

The International Commission on Education for Sustainable Development Practice as convened in 2007 to anal e e isting training and education programs for development practitioners and to make recommendations for the future. All Commission members have participated in their personal capacities.

Finding a lack of comprehensive cross-disciplinar programs to train practitioners in the full range of challenges of sustainable development, the Commission proposes a set of recommendations for a ne educational s stem focused on sustainable development practice. Central to the Commissions recommendations is the proposed Masteris in Development Practice program. With emphasis on polic and implementation, the MDP program is rooted in four main disciplines: health sciences, natural sciences and engineering, social sciences, and management.

The Commissions recommendations are designed to meet the orlds rapidling groing demand for highlight skilled sustainable development practitioners.

Commission Members

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Executive Summary

The inter oven challenges of sustainable development from e treme povert and disease control to climate change and ecos stem vulnerabilit can onl be resolved b leveraging kno ledge and skills from a range of disciplines. Meaningful progress re uires practical, ell-managed policies and programs that incorporate insights from the health sciences, natural sciences and social sciences.

Consider, for e ample, the man areas of core kno ledge necessar to effectivel address the challenge of combating chronic hunger in sub-Saharan Africa. I no ledge of agriculture is re uired to understand the bioph sical factors contributing to the stagnation of crop ields, and the technical solutions that could

uickl boost food output and provide a source of ualit nutrition in rural areas. Sasic kno ledge of environmental science is needed to manage the agricultural land environment and to understand its interactions ith climate change. In order to promote nutrition and labor productivit among farmers and to ght the parasites that contribute to under-nourishment, kno ledge of health, nutrition and disease control is re uired. Core kno ledge of engineering is re uired to understand the fundamental infrastructure necessar to support energ, irrigation, storage, transportation and communications s stems. To ensure both farm- and macroscale polic solutions are economicall sustainable, kno ledge of economics is re uired to design long-term strategies for overcoming the povert trap. Political science is re uired to understand the social promoters and inhibitors of investing in rural areas. I no ledge of anthropolog is re uired to ensure that priorities and innovations are relevant and manageable in local conte_ts. Participator planning skills are necessar to ensure multi-stakeholder design of solutions, hile at the same time management and administration skills are necessar to promote institutional development at the local and national level.

Cruciall, none of these individual areas of kno ledge is sufficient on its oin to solve the challenge of hunger all are necessar. The same need for multi-disciplinar problem solving arises across a range of developing-countripolic challenges, such as disease control, ater management, energi service deliver, and climate change adaptation and mitigation.

It remains an unresolved paradox that the parameters for polic making in all sectors including education, health and the environment are often set b

nance ministries and other po erful nancial institutions that tend to have limited kno ledge of the sectors hose outcomes the decide. Finance of cials are t picall classroom-trained in the theories of economics ith insuf cient background for evaluating the absolute or relative merits of a plan to control a disease, manage an ecos stem or deliver an energ service, for instance. With predominant urban life e_periences, such individuals ma encounter dif cult in understanding the distinct nature of rural problems in diverse cultural, economic, social and environmental settings. Furthermore, the t picall do not have much e_posure to the groundlevel practicalities of polic management and pro ect implementation. et the conse uences are of the highest order hen decisions affect, and sometimes even cost, millions of lives at a time.

Fe development practitioners are currentl prepared to design and implement integrated solutions that ould promote sustainable development. Even ithin development-related academic programs, individual disciplines tend to value in ard-looking speciali ation rather than out ard-looking problem solving, often discouraging practical connections across communities of e pertise. Trained ithin the current s stem, professionals rarel have the background necessar to conduct effective cross-disciplinar polic management or problem solving.

The International Commission on Education for Sustainable Development Practice, supported b the ohn D. and Catherine T. MacArthur Foundation and based at The Earth Institute at Columbia niversit, as established in earl 2007 to identif the core cross-disciplinar educational needs to support problem solving in the realm of sustainable development. The Commission ork is anchored in an understanding that professionals orking in the eld of sustainable development hether in intergovernmental organi ations, developing-countr ministries, developed-countr



Need for "Generalist" Sustainable Development Practitioners

for course-related eld ork or internships remain rare. The Commission nds that hile e_jsting degree programs ma offer some subset of the re uired skills, there are no programs that s stematicall provide students ith the relevant skills and kno ledge in health sciences, natural sciences and engineering, social sciences, and management, hile developing practical skills through eld-based training.

