±â¼úÇõ½ÅÁ¶»ç µ¥ÀÌÅÍÀÇ È°¿ë

¾ö¹ÌÁ¤(»ê¾÷Çõ½ÅÆÀ °Î¿¬±¸À§¿ø)

1. ±â¼úÇõ½ÅÁ¶»çÀÇ ¹è°æ°ú ÀÇÀÇ

±â¼úÇõ½Å°ú ½Å±â¼úÀÇ È®»êÀÌ »ý»ê¼º Çâ»óÀº ¹°·Ð °æÁ¦¼ºÀåÀÇ ÇÙ½ÉÀû ¿ªÇÒÀ» ¼öÇàÇÑ´Ù´Â »ç½ÇÀº ÀÌ¹Ì °¸ÆíÀûÀ¸·Î ÀÎÁ¤µÇ°í ÀÖÀ¸¸ç, ´ë°Î°ÐÀÇ ±¹°¡¿¡¼ Çõ½ÅÀ» ¾î¶»°Ô °ÈÇÒ °ÍÀÎ°¡ ÇÏ´Â °ÍÀÌ Á¤Ã¥ÀÇ Áß¿äÇÑ °Î°ÐÀ¸·Î ÀÚ¸®Àâ°í ÀÖ´Ù. ÀÌ¿¡ µû¶ó Áö³ 30¿©³â°£ÀÇ Çõ½ÅÈ°µ¿¿¡ ´ëÇÑ ¿¬±¸°á°ú´Â Çõ½Å°ü·Ã Á¤º¸Á¤Ã¥ÀÇ ¹æÇâÀ» R&DÁß½É¿¡¼ ±â¼úÇõ½Å ÀÚÃ¼·Î ¿Å°Ü°¡´Â ±Ùº»ÀûÀÎ °¯È¸¦ °¸ÀÌ°í ÀÖ´Ù. ÃÖ±Ù µé¾î Ä³³ª´Ù, ÇÁ¶û½º µîÀÌ 'Çõ½ÅÀû ±â¾÷(innovative firms)'ÀÌ¶ó´Â °³³äÀ» ±â¾÷Á¤Ã¥¿¡ µµÀÔÇÏ´Â µî¹⁾ Çõ½Å °³³äÀ» Á¤Ã¥¿¡ È°¿ëÇÏ´Â »ç·Ê°¡ È®´ëµÇ°í ÀÖ´Ù. µû¶ó¼ ±¹°¡ Â÷¿ø¿¡¼ Çõ½ÅÀÇ °»ÁúÀ» °¸´Ù ÀÌ ÀÌÇØÇÏ°í Çõ½ÅÀÇ °æÁ¦»çÈ¸Àû ¿µÇâÀ» ºÐ¼®ÇÏ´Â °ÍÀÌ ¾î´À ¶§º¸´Ù Áß¿äÇÏ°Ô ¿©°ÜÁö°Ô µÇ¾ú´Ù.

ÀÌ·¯ÇÑ Çõ½Å¿¡ ´ëÇÑ Áß¿ä¼º°ú ÇÔ²² R&D, Æ¯Çã µî ±âÁ¸ Çõ½Å Åë°èÀÇ¡µéÀÌ ½ÇÁõÀû ÇÑ°èÁ¡À» ³ªÅ¸³»¿¡ µû¶ó »õ·Î¿î ÇõÀÅöÇ¥·Î¼ 1990³â´ë ÀÌÈÄ ±â¼úÇõ½ÅÁ¶»ç(Community Innovation System, CIS)²⁾°¡ ´ëµÎµÇ¾ú´Ù. ±Ùº»ÀûÀ¸·Î Çõ½ÅÀÌ³ª ±× ¿µÇâ¿¡ °üÇÑ ¸¹Àº ÀÌ·ÐµéÀº ½Ã½ºÅÛÀÌ³ª ¸ðÁý´Ü¿¡ ´ëÇÑ ¸íÁ¦¿¡ °üÇÑ °ÍÀÌ¹Ç·Î »ç·Ê¿¬±¸³ª ´Ù¥ °Î°ÐÀûÀÎ Á¢±Ù¹ýÀ» »ç¿ëÇÏ´Â °Í°¸´Ù °æ Á¦ Àü¹Ý¿¡ ´ëÇÑ Åë°èÀû Á¢±ÙÀÌ Áß¿äÇÏ´Ù. Áï Çõ½ÅÀÌ³ª ¿µÇâ¿¡ ´ëÇÑ ¸íÁ¦¸¦ È®ÀÎÇÏ±â À§ÇØ¼´Â ¸î °¡Áö »ç·Ê°¡ ºÎ°¡ÀûÀÎ µµÃâµÈ ¿¹¸¦ ÀÌ¹ÝÈÇÏ´Â °ÍÀÌ ¾Æ´Ï¶ó ¾È¼ÓÀÇ ¼ö¸¹Àº ±â¾÷À» ´ë»óÀ¸·Î Åë°è¸¦ ¼öÁýÇÏ´Â °Í¿¡ ±âÃÊÇÒ ÇÊ¿ä°¡ ÀÖ´Ù. Æ¯È÷ ±× °£ÀÇ »ç·Ê¿¬±¸ÀÇ ´ë°Î°ÐÀº »ó´ëÀûÀ¸·Î R&D Áý¾àÀû ºÐ¾ß¿¡ ±¹ÇÑµÇ¾î ÀÖ¾î ¿¬±¸°á°ú¸¦ °æÁ¦ÀüÃ¼·Î È®ÀåÇÏ´Âµ¥ ÇÑ°è°¡ ÀÖ´Ù. µû¶ó¼ °æÁ¦ÀüÃ¼¸¦ ¸ðÁý´ÜÀ¸·Î ÇÏ¿© ±× ½Ã½ºÅÛÀÇ Æ¯¼º, ±¸Á¶, ¿ªµ¿¼º¿¡ ÁßÁ¡À» µÐ´Â µ¥ÀÌÅÍ°¡ ¿ä±¸µÇ¾ú´ø °ÍÀÌ´Ù.

Áö±Ý±îÁö OECDÀÇ Ç¥ÁØÈµÈ ¹æ¹ý·Ð¿¡ ÀÇÇØ ±¹Á¦ÀûÀ¸·Î Â÷¿ø¿¡¼ ¼¼ Â÷·ÊÀÇ ±â¼úÇõ½ÅÁ¶»ç°¡ ½Ã ÇàµÇ¾úÀ¸¸ç, È½¼ö¸¦ °Åµì ÇÔ¿¡ µû¶ó ±â¼úÇõ½ÅÁ¶»çÀÇ ÀáÀç·ÂÀ» °¸´Ù °ÈÇÏ±â À§ÇÑ °³¼±ÀÇ °úÁ¤ ÀÌ ÀÌ·ç¾îÁ³´Ù. ¶ÇÇÑ Â÷¼ö°¡ Áõ°¡ÇÔ¿¡ µû¶ó °¸´Ù ¸¹Àº ³ª¶óµéÀÌ Âü¿©¸¦ È®¸ÁÇÔÀ¸·Î½á ±¹Á¦Àû ºñ±³Åë°è·Î¼ÀÇ °¡Ä¡¸¦ ³ô¿©³ª°¡°í ÀÖ´Ù.

1992³â¿¡ EU¸¦ Áß½ÉÀ¸·Î ½ÃÇàµÈ CIS IÀº ±¹°¡°£ »ê¾÷°£¿¡ ÅõÀÔ¿ä¼Ò, ¼º°ú¿ä¼Ò ±×¸®°í Çõ½Å °úÁ¤¿¡ °üÇÑ °ñ±³°¡´ÉÇÑ ±â¾÷¼öÁØ µ¥ÀÌÅÍ¸¦ ¼öÁýÇÏ´Â °ÍÀ» ¸ñÀûÀ¸·Î ÇÏ¿´´Ù. CIS I ¼³¹®Áö´Â Á¦Á¶¾÷Ã¼ÀÇ ±â¼úÀû Çõ½ÅÈ°µ¿(technological innovation)¸¸À» ´ë»óÀ¸·Î Çõ½Å¿øÃµ, ÁöÃâ, Çù·Â, ¼º

1 Ä³³ª´Ù´Â Çõ½ÅÀû ±â¾÷¿¡ ´ëÇØ ¼¼Á¦ÇýÅÃÀ» ÁÖ¸ç, ÇÁ¶û½º°´Â Á¶¼¼°¨¸éÀÇ ±Ù°Å·Î¼ ÀÌ °³³äÀ» »ç¿ëÇÏ°í ÀÖ´Ù (Guellec & Pattinson, 2001).

