

## Science and Technology

OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
<p>6-10 million job in 6 years (2004-2010)</p> <p>Globally competitive goods and services</p>	<p>Strengthening Human Capital</p>	<p>Improving basic science education and supporting talented Filipinos</p> <p>1. Expansion of Philippine Science High School (PSHS) system program</p> <p>2. Mathematics and Science Teachers Upgrading Program:</p> <ul style="list-style-type: none"> <li>• E-Training</li> <li>• Teachers' training on science and math investigations</li> <li>• Teacher training on new technologies in science and mathematics</li> <li>• Teacher Training on pedagogical content knowledge in science and mathematics (S&amp;M)</li> <li>• Teacher training on Robotics</li> <li>• Digital electronics camp with blended learning component</li> </ul>	<p>SY 2004-2005: 2,849 scholars            SY 2005-2006: 2,821 scholars            SY 2006-2007: 2,916 scholars            SY 2007-2008: 2,964 scholars            SY 2008-2009: 3,370 scholars</p> <p>412 teachers</p> <p>40 teachers</p> <p>96 teachers</p> <p>New training to be offered in 2008</p> <p>99 teachers</p> <p>DOST- ASTI has completed a prototype PIC-based micro controller kit. Testing is undergoing before mass production. Curricular materials</p>	<p>DOST-PSHS</p> <p>DOST-SEI</p>	<p>1 PSHS Campus</p> <p>SY 2009-2010: 3,567 scholars</p> <p>1,200 teachers</p> <p>120 teachers</p> <p>200 teachers</p> <p>1,200 teachers</p> <p>120 teachers</p> <p>510 micro controller kits</p>

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		<p>3. Improvement of the quality education through training on Meteorology, Climatology, Hydrology</p> <p>4. Strengthening S&amp;T Education at Philippine Atmospheric Geophysical Astronomical Services Administration (PAGASA) Planetarium</p> <ul style="list-style-type: none"> <li>• Acquisition of equipment for the new planetarium</li> </ul> <p>5. Management of the Philippine Science Heritage Center</p> <p>6. Other activities on improving the quality of basic education by Department of Education (DepEd) (<i>Refer to Chapter 18: Education</i>)</p> <p>Improving technical, scientific and engineering education</p>	<p>(electronics) are adapted for online dissemination. Training on Learning Management Systems specifically the Moodle-Based was conducted at the PSHS Main Campus</p> <p>Conduct seminars/workshops trainings for 121 science teachers</p> <p>Conduct 339 lectures for 58,935 students</p> <p>Upgraded equipment of planetarium at PAGASA Science Garden, Diliman, Quezon City</p> <p>249,120 visiting students/pupils</p>	<p>DOST-PAGASA</p> <p>DOST-PAGASA</p> <p>DOST-NAST</p>	<p>4 seminar workshops on meteorology, hydrology, astronomy and other related allied sciences for 128 science teachers</p> <p>Preventive maintenance of the facilities at PAGASA Science Garden</p> <p>249,120 visiting students/pupils</p>

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		1. Undergraduate Scholarship Program	<p>SY 2007-2008: 8,131 scholars funded of whom 1,667 have graduated</p> <p>SY 2008-2009: 11,350 scholars funded</p>	DOST-SEI	SY 2009-2010: 11,750 scholars funded and 1,380 scholars graduated
		2. Improving delivery of science programs for enhanced competency in teaching and learning in selected teacher education institution	<p>Provision of interface facility to the following Member institutions:</p> <ul style="list-style-type: none"> <li>– UP, Quezon City</li> <li>– UP National Institute of Science and Math Education Development, Quezon City</li> <li>– Western Mindanao State University, Zamboanga City</li> <li>– West Visayas State University, Iloilo City</li> <li>– Mindanano State University, Marawi City</li> </ul>	DOST-SEI	Program completed
		3. Mindanao Opportunities for Vitalized Education and Upgrading of Science (MOVE-UPS)	Preparatory activities for MOVE-UPS		<p>– Strengthen the capabilities of 60 Feeder Elementary School from Region 10 and ARMM for the PSHS Central Mindanao Campus through trainings, science camp, library and reference materials support, laboratory and ICT support, development of Aptitude Tests for science and math, and development of manual and handbooks for parents</p>

