



Education for Sustainable Development (ESD) and Environmental Education (EE) in Bavaria

the tasks of the department „Umweltbildung, Bildung zur Nachhaltigkeit“,
Bavarian State Ministry of the Environment and Consumer Protection
(StMUV)

Tuesday Discussion, Rachel Carson Center, January the 31st 2017



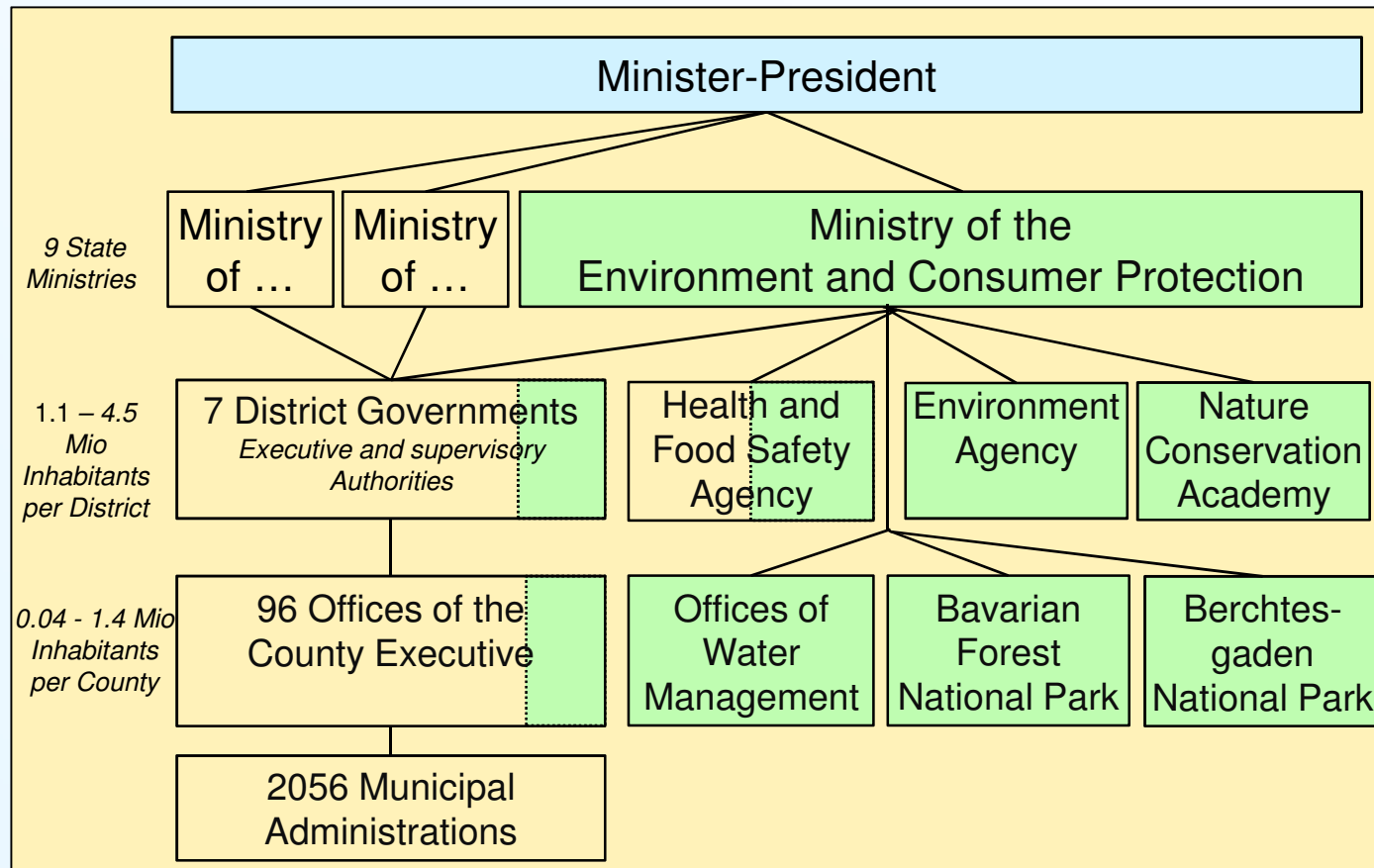
Education for Sustainable Development (ESD) and Environmental Education (EE)

