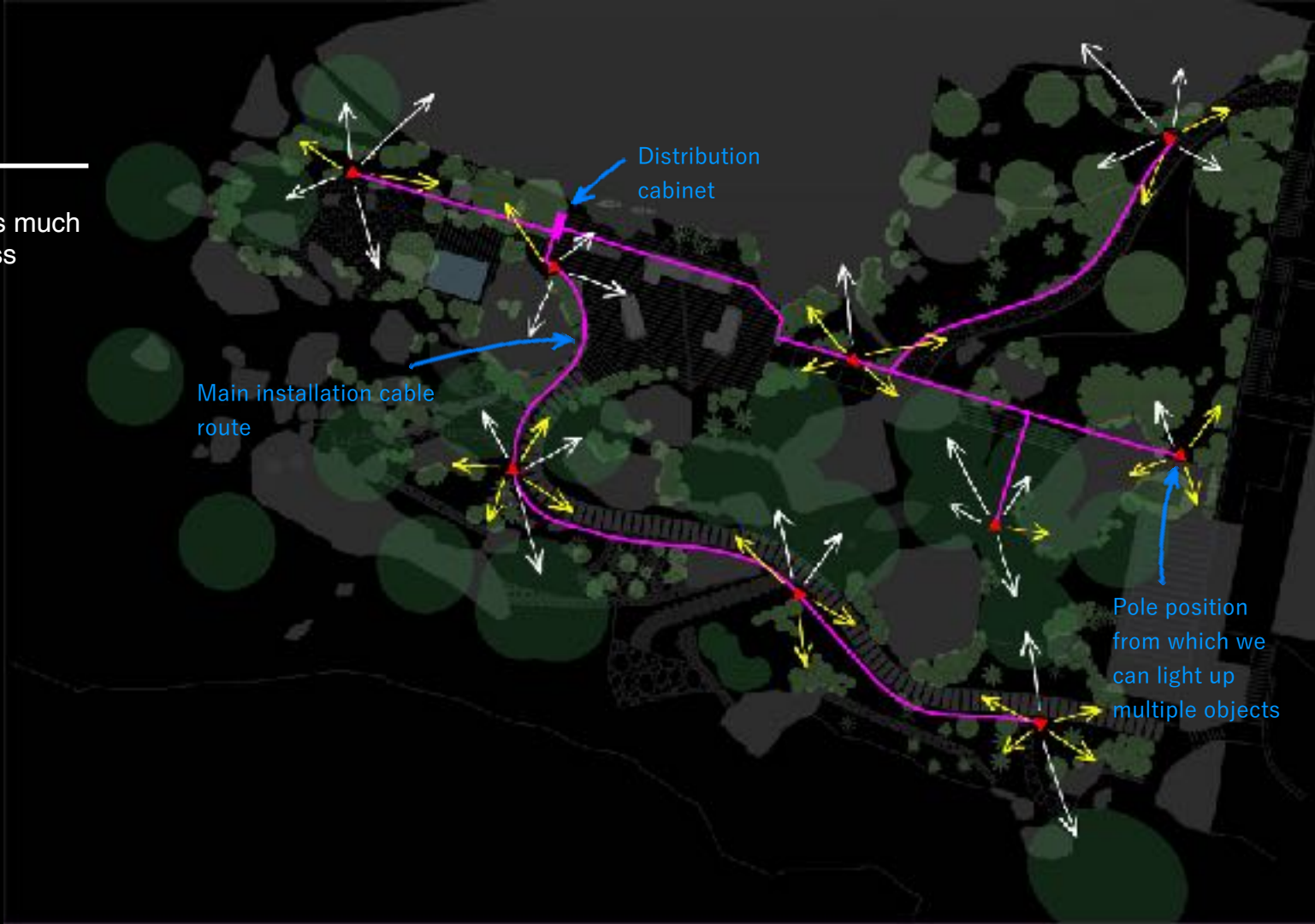


Tria

Single point from which you could illuminate multiple objects

Tria

Cabling already looks much simpler and much less expensive



Tria

What if we wanted to add additional luminaires that aren’t on the poles?