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		<p>Broadening access to life-long learning and skills upgrading opportunities</p> <ol style="list-style-type: none"> <li>1. Conduct of applied livelihood/technology courses</li> <li>2. Subsidized training for the poor</li> <li>3. DOST Technology Training Courses (DTTC)</li> <li>4. Strengthen the promotion of meteorology, hydrology, astronomy and other related allied sciences that includes disaster preparedness and prevention and hazard mitigation</li> </ol> <ul style="list-style-type: none"> <li>• Conduct of lecture on meteorology, hydrology, astronomy</li> </ul>	<p>Conducted 732 trainings/courses/fora, benefiting 8,912 participants/beneficiaries</p> <p>Conducted 65 courses/demos, benefiting 3,235 participants</p> <p>25 courses</p>	<p>DOST-TRC</p> <p>DOST-TRC</p> <p>DOST-TAPI</p> <p>DOST-PAGASA</p>	<p>and principals</p> <ul style="list-style-type: none"> <li>-60 principals of the 60 Feeder Elementary Schools trained for effective administration of their schools</li> <li>-240 science and math teachers trained</li> </ul> <p>Conduct 300 trainings/courses/fora for 9,000 participants/beneficiaries</p> <p>Conduct 150 courses/demos for 7,500 Participants 18 courses</p>

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		<p>and other related allied sciences that includes disaster preparedness and prevention and hazard mitigation</p> <ul style="list-style-type: none"> <li>• Telescoping/stargazing sessions and planetarium activities on astronomy</li> <li>• Integration of Weather, Climate, Flood and Astronomy in the elementary and high school levels curriculum</li> </ul> <p>5. Broadcast information materials production/dissemination</p> <p>6. Electronic library</p> <p>7. Hard library</p>	<p>238,050 participants</p> <p>189,647 visitors</p> <p>Collaborated with DepEd</p> <p>– 2 new video courses developed – 4 video courses updated and reformatted</p> <p>–8,390 titles uploaded (digital files PDF format) –168 titles uploaded consigned materials (video clips) –4 reference databases posted –6,500 E-library users/ subscribers served</p> <p>–23,728 titles indexed/ catalogued (CDS/ISIS library) –2,346 databank clients served</p>	<p>DOST-TRC</p> <p>DOST-TRC</p> <p>DOST-TRC</p>	<p>100,000 participants expected per annum</p> <p>100,000 visitors</p> <p>Memorandum of Agreement for integration of the areas mentioned forged</p> <p>–15 new video courses developed –15 video courses updated and reformatted</p> <p>–11,000 titles uploaded (digital files PDF format) –6,000 titles uploaded consigned materials (video clips) –4 reference databases posted –15,000 E-library users/ subscribers served</p> <p>–26,000 titles indexed/ catalogued (CDS/ISIS library) - 28,000 databank clients served</p>

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		<p>8. Technobank</p> <p>9. Other activities on improving skills development and trainings by TESDA (<i>Refer to Chapter 18: Education</i>)</p> <p>Expanding scientific research and graduate study:</p> <p>1. Support to university-based research and development (R&amp;D)</p> <p>2. Provide technical/skills-specific trainings</p> <p>3. Accelerated S&amp;T Human Resources Development Program (ASTHRDP)</p> <p>4. Engineering R&amp;D for Technology (ERDT) Program</p>	<p>–435,199 livelihood printed (Gabay/Business Guide) –12,172 livelihood video tapes/CDs sold</p> <p>45 R&amp;D projects funded in 2006</p> <p>3,912 courses conducted 68,748 participants</p> <p>2007: MS-384; PhD-43 2008: MS-637; PhD-102</p>	<p>DOST-OSEC</p> <p>All DOST agencies and Regional Offices</p> <p><u>DOST-SEI</u>, <u>PCARRD</u>, <u>PCASTRD</u>, <u>PCAMRD</u>, <u>PCHRD</u>, <u>PCIERD</u></p> <p><u>UP College of Engineering</u>, DOST-SEI, DOST</p>	<p>–825,000 livelihood printed (Gabay/Business Guide) –21,000 livelihood video tapes/CDs sold</p> <p>5,000 courses conducted 85,000 participants</p> <p>Support 2,190 MS scholars and 834 PhD scholars</p>



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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/TARGETS 2004-2010
		6. Graduate Degree Scholarship Program in basic/advance sciences, engineering, health and agriculture	754 MS 513 PhD	PCAMRD, PCARRD, PCAS- TRD, PCHRD, PCIERD, NRCP	Subsumed under the ASTHRDP
		7. Graduate Science and Math Consortium	Member Institutions: –Mindanao State University, Marawi City –University of San Carlos Cebu City –Western Mindanano State University, Zamboanga City –West Visayas State University, Iloilo City	DOST SEI	Member Institutions: –Mindanao State University, Marawi City –University of San Carlos Cebu City –Western Mindanano State University, Zamboanga City –West Visayas State University, Iloilo City
		8. International Linkage Program on Graduate in Science	To be implemented starting 2008	DOST-SEI	At least 5 top universities in Asian Region
		9. Balik-Scientist Program	13 Balik-Scientist Awardees in 2004-2007	DOST	90 Balik-Scientists Slots
		10. DOST-JSPS Joint Scientific Cooperation Program	12 Bilateral Scientific Research Program; 74 awardees of PhD Dissertation Program; 2 proposals under the Joint Research Program	DOST	9 Bilateral Scientific Research Program; 46 slots for PhD Dissertation Pro- gram
		11. Scientific Career System	2 researchers conferred scien- tist rank while 1 researcher was upgraded	DOST	9 scientists

