



Lecture : Indoor plants

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A photograph showing the interior of an orangery. The room is filled with rows of fruit trees, each planted in a large wooden barrel. The trees are lush and green. In the background, there are many large windows with yellow frames, allowing sunlight to fill the space. The floor is made of polished wood.

Origins of Indoor Greening Orangery

- Greenhouse designed to keep trees such as oranges during the cold season: large windows and placed fruit trees planted in wooden boxes.
- They used as a 17th-century aristocratic social venue



Origins of Indoor Greening Crystal Palace, London

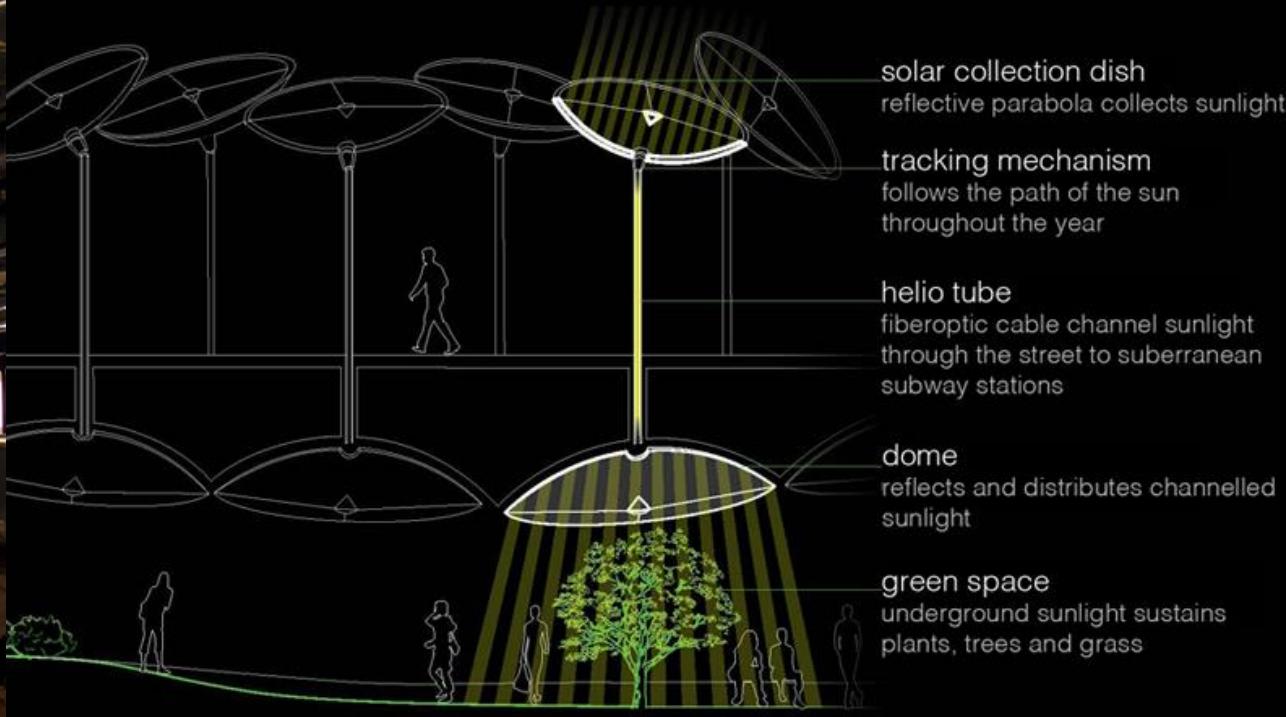
- Built in 1851 as the venue for the first World's Fair in Hyde Park, London
- Designed by Joseph Paxton
- Inside, there were ponds, fountains, marble sculptures, and large numbers of plants.
- A number of events were held as a place for people to interact and an extraordinary festive space, including a flower expo, a dog co-association, a brass band, the Handel Festival, and fireworks.



Public place
Daido Seimei Building, Osaka, Japan



Public place
Low Line, New York



Public place
Low Line, New York



Public place
Seoul City Hall, Korea



Department store
Yurakucho Marui, Tokyo

Spring



Summer



Autumn



Winter



Department store
Chiba SOGO, Chiba



Cafe
Omotesando Nikolai Berkman, Tokyo



Cafe
TEA HOUSE, Omotesando, Tokyo



Office
Kashima co. Atrium, Tokyo



Office
Pasona urban farm



Private house
Conservatory, UK



Private house
Pot plants

Good reasons for indoor greening

- People spend a long time indoors (home, workplace commercial facilities, etc.)
- Green amenities (eye fatigue recovery, work efficiency improvement, etc.) can be expected
- It is easy to start at home.
- We can keep an eye on plants.
- We can grow plants when the outside is harsh, such as winter.

Growth environment for indoor plants

It is a severe environmental condition for plant growth.

It is necessary to fully maintain the growth environment of plants

Water-Regular watering

Light- too dark for growth, supplemental lighting,

Temperature- Air conditioner, equivalent to subtropics.

Humidity- usually it is necessary to put humidity.



