

# WaldHaus Freiburg



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# WaldHaus Freiburg

An insight to WaldHaus and  
its offer



# Goals of the foundation WaldHaus Freiburg

- Education for sustainable development:

Experience – discover – understand

- Mission: interdisciplinary, intercultural, inclusive

# What we do

- Environmental education
  - for children age 5-18, young adults, adults
  - for school classes, adults and families
  - in the forest, our training rooms and in our wood workshop
  - during school time, holidays and on the weekends
  - through education programs (1-10 days), an annual program, group offers, children's birthdays and our exhibitions

# What we do

- Economical business operation
  - Rental of out conference room
  - Cafeteria
  - Shop

# WaldHaus in numbers

- 30.000 - 40.000 visitors yearly
- about 90 events through annual program
- about 50 weeks of different projects each year
- more than 200 daily projects for school classes
- about 80 children's birthdays
- team of 15 part time employees (+10 mini jobs), 3 volunteers and freelancers

# Sponsors

- Stadt Freiburg (Forstamt, ASB, AKI, u.a.)
- Landesforstverwaltung und Forst BW
- Land Baden-Württemberg/RP Freiburg
- Badenova AG&Ko.KG
- Stiftung Kinderland Baden-Württemberg
- Heidehof-Stiftung
- Eugen Martin Stiftung
- ASF GmbH
- Waisenhausstiftung, Geschwister Staeb Stiftung, pro juventute
- Naturpark Südschwarzwald
- Sparkasse Freiburg/Nördlicher Breisgau u.a.

# Cooperation partners

- Stadt Freiburg
- Observatoire de la nature in Colmar
- Albert-Ludwigs-Universität Freiburg
- Pädagogische Hochschule Freiburg
- Evangelische Hochschule Freiburg
- FVA Freiburg
- Stoll-Vita Stiftung
- Jägervereinigung Freiburg
- Ökostation Freiburg
- Biosphärengebiet Schwarzwald
- Schutzgemeinschaft Deutscher Wald uvm.

# WaldKlimaRaum

Programs for climate change  
and protection

# WaldKlimaRaum - The Idea

- ▶ Offer created to...
  - ▶ raise awareness for climate change, its protection and the role of each of us
  - ▶ Understand the complex topic through experiments, games and work assignments in the forest
  - ▶ Get to know the forest as habitat and its economic, recreational and protecting function
  - ▶ Promote closeness to nature
- ▶ Offer designed based on principles of education for sustainable development:
  - ▶ Convey action competence and self-efficacy
  - ▶ Access via chances not problems
  - ▶ Develop a positive vision for the future and own goals
  - ▶ Convey emotional competence for dealing with climate change

# Pedagogical concept of the WaldKlimaRaum - Overview

- ▶ Multiple day offers for pupils 6th grade and older
  - ▶ All offers convey basics of climate change and protection always connected with the forest
  - ▶ Different focus depending on the program:
    - ▶ Promote closeness to nature by tent camp in the black forest
    - ▶ Planning of own climate project
    - ▶ Active contribution to climate protection by work assignment
    - ▶ Creative visions for the future by shooting a video clip
- ▶ Trainings for teachers in order to integrate climate education and education for sustainable development into everyday school life
- ▶ Offers for the annual program for adults and families

# WaldKlimaRaum - Key elements

## ▶ Indoor:

- ▶ New wood building as example for regional and sustainable dealing with renewable resources
- ▶ Climate model „tiny forest“ in order to illustrate the greenhouse effect
- ▶ Origin of hard & brown coal as of petroleum and gas via „GeoWindow“
- ▶ Escape-Room, which illustrates current situation and possibilities to act climate friendly
- ▶ Interactive wall printed with a world map for business games, showing different types of forest, currents and wind, flow of trade and more



# Der WaldKlimaRaum - Key elements

## ▶ Outdoor:

- ▶ Surrounding forest to show climate change in the city's forest, forest management, sustainable wood economy and use, biodiversity in the forest
- ▶ Forest garden (Trees, shrubs and forest typical plants which live in synergy of multilayered ecosystems)
- ▶ Weather station and mobile CO<sub>2</sub>- measuring instrument
- ▶ Solar panels with scoreboard to make renewable energy a topic

And...

... the Marteloscope by EFI!

# Marteloscope

Integrating the  
Marteloscope into climate  
protection programs

# Why we want to use the Marteloscope in education

- ▶ Vivid possibility for students to experience the forest in its diverse functions
- ▶ Up to date tool which connects daily life of students with the environmental program
- ▶ Helps to make the participants look closely at the surrounding trees
- ▶ Giving insight into complex working field of foresters taking the forest into consideration as habitat, recreational and economic area
- ▶ Collected data by scientists proves data trustworthy

# How we can integrate the Marteloscope in education

- ▶ Showing long growing periods of trees
- ▶ Giving insight into the forest's ecosystem
- ▶ Creating an idea of a tree's capacity to store CO<sub>2</sub>
- ▶ Connecting measured values in the Marteloscope with CO<sub>2</sub> amounts caused by daily consumption decisions
- ▶ Start discussions about consequences of decisions taken on the habitat's value, income or CO<sub>2</sub> reservoir

# Example of a task for students in the Marteloscope

„Your school wants to build a little hut and needs 4 cubic meter wood for that purpose. The stock in its value as a habitat is supposed to be disturbed as little as possible. Additionally your school is short on money. Which trees do you harvest? How much CO<sub>2</sub> is saved in this wood? Which material could be used instead of wood, what consequence for the CO<sub>2</sub> balance would that include?“

➔ Students have to....

- .... tackle with amounts of wood
- .... look closely into the recorded microhabitats
- .... Get to know that there are different qualities of wood
- .... Check how much CO<sub>2</sub> is saved in wood and how much CO<sub>2</sub> is caused by using f.e. concrete for building
- .... Make a decision on their group

# Thank you for your attention!