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	Stimulating Demand for STI	<p>12. Provision of research fellowship grants</p> <p>13. Award and recognize the outstanding contributions and achievements of Filipino scientists and researchers</p> <p>14. Other activities on expanding scientific research and scholarships by CHED (<i>Refer to Chapter 18: Education</i>)</p> <p>Indirect STI Policy Interventions</p> <p>Basic Macroeconomics Stability (<i>Refer to Chapter 8: The Financial Sector</i>)</p> <p>Trade and Foreign Direct Investment (<i>Refer to Chapter 1: Trade and Investment</i>)</p> <p>Financial Policies (<i>Refer to Chapter 8: The Financial Sector</i>)</p> <p>Entrepreneurship Development (<i>Refer to Chapter 1: Trade and Investment</i>)</p> <p>Intellectual Property Rights Protection</p>	<p>Provided 50 research fellowship grants</p> <p>Awarded 1,124 scientists and researchers</p>	<p>DOST-NAST</p> <p>NAST and NRCP</p>	<p>50 research fellowship grants</p> <p>364 awardees</p>

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		<p>Promotion of Standards (<i>Refer to Chapter 1: Trade and Investment</i>)</p> <p><i>Direct STI Policy Interventions</i></p> <p>Promotion of interfirm innovation networks and research collaboration</p> <p>1. Maintenance of R&amp;D consortia/networks</p>	<p>14 NARRDN consortia; 239 member-institutions</p> <p>5 NARRDS centers; 119 member-institutions</p> <p>15 members of PCASTRD Network</p> <p>10 HERDN consortia; 163 member-institutions</p> <p>11 members of PCIERD network; 132 member-institutions</p> <p>4 PREGINet core nodes; 166 PREGINet partner-institutions</p>	<p>PCARRD</p> <p>PCAMRD</p> <p>PCASTRD</p> <p>PCHRD</p> <p>PCIERD</p> <p>ASTI</p>	<p>14 PCARRD Regional consortia maintained</p> <p>5 NRRDS centers maintained</p> <p>15 members of PCASTRD maintained</p> <p>10 HERDN consortia maintained</p> <p>11 members of PCIERD network maintained</p> <p>Increase network capacity to 622 mbps to international research network and 622 mbps to commodity internet</p>

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		<p>2. R&amp;D collaborative projects with international organizations</p> <p>3. Development and maintenance of linkages with academies of science in other countries and with other equivalent organizations</p> <p>4. Development and maintenance of linkages with international science organizations</p> <p>5. Bilateral and multilateral linkages with international organizations</p> <p>6. Identification, sourcing and assessment of technologies</p> <p>- Bio-N joint venture project (TRC-UPLB Biotech)</p> <p>7. Support for participation of Filipino researchers and inventors in regional and international exhibits</p>	<p>12 R&amp;D collaborative projects by PAGASA and 5 by PHIVOLCS</p> <p>24 international academies of science</p> <p>10 international organizations</p> <p>14 international organizations</p> <p>Drafted investment prospectus (activated carbon, coco methyl ester, fish pond prawn farming, Jathropha farming, and Jathropha oil extraction plant)</p> <p>60 mixing plants nationwide</p> <p>3 Filipino researchers/inventors participated in international conferences/fora/exhibits</p>	<p>PAGASA, PHIVOLCS</p> <p>NAST</p> <p>NAST</p> <p>DOST-ITCU</p> <p>DOST-TRC</p> <p>DOST-TAPI</p>	<p>12 R&amp;D collaborative projects by PAGASA and 5 by PHIVOLCS</p> <p>26 international academies of science</p> <p>12 international organizations</p> <p>20 international organizations/foreign institutions</p> <p>- 24 investment prospectus drafted - 85 mixing plants nationwide</p> <p>12 Filipino researchers/inventors participating in international conferences/fora/exhibits</p>

