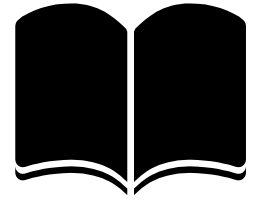


Friburgo



Mar Alonso



Index

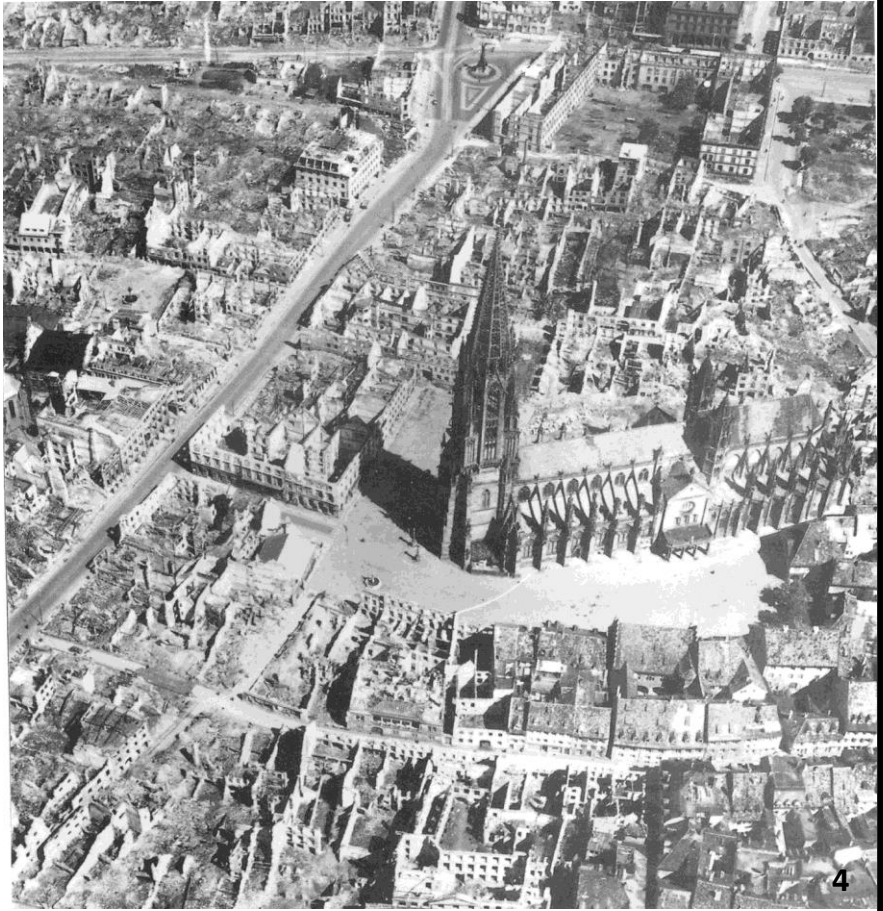
- Location
- History
- Ecologic characteristics
- Its energy sources


Location



History

- Tigerfish operation
- It was bombarded in the year 1944 Aproximatly, 2800 dead
- It was rebuilt in the years 70 with the purpose of make it the city most ecologic and sustaiable city of the world





How this city became
one of the best?

No cars



Vans

Only at the morning for leave the merchandise.

Cable car

Schauninsland (Black jungle)