„There ist no alternative to
ESD “



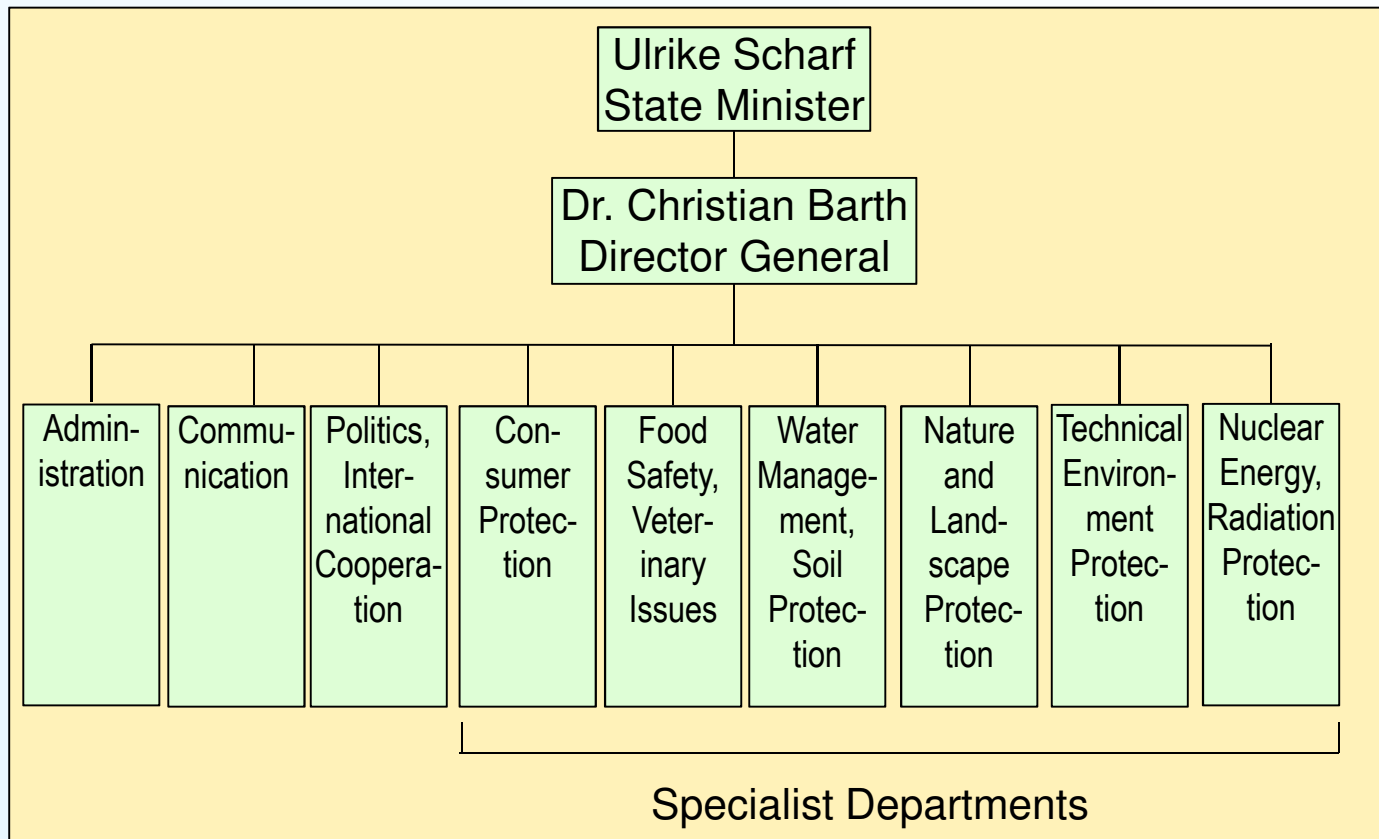


Bavarian State Government





Structure and Tasks of the Ministry





ESD and EE in the StMUV

Bayerisches Staatsministerium für Umwelt und Verbraucherschutz

Dienstgebäude: Rosenkavalierplatz 2
81925 München
Postanschrift: Postfach 810140
81901 München
Rufnummer: +49 89 9214-0 (Durchwahl)
Telefax: +49 89 9214-2266
E-Mail: poststelle@stmuv.bayern.de
Internet: http://www.stmuv.bayern.de