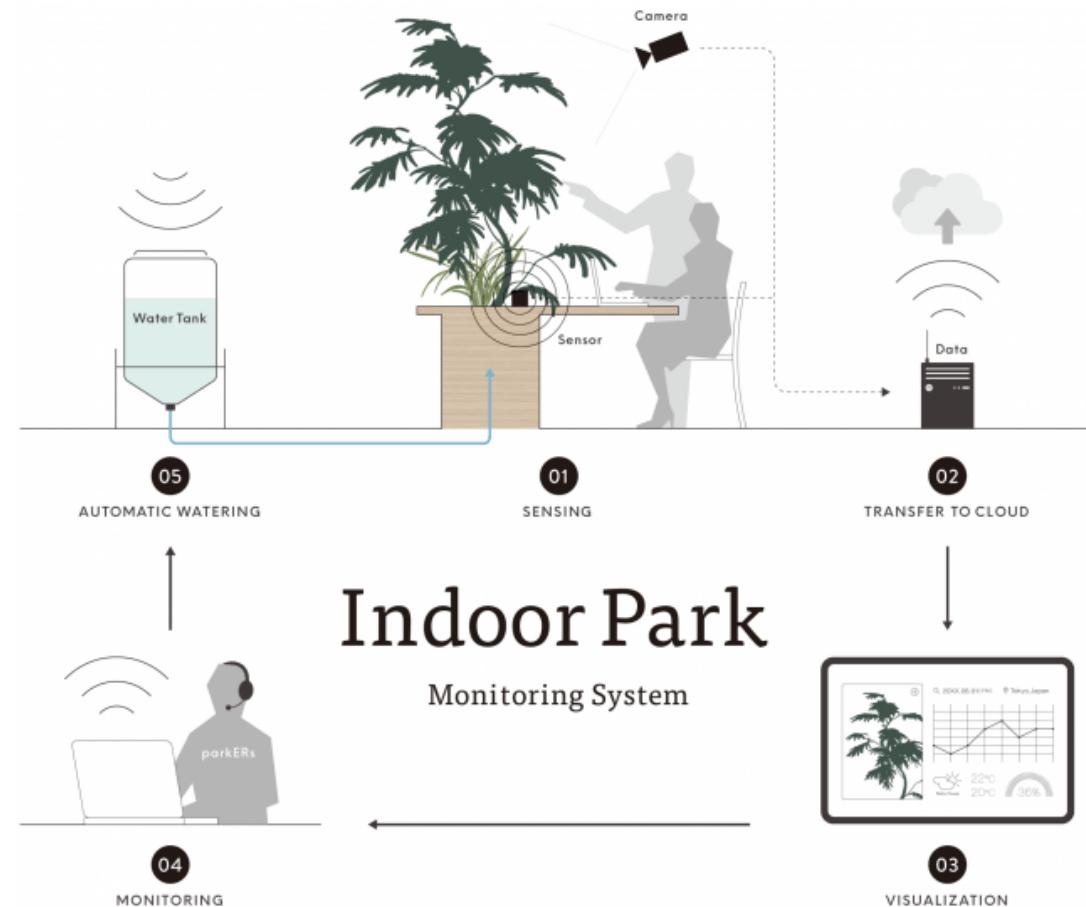
Light conditions- Natural light



Office PerKErs office, Omotsando Tokyo

- <https://www.youtube.com/watch?v=KVrznvZHGE4>

Using IoT



<https://iot.mirai-media.net/parkers-iot/>



Asparagus setaceus

アスパラガス

- Ornamental foliage plants
- Native to South Africa
- Easy to grow
- Light – Plenty of sunshine, but avoid strong sunshine in summer
- Water – Once a week (winter)
- Humidity- Escape too humid condition
- Temperature- Escape extreme temperature (over 30 degree, less than 5 degree)



Haworthia fasciata

十二の巻

- Succulents
- Native to South Africa
- Light – Indoor is appropriate, half day sunshine
- Water – once a month in winter, once in two weeks in spring and autumn
- Humidity- escape too humid condition
- Temperature- Escape extreme, less than 5 degree



Argyranthemum frutescens "Smash double apricot" マーガレット Margaret

- Flowering plants
- Native to Canary Island
- Suitable for outside but inside is better in winter
- Light – Plenty of sunshine
- Water - once a week (winter), twice a week (summer)
- Humidity- escape too humid condition
- Temperature- Escape extreme temperature (over 30 degree, less than 5 degree).

Temperature, Soil moisture, Light

Temperature	Current room temperature is appropriate.
Humidity	Current room humidity is appropriate but avoid wind from air conditioner
Soil moisture	It is better to water after soil get dry at least for a few days.
Light	<p>Current Lux is too low for the plants. Asparagus and Haworthia is better to be window side. Margaret needs plenty of sunshine.</p> <p>Less than 100 lux: Most plants are not able to survive. 150 lux – 200 lux : It is possible for shade tolerant plants but not a long time 300 lux – 500 lux : It is possible for most indoor plants with healthy.</p>

Enjoy workshop !

Please feel free to ask me if you have any questions
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