2 ¾ö¹ÐÇÑ ÀÇ¹Ì¿¡¼ CIS´Â Oslo Manual¿¡ ±â¹ÝÇÑ °øÅëµÈ ¼³¹®Á¶»çÈ°µ¿¿¡ ÀÚ¹ßÀûÀ¸·Î Âü¿©ÇÏ±â¸¦ Èñ¸ÁÇÑ À¯·´Áö ¿ª ±¹°¡µéÀÇ ¸ðÀÓÀ» ÀÇ¹ÌÇÑ´Ù. ±×·¯³ª ÇÑÆíÀ¸·Î´Â °¢ ½Ã±â°º°·Î Á¶»çµÇ¾ú´ø °øÅëµÈ ¼³¹®¹®Ç×ÀÌ³ª Á¶»çÈ°µ¿ ÀÚ Ã¼¸¦ ÀÇ¹ÌÇÏ´Â Æ÷°ýÀûÀÎ ÀÇ¹Ì·Îµµ »ç¿ëµÇ±âµµ ÇÏ´Âµ¥ ¿©±â¼´Â ±×·± ÀÇ¹Ì·Î »ç¿ëµÈ´Ù.

°ú ¹× ÀåÄ¾Ö¿äÀÎ µî Çõ½Å°úÁ¤ Àü¹Ý¿¡ ´ëÇÑ Áú¹®À» Æ÷ÇÔÇÏ¿´´Ù. CIS IÀº ¸î °¡Áö ¹®Á¦Á¡µéÀÌ Á¦±â µÇ±ä ÇÏ¿´À¸³ª3) ¹Ì·¡ °ñ±³°¡´ÉÇÑ Çõ½ÅÁ¶»çÀÇ º»º¸±â·Î¼ Áß¿äÇÑ ÀÇ¹Ì¸¦ °¡Á³´Ù°í Æò°¡µÇ¾ú´Ù.

<Ç¥ 1> ±â¼úÇõ½ÅÁ¶»ç ¼öÇà ÇöÈ²

	±¹°¡	CIS I	CIS II	¼³¹® ÁÖÃ¼
CIS (17°³±¹)	France	○	○	Sessi, INSEE - °¢ ÇØ´ç°ÍÃ³¿¡¼ ¼³¹®Áö È¸¼ö¿¡ Âü¿©
	Netherlands	○	○	Statistics Netherlands
	Norway	○	○	Statistics Norway
	Austria	×	○	Austrian Ministry of Economic Affairs(BMwA)
	Finland	×	○	National Statistical Institute
	Sweden	×	○	Statistics Sweden -ÇÐ°è, »ê¾÷°è, Á¤ºÎ µî Àü¹®°¡ ±×·ì Âü¿©
	United Kingdom	○	○	Office of National Statistics(ONS) - DTIÀÇ ÇùÁ¶
	Denmark	○	○	Danmarks Statistik
	Greece	○	○	Recherche et de la Technologie
	Iceland	×	○	National Research Council of Iceland
	Italy	○	○	Instituto Nazionale di Statistica
	Belgium	○	○	Federal Office for Scientific, Technical and Cultural Affairs(SSTC) - Belgium National Statistical InstituteÀÌ Sampling ÇùÁ¶
	Germany	○	○	Ministry of Education, Science, Research and Technology(BMBF)
	Spain	○	○	Instituto Nacional de Estadistica(INE)
	Ireland	○	○	Department of Science and Technology of Forfas
	Luxembourg	○	○	STATEC °¨µ¶ÇÏ¿¡ CEPS(Centre d'Etudes de Populations, de Pauvrete et de Politiques Socio-Economiques)¿¡¼ ½ÃÇà
	Portugal	○	○	Ministry of Science and Technology - Instituto Nacional de Estatistica(INE)¿Í Çù·Â
non-CIS	Canada	△	○	Statistics Canada
	Australia	△	○	Australian Bureau of Statistics(ABS)
	Czech Republic	×	○	Czech Statistical Office(CSU)
	Korea	○	○	STEPI
	Mexico	×	○	Consejo Nacional de Ciencia y Tecnologia (CONACYT)
	Poland	×	○	Central Statistical Office
	Russia	○	○	Centre for Science Research and Statistics
	New Zealand	○	×	Ministry of Research, Science & Technology
	Switzerland	△	○	Konjunkturforschungsstelle KOF/ETH - Federal Office for Economic Development and Employment¿¡¼ ÀçÁ¤Àû Áö¿ø
	Turkey	×	○	State Institute of Statistics
	United States	pilot	×	planning in 2002, NSF
	Japan	○	×	planning in 2002, NISTEP,
	Hungary	×	pilot	Innovation Research Centre(IKU), Budapest
	Slovak Republic	×	pilot	Statistical Office of the Slovak Republic(SOSR)

3 °¡Àå ¹®Á¦°¡ ÀÖ¾ú´ø ¼³¹®Ç×¸ñÀº Çõ½Å ÁöÃâ(R&D, Çõ½Å°ü·Ã ÅõÀÚ, ±â¼úµµÀÔ, ÈÆ·Ã ¹× ¸¶ÄÉÆÃ¿¡ °üÇÑ Ç×¸ñ)¿¡ °üÇÑ °ÍÀ¸·Î ¹«ÀÀ´ä·üÀÌ ³ô¾Æ µ¥ÀÌÅÍÀÇ ½Å·Úµµ°¡ ÀÇ½É½º·¯¿ï Á¤µµ¿´´Ù. »Ó¸¸ ¾Æ´Ï¶ó °¢±¹°£¿¡ ¼³¹®°úÁ¤À» ÅëÀÏ ÈÇÏ°í Ç¥ÁØÈÇÏ´Â ÀÛ¾÷ÀÌ ¸¸Á·½º·¯¿ï Á¤µµ·Î ÀÌ·ç¾îÁöÁö ¸øÇÏ¿´´Ù. Áï °¢ ³ª¶óµéÀº ¸ðÁý´Ü ¼±Á¤, ¼³¹®½Ã±â, µ¥ÀÌÅÍ¼öÁý¿¡ »ç¿ëµÈ ÇÁ·ÎÅäÄÝ, ¹«ÀÀ´äÀ» ´Ù·ç´Â ¹æ¹ý µî¿¡ ÀÖ¾î Â÷ÀÌ°¡ ÀÖ¾î ±¹°¡°£ °ñ±³¸¦ ¾î·Æ°Ô Çß´Ù.