Organisationsplan 01.01.2017

Abteilung 1 Zentrale Aufgaben und Stabsstellen MDgt Dr. Witzmann 2121 V. LMR Winkler R. 3233		Abteilung 2 Kommunikation und Nachrichtendienst LMR Dr. Bogenrieder 3375 V. LMR Perold 3249 LMR Perold 2899		Abteilung 3 Politik und Recht, Europäische Zusammenarbeit MDgt Klug 2432 V. LMR Niefen 3375 V. LMR Frit 2387		Abteilung 4 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MDgt Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359 V. LMR Seid 2359		Abteilung 5 Wasserwirtschaft und Bodenkunde MDgt Prof. Dr.-Ing. Grunwaldt 4300 V. LMR Englmann 4302 V. LMR Englmann 4300		Abteilung 6 Naturschutz und Landwirtschaft MDgt Kretzmayr 2507 V. LMR Seid 2543 V. LMR Seid 2543		Abteilung 7 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MDgt Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Abteilung 8 Kernenergie, Strahlenschutz, Bergbau MDgt Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 21 Personalmanagement MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 22 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 23 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 24 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 25 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 26 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 27 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 28 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 31 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 32 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 33 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 34 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 35 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 36 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 37 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 38 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 41 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 42 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 43 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 44 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 45 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 46 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 47 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 48 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 51 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 52 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 53 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 54 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 55 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 56 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 57 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 58 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 61 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 62 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 63 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 64 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 65 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 66 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 67 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 68 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 71 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 72 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 73 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 74 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 75 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 76 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 77 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 78 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 81 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 82 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 83 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 84 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 85 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 86 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 87 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 88 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 91 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 92 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 93 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 94 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 95 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 96 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 97 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 98 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	
Referat 101 Grundstücke MR Dr. Zeller R. 2223 V. MR Hoffmann 2366		Referat 102 Interne Dienstleistungen, behördliches Verschickungswesen MR Koch 2545 V. MR Bager 2129		Referat 103 Haushalt MR Dr. Geyrhofer 3100 V. MR Seid 2150		Referat 104 Ressourcenmanagement LMR Winkler R. 3233 V. MR Winkler 3249		Referat 105 Gesamtheitlicher Verbraucher- schutz, Lebensmittelsicherheit und Veterinärwesen MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 106 Wasserwirtschaft und Bodenkunde MR Dr. Zillmer 3600 V. LMR Seid 2405 V. LMR Seid 2359		Referat 107 Klimaschutz, Umweltrecht, Kreislaufwirtschaft MR Dr. Kratzer 3151 V. LMR Seid 3151 V. LMR Seid 3151		Referat 108 Kernenergie, Strahlenschutz, Bergbau MR Dr. Köhler 3400 V. LMR Dr. Köhler 3400 V. LMR Köhler 3400	

The first Ministry for the
Environment in
Germany, founded in
1970



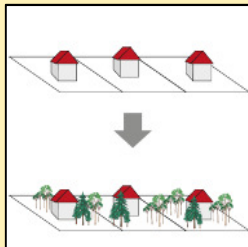
Nature Protection and Landscape Management