Tria

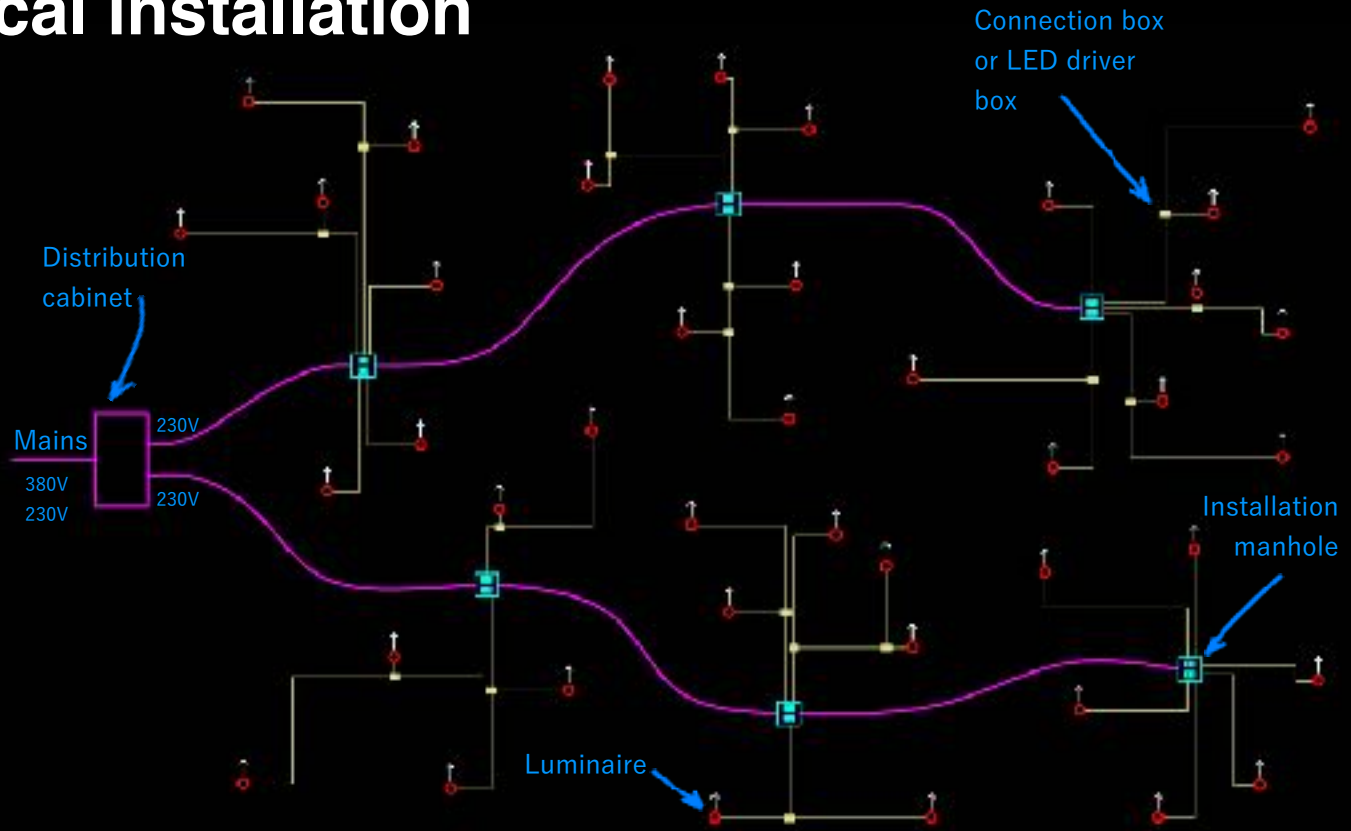
No problem, since poles act as premade installation manholes from which we can power additional luminaires

Schematic view of typical electrical installation

Main cable travels from distribution cabinet to installation manholes.

A separate cable then goes to luminaires (depending on luminaire type there can be multiple or single luminaires per cable).

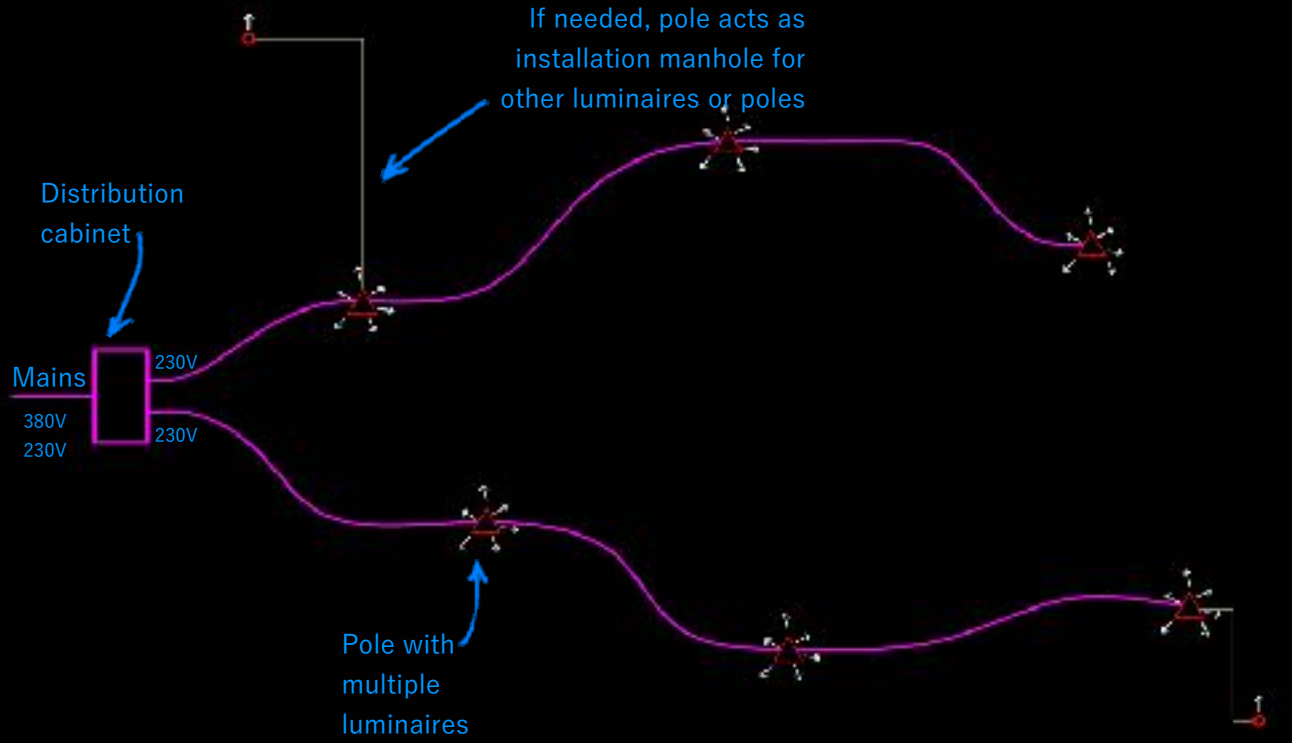
LED power supplies are placed either in installation manhole or next to the fixture



Schematic view of TRIA electrical installation

Main cable travels from distribution cabinet to installation manholes.

From there separate cable goes to luminaires (depending on luminaire type there can be multiple or single luminaires per cable). LED transformers are placed in the Tria structure



Tria

Designed for large landscape areas.

Practice show that you as a lighting designer have no idea how this landscape going to look like until all is planted on site.