ÁÖ: ○＝Oslo Manual¿¡ ±â¹ÝÇÑ ¼³¹®Á¶»ç, △＝µ¶ÀÚÀûÀÎ Çõ½ÅÁ¶»ç ½Ç½Ã
ÀÚ·á: OECD(1994), OECD(1999a), OECD(1999b), Archibugi et al.(1994)

1997³â¿¡ °³Á¤µÈ Oslo Manual¿¡ ±â¹ÝÀ» µÎ¾î ½ÃÇàµÈ CIS II´Â À¯·´ 13°³±¹ÀÇ 4¸¸¿©°³ Á¦Á¶¾÷Ã¼¿¡ ´ëÇØ 1994¡-1996³â°£ÀÇ Çõ½ÅÈ°µ¿¿¡ °üÇÑ µ¥ÀÌÅÍ¸¦ Á¦°øÇÏ¿´´Ù. CIS II¿¡¼´Â Á¦Á¶¾÷»Ó ¸¸ ¾Æ´Ï¶ó ¼ºñ½º °Î¹®¿¡ ´ëÇÑ Á¶»ç°¡ ÀÌ·ç¾îÁ³´Ù. ¶ÇÇÑ CIS I¿¡ °ñÇØ ¸¹À° ±¹°¡µéÀÌ Á¶»çÈ°µ¿¿¡ Âü¿©ÇÏ¿´´Ù. CIS III´Â 1998¡-2000³â Çõ½ÅÈ°µ¿¿¡ ´ëÇØ 2001³â°ÎÅÍ ½ÃÇà ÁßÀÌ´Ù. CIS III¿¡¼´Â ±â¾÷ÚÇõ½Å°ú °ñ±â¾÷ÚÇõ½Å°£ÀÇ ±¸ºÐÀ» ¾àÈÇÏ¿© °ñ±â¾÷ÚÀû Çõ½ÅÈ°µ¿¿¡ ´ëÇÑ Áú¹®À» ´ã°í ÀÖÀ¸¸ç, Çõ½Å°ñ¿ëÀ» °¸´Ù ¼¼ºÐÈÇÏ¿´´Ù. ÀÌ´Â Çõ½Å ÀÚÃ¼°¡ °ß°íÇÑ °³³äÀû ±â¹ÝÀ» °¡ÁöÁö ¸øÇß´Ù´Â ÁöÀû°ú ÀÌÀü±îÁö µÎ Â÷·ÊÀÇ ¼³¹®°æÇèÀ» ÅëÇØ °³°° ±¹°¡³» È¤À° ±¹°¡°£¿¡ ÀÀ´äÀÚµéÀÌ ÀÏ°ü¼º ÀÖ°Ô ±â¾÷ÚÇõ½Å°ú °ñ±â¾÷ÚÇõ½ÅÀÇ Â÷ÀÌ¸¦ ÀÌÇØÇÏÁö ¸øÇÏ°í ÀÖ´Ù´Â ÁöÀûÀ» ¹Ý¿µÇÑ °á°úÀÌ´Ù.

Çõ½ÅÁöÇ¥·Î¼ ±â¾÷ÚÇõ½ÅÁ¶»ç´Â ´ÙÀ½°ú °°À» ÀÇÀÇ¸¦ °¡Áø´Ù. ¸ÕÀú ±â¾÷ÚÇõ½ÅÁ¶»ç´Â °æÁ¦ Àü¹Ý ¿¡ ´ëÇÑ Åë°èÀÚ¡¸¦ µµÃâÇÑ´Ù. ÀÌ´Â ±âÁ¸ÀÇ Çõ½ÅÈ°µ¿ÀÇ Æ¯¼º ¹× °»ÁúÀ» ÆÄ¾ÇÇÏ´Âµ¥ ÁÖ·Î »ç¿ëµÇ ¾ú´ø »ç·Ê¿¬±¸³ª ±¹°¡ÎÀû ¿¬±¸Ï¿© °ñ±³ÇÏ¿© °Á¡À» °¡Áö´Â °Î°ÐÀÌ´Ù. ´ÙÀ½À¸·Î ±â¾÷ÚÇõ½ÅÁ¶»ç´Â ±â¾÷À» ÃøÁ¤´ÜÀ§·Î ÇÑ´Ù(ÁÖÃ¼ÀûÀÎ Á¢±Ù¹ý, subject approach). ÀÌ´Â Çõ½Å ÀÚÃ¼¸¦ ´ë»óÀ¸·Î ÇÏ´Â Á¢±Ù¹ý(°´Ã¼ÀûÀÎ Á¢±Ù¹ý, object approach)¿¡ °ñÇØ Çõ½Å Àü¹Ý¿¡ ´ëÇÑ Á¢±Ù°ú ±¹Á¦°ñ±³¿¡ ÀÖ¾î ¿ëÀÌ ¼ºÀ» °¡Áø´Ù. ¶ÇÇÑ ±âÁ¸ÀÇ Åë°èÄ¡¿Í´Â ´Þ¸® ±â¾÷ÚÇõ½Å°ú °ü·ÃµÈ ¸ðµç È°µ¿À» ÃøÁ¤ÇÒ ¼ö ÀÖ´Ù. Áï R&D ÀÌ¿ÜÀÇ °ñR&D Çõ½ÅÈ°µ¿¿¡ ´ëÇÑ °ñ¿ëÀ» ÃßÁ¤ÇÑ´Ù´Â Ãø¸é¿¡¼ ±âÁ¸ ÁöÇ¥¿Í Â÷º°¼ºÀ» °¡Áø´Ù(Smith, 2002). ¶ÇÇÑ ¼ºñ½º °Î¹®ÀÇ Çõ½ÅÈ°µ¿¿¡ ´ëÇÑ Åë°èÄ¡¸¦ Á¦°øÇÑ´Ù´Â Ãø¸é¿¡¼µµ Å« ÀÇÀÇ¸¦ °¡Áø´Ù.

<Ç¥ 2> ±â¾÷ÚÇõ½ÅÁ¶»çÀÇ ¼³¹® °¯¼ö¿Í ÀÚ·á ÇüÅÂ

°¯¼ö±×·ì	¼³ ¸í	ÀÚ·á ÇüÅÂ
ÀÏ¹ÝÁ¤º¸	¾÷Á¾, ±â¾÷ÇüÅÂ, °í¿ëÀÚ¼ö, Àç¹«»óÈ², ÀÎ¼öÇÕº´	metric,
Çõ½ÅÈ°µ¿	Á¦Ç°, ¼ºñ½º ÇõÅÀÇ ¼öÇà¿©°Î, °ñ±â¾÷ÚÀû Çõ½Å ½ÇÀûÀÇ ¿©°Î	binary
Çõ½ÅÀÇ ¾ÆÀÌµð¾î ¿øÃµ	±â¾÷³»°Î, ¿Ü°Î±â¾÷ ¹× ½ÃÀå, ´ëÇÐ ¹× ¿¬±¸¼Ò, ÀÏ¹ÝÁ¤º¸¸¸ÅÀ¼ÀÇ Çõ½Å±â¿©Á¤µµ	ordinal
Çõ½Å ¸ñÀû	½ÃÀåÁ¡À¯, °ñ¿ëÀý°¨, ±ÔÁ¦´ëÀÀ µî	ordinal
±â¾÷È¹µæ ¹× ÀÌÀü	Æ¯Çã, ¶óÀÌ¼¾½º, ³ëÇÏ¿ì µî ±â¾÷Á¦ÈÞ ¹æ½ÄÀÌ³ª Çù·Â µî	binary
±â¾÷º¸È£¼ö´Ü	Æ¯Çã, µðÀÚÀÎ °¹Àâ¼º, ½ÃÀå¼±Á¡ µî	binary
R&DÈ°µ¿	»ç³»¿Ü R&DÁöÃâ, ¿¬±¸ÀÎ·Â±Ô¸ð, Àü´ã°Î¼À¯¹« µî	binary, metric
Çõ½ÅÀÇ Àå¾Ö¿äÀÎ	»ç³»¿äÀÎ ¹× °æÁ¦ÀÛ ¿äÀÎ	ordinal
Çõ½ÅÈ°µ¿ÀÇ ¿µÇâ	Çõ½ÅÁ¦Ç°ÀÇ ¸ÅÃâ¾× ¹× ¼öÃâ¾× °ñÁß	metric

¶Ç ´Ù¸¥ Ãø¸éÀº ±¹Á¦ÀûÀÎ Ç¥ÁØÈµÈ ¹æ¹ý·Ð, ¼³¹®Áö¿¡ ±â¹ÝÀ» µÎ¾î ÁøÇàµÈ´Ù´Â Á¡ÀÌ´Ù. µû¶ó¼ ±¹°¡°£ °ñ±³°¡ °¡´ÉÇÏ´Ù´Â °Á¡À» °¡Áø´Ù. ¶ÇÇÑ ÁÖ±âÀûÀ¸·Î ÁøÇàµÇ°í Á¡ÁøÀûÀ¸·Î ¹®Á¦Á¡À» °³¼±ÇØ °¡´Â ³ë·ÂÀ» ÅëÇØ ½Ã°è¿ °Ð¼®ÀÌ °¡´ÉÇÑ ÀåÁ¡µµ ÀÖ´Ù. CISÀÇ °¡´É¼º¿¡ ´ëÇÑ ÀÎ½ÄÀÌ È®´ëµÇ¸é¼ ±¹Á¦ÀûÀ¸·Î Oslo Manual¿¡ ±â¹ÝÇÏ¿© Á¶»ç¸¦ ½Ç½ÃÇÏ´Â ³ª¶óµéÀÌ È®´ëµÇ°í ÀÖ¾î ±¹