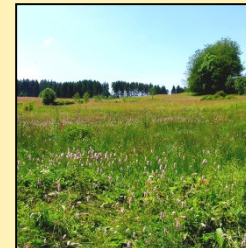
Landscape
Management



Natural and
National Parks



Nature Impact
Regulation



Biotope
Networks



Protection of
Endangered Species



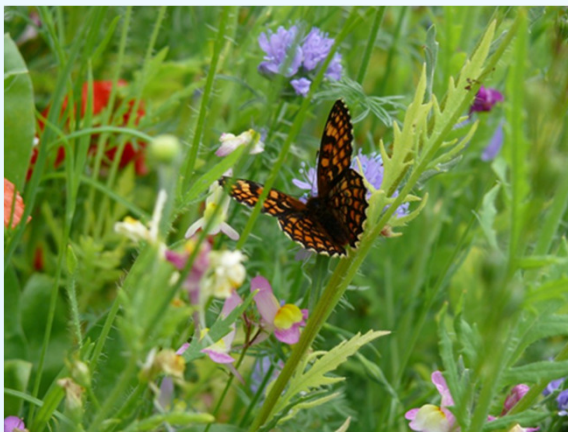
Sustainability – an empty-word?

Sustainability has become a comprehensive or broad model for a lot of different aspects of life.

That means to pursue different, sometimes opposing aims.

The task is, to bunch a lot of processes to a new system or arrangement while always keep in sight the ethically central idea.

(Quelle: publication „Aus dem Wald in die Welt“, LWF, Zentrum Wald-Forst-Holz Weihenstephan und Verein für Nachhaltigkeit e. V., 2016)



„Quidquid agis, prudenter agas et
respice finem“

„What ever you do, do it wise
and think for the end“

from antique Greek poet Äsops



agreements of Education for Sustainable Development

- In the 1980is: UN → model of sustainable development (Brundtland-report, birth certificate of modern reasoning about sustainability)
- 2003 - 2014 UNESCO: UN-decade education for sustainable development
- 2015 - 2019 UNESCO: world-action-programm education for sustainable development (WAP)
- 09/2000 UN: New York, 8 millenium goals (MDG`s), basis 1990, aim 2025
- 09/2015 UN: New York, Agenda 2030 = „world-future-contract“, 17 sustainable development goals (SDG`s)



world-action-programm esd





Great Challenges / situation in 2017

- get on with effects of an work against climate change
- get on with shortage of natural recources
- reach sucessful integration of refugees

These seems to be the greatest challenges of our current society.



Transformation towards a sustainable society

a society- and economysystem can be denoted as sustainable, if for all people – the ones who live today an the future generations –

- a fulfilled an good life,
- free from material distress and
- in freedom with each other and the nature

is guaranteed.

Is that given today?



Sustainable Development

sustainable lifestyle and economy:

- politics
- society
- each individual



Sustainable Development concerns:

- ecology
- économie
- social affairs



ESD / EE

What has to be done and what is still being done?

- create awareness for sustainability
- mediate „Gestaltungskompetenzen“ (= configuration competences, e.g. to scrutinize, to balance sth., to assess, to participate)
- motivate to get in action and create





How can ESD an EE be mediated?

- brain



- heart



- hand





Enzyklika „Laudato si’“, pope Franziskus 2015

„The young people urge a change. They ask themselves, how it is possible to seek the creation of a better future, without thinking of the ecological crises and the suffering of outsiders.“

Islamic declaration to climate change, Istanbul 2015

Scholars of 20 different countries adopted this declaration calling the oil- and industrial nations to change to the use of renewable energies completely until 2050.

Each single Muslim is asked to contribute to the rescue of creation by leading a sustainable lifestyle.



ESD an EE in the Bavarian Constitution

- **Bavarian Constitution** (version from 1984)
article 131 „aims of education“

...
(2) **Highest aims of education are** awe of god, respect of religious conviction and human dignity, self-command, sense and joyfulness of responsibility, helpfulness and openness for the true, the good and the beauty and a **sense of responsibility for nature and environment.**

- **schools**
guidelines for environmental education at schools in Bavaria from January the 22nd 2003



dual system – successful partnerships

Non-governmental institutions

- associations for nature conservation (BN, LBV)
- other associations (VHS)
- churches
- Bayerischer Jugendring
- Jugendsozialarbeit in Bayern
- Eine Welt Netzwerk Bayern
- Arbeitsgemeinschaft Natur- und Umweltbildung (ANU)

Ministries

- Environment and Consumer Protection

With support of:

- Labor, Social affairs, Family and Integration
- Nutrition, Agriculture and Forestmanagement
- Education and Cultural affairs, Science and Art





institutions, acteurs and support

- currently 54 public accredited Umweltstationen all over Bavaria (operated from e.g. LBV, BN, towns, communities)
- further offerers and acteurs of ESD and EE (associations for nature conservation, networks, education houses, communities,)



How can they get support by the government?