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		<p>8. Form and build capacities of national and location-specific strategic alliances among the national and local governments, business groups/industrial chambers, and farmer groups to broker and facilitate farm-firm linkages</p> <p>Promote creation of shared infrastructure and provision of business support services for innovators and budding entrepreneurs</p> <p>1. Establishment of technology business incubators</p> <p>2. Development and management of productivity centers</p> <p>3. Establishment of Technology and Livelihood Development Centers (TLDCs)</p>	<p>60 techno-based projects among the consortia-LGU-private sector-<i>Magsasaka Siyentista</i></p> <p>48 buildings leased out to investors/locators with 70% occupancy rate</p> <p>– TLDCs established/reactivated in 30 provinces and 16 city/municipality – 31 TLDC training courses, TLDC staff training and strategic planning workshops, program management conducted</p>	<p>DOST-PCARRD</p> <p>DOST-ASTI &amp; TRC, PEZA, UP and other SCUs</p> <p>DOST-TRC</p> <p>DOST-TRC</p>	<p>120 techno-based projects among the consortia-LGU-private sector-Magsasaka Siyentista</p> <p>– Establishment of 10 TBIs including the Open Source Software TBI in NCR in 2008</p> <p>65 buildings leased out to investors/locators; 95% occupancy rate</p> <p>– TLDCs established/reactivated in 75 provinces and 70 cities – 135 TLDC training courses, TLDC staff training and strategic planning workshops, program management to be conducted</p>

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		<p>4. Productivity consultancy services (MPEX, CAPE, STEVP)</p> <p>5. Market-linked and demand-driven technology development generation and dissemination, including improvement of farm technologies/systems</p> <ul style="list-style-type: none"> <li>• Establishment of technology demonstration/model farms</li> <li>• Establishment of regional centers for the production of vermicompost and vermimeal</li> <li>• Establishment and improvement of the database and information system for agriculture and fisheries</li> </ul>	<p>MPEX: 27 Engagements/ Nodes CAPE: 25 engagements STEVP: 382 engagements</p> <p>The Techno Gabay Program (TGP), a technology delivery modality intensified the technology dissemination and utilization through its four interrelated components namely, Farmers' Information and Technology Services (FITS), Magsasaka Siyentista (MS), ICT and IEC</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">2007</td> <td style="text-align: center;">1<sup>st</sup> sem 2008</td> </tr> <tr> <td><b>Total No. of FITS Centers</b></td> <td style="text-align: center;"><b>402</b></td> <td style="text-align: center;"><b>408</b></td> </tr> <tr> <td>- Operational FITS Centers maintained</td> <td style="text-align: center;">205</td> <td style="text-align: center;">372</td> </tr> <tr> <td>- New FITS Centers Established</td> <td style="text-align: center;">197</td> <td style="text-align: center;">36</td> </tr> <tr> <td>No. of Clients Served</td> <td style="text-align: center;">63,895</td> <td style="text-align: center;">41,243</td> </tr> </table> <p>16 regional centers were established</p> <p>69 Information Systems/ Databases/websites on Agriculture, Forestry and Natural Resources</p>		2007	1 <sup>st</sup> sem 2008	<b>Total No. of FITS Centers</b>	<b>402</b>	<b>408</b>	- Operational FITS Centers maintained	205	372	- New FITS Centers Established	197	36	No. of Clients Served	63,895	41,243	<p>DOST-TAPI</p> <p>DOST-PCARRD</p>	<p>PEX: 33 Engagements/ Nodes CAPE: 33 engagements STEVP: 240 engagements</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">2008</td> <td style="text-align: center;">2009</td> </tr> <tr> <td><b>Total No. of FITS Centers</b></td> <td style="text-align: center;"><b>477</b></td> <td style="text-align: center;"><b>552</b></td> </tr> <tr> <td>-Operational FITS Centers maintained</td> <td style="text-align: center;">402</td> <td style="text-align: center;">477</td> </tr> <tr> <td>-New FITS Centers Established</td> <td style="text-align: center;">75</td> <td style="text-align: center;">75</td> </tr> <tr> <td>No. of Clients Served</td> <td style="text-align: center;">72,090</td> <td style="text-align: center;">100,00</td> </tr> </table> <p>71 AFNR (Agriculture, Forestry and Natural Resources) Information Systems/Data-base/Websites</p>		2008	2009	<b>Total No. of FITS Centers</b>	<b>477</b>	<b>552</b>	-Operational FITS Centers maintained	402	477	-New FITS Centers Established	75	75	No. of Clients Served	72,090	100,00
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	<b>Enhancing Management of the STI System</b>	<p><b>Provision of tax incentives to private firms engaged in R&amp;D</b> <i>(Refer to Chapter 7: The Fiscal Strength)</i></p> <p><b>Public funding support for innovation commercialization</b></p> <p>1. Technology Innovation for commercialization (TECHNICOM) Program</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: right;">2007</td> <td style="text-align: right;">1<sup>st</sup> sem</td> </tr> <tr> <td>2008</td> <td></td> <td></td> </tr> <tr> <td>Patenting assistance</td> <td style="text-align: right;">55</td> <td style="text-align: right;">28*</td> </tr> <tr> <td>Prototyping/testing/piloting assistance</td> <td style="text-align: right;">3</td> <td style="text-align: right;">4</td> </tr> <tr> <td>Tax/duty exemption</td> <td style="text-align: right;">14</td> <td style="text-align: right;">12</td> </tr> <tr> <td>Travel assistance (foreign)</td> <td style="text-align: right;">2</td> <td style="text-align: right;">1</td> </tr> <tr> <td>Publication/promotion materials dev't</td> <td style="text-align: right;">2</td> <td style="text-align: right;">4</td> </tr> </table> <p>*includes the following:                      -13 patent/utility model registration obtained                      -4 patent applications filed at IPO                      -11 applications in process</p>		2007	1 <sup>st</sup> sem	2008			Patenting assistance	55	28*	Prototyping/testing/piloting assistance	3	4	Tax/duty exemption	14	12	Travel assistance (foreign)	2	1	Publication/promotion materials dev't	2	4	DOST Regional Offices, ASTI, FPRDI, FNRI, ITDI, MIRDC, PNRI, PTRI, PCARRD, PCAMRD, PCASTRD, PCHRD, PCIERD	<p>PhP 120 million total funding allocation</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: right;">2008</td> <td style="text-align: right;">2009</td> </tr> <tr> <td>Patenting assistance</td> <td style="text-align: right;">50</td> <td style="text-align: right;">60</td> </tr> <tr> <td>Prototyping/testing/piloting assistance</td> <td style="text-align: right;">9</td> <td style="text-align: right;">15</td> </tr> <tr> <td>Tax/duty exemption</td> <td style="text-align: right;">18</td> <td style="text-align: right;">19</td> </tr> <tr> <td>Travel assistance (foreign)</td> <td style="text-align: right;">3</td> <td style="text-align: right;">2</td> </tr> <tr> <td>Publication/promotion materials dev't</td> <td style="text-align: right;">8</td> <td style="text-align: right;">10</td> </tr> </table>		2008	2009	Patenting assistance	50	60	Prototyping/testing/piloting assistance	9	15	Tax/duty exemption	18	19	Travel assistance (foreign)	3	2	Publication/promotion materials dev't	8	10
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		<p><b>Clearer STI Management Framework</b></p> <p>1. S&amp;T Policy Advocacy</p> <ul style="list-style-type: none"> <li>• PNRI Nuclear Technology</li> </ul>	<p>Legal framework for conducting activities related to nuclear energy and ionizing radiation, in a manner that adequately protects individuals, property and the environment</p>	DOST-PNRI	<p>2008                      Filed bill with congress and senate. Series of public hearings</p> <p>2009                      Congress will initiate consultations with concerned agencies</p> <p>2010                      Approval of the bill</p>																																							