Á¦°£ ºñ±³°¡´É¼ºÀº Á¡Â÷ È®´ëµÉ °ÍÀ¸·Î Àü¸ÁµÈ´Ù. ¸¶Áö¸·À¸·Î, ±â¼úÇõ½ÅÈ°µ¿ÀÇ ÅõÀÔ¿ä¼Ò¿Í ¼º°ú¿ä¼Ò¸¦ ¿¬°è½ÃÅ³ ¼ö ÀÖ´Â °ÅÀÇ À¯ÀÏÇÑ Åë°èÄ¡ÀÌ¸ç, Æ¯È÷ ±â¾÷ÀÇ ÀÏ¹Ý ÇöÈ²(Àç¹«ÇöÈ², ±â¾÷±Ô¸ð µî)¿¡ ´ëÇÑ ÀÚ·á¿Í Çõ½ÅÈ°µ¿À» ¿¬°è½ÃÅ³ ¼ö ÀÖ´Ù´Â ÀåÁ¡À» °¡Áø´Ù. µû¶ó¼ ±â¼úÇõ½ÅÁ¶»ç´Â R&D³ª Æ¯Çã¿Í °°Àº ´Ù¸¥ Çõ½ÅÁöÇ¥¿Í ºñ±³ÇÏ¿© ±â¾÷ÀÇ Çõ½Å°úÁ¤ÀÇ º»ÁúÀ» ±Ô¸íÇÏ´Âµ¥ °¡Àå ÁÁÀº µ¥ÀÌÅÍ¸¦ Á¦°øÇÑ´Ù°í ÇÒ ¼ö ÀÖ´Ù.

Áö±Ý±îÁö ¿Ï·áµÈ CIS I, II µ¥ÀÌÅÍ´Â ¿¬±¸ÀÚµé¿¡°Ô °ø°³µÊÀ¸·Î½á ÀÌ¸¦ È°¿ëÇÑ ¿¬±¸µéÀ» ÅëÇØ Çõ½ÅÁ¤Ã¥ Àü¹Ý¿¡ ´ëÇÑ °ü½É»çÇ×°ú ±×°£ÀÇ Çõ½ÅÀÌ·ÐÀÇ ½ÇÁõÀû °ËÁõ¿¡ ±â¿©ÇÏ¿© ¿Ô´Ù. Áö³ 10¿©³â µ¿¾È Çõ½ÅÀÇ ÀÏ¹ÝÀûÀÎ Æ¯¼º(ÅõÀÔ±¸Á¶, »êÃâÆÐÅÏ, ±â¼úÀÌÀü Á¤º¸Èå¸§, °í¿ë µî) »Ó¸¸ ¾Æ´Ï¶ó ÈÇÐ, ÀÇ¾àÇ°, ±â°è/¿£Áö´Ï¾î¸µ, Á¤º¸Åë½Å µî ´Ù¾çÇÑ ºÎ¹®¿¡ ´ëÇÑ ¿¬±¸°¡ ÁøÇàµÇ¾ú´Ù. ±â¼úÇõ½ÅÁ¶»ç´Â Çõ½ÅÁ¶»ç ÀÚÃ¼·Î¼ Å« ÀÇ¹Ì¸¦ °¡Áö¸ç ±× µ¥ÀÌÅÍ¸¦ È°¿ëÇÑ ¸¹Àº ¿¬±¸µéÀÌ Á¤Ã¥°áÁ¤¿¡ ¹Ý¿µµÉ ¶§ º¸´Ù Å« ÀÇ¹Ì¸¦ Áö´Ñ´Ù. µû¶ó¼ ÀÌ ±ÛÀº ±â¼úÇõ½ÅÁ¶»ç °á°ú°¡ Áö±Ý±îÁö ¾î¶»°Ô Çõ½Å ¹× Á¤Ã¥¿¬±¸¿¡ È°¿ëµÇ°í ÀÖ´ÂÁö¸¦ ¼Ò°³ÇÔÀ¸·Î½á ±â¼úÇõ½ÅÁ¶»ç¿¡ ´ëÇÑ ÀÌÇØ¸¦ ³ôÀÌ°í º¸´Ù ¸¹Àº ¿¬±¸ÀÚµéÀÌ °ü½ÉÀ» °¡Áú ¼ö ÀÖ´Â °è±â¸¦ Á¦°øÇÏ°íÀÚ ÇÑ´Ù.

2. ±â¼úÇõ½ÅÁ¶»ç µ¥ÀÌÅÍÀÇ È°¿ë

Áö±Ý±îÁö EU´Â CIS Åë°è¸¦ È°¿ëÇÑ °ø°øÂ÷¿ø ¹× Çõ½Å°ü·Ã ¿¬±¸¸¸¦ Àû±ØÀûÀ¸·Î Áö¿øÇÏ¿© ¿ÔÀ¸¸ç, OECD ¹× ¿©·¯ ¿¬±¸±â°ü¿¡¼ ÀÌ¸¦ È°¿ëÇÑ ¿¬±¸°¡ ÁøÇàµÇ¾ú´Ù. ÀÌ·¯ÇÑ ¿¬±¸µéÀº ´Ù¾çÇÑ Ãø¸é¿¡¼ »ìÆìº¼ ¼ö ÀÖ´Ù. ¸ÕÀú µ¥ÀÌÅÍ ½Ã±â°¡·Î CIS ÀÌÀü, CIS I, CIS II·Î ³ª´¼öµµ ÀÖÀ¸¸ç, ºÐ¼® ¹üÁÖ¿¡ µû¶ó ±¹°¡°£ Â÷ÀÌÀÇ ¼¼úÀû ºÐ¼®, Æ¯Á¤ »ê¾÷¿¡¼ÀÇ Çõ½ÅºÐ¼®, ±¹°¡³» Çõ½Å±¸Á¶ ºÐ¼®, Çõ½ÅÀÇ Æ¯¼º¿¡ °üÇÑ ºÐ¼®À¸·Îµµ ³ª´ ¼ö ÀÖ´Ù. ¶ÇÇÑ µ¥ÀÌÅÍÀÇ ¼ö¿äÁÖÃ¼º[4])·Îµµ ³ª´ ¼ö ÀÖ´Ù. ¿©±â¼´Â Guellec & Pattinson(2001)À» ÂüÁ¶ÇÏ¿© ±â¼úÇõ½ÅÀÇ ÃøÁ¤ ¹× ÁöÇ¥¿Í °ü·ÃÇÏ¿© ÁÖ¿ä ÀÌ ½´°¡ µÇ¾ú´ø ¿¬±¸³»¿ë¿¡ µû¶ó ±×°£ÀÇ ¿¬±¸°á°ú¸¦ »ìÆì º¸°íÀÚ ÇÑ´Ù.