Tram

It's the most usefull transport to travel to the turistics points, in the center

Bicycle

Lot of people ride a bike

The majority are universitary teenagers

Bus

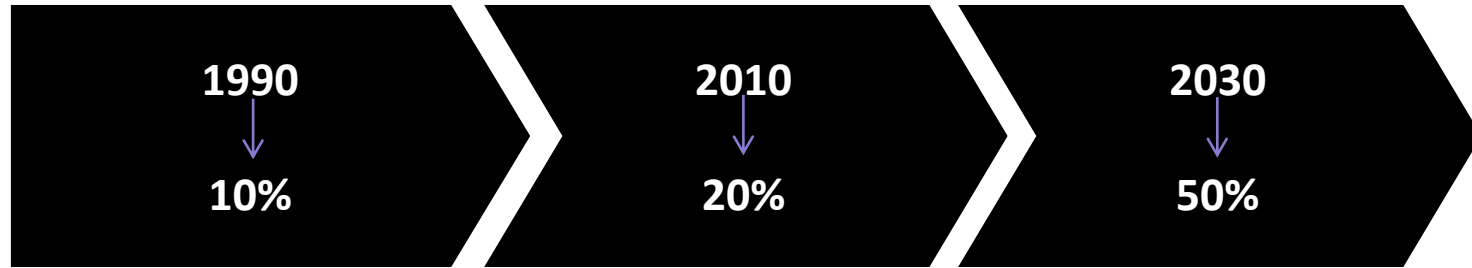
Is preffered in the exterior places, like the periphery.

Is more used in zones where the tram can't go.

Public transport

Accord to some local companys, each year more than 78 million trips are made in this type of transport

Reduction of CO2



Characteristics



Low level of noise

The loudest noise that you can hear is the tram, or the students



Green energy sources

The buildings consume 65 kw/year.
Less than the rest of Germany

A photograph of a modern, multi-story building with a glass facade, illuminated from within at dusk. The building has a unique, angular design. In the foreground, there is a fountain with several jets of water. The sky is a deep blue, and the overall scene is lit with a mix of natural and artificial light.

2.

Future buildings

“Mayoral building”, Dieter Salomon

Passive buildings



- **Constant temperature**, air exchange system, no heating
- Save up 90% energy
- Solar panels generate energy and ament the power network
- Sometimes the phones don't work
- The roof has a aislation of 30 cm



Green city tower

- Solar panels in the roof
- Generate 1 MW of energy
- Stored in one battery
- To the rest of the town



Energies



Solar

Is the most popular energy
1800 hours of sunshine

Biogas

People put organic waste in plants
and the gas that generates transforms
in electricity

Eolic

In the Black Jungle are eolic turbines

Hidroelectric

Classic energy
Used in a low percentage

Geotermic

We can use the temperature of
Earth's interior for heating

Biomass

Rests of trunks generate energy or
heat

Another resources

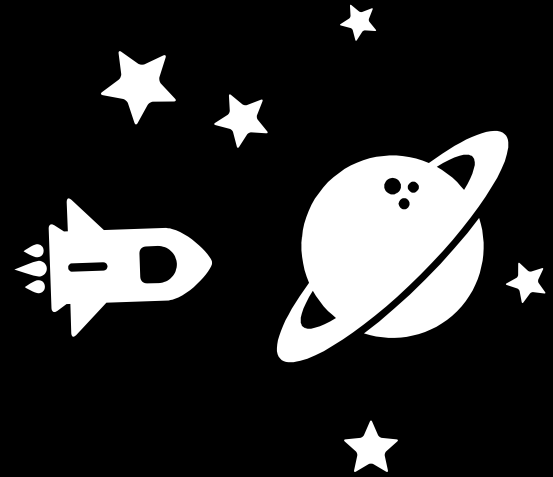
Small plants generate hot water

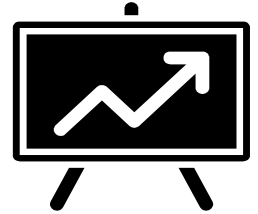
Organic waste (food and excrements)

↓
Plant

↓
Biogas

↓
Cook





Cities Contaminated

Saudi Arabia

Things like breathe are very dangerous due to the particles produced by sand storms, traffic and industrial pollution

Singapour

This city produces so much products
Now, it hasn't got space and people decide burn it, but it produces CO₂.
They are searching solutions for this.



The city incinerates about 8.2 tons of garbage each day which creates over 2,500 MKh of energy that can power about 900 homes within the city.