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		<ul style="list-style-type: none"> <li>• PCHRD National Research System</li>   <li>• Technology Transfer</li>   <li>2. Improvement of the monitoring and evaluation function of the sectoral councils through the implementation of the DOST Rationalization Plan</li>   <li><b>Prioritization of R&amp;D activities for Public Funding</b></li>   <li>1. ICT R&amp;D Program</li>   <li>2. Food and nutrition R&amp;D Program</li> </ul>	<p>Institutionalizing the Philippine National Health Research System, Establishing the Philippine National Health Research Fund Providing for its Administration and for Other Purposes</p> <p>Framework for coordination, integration and harmonization of all technology transfer efforts by various agencies in the country</p> <p>14 R&amp;D projects implemented in 2006, 15 in 2007 and 17 in 2008 5 IPs granted from 2004 to 2007</p> <p>35 R&amp;D projects implemented in 2006; 32 in 2007 and 38 in 2008 7 IPs applied 2007, 3 IPs granted in 2008</p>	<p>DOST-PCHRD</p> <p>DOST-PCARRD</p> <p>DOST</p> <p>ASTI</p> <p>FNRI</p>	<p>2008 Filed bill with congress and senate. Series of public hearings</p> <p>2009 Congress will initiate consultations with concerned agencies</p> <p>2010 Approval of the bill</p> <p>Cong. Abaya prepared his own version of Technology Transfer Bill Technology Transfer Bill (Senate Bill 1721)</p> <p>5 sectoral councils (PCARRD, PCAMRD, PCI-ERD, PCASTRD, PCHRD) will be reduced into 3 with the consolidation of PCARRD and PCAMRD, PCIERD and PCASTRD</p> <p>32 R&amp;D projects implemented (16 per year) 2 IPs</p> <p>74 R&amp;D projects implemented 3 IPs</p>

