

## Partners & Sponsors

We are looking for partners & sponsors to

- promote kitesurfing as a medium of outdoor education
- inform on clean energy and airborne wind energy progress
- identify core skills and develop curricula for technical training
- initiate new integrative research projects
- sponsor students' field trips in technical and outdoor education

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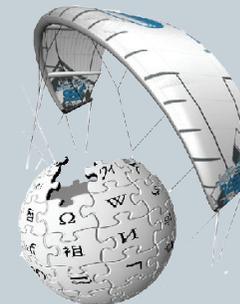


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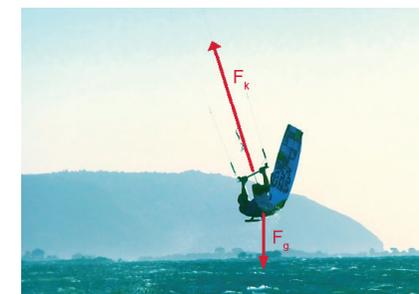
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## Kite & Tech



How can the fascinating experience of kitesurfing be integrated into school curricula and as well contribute to the preparation of students for their future working world?



# Kite & Tech

## Combining outdoor sports & education with technical knowledge and media skills

“Kite & Tech” links experience and sports with specialized theory. The guiding theme is the kite with its manifold applications in sports and technology. “Kite & Tech” combines two areas that usually only exist independently of one another – either in leisure time or when acquiring occupational skills.

A wide range of natural, technical and social areas of knowledge are involved in kite-flying and kitesurfing. Thus, we developed the following central questions:

- How does a kite fly? Why do certain steering movements create certain effects? Fundamental knowledge of **aerodynamics** and **mechanics** explain these circumstances.
- Which natural conditions must be considered? **Meteorology** is useful when assessing objective surroundings, whilst **biomechanics** helps us to understand more subjective preconditions.
- What **economic** and **social relevance** has the knowledge of kites already achieved? What are the **historical roots**?
- Offshore shipping and power generation are new applications of **regenerative energy use** with kites. How does this work, and what are the prospects of these developments for science, economy and education?

*„It's a great feeling to be in line with the elements wind and water!“*

## Kitesurfing – the fascinating sport as a medium of outdoor education

Kitesurfing as a medium of outdoor education aims at improving physical fitness, developing teamwork & leadership skills (social awareness) and stresses the awareness for environmental issues. It addresses and involves all facets of human behavior: cognition and action, physical and emotional experience. This experiential learning process supports the transfer of the outdoor experiences into everyday life.

These outdoor education objectives are combined with technical and methodological competencies as well as media skills.

This integrative approach is moderated by the research team “Technology & Outdoor Education” at the Institute of Teacher Training for Vocational Education IBL at Münster University of Applied Sciences [en.fh-muenster.de/ibl/projekte/erlebnispaedagogik.php](http://en.fh-muenster.de/ibl/projekte/erlebnispaedagogik.php)

It is supported by partners in business, education and science.

## Educational Projects

Our Kite & Tech projects are usually held over three phases

- 1) First of all, preparation and familiarisation is undertaken within educational seminars at university or within technical lessons at school. Participants select a field of their interest and work on it in groups. New ideas and concepts are initially communicated in the internal wiki domain.
- 2) The second phase involves an excursion where the basic knowledge generated is broadened by experiential learning and expanded to the field of sports. Hereby, the diverse possibilities offered by the new learning location are exploited. In collaboration with a professional kite school, an introduction is given to the theory and practice of kitesurfing and kite-flying. This sporting experience helps to deepen the theoretical knowledge of the various subject matters the students dealt with in the first phase. Also, they are encouraged to improve their sporting and outdoor education skills.
- 3) In the third and final phase, group work is completed and new results are transferred to the public wiki domain.

Our interactive online platform (WIKI) “Kite & Tech” [www.ibl.fh-muenster.de/en.kitewiki/](http://www.ibl.fh-muenster.de/en.kitewiki/) is the medium for the students’ collaboration and knowledge exchange in all phases.