Green Corridors

Overall base layout

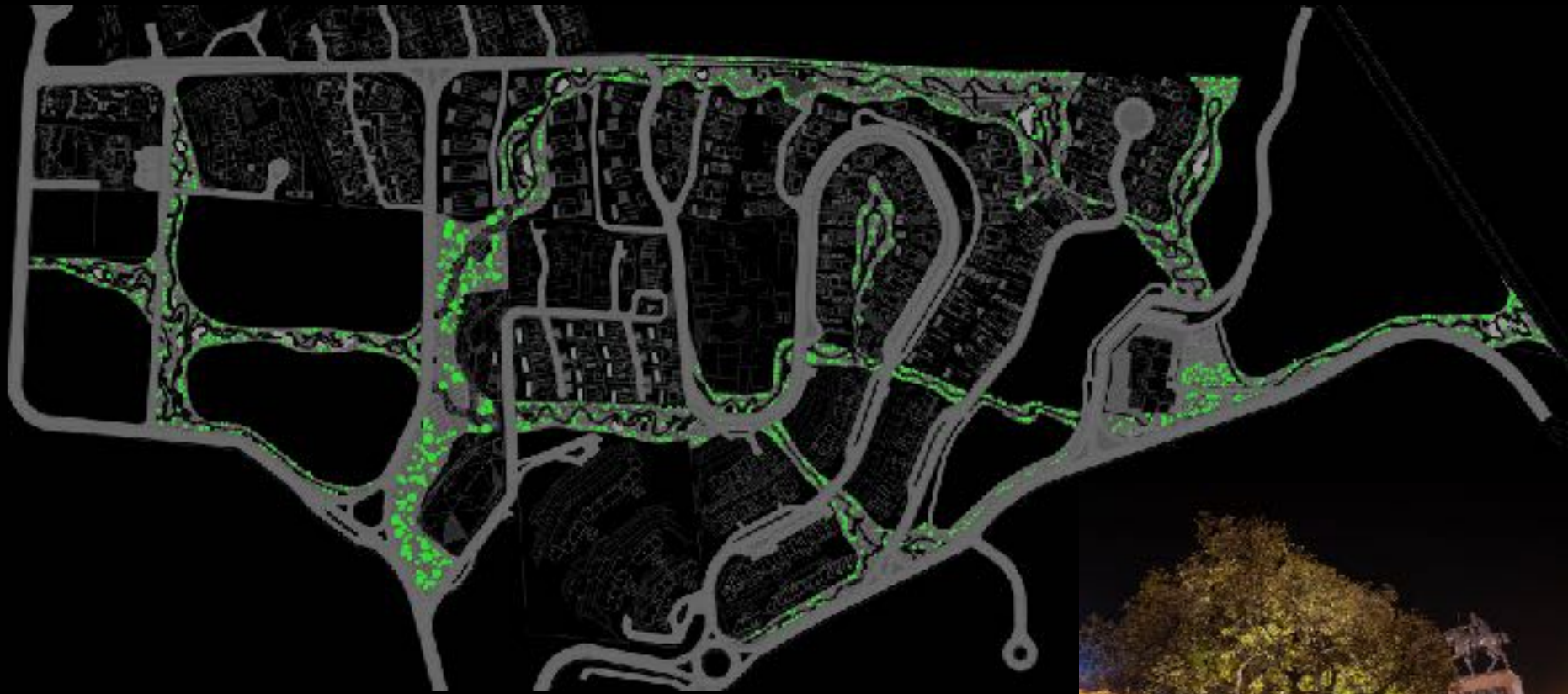
Green Corridors

- Red – Pathways

SKIRA

Green Corridors

- Orange – Plateaus



Green Corridors

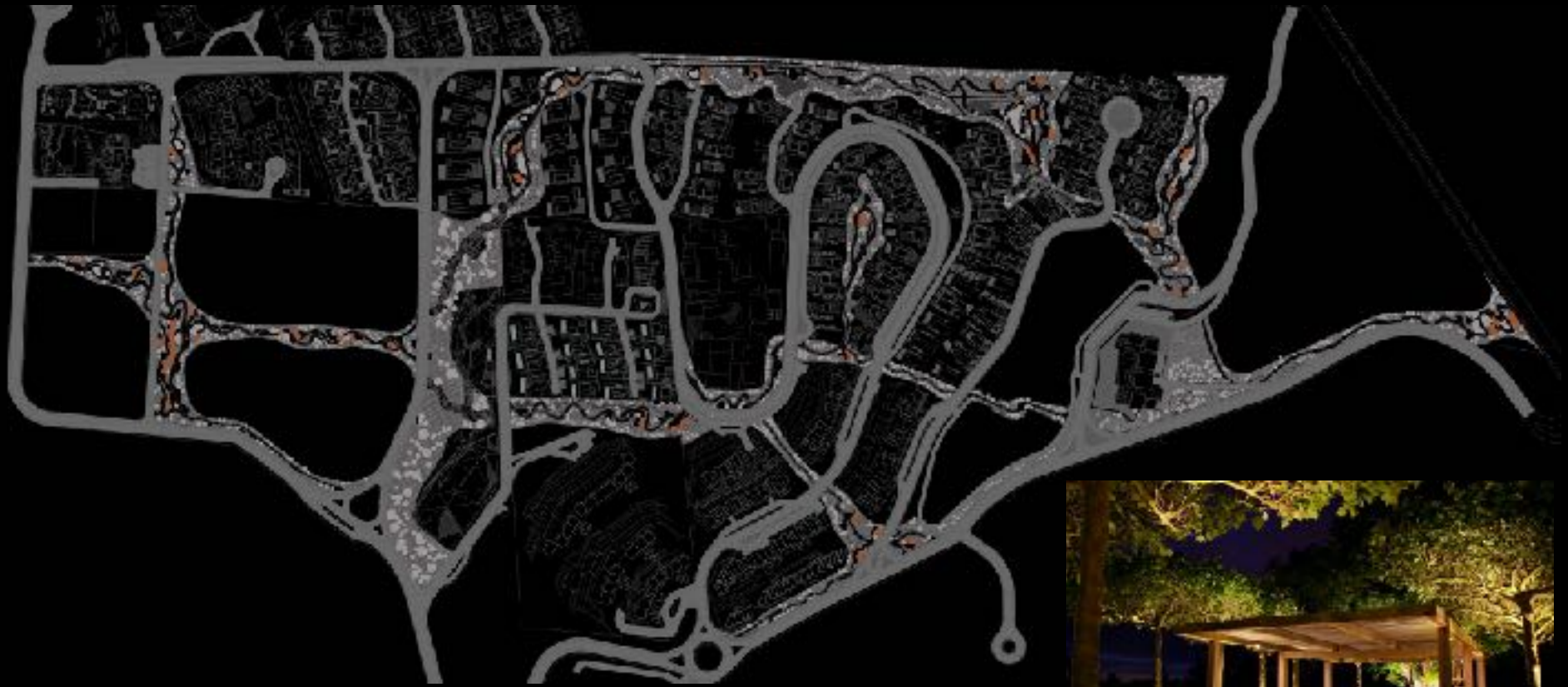
- Light green – Trees

Green Corridors

- Dark green – Low plants

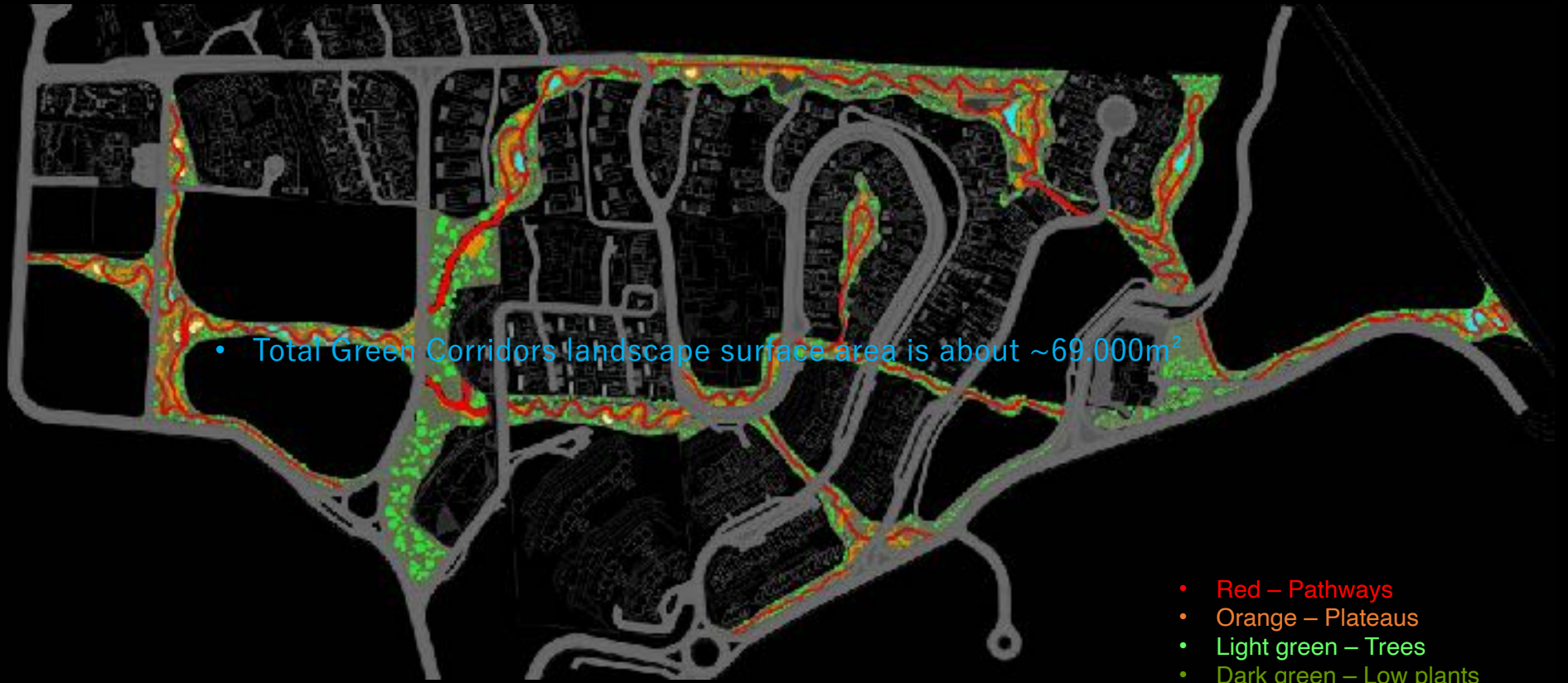
Green Corridors

- Cyan – Water features
- Yellow – Sand features



Green Corridors

- Brown – Wooden elements



Green Corridors

- Red – Pathways
- Orange – Plateaus
- Light green – Trees
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- Cyan – Water features
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Landscape surface area is about ~69.000m²

Plot G5 case study

Renders of actual case

Plot G5 case study

Renders of actual case

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Renders of actual case

Plot G5 case study

Renders of actual case

Plot G5 case study

Renders of actual case

- Plants will grow
- Trees will grow
- Landscape will change
- Ground will be covered with leafs, grass and compost
- Lighting delivery will change and will be more challenging over time

Plot G5 case study

Renders of actual case

Plot G5 case study

Renders of actual case

Plot G5 case study

Renders of actual case

Tria System

- Multiple sizes to meet diverse project needs
- Range of customization options
- Enhances public spaces
- Residential landscapes
- Hospitality projects
- Urban parks
- Amusement parks
- Cultural districts