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		3. Forest products R&D Program	99 R&D projects implemented in 2006; 80 in 2007 and 81 in 2008;1 IP applied and granted in 2007;6 IPs applied with 2 were granted	FPRDI	174 R&D projects implemented
		4. Industrial technology development R&D	108 R&D projects implemented in 2006; 102 in 2007 and 77 in 2008; 5 IPs granted in 2007 and 11 IPs granted in 2008	ITDI	363 R&D projects implemented
		5. Metals and engineering R&D Program	112 R&D projects implemented in 2006; 191 in 2007 and 157 in 2008;2 IPs filed in 2007	MIRDC	200 R&D projects implemented, 6 IPs
		6. Philippine Tropical Fabrics R&D Program	7 R&D projects implemented in 2006, 20 in 2007 and 9 in 2008; 1 IP granted in 2007 and 2 IPs granted in 2008	PTRI	45 R&D projects implemented
		7. Nuclear Technology R&D Program	35 R&D projects implemented in 2006, 32 in 2007 and 40 in 2008	PNRI	40 R&D projects implemented (2008); 1 IP
		8. R&D Program on Disaster preparedness and hazard mitigation	26 R&D projects implemented by PAGASA in 2006, 27 in 2007 and 23 in 2008; and 12 by PHIVOLCS in 2006, 13 in 2007 and 13 in 2008	PAGASA, PHIVOLCS	30 R&D projects implemented by PAGASA; 26 R&D projects implemented and 1 IP by PHIVOLCS
		9. Grants-in-aid Program for R&D and research capability build-up	50 R&D projects approved for funding in 2006	DOST-OSEC	150 R&D projects approved

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<p>10. R&amp;D Program in Agriculture, forestry and natural resources</p> <p>11. Improvement of genetic materials of crops, livestock and poultry and fishery products to ensure high yield</p>	29 R&D projects approved	<p>PCARRD</p> <p>PCARRD</p>	<p>66 R&amp;D projects and 66 FITS-directed projects</p> <p>800 buffalo clonal embryos produced for transfer to recipient animals</p>
		<p>12. R&amp;D Program on community-based and environment-friendly intensification and diversification programs</p>		PCARRD	<p>Crop varieties developed for high yield:</p> <ul style="list-style-type: none"> <li>- 3 rice hybrids</li> <li>- 2 fruit crops</li> <li>- 3 vegetable hybrids</li> <li>- 2 corn hybrids</li> <li>- 2 sugarcane</li> <li>- 2 sweet potato varieties</li> <li>- 1 abaca hybrid</li> <li>- 1 GM papaya</li> <li>- 1 banana variety</li> </ul>
		<p>13. Development of Integrated Pest Management (IPM) Strategies for rice, vegetables and papaya resistant varieties</p>		PCARRD	<p>6 Package of Technologies (POTs) developed</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/TARGETS 2004-2010
		14. National Organic R&D program		PCARRD	6 R&D Programs
		15. Organic White Corn R&D program		PCARRD	1 Package of Technology (POT) developed
		16. Organic Muscovado Sugar R&D program		PCARRD	1 Package of Technology (POT) developed
		17. R&D in Aquaculture and marine resources	98 R&D projects appraised	PCAMRD	80 R&D projects appraised
		18. Advanced Science and Technology R&D Program	29 R&D projects approved	PCASTRD	68 R&D projects approved
		19. Health and Nutrition R&D Program	18 R&D projects approved	PCHRD	117 R&D projects approved
		20. Industry and Energy R&D Program	34 R&D projects approved	PCIERD	40 R&D projects approved
		21. Basic R&D Program	32 R&D projects approved	NRCP	57 R&D projects approved
		22. Other R&D Programs by DA, DAR and DENR ( <i>Refer to Chapter 2: Agribusiness</i> )			
		<b>Provision of STI Inputs to Informed Policy Decisions</b>			
		1. Analysis of the 2003 National Nutrition Survey	Updating of the status of the Filipino children (done every 2 years)	DOST-FNRI	Conduct of the 2008 National Nutrition Survey