°¡. Çõ½ÅÃøÁ¤ ¹× ºñ±³

±â¼úÇõ½ÅÁ¶»ç °á°úÀÇ Ã¹¹øÂ° »ç¿ë¿¡ ªÀº Çõ½Å È¤Àº Çõ½ÅºñÀ²ÀÇ Áý°ÇÕÀû ÁöÇ¥¸¦ Á¦½ÃÇÏ´Â °Í ÀÌ´Ù. ÀÌ·¯ÇÑ ÁöÇ¥´Â Æ¯Á¤»ê¾÷¿¡¼ È¤Àº Æ¯Á¤ ±â¾÷±Ô¸ð¿¡¼ ´Ù¸¥ ³ª¶ó¿Í ºñ±³ÇÏ¿© ÇÑ ±¹°¡³ª

4 ±â¼úÇõ½ÅÁ¶»ç¿¡ ÀÇÇØ ¼öÁýµÈ Åë°èÀû ÀÚ·áÀÇ ÁÖ¿ä ÀÌ¿ëÀÚ´Â 5°³ ±×·ìÀ¸·Î ³ª´ ¼ö ÀÖ´Ù(NESTI, 1994). Ã¹Â° ±¹°¡ Á¤Ã¥°áÁ¤ÀÚµé·Î¼, ÀÌµéÀº ¿¬±¸°³¹ß ÇÁ·Î±×·¥ÀÌ³ª »ê¾÷Á¤Ã¥ÀÇ Àü·«Àû °³¹ßÀ» À§ÇÑ Çõ½Å ÆÐÅÏ, ¼º°ú ±×¸®°í ¿Ü±¹°úÀÇ ºñ±³, ±×¸®°í Á¤Ã¥ÀÇ È¿°ú¼º Áõ´ë¿¡ °ü½ÉÀÌ ÀÖ´Ù. µÑÂ°, Áö¿ª Á¤Ã¥°áÁ¤ÀÚ·Î¼, ÀÌµéÀº Áö¿ªÀÇ Çõ½Å ÆÐÅÏ°ú Áö¿ªÀû ÀÎÇÁ¶óÀÇ ¿µÇâ µî¿¡ °üÇÑ ºÐ¼®À» ÇÊ¿ä·Î ÇÑ´Ù. ¼ÂÂ°, °æÁ¦ ¹× Á¤Ã¥ºÐ¼®ÀÚµé¥, ÀÌµéÀº ¾çÁúÀÇ ½ÇÁõ µ¥ÀÌÅÍ¸¦ ¹ÙÅÁÀ¸·Î Çõ½Å, ±â¼úÀÌÀü, °æÀï·Â, °æÁ¦¹ßÀü¿¡ °üÇÑ ºÐ¼®¿¡ °ü½ÉÀ» °¡Áø´Ù. ³ÝÂ°´Â ±¹°¡ÀÇ Çõ½ÅÈ°µ¿°ú ¿ª·®¿¡ °üÇÑ ÀÏ¹ÝÀûÀÎ ¿ä±¸»çÇ×µéÀÌ´Ù. Áï ±â¼ú ¹× Çõ½ÅÁ¤Ã¥°ú °ü·ÃÇÑ ÀÌ½´¿¡ ´ëÇØ ´ëÁßÀû ³íÀÇ¸¦ È®ÀåÇÏ´Âµ¥ È°¿ëµÈ´Ù. ¸¶Áö ¸·À¸·Î ±â¾÷À» µé ¼ö ÀÖ´Âµ¥, ÀÌµéÀº ÀáÀçÀû ¼ö¿äÀÚ·Î¼, Æ¯Á¤ »ê¾÷ ¹× Áö¿ª³»ÀÇ ¹ßÀüµ¿Çâºм®¿¡¼ CIS µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÑ benchmarking ¼ºñ½º±îÁö °ü½ÉÀ» °¡Áú ¼ö ÀÖ´Ù.

»ê¾÷ µî ´Ù¾çÇÑ ´ÜÀ§±×·ìÀÇ »ó´ëÀû Çõ½Å¼ºÀ» º¸¿©ÁØ´Ù.

¸ÕÀú ±¹°¡º° ºñ±³¸¦ »ìÆìº¸ÀÚ. CIS È°µ¿ÀÇ ¸ñÀû ÁßÀÇ ÇÏ³ª´Â ±¹°¡º° ºñ±³°¡´ÉÇÑ Åë°è¸¦ È®º¸ÇÏ´Â °ÍÀÌ´Ù. µû¶ó¼- CIS µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÑ ±¹°¡º° ºñ±³´Â ÁÖ¿ä È°¿ë¿µ¿ªÀÌ¸ç, Á¤Ã¥°áÁ¤ÀÚ¿¡°Ôµµ Áß¿äÇÑ °ü½É»ç ÁßÀÇ ÇÏ³ªÀÌ´Ù. ÀÌ¿¡ °üÇÑ ¿¬±¸´Â °¢±¹¿¡¼- ±â°»ÀûÀ¸·Î ±â°» Åë°è·Î¼- Á¦½ÃÇÏ°í ÀÖÀ¸¸ç, ÀÌ¿Ü¿¡ ºÐ¼®ÀûÀÎ ¿¬±¸µéµµ Á¦½ÃµÇ¾ú´Ù. ¿¹·Î Radosevic(1998)´Â EUÀÇ CIS I¿Í Áß¾ÓÀ¯·´ ¹× µ¿ºÎÀ¯·´±¹°¡ÀÇ Çõ½ÅÈ°µ¿ÀÇ Â÷ÀÌÁ¡ ¹× °øÅëÁ¡À» ³íÀÇÇÏ¿´´Ù. Loof et al.(2001)´Â ÇÉ¶õµå, ³ë¸£¿þÀÌ, ½º¿þµ§¿¡¼-ÀÇ Çõ½Å°ú »ý»ê¼º°úÀÇ °ü°è¸¦ ±â¾÷ Â÷¿ø¿¡¼- »ìÆìº¸¾Ò´Ù. ¿¬±¸°á°ú 3°³±¹À» ºñ½ÁÇÑ »çÈ¸Àû, ¹®È-Àû È¯°æÀ» °¡Áö°í ÀÖÁö¸¸ ±â¾÷ÀÇ »ý»ê¼ºÀº Â÷ÀÌ¸¦ º¸¿´À¸¸ç, ±×ÀÌÀ¯·Î¼- ±â¾÷±Ô¸ð, »ê¾÷±¸Á¶, °ú°Å ¹× ÇöÀçÀÇ R&D ÇàÅÂÀÇ Â÷ÀÌµéÀÌ ÁöÀûµÇ¾ú´Ù.

´ÙÀ½À¸·Î »ê¾÷º° Çõ½ÅÀ²ÀÇ ºñ±³°¡ °¡´ÉÇÏ´Ù. ÀÏ¹ÝÀûÀ¸·Î Á¤ºÎÁ¤Ã¥Àº Ã·´Ü»ê¾÷¿¡ ÁýÁßµÈ °æÇâÀÌ ÀÖÀ¸¸ç, ±×º£ÀÇ Çõ½Å¿¬±¸µéµµ ´ëºÎºÐ R&DÁý¾àÀû »ê¾÷ÀÌ³ª Ã·´ÜºÐ¾ß¿¡ ÁýÁßµÈ °ÍÀÌ »ç½ÇÀÌ´Ù. ±â¼úÇõ½ÅÁ¶»ç¸¦ ÅëÇØ »ê¾÷ Àü¹ÝÀÇ Çõ½ÅºÐÆ÷¸¦ ÆÄ¾ÇÇÏ°í °¢ »ê¾÷ºº Çõ½ÅÀ» ÀÌÇØÇÏ±â À§ÇÑ ¿¬±¸µéÀÌ ÁøÇàµÇ¾ú´Ù. CIS IIÀÇ °á°ú¿¡¼- »ê¾÷º° Çõ½ÅºÐÆ÷¸¦ º¸¸é, EU±â¾÷µé Áß Çõ½Å±â¾÷ÀÇ ºñÀ²Àº Á¦Á¶ºÎ¹®ÀÌ ¼-ºñ½º ºÎ¹®º¸´Ù Çõ½ÅÀ²ÀÌ ³ô¾ÒÀ¸³ª ¼-ºñ½º ºÎ¹®ÀÇ Çõ½ÅÈ°µ¿µµ È°¹ßÈ÷ ÁøÇàµÊÀ» º¸¿´´Ù(Guellec & Pattinson, 2001). ÀüÃ¼ÀûÀ¸·Î ±¹°¡º°·Î °³º° »ê¾÷ÀÇ Çõ½ÅÀ²Àº Â÷ÀÌ¸¦ º¸ÀÌÁö¸¸ Á¦Á¶¾÷°ú ¼-ºñ½º¾÷ÀÇ ºÎ¹®°£ ºñ±³¿¡¼-´Â Å« Â÷ÀÌ¸¦ º¸ÀÌÁö ¾Ê¾Ò´Ù.