- submit project applications
- panel of expertes decides which projects will be supported financially by the StMUV
- to qualify for quality label and take part in activities





marketing and qualitymanagement – quality label „Umweltbildung.Bayern“



- since 2006 partner-like collaboration of 5 public and non-public institutions



- creating quality label „Umweltbildung.Bayern“ with fix quality criterias and at the moment 130 members (Qualitätssiegelträger)
- members offer about 31.000 events/year and that way reach almost 800.000 kids, teenagers and adults, who take part

aims:

- rising popularity of ESD/EE in the public
- qualification for staff members in ESD/EE
- until 2020: each year about 1.2 Mio. kids, teenagers and adults taking part in events and activities/offers in Bavaria

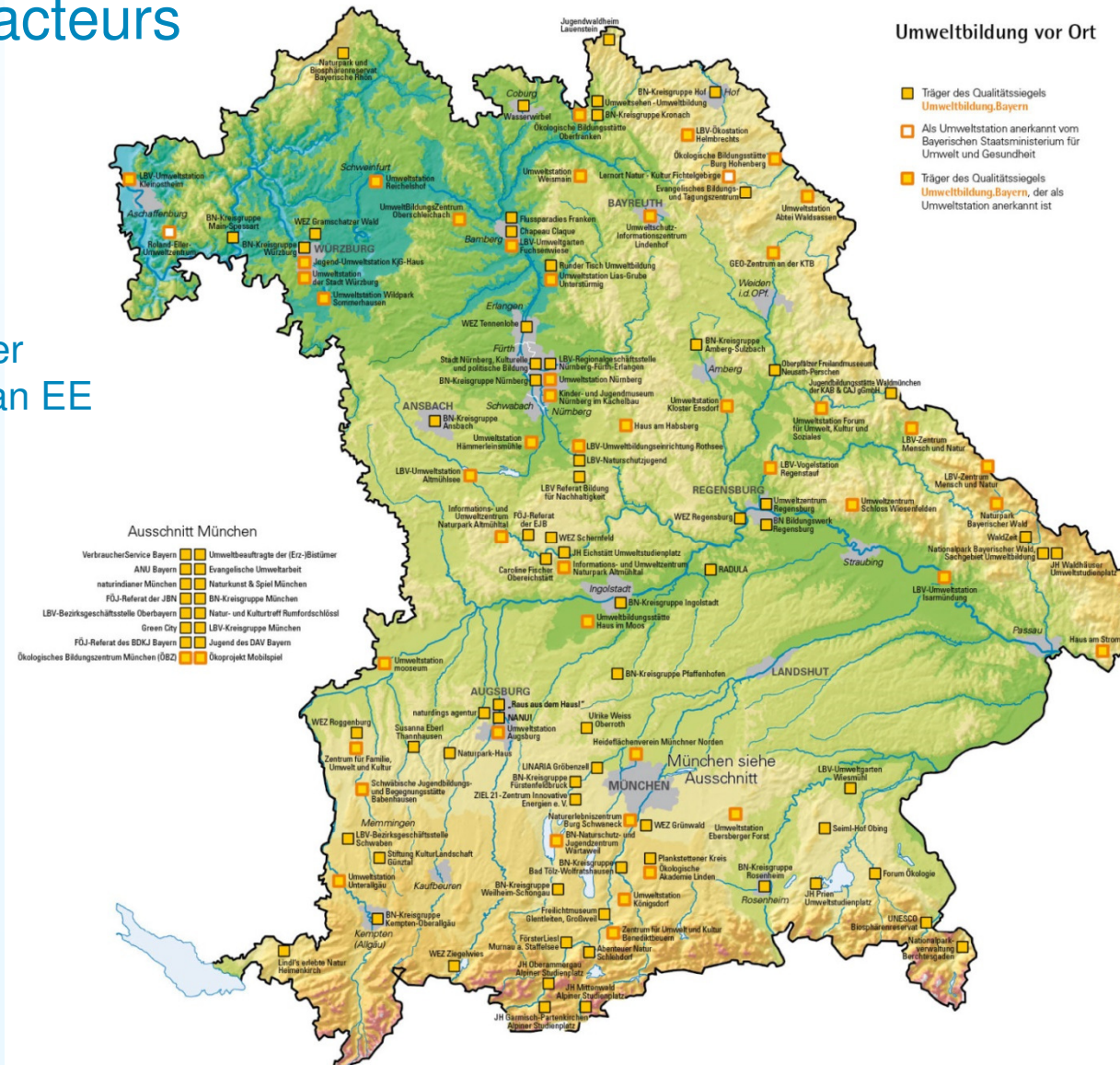
Conference: http://www.umweltbildung.bayern.de/nachhaltigkeit_lernen/zukunft_gestalten/index.htm