D=84mm (3.3")

D=150mm (5.9")

D=231mm (9.1")

TRIA S
(500mm - 3000mm)
(19.69" - 118.11")

TRIA M
(3000mm - 6000mm)
(118.11" - 236.22")

TRIA L
(3000mm - 8000mm)
(118.11" - 314.96")

Tria Family

Landscape track lighting conceptualized by Skira 2023 developed by Filix 2025

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Landscape track lighting conceptualized
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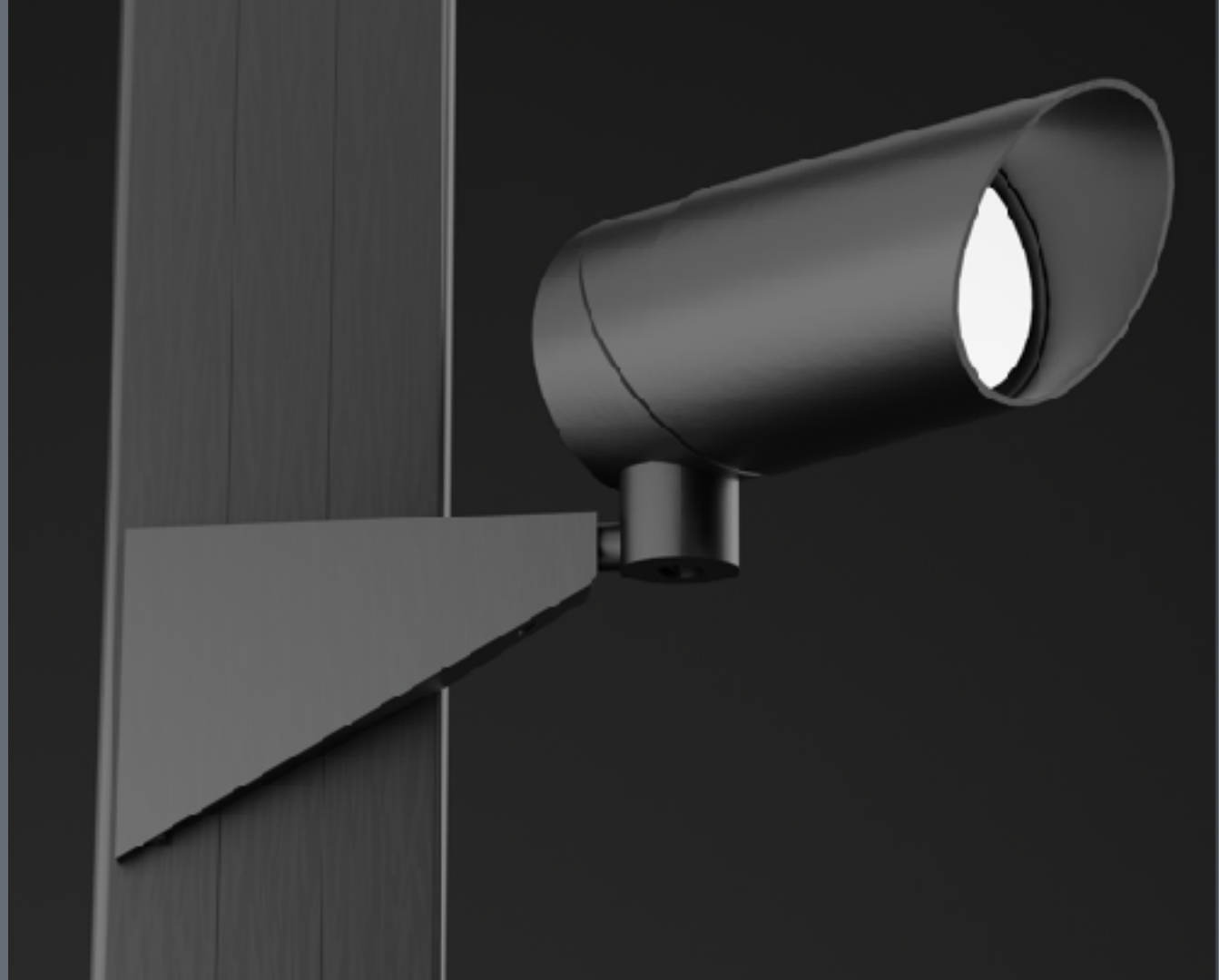
Trion S - M - L