ÇÑÆí ±â¾÷±Ô¸ðº°¿¡ µû¸¥ Çõ½ÅºñÀ²À» º¸¸é, EurostatÀÇ CIS II ¿¬±¸°á°ú ±â¾÷±Ô¸ð°¡ Áõ°¡ÇÒ¼ö·Ï Á¦Á¶¾÷°ú ¼-ºñ½º¾÷ °øÈ÷ Çõ½ÅÀ²ÀÌ Áõ°¡ÇÏ¿´´Ù. Á¦Á¶¾÷¿¡¼- ¼Ò±â¾÷µé(20¡-49ÀÎ)ÀÇ °æ¿ì Çõ½ÅÀ²Àº 44%ÀÎ ¹Ý¸é, 250ÀÎ ÀÌ»óÀÇ ¾÷Ã¼ÀÇ °æ¿ì 80%¿¡ °¡±î¿î Çõ½ÅÀ²À» º¸¿´´Ù(Guellec & Pattinson, 2001). ±×·³¿¡µµ ºÒ±¸ÇÏ°í Áß¼Ò±â¾÷¿¡¼-µµ »ó´çÇÑ Çõ½ÅÀÌ ÀÏ¾î³ª°í ÀÖ´Ù´Â »ç½ÇÀº ÁÖ¸ñÇÒ ÇÊ¿ä°¡ ÀÖ´Ù.

ÇÑÆí ½ÅÅÂ¿µ(1999)µµ ¿ì¸®³ª¶ó 1998³â ±â¼úÇõ½ÅÁ¶»ç¸¦ È°¿ëÇÏ¿© ±â¾÷±Ô¸ð¿Í »ê¾÷±¸Á¶°¡ ±â¾÷ÀÇ ±â¼úÇõ½Å ÇàÅÂ¿¡ ¹ÌÄ¡´Â ¿µÇâÀ» ½ÇÁõºÐ¼®ÇÏ¿´´Ù. ¿¬±¸°á°ú ¿ì¸®³ª¶óÀÇ ±â¾÷µéÀº ±â¾÷±Ô¸ð¿Í ±â¾÷Çõ½Å°£ÀÇ °ü°è°¡ ¿ªUÀÚ ÇüÅÂ·Î ´ë±â¾÷ÀÌ³ª ¼Ò±â¾÷º¸´Ù´Â Áß°ß ±Ô¸ðÀÇ ±â¾÷¿¡¼- Çõ½ÅÀÌ È°¹ßÇÏ°Ô ÀÏ¾î³-´Ù´Â »ç½ÇÀ» ¹àÈ÷°í ÀÖ´Ù. ÀÌ´Â Çõ½Å°üÁ¡¿¡¼- ´ë±â¾÷ Á¤Ã¥À» ¾î¶»°Ô °¡Á®°¥ °ÍÀÎ°¡ ÇÏ´Â Ãø¸é¿¡¼- ½Ã»çÇÏ´Â ¹Ù°¡ Å©´Ù.

³ª. Çõ½Å±â¾÷ ±Ô¸ð

±â¼úÇõ½ÅÁ¶»ç¸¦ È°¿ëÇÑ ¿¬±¸´Â ´©°¡ Çõ½Å±â¾÷ÀÌ¸ç, »ê¾÷º°·Î ±â¼úÆ¯¼ºº°·Î Çõ½Å±â¾÷ÀÌ ¾î¶»°Ô ºÐÆ÷ÇÏ°í ÀÖ´ÂÁö¿¡ ´ëÇÑ ºÐ¼®µéÀ» Á¦°øÇÏ°í ÀÖ´Ù. Smith(1999)´Â Çõ½Å°ú »ê¾÷±¸Á¶, °æÁ¦¼ºÀå°£ÀÇ °ü°è¸¦ ³íÀÇÇÏ¸é¼- ±â¼ú¼öÁØº° Çõ½Å±â¾÷ÀÇ ºÐÆ÷¿¡ ´ëÇØ ºÐ¼®ÇÏ¿´´Ù. ÀÏ¹ÝÀûÀ¸·Î Á¤Ã¥Àû °ü½ÉÀÌ Ã·´Ü±â¼ú»ê¾÷¿¡ ÁýÁßµÇ¾î ÀÖÀ¸³ª ½ÇÁõÀûÀÎ ¿¬±¸°á°ú Ã·´Ü±â¼úºÐ¾ß»Ó¸¸ ¾Æ´Ï¶ó Áß±Þ, È¤

À° Àú±Þ±â¾ú»ê¾÷µµ ÀüÃ¼ °æÁ¦¼ºÀå¿¡ Å©°Ô ±â¿©ÇÏ°í ÀÖÀ¸¸ç, ÀÌµé »ê¾÷¿¡¼µµ Çõ½ÅÈ°µ¿ÀÌ °í¸£°Ô ¼öÇàµÇ°í ÀÖ´Ù´Â °ÍÀÌ ¹àÇôÁ³´Ù. µû¶ó¼ Á¤Ã¥°áÁ¤ÀÚµéÀº ¼ºÀåÀÌ ½ÇÁúÀûÀ¸·Î ÀÏ¾î³ª´Â »ê¾÷±¸Á¶¿¡ Çõ½Å½Ã½º°ÅÛÀÇ Æ¯ÀÌ¼ºÀ» ÀÌÇØÇÒ ÇÊ¿ä°¡ ÀÖ´Ù´Â Á¡ÀÌ Áö̀ÀûµÇ¾ú´Ù.

Mairesse & Mohnen(2001)´Â ±â¾÷Æ¯¼ºÀÌ Çõ½Å ¼ºÇâ°ú Çõ½ÅÀÇ °µµ¿¡ ¹ÌÄ¡´Â ¿µÇâÀ» Æò°¡ÇÏ±â À§ÇØ CIS I µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© °è·®°æÁ¦ÇÐÀû ¸ðµ¨±â¹ýÀ» »ç¿ëÇÏ¿´´Ù. ÀÌ ¿¬±¸¸¦ ÅëÇØ ÀúÀÚµéÀº ´ÙÀ½°ú °°Àº Æ¯Â¡À» ¹ß°ßÇÒ ¼ö ÀÖ¾ú´Ù; ¨ç Àü±âÁ¦Ç°, ÇÃ¶ó½ºÆ½, ±â°è ¹× Àå°ñ, ÀÚµ¿Â÷»ê¾÷¿¡ Çõ½ÅÀûÀÎ ±â¾÷ÀÌ º¸´Ù ¸¹¾Ò°í, ¨è ±â¾÷±Ô¸ð¿¡ µû¶ó Çõ½Å¼ºÀÌ Áõ°¡, ¨é ¼öÃâºñÁßÀÌ Áõ°¡ÇÒ¿¡ µû¶ó Çõ½Å¼ºÀÌ Áõ°¡, ¨ê ±â¾÷ÀÌ ´ë±â¾÷¿¡ ¼ÓÇÑ ÀÚÈ¸»çÀÏ °æ¿ì Çõ½Å¼ºÀÌ Áõ°¡, ¨ê ÁÖ¼ÓÀûÀÎ ±¹ÝÇÏ¿¡¼ R&D¸¦ ¼öÇàÇÏ´Â ±â¾÷ÀÌ¼ö·Ï Çõ½Å¼ºÀÌ Áõ°¡, ¨ë ¸Åã¾× ´ë°ñ R&D°ñÁßÀÌ ³ôÀº ±â¾÷ÀÏ¼ö·Ï Çõ½Å¼ºÀÌ Áõ°¡, ¨ì Çù·Â R&D¸¦ ¼öÇàÇÏ´Â ±â¾÷ÀÏ¼ö·Ï Çõ½Å¼ºÀÌ Áõ°¡ÇÑ´Ù.

