Importance of interdisciplinary education developing the necessary human capacities for tackling current and future challenges

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• External analysis and conclusion
• Interdisciplinary educational needs
• Tackling the current and future challenges
External analysis

Science as a driver for societal development
Understanding of science – facts, theories, ideas, …
Awareness - Trust – Beliefs
Societal and individual preparedness

Interdisciplinary knowledge: deep versus general (overarching) knowledge
Understanding of hazards, risks and safety
Promote understanding between the societal sectors
External analysis and conclusion

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There are significant competence provision needs related to sustainable development requiring inter- and/or multidisciplinary education and training
Interdisciplinary educational needs

The transformation towards a sustainable society requires everyone's skills and cooperation across subject boundaries.

Promote deep knowledge in at least one discipline supplemented by a knowledge base in one or two other disciplines

Understanding and interest in the own field of science being fitted into the common context to generate collaborations across individual competence area boundaries

Transdisciplinary insights and improved understanding of discipline languages

Acceptance and integration of external participation from working people from the official and private sectors into the academic courses
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We need a bottom-up approach not a top-down.
**Tackling the challenges**

Basic education of the role and prerequisites of science introduced in the mandatory school curricula

**Major** changes required in the academic educational system supporting transdisciplinary knowledge and widening the knowledge and understanding gained by higher vocational training

Our present academic system is **NOT** designed for the creation of a sustainable future, a **transformational educational change is required**; challenging but necessary

Work from, taking advantage of, what is in place at the universities

Join forces

Much more interuniversity courses; promoting critical mass of students and networking

Need of meeting places for knowledge and experience exchange