

## SE Asia agroforestry capacity-building matrix

	<b>Research system</b> <i>Strategic, applied and adaptive research on agroforestry</i>	<b>Development system</b> <i>Farm- and community-level dissemination of agroforestry advances</i>	<b>Education system</b> <i>Long-term human resources development in agroforestry to meet stakeholders' needs</i>
<b>Project 5.1</b> <b>Group training in agroforestry</b>	<p><b>Problem</b> Scientists' research in agroforestry is constrained by lacking experiences, funds or methodologies</p> <p><b>Strategy</b> Training of scientists in NARS in specific agroforestry topics and research methodologies</p> <p><b>Present resources:</b> <i>1999: limited training resources available. For Vietnam the situation is better. (DSO: Training of some trainers; VACB: Training of scientists from Vietnam)</i> <i>2000 and beyond: poor</i></p> <p><b>Opportunities and needs</b> Agroforestry courses in key areas of ICRAF's research agenda should be developed. Additional funds critical.</p>	<p><b>Problem</b> Staff in the development system need to capture and transform research results into their development agenda.</p> <p><b>Strategy</b> Training of trainers in extension organizations and NGOs.</p> <p><b>Present resources</b> <i>1999: limited; DSO: Training of approximately 20 trainers in 1999</i> <i>2000-2002 poor</i></p> <p><b>Opportunities and needs</b> Develop training programmes in agroforestry specifically targeting the development system, and raise funds for these.</p>	<p><b>Problem</b> Lecturers require further training for effective teaching, and continuous updating to benefit from recent development in agroforestry research.</p> <p><b>Strategy</b> <b>Arrange training courses on agroforestry topics for teachers and trainers</b> Develop training capacity in national institutions</p> <p><b>Present resources</b> <i>1999: satisfactory</i> <i>2000-2002: poor</i> <i>(DSO: Training of approximately 20 teachers in 1999</i> <i>SEANAFE: Course costs for 10 lecturers per year during 1999-2002</i> <i>VACB: Participation of Vietnamese scientists in agroforestry training in 1998 and 1999)</i></p> <p><b>Opportunities and needs</b> Develop thematic or geographically focused agroforestry training courses. Additional funds required</p>

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<b>Project 5.2 Individual training in agroforestry</b>	<p><b>Problem</b> Universities have inadequate human and material resources to develop research capacity in agroforestry, particularly at graduate level.</p> <p><b>Strategy</b> Postgraduate fellowships Visiting scientist programmes</p> <p><b>Present resources</b> <i>1999-2002: A limited number of postgraduate fellows supported by various donors/projects; SEANAFE plans to support postgraduate students theses research, about 10 per year</i></p> <p><b>Opportunities and needs</b> Increase the number of fellowships available. Develop a visiting scientist scheme targeting key agroforestry researchers in the region.</p>	<p><b>Problem</b> Development workers are not adequately exposed to recent advances in agroforestry research</p> <p><b>Strategy</b> Exchange/visiting opportunities for development workers to visit or work at ICRAF sites. Develop partnership with like-minded organizations to increase impact.</p> <p><b>Present resources</b> <i>1999: Poor 2000 -2002: Poor</i></p> <p><b>Opportunities and needs</b> Identify the strategic needs for individual agroforestry training in extension organizations and NGOs. Develop a scheme for individual training particularly targeting the development system</p>	<p><b>Problem</b> Lecturers require further training for effective teaching, and continuous updating to benefit from recent development in agroforestry research. Postgraduate students' demand for agroforestry theses is not sufficiently met.</p> <p><b>Strategy</b> Support postgraduate students' theses research in agroforestry. Visiting lecturers' programme to expose lecturers to current ICRAF research.</p> <p><b>Present resources</b> <i>1999-2002: Limited funds available: (SEANAFE: 10 postgraduate theses grants and 10 exchange visits for lecturers arranged per year).</i></p> <p><b>Opportunities and needs</b> Develop a scheme for lecturers to work with ICRAF on a visiting scientist basis. Increase the number of students in postgraduate training in agroforestry</p>