Lack of Appropriate Training Programs for Life-long Learning

Mirroring the lack of degree programs focused on cross-disciplinar learning, development professionals have almost no opportunities for refreshing and upgrading relevant skills throughout their careers. E ecutive education programs t picall focus on management techni ues rather than substantive training. In addition, training programs ithin organi ations orking in sustainable development generall do not provide staff and management ith cross-disciplinar learning opportunities or re uirements.

In order to succeed in the practice of sustainable development, professionals must be trained in a basic set of competencies that integrate cross-disciplinar kno ledge for practical problem solving ith management and leadership skills for effective implementation. With the aim of supporting future generations of professionals as ell as those currentl orking in the sphere of sustainable development, the Commission makes the follo ing recommendations.

1. Establish the Core Competencies of the Sustainable Development <u>Practitioner</u>

In consultation ith a broad range of development practitioners, the Commission has identi ed fundamental core competencies, essential kno ledge, skills

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Health Sciences nutrition, population sciences and reproductive health, basic epidemiolog of infectious and non-infectious disease, health polic , health s stem design and management

Natural Sciences and Engineering agriculture, forestr and sher management, ater management, energ, engineering, environment and climate science

Social Sciences anthropolog, economics, education, politics and international political economies, statistics

Management project design and management, budget planning and nancial management, commodities management, communication and negotiations, critical self-rejection, geographic information s stems and decision making tools, institutional resource and human resource management, information management s stems and design

Practical learning through projects, exercises and case studies: To support and enrich the core MDP curriculum, the program ould

integrate a variet of teaching and learning resources including practical, e_periential learning through cross-disciplinar case studies and group e_ercises.

Global Learning Resources for Sustainable Development

Practice: Shared open-source, curricula, global courses, communication portals for students and facult, eb-based collaborative activities, and other learning resources ould enhance the MDP program at universities around the orld b providing curricular support as ell as real-time engagement in practical, cross-institutional learning and kno ledge sharing.

MDP Network: A vibrant net ork of universities, development agencies, research institutions and af liated organi ations ould participate in academic e changes, mentorship programs and curriculum development.

Field Training: Designed to build practical on the oblaskills, the MDP eld training program should include t o separate assignments lasting a total of sigmonths. Field training programs ill ork in coordination ith partner universities and local development organi ations to provide a holistic clinical training experience.

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Establishing eligibilit guidelines for partner MDP programs Ste arding relationships ith donors Assisting academic institutions in their preparation for MDP grant proposals

CONCLUSION

Through the course of its ork, the Commission has been able to help mobili e a global net ork of efforts that are alread providing momentum to its recommendations. There is clearly strong global demand for a cross-disciplinar education s stem to train the net generation of sustainable development practitioners. As this report goes to press, several universities are alread preparing their on plans to launch Masteris in Development Practice programs (see Appendi χ E. The verify rest group of students is scheduled to begin classes in August of 200. And the nell formed formed MDP Secretariat is alread at ork to support the global MDP net ork and the nell MDP degree programs.

The implementation of the Commission's recommendations ould be a fundamental step for ard for the practice of sustainable development. At the same time, the creation of ne education programs alone ill be insuf cient in affecting long-term change. Coordinated efforts to revise and e pand the ideas presented in this report ill be needed to respond to the d namic nature of sustainable development, and the evolving technologies that are empo ering ever-richer forms of global

communication and curriculum development. Innovative tools should continuall be developed to effectivel teach competencies and to measure and test competenc development.

In a fragile planet that re uires management of countless complex and delicate natural and social s stems, future generations ill re uire all the cross-disciplinar expertise that the can muster. A ctivating a vibrant net ork of academic institutions, development organi ations, research institutions, governments and donors to engage in cross-disciplinar problem solving on an ongoing basis, the Commission's recommendations are poised to pla a d namic and constructive role in advancing the long-term sustainable development on hich the orld depends.