geographical overview of institutions and actors in Bavaria

Bayerisches Staatsministerium für
Umwelt und Verbraucherschutz

Umweltstationen und other
institutions offering ESD an EE
with quality label





target groups and supported projects

Extracurricular sector:

- **Nursery, playschool, after school care:** „ÖkoKids – KindertageseinRICHTUNG NACHHALTIGKEIT“ initiated by LBV
- **Teenagers/Young:** „BNE in der Jugendsozialarbeit“ (ESD in the youth social work) initiated by Jugendsozialarbeit in Bayern e.V., Freiwilliges Ökologisches Jahr (FÖJ, voluntarily ecological year) in cooperation with the churches and Bund Naturschutz in Bayern e.V., ...
- **Adults:** projects initiated by VHS, IHK
- **all age groups:** nature educations trails, campaigns (e.g. „Wertvoller Leben“ (comming to a sustainable lifestyle)



target groups and supported projects

- **schools:** „Umweltschule in Europa“ (environmental school in Europe), planed is „BNE an beruflichen Schulen“ (ESD at tradeschools), all initiated by Landesbunde für Vogelschutz Bayern e.V. (LBV)
- **Universities and Universities of Applied Science:** „Nachhaltige Hochschule: Kriterien zur Bestandsaufnahme“ initiated by the University Eichstätt-Ingolstadt and the LMU and in cooperation with the Netzwerk „Hochschule und Nachhaltigkeit Bayern“



„ÖkoKids – KindertageseinRICHTUNG NACHHALTIGKEIT“



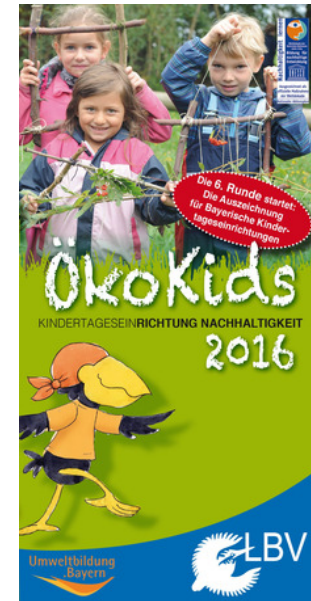
- KiTas develop individual projects relevant to ESD
- projects should last for a longer time and involve as many parties as possible (e.g. kids, nurturer/educator, parents, communities)
- aim is, to let kids decide and create as much and free as possible
- assesment by a jury of experts and honouring



ÖkoKids – KindertageseinRICHTUNG NACHHALTIGKEIT - examples for projects

- work about the energy consumption at the Kita and at home
- upcycling-projects (creative work with rubbish)
- investigate animals and work about their needs, their relevance for the ecological balance
- learning about other cultures, possibilities to integrate migrants
- ...