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<b>Project 5.3 Agroforestry training materials</b>	<p><b>Problem</b> Research findings are not made available to users in an accessible format</p> <p><b>Strategy</b> Provide training in communication skills, including scientific writing and training materials production</p> <p><b>Present resources</b> 1999-2002: Poor</p> <p><b>Opportunities and needs</b> Strengthen scientist in NARS in communicating research results \\</p>	<p><b>Problem</b> There is a general shortage of relevant and high-quality training and information materials. Recent research results need to reach the development system effectively.</p> <p><b>Strategy</b> Assist the development system to capture and adapt recent advances in agroforestry research into information materials.</p> <p><b>Present resources</b> <i>1999: Poor</i> <i>2000-2002: Poor</i></p> <p><b>Opportunities and needs</b> Develop joint dissemination projects with NGOs and extension. Distribute to a wider audience available agroforestry materials</p>	<p><b>Problem</b> There is a general shortage of relevant and high-quality training materials, including textbooks, manuals, and case studies. Existing teaching materials require updating and translation.</p> <p><b>Strategy</b> Capture and adapt recent advances in agroforestry research into training materials Improve access to agroforestry training materials, including internet Develop links with publishers of agroforestry materials.</p> <p><b>Present resources</b> <i>1999: satisfactory to limited</i> <i>2000-2002: limited</i> <i>(DSO: 2 teaching materials production units to be established. Materials in support of the Training of Trainers course will be developed. A small library support.</i> <i>SEANAFE: Purchase and distribution of agroforestry teaching materials; translation to local languages</i> <i>VACB: Strengthening of libraries in key institutions in Vietnam)</i></p> <p><b>Opportunities and needs</b> General library support of basic agroforestry titles Specifically strengthen libraries in key institutions in several countries Develop information sharing mechanisms via internet</p>

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<b>Project 54</b> <b>Strengthening of agroforestry education and training</b>	<p><b>Problem</b> NARS capacity to supervise agroforestry students' research is limited.</p> <p><b>Strategy</b> Co-supervise agroforestry students (postgraduate, PhD)</p> <p><b>Present resources</b> 1999: limited 2000-2002: limited</p> <p><b>Opportunities and needs</b> Explore opportunities for increasing support postgraduate research collaboration with NARS. However, ICRAF's personnel resources could be a limiting factor.</p>	<p><b>Problem</b> Agroforestry training is hampered by inadequate or outdated curricula. The number and/or qualification of agroforestry teachers are poor.</p> <p><b>Strategy</b> Strengthen training capacity in extension organizations and NGOs Build strategic link with regional and national development programmes/projects</p> <p><b>Present resources</b> 1999: limited (DSD: Training of Trainers course) 2000-2002: poor</p> <p><b>Opportunities and needs</b> Extend the training of trainers course to the national level</p>	<p><b>Problem</b> Agroforestry education is hampered by inadequate or outdated curricula, lack of minimum standards, and obstacles to agroforestry curriculum development.</p> <p><b>Strategy</b> Promote inter-institutional collaboration, particularly a regional network for agroforestry education. Promote integrated approaches to land-use education and training Curriculum development</p> <p><b>Present resources</b> 1999: satisfactory 2000-2002: satisfactory (SEANAFE: Establishment of a regional network. Support to curriculum development. Involvement of policy makers)</p> <p><b>Opportunities and needs</b> Make SEANAFE operational</p>

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<b>Project 5.5</b> <b>Information for agroforestry research and development</b>	<p><b>Problem</b> The demand for agroforestry information in the region is not fully catered for. Information materials and research results published in the region need to reach a wider audience.</p> <p><b>Strategy</b> Develop links with active institutions for a two-way exchange of agroforestry information. Identify opportunities for translating and co-publishing materials Identify major agroforestry publications (journals, magazines, etc.) in the region</p> <p><b>Present resources</b> <i>1999: limited</i> <i>2000-2002: limited</i> <i>(Most of this work require little financial resources, an can be integrated in the daily work)</i></p> <p><b>Opportunities and needs</b> Develop a distribution point for ICRAF publications in the region. Conduct an inventory of active institutions and develop links with those.</p>	<p><b>Problem</b> Agroforestry research is developing quickly, and results need to be captured in information materials.</p> <p><b>Strategy</b> Publish current information in Agroforestry Today, brochures etc. Collate agroforestry literature, and exchange information.</p> <p><b>Present resources</b> <i>1999: limited</i> <i>2000-2002: limited</i></p> <p><b>Opportunities and needs</b> Brochures need to be available for major areas of research</p>	<p><b>Problem</b> Educational institutions have poorly stocked libraries to support agroforestry research and education.</p> <p><b>Strategy</b> Library support to universities and colleges Marketing of ICRAF's information services</p> <p><b>Present resources</b> <i>1999: limited</i> <i>2000-2002: limited</i> <i>(SEANAFE responds to some of the needs)</i></p> <p><b>Opportunities and needs</b> Internet provides promising opportunities for improving the availability to information. Substantial financial resources are needed to meet the needs for books and journals.</p>