Evangelista et al.(1997)´Â CIS 2Â÷ ÀÌÅÂ¸® ¼³¹®°á°ú¸¦ ÀÌ¿ëÇÏ¿© ÀÌÅÂ¸® Á¦Á¶¾÷ÀÇ Àü¹ÝÀû Çõ½ÅÈ°µ¿ Æ¯¼º¿¡ ´ëÇØ ±â¼úÇÏ°í ÀÖ´Ù. Áï ±â¾÷µéÀÇ Çõ½Å¼Ò½º°¡ ´Ù¾çÇÏ´Ù´Â Á¡, R&D°¡ Áß¿äÇÑ Çõ½Å¼Ò½ºÀÌ±ä ÇÏÁö¸¸ À¯ÀÏÇÑ ¼Ò½º°´Â ¾Æ´Ï¶ó´Â °Í°ú ¼Ò±Ô¸ð±â¾÷ÀÇ Çõ½ÅÀº ¾ÆÁÖ ¹Ì°ñÇÏ´Ù´Â Á¡, Çõ½ÅÀ» ¼±µµÇÏ´Â °Î¹®(leading sector)À° »ç¿ëÇÏ´Â ÁöÇ¥¿¡ »ó°ü¾øÀÌ ÀÏÁ¤ÇÏ´Ù´Â Á¡, ±×¸®°í ±â¼úÀû °¯È´Â °»ÁúÀûÀ¸·Î ´©ÀûµÇ´Â ¼Ó¼ºÀ» °®´Â´Ù´Â °ÍÀ» º¸¿´´Ù. ÇÑÆí Duran(2000)´Â ±¹°¡°£ÀÇ ±â¾÷±â¼úÅõÀÚÇàÅÂÀÇ Â÷ÀÌ¿¡ ´ëÇØ »ìÆì¼¸°í, °í¼Òµæ ±¹°¡¿¡¼´Â Á¸ÀçÇÏÁö¸¸ ÁßÀú¼Òµæ ±¹°¡¿¡´Â Á¸ÀçÇÏÁö ¾Ê´Â ±â¼úÅõÀÚÇàÅÂÀÇ ÇüÅÂ¸¦ µµÃâÇÏ°í ÀÖ ÇÏ¿´´Ù. ±×´Â ÄÝ·Ò°ñ¾ÆÆ¿Í ¿µ±¹ÀÇ ±â¾÷µ¥ÀÌÅÍ¸¦ È°¿ëÇÏ¿© ÀÌ¸¦ ½ÇÁõÀûÀ¸·Î °Ð¼®ÇÏ¿´´Ù.

Çõ½Å°ü·Ã ±â¾÷ÇàÅÂ¿Í °ü·ÃÇÑ ¿¬±¸´Â ¿©·¯ ÁÖÁ¦¿¡ ´ëÇØ ¼öÇàµÇ¾ú´Ù. Veugelers & Cassiman(1999)´Â º§±â¿¡ ±â¼úÇõ½ÅÁ¶»ç µ¥ÀÌÅÍ¸¦ ¹ÙÅÁÀ¸·Î Á¦Á¶¾÷ ±â¾÷µéÀÇ Çõ½ÅÀü·«À» À¯ÇüÈÇÏ°í Çõ½ÅÀü·«°ú »ê¾÷Æ¯¼º, ±â¾÷Æ¯¼º, Çõ½ÅÆ¯¼º°£ÀÇ °ü°è¸¦ Á¶»çÇÏ¿´´Ù. Çõ½ÅÀÇ °ÒÈ®½Ç¼º, °í°ñ¿ë, ³·À° Àü¿ëÈ¼º µîÀÌ Çõ½ÅÀ» ÀúÇØÇÏÁö´Â ¾ÊÀºÁö¸¸ Çõ½Å¿øÃµÀ» ¼±ÅÃÇÏ´Â µ¥¿¡´Â ¿µÇâÀ» ¹ÌÄ§À» º¸¿´´Ù. Çõ½ÅÁÖÃ¼ Àü·«¿¡ ÀÖ¾î¼µµ ´ë±â¾÷ÀÇ °æ¿ì Çù·Â¿¡¬±¸¿¡ ÀÚÃ¼¿¬±¸¸¦ °´¿ëÇÏ´Â Àü·«À» Ãë ÇÏ´Â ¹Ý¸é, Áß¼Ò±â¾÷Àº µÑ ÁßÀÇ ÇÏ³ªÀÇ Àü·«À» ¼±ÅÃÇÏ´Â °æÇâÀ» º¸¿´´Ù.

Brouwer & Kleinknecht(1999)´Â ³×´ú¶õµå ±â¼úÇõ½ÅÁ¶»ç µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© ±â¾÷ÀÇ Çõ½Å°á°ú¸¦ °¸È£ÇÏ´Â ¹æ¹ýÀÇ ÇüÅÂ¸¦ °Ð¼®ÇÏ¿´´Ù. Æ¯Çã¼ÒÀ¯¸¦ ÅëÇÑ °¸È£´Â R&D Çù·ÂÀÌ¶óµé°£¿¡ Æ¯È÷ ³ôÀº ¼±È£µµ¸¦ °¸¿´°í, ±â¾÷±Ô¸ð³ª °Î¹®°ú·Î Â÷ÀÌ°¡ ÀÖ¾úÀ¸¸ç ÁßÀÇ±â¾÷Àº Æ¯ÇãÃâ¿ø È®·üÀÌ Àû¾ú´Ù. Arundel(2001)µµ 1993³â ³ë¸£¿þÀÌ ¹× 6°³ EU±¹°¡ CIS µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© ±â¾÷°ñ¹Ð°ú Æ¯ÇãÀÇ »ó´ëÀû Áß¿ä¼ºÀ» °áÁ¤ÇÏ´Â ¿äÀÎÀ» °Ð¼®ÇÏ¿´´Ù. ¿¬±¸°á°ú ¸ðµç ±â¾÷±Ô¸ð¿¡ ÀÖ¾î »óÈ£¹èÅ¸¼º À» °¡Áö°í ÀÖ´Â ±â¾÷°ñ¹ÐÀÌ Æ¯Çã°¸´Ù ¼±È£µÊÀ» º¸¿´´Ù. ¶Ç ±â¾÷±Ô¸ð°¡ Áõ°¡ÇÔ¿¡ µû¶ó Á¦Ç°Çõ½Å À» ±â¾÷°ñ¹Ð·Î °¸È£ÇÏ´Â °ñÁßÀÌ Àû¾îÀ¸¸ç °øÁ¤Çõ½ÅÀÇ °æ¿ì¿¡´Â ±â¾÷±Ô¸ð¿¡ ¿¬°ü¼ºÀÌ ¾ø¾ú´Ù. R&D ¼öÇàÁ¤µµ¿¡ µû¶ó ±â¾÷°ñ¹Ð·Î À¯ÁöÇÏ´Â °Í°ú Æ¯Çã°£ÀÇ »ó´ëÀû ¼±ÅÃ°æÇâÀ» ¹ß°ßÇÏÁö´Â ¸ø ÇÏ¿´´Ù. ´Ù¸¸ Çù·Â R&D¸¦ ¼öÇàÇÏ´Â ±â¾÷µéÀº Á¦Ç°Çõ½ÅÀ» Æ¯Çã¸¦ ÅëÇØ °¸È£ÇÏ´Â °ÍÀ» ¼±È£ÇÏ¿´

´Ù.