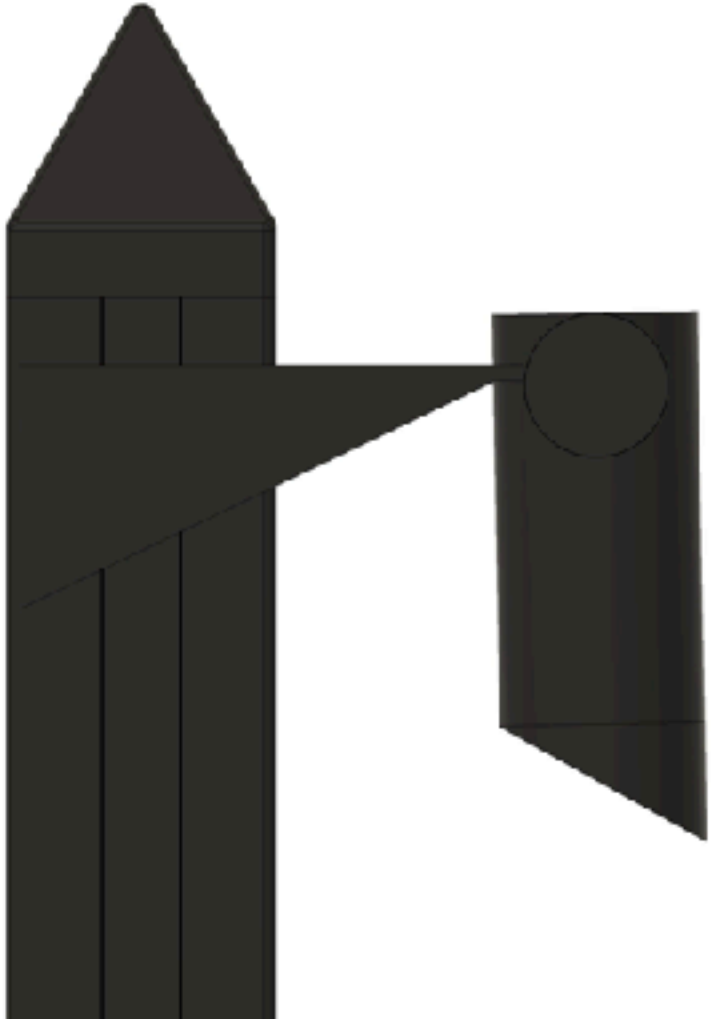
- Rotation 360° in two axis

- Projector
- Pole mount
- Wall mount
- Spike mount



Trion S - M - L

- Full 360° orientation, allowing precise adjustment



Trion S - M - L

Anti-Vandal Strength

- IK07
- Trion Bracket – Withstands Side Force and Torque
- Designed to resist twisting, bending, and pulling
- Load Capacity: 50 kg = 490 N

- Torque Resistance:
  When force is applied 10 cm from the wall (lever arm = 0.1 m):
  $\text{Torque} = \text{Force} \times \text{Distance} = 490\text{N} \times 0.1\text{m} = 49\text{Nm}$

- For comparison, an average adult trying to twist the bracket with one hand from 10 cm away would generate about 78 Nm if they used their full body weight (80 kg).
  That means you'd need significant strength and technique to even come close to damaging it.

Bottom line:
Trion resists vandalism by preventing torque-related damage – twisting, yanking, and side pulls.

Trifix

- Pathways illumination
- Fixed angle 22°
- Pole mount
- Wall mount

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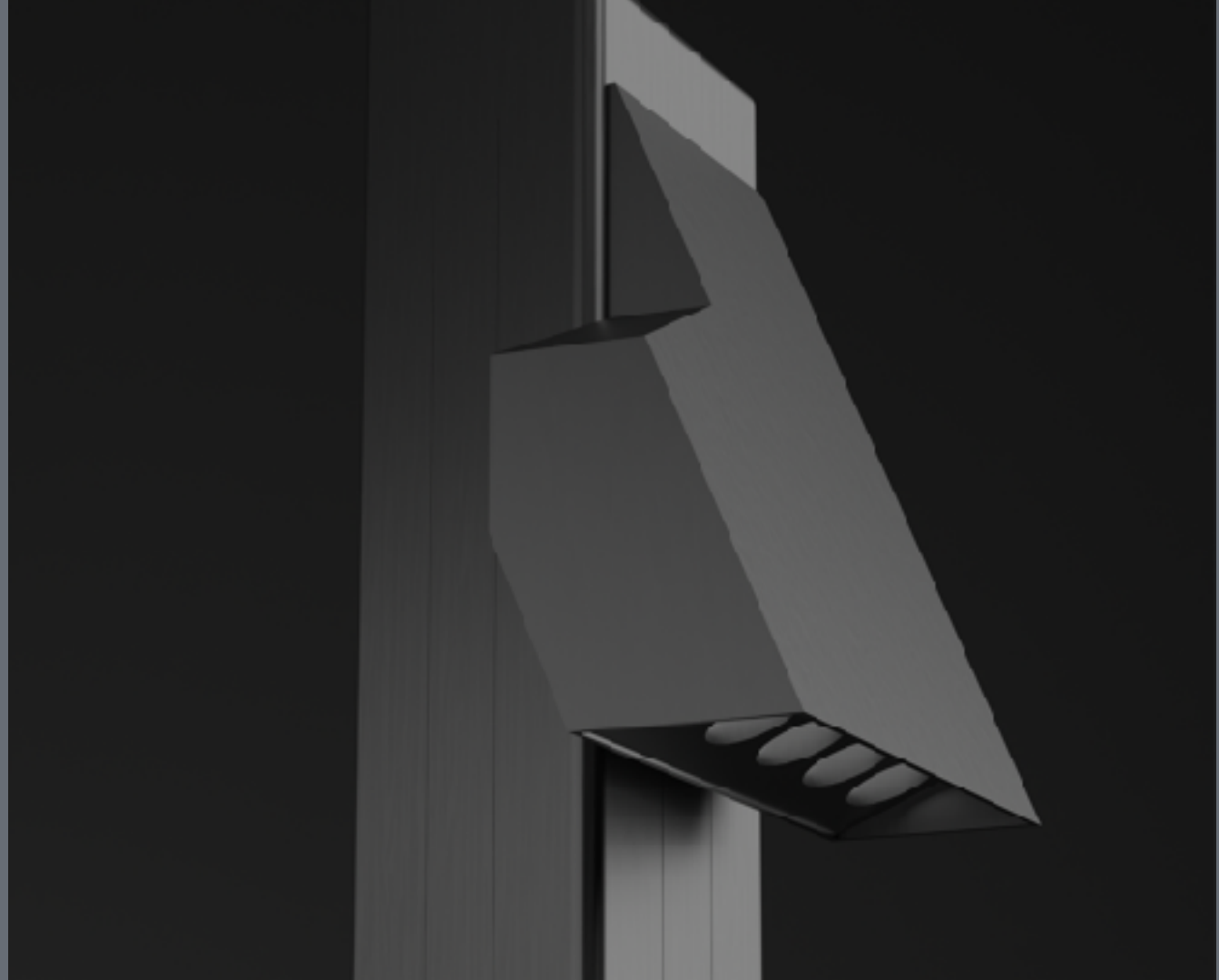


Trifix

- Bollard

Trifix

- Bollard

Trifix S - M - L

Anti-Vandal Strength

- IK07
- Trifix – Built for Direct Vertical Load
- Compact and robust for tight spaces
- Load Capacity: 50 kg = 490 N

- Torque Resistance:
  Lever arm = 0 cm, so:
  Torque=490N×0=0Nm

- A person would have to pull straight down with more than 50 kg of force (e.g. hang their full body weight) to exceed the bracket's limit.