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<p>2. S&amp;T Policy advisory services</p> <ul style="list-style-type: none"> <li>• strengthening policy advocacy by providing comments, recommendation on S&amp;T and related issues and concerns for adoption of concerned stakeholders</li> <li>• Continually build a body of Filipino scientists and researchers by strengthening the Council's recruitment of members: sponsor/co-sponsor the conduct of scientific cluster meetings, seminar-workshops, and outreach activities</li> <li>• Formulation of policy recommendations on relevant science and technology concerns</li> </ul> <p>3. Implement nonstructural measures to help mitigate and control the occurrence of natural disasters</p> <ul style="list-style-type: none"> <li>• Issue timely warning and information to help mitigate and control the occurrence of natural disasters</li> </ul>	<p>1,356 regular members and 1,708 associate members</p> <p>35 policy position papers</p> <p>With the occurrence of various stages of unrest of several volcanoes in the country during this period, timely warnings and advisories were issued by</p>	<p>DOST-NRCP</p> <p>DOST-NRCP</p> <p>DOST-NAST</p> <p>DOST-PHIVOL-CS</p>	<p>72 S&amp;T and related policies to be submitted; 30 to be adopted by stakeholders</p> <p>Increased membership by 240</p> <p>24 policy position papers</p> <p>Number of bulletins/updates/ advisories promptly issued on volcanic, earthquake and tsunami events (as necessary)</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<ul style="list-style-type: none"> <li>• Issuance of Farm Weather Forecast Advisory (FWFA) and Tropical Cyclone Warning and Advisories (TCWA) for agriculture</li> <li>• Issuance of marine/shipping forecasts and warnings for fishing and shipping industries</li> <li>• Identification of areas prone to earthquake and volcano-related hazards</li> </ul>	<p>PHIVOLCS to concerned agencies, LGUs, media and the general public which resulted to zero casualty especially during the 2006 eruption of Mayon and the series of ash explosions of Bulusan and Kanlaon. Information bulletins were also issued by PHIVOLCS for felt earthquakes events</p> <p>– 2,354 FWFA issued to 17,916 recipients – 306 TCWA issued and 4,606 copies disseminated</p> <p>– 2,910 shipping forecasts – 302 marine gale warnings</p> <p>Generated active fault maps covering the San Manuel and San Jose Faults in Pangasinan-Nueva Ecija areas (8 quadrangle maps); Generated active fault maps of East Zambales Fault</p> <p>Generated 5 revised lahar hazard maps for Pinatubo Volcano</p> <p>Generated maps of various earthquake related hazards</p>	<p>DOST-PAGASA</p> <p>DOST-PAGASA</p> <p>DOST-PHIVOLCS</p>	<p>– 720 FWFA issued to 5,600 recipients – 89 TCWA issued and 893 copies disseminated</p> <p>– 720 shipping forecasts – 12 marine gale warnings</p> <p>4 hazard maps per province for 19 provinces</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<p>4. Promote disaster awareness and preparedness across the country</p>	<p>(ground rupture, ground shaking, liquefaction, tsunami and earthquake-induced landslide) were generated for the towns of Real, Infanta and Gen. Nakar, all of Quezon Province</p> <p>Generated multihazards maps for Surigao del Norte and Surigao del Sur Provinces in northeastern Mindanao</p> <p>Generated multihazards maps for Dinggalan, Aurora</p> <p>Generated multihazards maps for the Provinces of Leyte, Southern Leyte and Bohol Provinces</p> <p>Generated 1 nationwide tsunami hazard map</p> <p>Generated 4 regional tsunami hazard maps (Western Luzon, Mindoro, Western Visayas and Moro Gulf areas)</p> <p>Conducted massive information and education campaigns for LGUs (Provincial City/Municipal and barangay levels), teachers and residents for most of the areas where hazard maps were</p>	<p>DOST-PHIVOLCS</p>	<p>Information and education campaigns conducted for the 19 target provinces</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/TARGETS 2004-2010
	<p style="text-align: center;"><b>Upgrading the Filipino Mind-set</b></p>	<p>5. Development of an Innovation Metrics</p> <ul style="list-style-type: none"> <li>• Survey of R&amp;D and Technology Project</li> </ul> <p><b>Improving STI Monitoring and Evaluation</b></p> <p><b>Increasing the role of media</b></p> <p>1. Conduct of Fisheries-School-on the Air (FSA)</p>	<p>produced such as Real, Infanta and Gen. Nakar of Quezon Province; Dinggalan, Aurora; and the provinces of Surigao del Sur, Surigao del Norte, Ilocos Sur, Oriental Mindoro, Iloilo, Zamboanga del Sur, Leyte and Southern Leyte</p> <p>Aired four FSA programs (e.g. culture of seabass, pompano, mudcrab and white leg shrimp) at the Bago Yan Ah! Program</p> <p>Had 1,861 listener-enrollees in the program</p> <p>Promoted the airing of five canned FSA programs in Region 2 (culture of pomfret, tilapia, mudcrab and seabass and coastal resource management)</p>	<p>DOST</p> <p>DOST-PCAMRD</p>	<p>Study on the Philippine Innovation Metrics</p> <p>At least 200 listener-enrollees/FSA program/year</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<p>2. Production of publication on fisheries technologies</p> <ul style="list-style-type: none"> <li>• Feature fisheries technologies and/or information thru the different media</li> <li>• Conduct of media dialogues</li> <li>• Conduct of aquatic technology competition and marketplace</li> </ul> <p>3. Preparation and publication of data series for different fisheries commodities</p> <p>4. Print materials production/ publication</p>	<p>Encouraged 11 technology adoptors in Bulacan, Pampanga, Bataan and Pangasinan</p> <p>Produced 27 publications (newsletter, books, currents, and technology manual)</p> <p>Issued 1,279 press releases of fisheries technologies</p> <p>Conducted 4 media dialogues</p> <p>Conducted 2 competitions featuring technologies from zonal center member agencies</p> <p>Completion of PCAMRD data series for tilapia, tuna, milkfish, shrimps, small pelagics, seaweeds, mollusks, crab and total fisheries production</p> <p>– 60 titles printed and reprinted – 70 reformatted/ updated titles of livelihood and how-to's (Gabay and Business kit)</p>	<p>DOST-PCAMRD</p> <p>DOST-PCAMRD</p> <p>DOST-TRC</p>	<p>2 publications/quarter</p> <p>Quarterly</p> <p>Biannual competition featuring the commercialable fisheries technologies</p> <p>Continuous updating of the data series, and the preparation of the data series on other fish species (grouper, carp, siganid, biya, canduli)</p> <p>– 150 titles printed and reprinted – 150 reformatted/ updated titles of livelihood and</p>



