



NACHHALTIGwirtschaften



# Colors of Nature

natural dyes in practice

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## Project partners

- Austrian Institute of Ecology
- Institute for Textile Chemistry and Textile Physics
- Colors of Nature / Farben der Natur GmbH, NÖ
- Leinenweberei Viehböck, OÖ
- Fussenegger Textil Veredelung GmbH, V
- David Fussenegger Textil GmbH, V
- Schöller Hard GmbH, V
- Biotextil.at, NÖ
- Glücksstoff, D



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## History

- 2001 Produktion von Farbstoff liefernden Pflanzen in Österreich und ihre Nutzung in der Textilindustrie
- **2003 Farb & Stoff** Nachhaltige Entwicklung durch neue Kooperationen und Prozesse
- 2005 Trademark **Farb & Stoff** : von der Idee zum marktfähigen Produkt
- 2007 Riskmin: Risikominimierung entlang der Wertschöpfungskette vom pflanzlichen Rohstoff zum Farbstoff




## The missing link

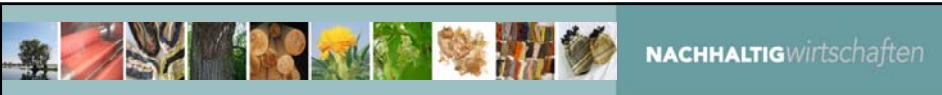
- The textile dyeing industry is used to buy pigments from chemical industry
- Colors of Nature / Farben der Natur GmbH was established this year - the company is a spin off of the projects the Austrian Institute of Ecology and the Institute for Textile Chemistry and Textile Physics in Dornbirn have carried out since 2000. Besides the 2 research institutes 3 organic farmers are partner in the company as well as some individuals.
- In the now started accompanying research project, first prototypes of natural colored textiles will be developed, simultaneous with developing the logistic and technology of supply and preparation of the natural dye at an industrial scale.






## Goals of the project

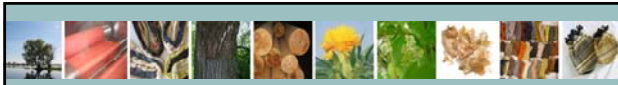
- Application of natural dyes in full scale textile dyeing processes
- Definition of requirements from the application of natural dyes in full scale textile dyeing processes :
  - Guarantee the availability of material
  - Definition of quality standards, guarantee colour quality and fastness (light, wet, wash)
- Optimization of storage conditions
- Preparation and packaging of the dye stuff
- Investigate the market
- Prepare information for textile dye houses

## Ecologically efficient & sustainable

- **Use of residues from food processing and saw mills**
- **Cultivation of dye plants by organic farming**
- **Extraction of dye at the dye house saves energy**
- **Use of non toxic mordant results in non toxic waste water and only biodegradable waste**
- **The supply of raw material and dye stuff can be sustainable if all activities can be carried without long distance transport**
- **Developing of extraction methods using only renewable energy in order to produce a natural dye extract is a goal for the further development of CoN**





Thank you

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