Bottom line:
Trifix is almost impossible to twist or bend because there's no leverage point – it's purely vertical force, which is harder to apply destructively in real life.

Trist

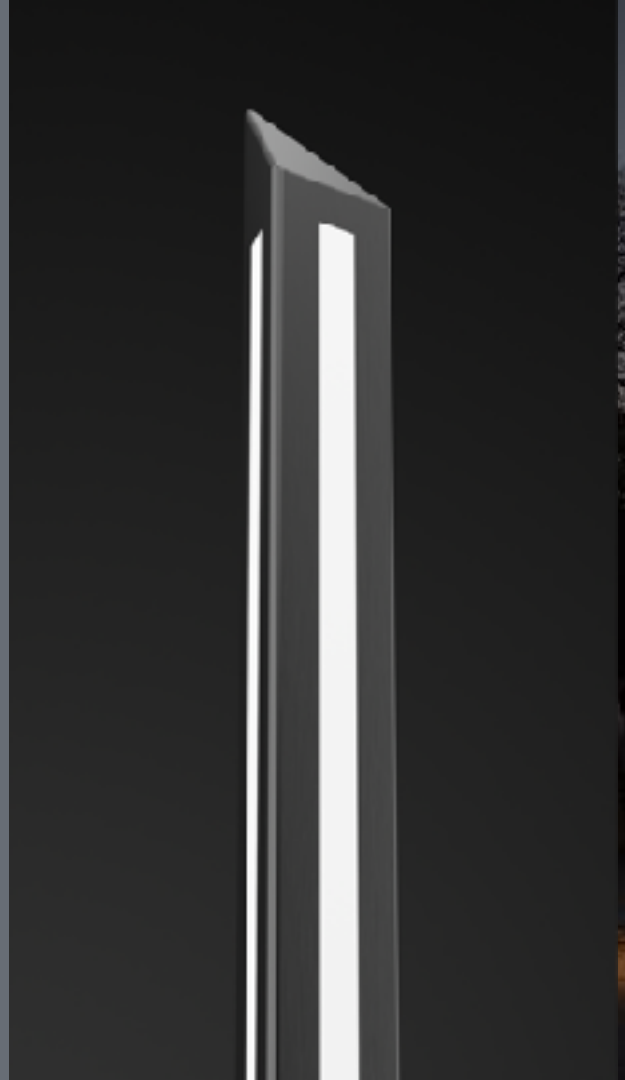
Trist

- Pathway
- Street

Trace

Trace

Trace



Communication

- Digital signage
- Static signage
- Trace with pattern
- Dynamic scene projection

Communication

- Digital signage
- Static signage
- Trace with pattern
- Dynamic scene projection

Connectivity

- Wi-Fi module
- Multisensor setup for illumination control (day/night, ambience, and motion sensors)
- Environmental sensors for weather, air quality, UV levels, and ambient noise

