

World Library of Science

High Quality Science Education
for All Students

Overview for WSIS
Geneva, May 2012





Nature Publishing Group

A division of Macmillan Publishers Ltd (UK), Nature Publishing Group is one of the world's premier science publishers.

Publications include 30 journals from the flagship *Nature* to research journals such as *Nature Neuroscience* and *Nature Genetics*.

A global focus - divisions in U.S., China, India, Australia, Europe, and Latin America

Education division headquartered in Cambridge, Massachusetts, USA



Science Education in the Developing World: the 4 “I”s

1. Inspiration

- Prominent local scientists
- Exposure to high-performing environments
- Awareness of global issues

2. Information

- Learning materials
- Research literature
- News and policy updates
- Career planning

3. Instruction

- Trained teachers
- Educational technologies
- Tutoring / guidance

4. Infrastructure

- Laboratories
- IT access
- Safe learning environments
- Career paths

World Library of Science Addresses 3 “I”s

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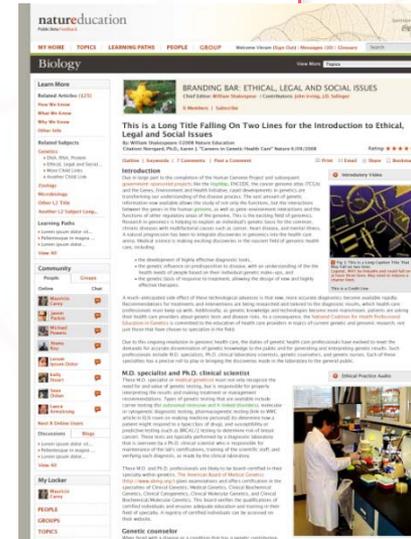
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World Library of Science

- Central resource containing 1000s of instructional modules in all topics of life and physical sciences at primary, secondary, and tertiary levels
- All content developed by science instructors in conjunction with reputable publishers, and subjected to thorough peer review process
- Material is combination of text, image, video, interactives, audio, and assessment
- News, policy updates, and special modules on topical issues (climate change, alternative energies)
- Classroom management tools include discussions, gradebooks, and assignments
- Networking with the global community of science, including instructors, students, and employers



WLoS in the Community

- Roll out by “training the trainer” . . . Key influencers and innovators in each region
- Next engagement is training teachers and administrators on use of materials
- Central advisory services providing guidance on how to design curriculum around World Library materials
- Community takes ownership for and contributes enhancements to Library



Broader Enablement of WLoS

- Attract and train top teachers through rewards and continual professional development
- Invest in infrastructure (including ICT access and career opportunities)
- Complementary science education initiatives



Key WLoS Challenges

- Financial sustainability
- Political sustainability
- Synergy
- Measurable impact