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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/ TARGETS 2004-2010
		<ul style="list-style-type: none"> <li>– S&amp;T Post-Quarterly newsletter of the science department</li> <li>– Philippine Journal of Science</li> <li>– S&amp;T Gazette / DOST Digest</li> <li>– DOST Coffee Table Book</li> <li>11. Implementation of Innovation and Delivery Program</li> <li>• Introduction of innovative user-friendly interfaces for Database searching</li> <li>– Content development               <ul style="list-style-type: none"> <li>Web databases</li> <li>STII Online Public Access Catalogue (OPAC)</li> </ul> </li> </ul>	<p>2004: 12 issues 2005-2007: 4 issues per year</p> <p>2 issues per year PJS Author and Title Index PSJ Special and Centennial Edition 2 volumes</p> <p>120 issues</p> <p><i>(for DOST 50<sup>th</sup> Anniversary Celebration only in the year 2008)</i></p> <p>4 databases accessible from the Web</p> <p>9 Material Types available from STII OPAC; 36,000 records</p>	<p>DOST-STII, NAST</p> <p>DOST-STII</p>	<p>12 issues</p> <p>8 issues</p> <p>36 issues</p> <p>1 issue</p> <p>120,000 records</p>

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OUTCOME	STRATEGIES	ACTIVITIES	ACTUAL ACCOMPLISHMENTS 2004-2008	AGENCIES	PREVIOUS MEASURABLE OUTPUTS/TARGETS 2004-2010
		<p>Promoting open and multidisciplinary collaboration</p> <p>Fostering a culture of entrepreneurship through innovation</p> <p>1. Organization/Conduct/ Participation in fora, fairs and exhibits</p> <p>2. Small Enterprises Technology Upgrading (SETUP)</p>	<p>82 Fora 64 Fairs/Exhibits</p> <p>– 1,464 clients served in support of innovation – 37,693 clients served for testing and calibration services – 959 clients served for packaging and labeling services – 3,845 clients served under consultancy services – 34,677 firms assisted – 95,576 jobs created – 3,829 technology interventions provided</p>	<p>DOST</p> <p>DOST-TAPI</p> <p>DOST-TRC</p> <p>DOST REGIONAL OFFICES</p>	<p>Public-private-Academe partnership in the conduct of research and business incubation leading to enterprise development</p> <p>12 Inventors' Forum 8 regional cluster fairs 30 Non-DOST fairs 3 National/International Fairs 12 Stakeholders/Industry Consultations</p> <p>3 national/international fairs 18 Kabalikat sa Kabuhayan exhibits 30 Negosyo 2 Go exhibits</p> <p>Target clients/firms to be assisted in 2008 and 2009: – 1,622 clients in support of innovation – 41,268 clients for testing and calibration services – 1,001 clients for packaging and labeling services – 2,419 clients under consultancy services – 17,258 firms to be assisted</p>