<http://www.lbv.de/lernen-erleben/fruehkindliche-bildung/oekokids.html>





Freiwilliges Ökologisches Jahr (FÖJ) – voluntarily ecological year

What? Working voluntarily for one year in an institution of nature- oder environmentalprotection, ESD/EE:

- ESD/EE with children, young/teenagers, adults
- foster biotope, mapping- and protective measures
- working in a protective measures for threatened plants and animals
- working in ecological agriculture or in forestry commission offices
- work at environmental authorities or associations
- work in wood-kindergarden



Who? young people from 16 - 27 after
fulfilling their compulsory education

How many? about 200 FÖJ-jobs (Einsatzstellen) in
Bavaria



„Umweltschule in Europa – Internationale Agenda 21-Schule“



- schools introduce their profile concerning environmental activities
 - special projects and actions of the school-year and the -classes
 - assessment by a jury of experts and honouring
-
- world-wide and meanwhile on all continents represented project (started in 1994)
 - part of world-wide *Eco-School-Network of the Foundation for Environmental Education (FEE)*
 - school year 2015/2016: world-wide 63 countries with 49.000 schools, 800 schools in Germany, in Bavaria 320 schools got an honouring



„Umweltschule in Europa“ – examples for projects

- Near-natural design of school yard (growing herbs, built a pond, run a schoolgarden,...)
- look for and foster a biotope
- develop an own energy-saving-concept for school
- international partnerships with schools in developing countries
- selling of fair-trade material for school, fair-trade-recycling-paper
- planting and fostering trees
- regional, fair and ecological food at school
-

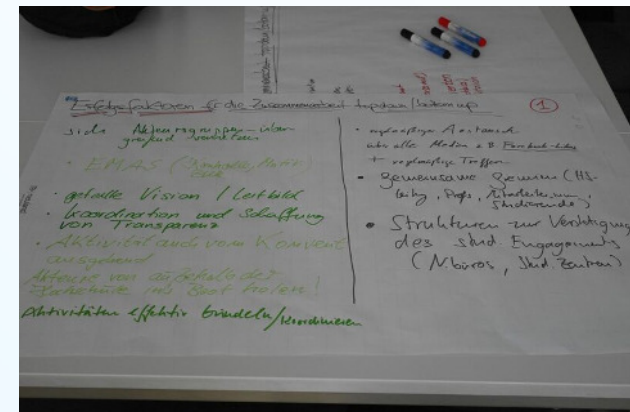


<http://www.umweltbildung.bayern.de/projekte/umweltschulen/index.htm>

„Universities/Universities of Applied Science and ESD/SD“

Intentions:

- push ESD and SD at bavarian Universities/Universities of Applied Science
- act in tight cooperation with „Netzwerk Hochschule und Nachhaltigkeit Bayern“ (e.g. network-meetings twice a year)
- act in continual communication with State Ministry for Education, and Culture affairs, Science and Art (create and improve suitable framework conditions)
- support networking between extra-scholar actors of ESD and EE with universities (e.g. cooperation projects)
- financial support of projects



<http://www.umweltbildung.bayern.de/projekte/hochschulen/index.htm>



current r&d-project

„Nachhaltige Hochschule: Kriterien zur Bestandsaufnahme“ („sustainable university: criteria to survey“)

realized kath. Universität Eichstätt-Ingolstadt (Frau Prof. Dr. Ingrid Hemmer, Lara Lütke-Spatz) together with LMU München (Prof. Dr. Markus Vogt) and in cooperation with „Netzwerk Hochschule und Nachhaltigkeit Bayern“

aims:

- develop a catalogue of criteria for offers, activities and measures of sustainability/sustainable development especially at Universities and Universities of Applied Science in Bavaria
- whole institutional approach (research, teaching, government, facility management, students, transfer/society)
- involve leaders, staff and students actively in process
- focus on starting an internal process rather than on reporting
- testing its practicability



for listening!

<http://www.umweltbildung.bayern.de/>