Landscape track lighting

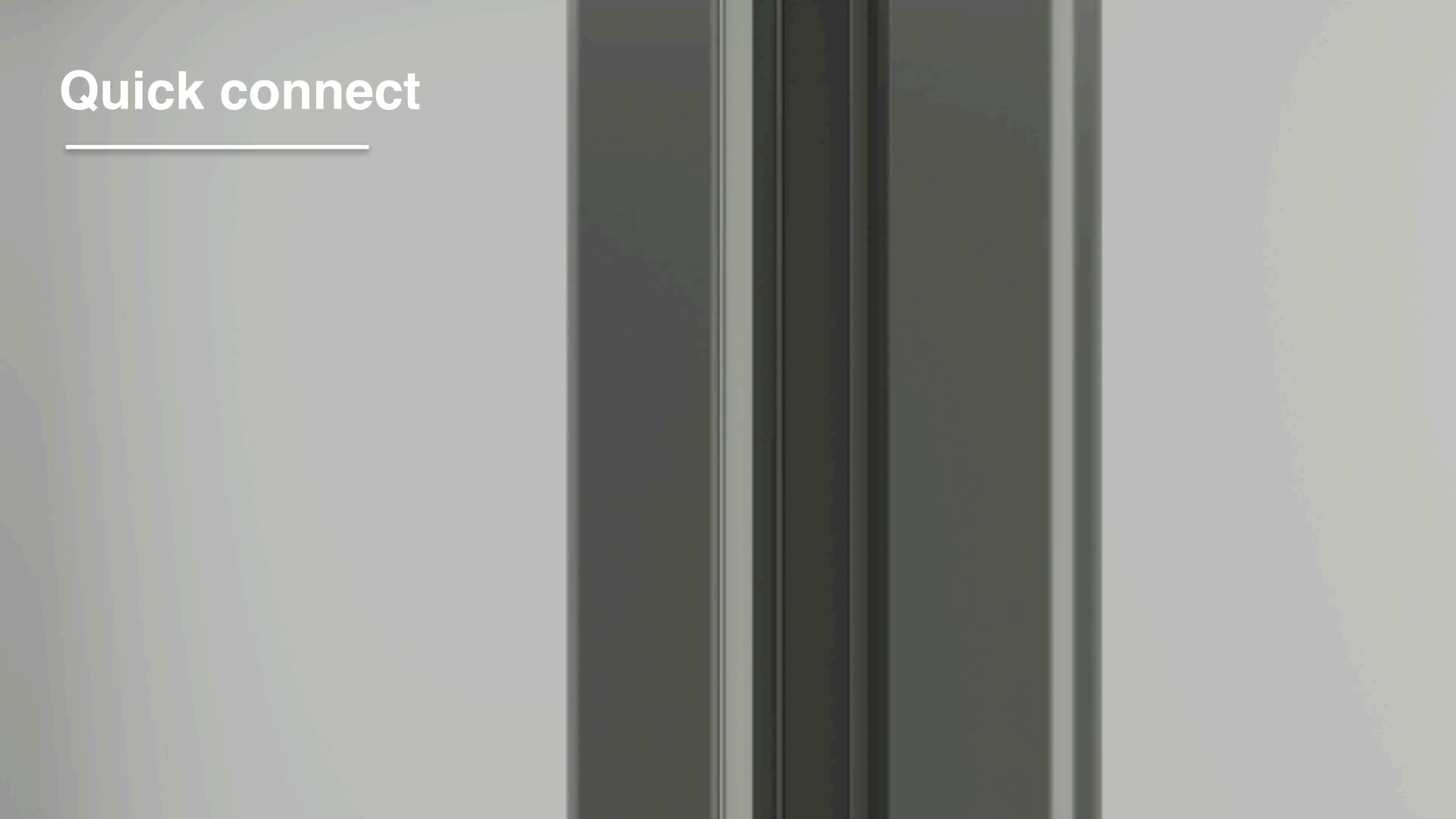
Landscape track lighting

Quick connect

Easy maintenance

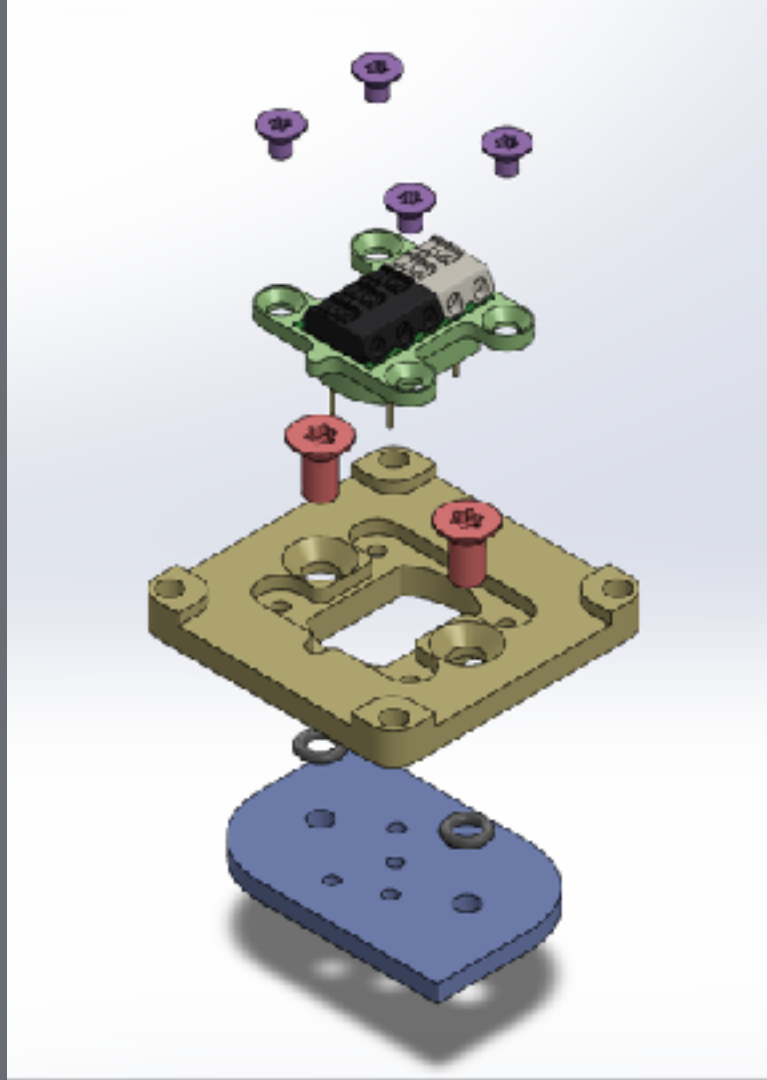
On site final tuning

Quick connect



Quick connect

- A **48V lighting pole system** with an integrated flat cable track
- Allows **tool-free mounting** and **repositioning** of outdoor luminaires
- Built with **IP66 protection** — safe in rain, dust, and harsh environments
- Uses a **flat 5-wire cable** running inside the pole for power and connection



Landscape track lighting

- Maintenance
- On site final tuning

Pros & cons – Traditional landscape lighting

PROS:

- Usual practice in landscape lighting
- Larger variety of products
- Allows more precise micro positioning

CONS:

- More complicated installation, especially with low voltage luminaires
- Inground luminaires require good drainage
- Several different cables and connectors required
- Requires better and more frequent plant maintenance and grass mowing
- When maintaining the landscape, the luminaires usually get adjusted in unwanted directions
- More expensive maintenance
- When the plants grow it’s not possible to change luminaire lighting effect
- Not flexible for adding additional luminaires at a later time

Pros & cons – Tria landscape lighting system

PROS:

- Less physical positions
- Less cabling
- Easier maintenance
- Easy focusing of luminaires
- Easy readjusting with plant growth
- Flexibly changing the number of required luminaires over time
- Base of the pole acts as installation manhole for additional fittings away from the pole
- OVERALL CONSIDERABLY SMALLER INVESTMENT

CONS:

- Not usual practice in landscape lighting
- Limited variety of available products

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