Brusoni et al.(2002)´Â ÄÚµåÈ-µÈ Áö½ÄÇüÅÂ°¡ ±â¾÷ ¹× ±¹°¡ÀÇ Çõ½ÅÀû ¼º°ú¸¦ À°¼ºÇÏ´Âµ¥ ¹ÌÄ¡´Â ¿ªÇÒ¿¡ ´ëÇØ ³íÀÇÇÏ¿´´Ù. ÀÌµéÀº ÄÚµåÈ-µÈ Á¤º¸°¡ ´Ù¸¥ °Î¹®¿¡¼-ÀÇ Çõ½Å°ú Çõ½Å½Ã½ºÅÛ¿¡ ¾î¶»°Ô ±â¿©ÇÏ´ÂÁö¸¦ »ìÆì°¸±â À§ÇØ °³°º ±â¾÷¿¡¼- ÄÚµåÈ- ¼Ò½ºÀÇ »ç¿ë°ú Çõ½Å½Ã½ºÅÛÀÇ È®»ê·Â°£ÀÇ °ü°è¸¦ Á¶»çÇÏ¿´´Ù. Kaiser(2002)´Â µ¶ÀÏ CIS IIÀÇ ¼-º ñ½º ¹× Á¦Á¶¾÷°Î¹® µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© ±âÁ¸ÀÇ Áö½ÄÈ®»ê ´ë¸®º¯¼ö¸¦ °³°ýÇÏ°í Áö½ÄÈ®»êº¯¼ö¸¦ ±¸¼ºÇÏ´Â ´ë¾ÈÀû ¹æ¹ýµéÀÇ ÁúÀ» ¿¬±¸ÇÏ¿´´Ù.

ÇÑÆí Tether(2002)´Â ¿µ±¹ÀÇ CIS IIµ¥ÀÌÅÍ¸¦ È°¿ë, Çõ½Å±â¾÷°ú ±×µéÀÇ °ø±ÞÀÚ³ª ¼Òºñ ÀÚ¿ÍÀÇ Çù·Â ÆÐÅÏÀ» ¿¬±¸ÇÏ¿´´Ù. ¿¬±¸°á°ú Àú±Þ±â¼ú ¼-º ñ½º±â¾÷À º µ¶ÀÚÀûÀÎ Çõ½ÅÀ» ¼±È£ÇÏ¿´°í, ½ÃÀå ÃÖÃÊÁ¦Ç°º ³¹ß°ú °ºÀº ³ôÀº ÁúÀÇ Çõ½ÅÀ» Ãß±¸ÇÏ´Â ±â¾÷À º °¸´Ù ¸¹À º Çù·Â¿¬±¸¸¦ ¼öÇàÇÏ°í ÀÖ¾ú´Ù. µû¶ó¼- Çõ½ÅÀ» À§ÇÑ Çù·ÂÀÇ Á¤µµ´Â ±â¾÷ÀÇ ÇüÅÂ¿Í Çõ½ÅÀÇ ¼º°Ý(¼¼°èÃÖÃÊ, ±¹³»ÃÖÃÊ µî)¿¡ µû¶ó °áÁ¤µÊÀ» ¾Ë ¼ö ÀÖ¾ú´Ù.

Crepon et al.(1998)À º R&D°ñ¿ëÀ» Æ÷ÇÔÇÏ´Â ¿©·¯ º¯¼öµé°ú »ý»ê¼ºÀÇ °ü°è¿¡ ´ëÇÑ È¸±ÍºÐ¼®À» ½ÃµµÇÏ¿´´Ù. ÀúÀÚ´Â »õ·Ó°Å³ª °³¼±µÈ Á¦Ç°ÀÇ ¸ÅÃâÀÌ ±â¾÷ÀÇ ¿¬±¸³ë·ÂÀ» ÁõÁø½ÃÅ²´Ù´Â »ç½ÇÀ» ¹àÇû´Ù. ÀÌ¿Í ÇÔ²² 'R&D°¡ Çõ½ÅÀ» À§ÇÑ À¯ÀÏÇÑ ¿ä¼Ò°¡ ¾Æ´Ô'µµ ÁöÀûÇÏ¿´´Ù. ÀÌ·¯ÇÑ ±âÁ¶´Â Smith(2000)ÀÇ ¿¬±¸°á°ú¿¡¼-µµ °¸ÀÌ°í ÀÖ´Ù. ÀÌ ¿¬±¸´Â Áö½Ä°æÁ¦¿¡ ´ëÇÑ ¿©·¯ ÁÖÀåµéÀ» Æò°¡ÇÏ°í CIS I µ¥ÀÌÅÍ¸¦ È°¿ëÇÏ¿© À¯·´¿¡¼-ÀÇ Áö½ÄÃ¢Ãâ¿¡ ´ëÇØ ½ÇÁõÀû ºÐ¼®À» ¼öÇàÇÏ¿´´Ù. ºÐ¼® °á°ú, R&D°ñ¿ëÀº Å« °ñÁßÀ» Â÷ÁöÇÏ±ä ÇÏÁö¸¸ Çõ½Å°ñ¿ëÀÇ ÀÏ°ÎÀÏ »ÓÀÌ°í °ñR&D°ñ¿ëµµ »ó´çÈ÷ Áß¿äÇÏ¸ç, Æ¯È÷ »ê¾÷°£¿¡ Çõ½Å¿¡ ÀÖ¾î Áö½Ä°ú ÇÐ½ÀÀÇ ¿ªÇÒÀÌ Áß¿äÇÔÀ» °¸¿´´Ù.

´Ù. Çõ½ÅÀÇ °æÁ¦Àû ¿µÇâ

Çõ½ÅÀÇ ±Ã±ØÀûÀÎ ¸ñÀûÀº °æÁ¦Àû ¿µÇâÀ» ±Ø´ëÈ-ÇÏ´Â °ÍÀÌ´Ù. µû¶ó¼- Çõ½Å°ú °æÁ¦Àû ¿µÇâ°úÀÇ °ü°è´Â Áß¿äÇÑ °ü½É»ç ÁßÀÇ ÇÏ³ªÀÌ´Ù.

Çõ½ÅÀÌ »ý»ê¼º¿¡ ¹ÌÄ¡´Â ¿µÇâ¿¡ ´ëÇØ Çõ½ÅÁ¶»ç°¡ ¼öÇàµÇ±â Àü¿¡µµ R&D°¡ ±â¾÷ÀÇ ¼º°ú¿¡ ¹ÌÄ¡´Â ¿µÇâÀÌ³ª Æ¯ÇãÃâ¿ø°úÀÇ °ü°è¿¡ ´ëÇØ¼- ¿¬±¸°¡ ÁøÇàµÇ¾ú´Ù. ÀÌµé ¿¬±¸µéÀº ±â¼úÇõ½ÅÀÌ ±â¾÷ÀÇ ¼º°ú¿¡ ¾çÀÇ »ó°ü°ü°è¸¦ °¡ÁüÀ» °¸¿´´Ù. Çõ½ÅÁ¶»ç¸¦ ÀÌ¿ëÇÑ ¿¬±¸¿¡¼-µµ °ñ½ÁÇÑ °á·Ðµé ÀÌ µµÃâµÇ¾ú´Ù. Çõ½ÅÁ¶»ç µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© ¼öÇàÇÑ °¡Àå Æ÷°ýÀûÀÎ ¿¬±¸´Â µ¶ÀÏ ÁßºÓÅëº°èÃ»¿¡ ÀÇÇØ CIS II µ¥ÀÌÅÍ¿Í ¿¬°£ »ý»êÁ¶»ç(Production Survey)¸¦ ÀÌ¿ëÇÏ¿© ¼öÇàµÇ¾ú´Ù. ÀÌ´Â '±â¾÷¼º°ú¿¡ ´ëÇÑ Çõ½ÅÀÇ Áß¿ä¼º'(Klomp and van Leeuwen, 1999)ÀÌ¶ó´Â °¸°í¼-·Î Ãâ°£µÇ¾ú´Ù. 8,000 °³ ±â¾÷ÀÚ·á¸¦ ÀÌ¿ëÇÏ¿© ÀúÀÚµéÀº ÇØ´ç±â°£(1994¡-1996)ÀÇ ¸ÅÃâ¾× ¼ºÀå·üÀ» µµÃâÇÏ¿´´Ù. Àü¹Ý ±â¾÷¿¡ ´ëÇØ¼-´Â Çõ½Å±â¾÷°ú °ñÇõ½Å±â¾÷°£¿¡ ¸ÅÃâ¾× Áõ°¡À²ÀÌ Â÷ÀÌ°¡ ¾øÁö¸¸, ÀÌ¸¦ ¼¼ºÐÇÏ¿© »ìÆì°¸é Â÷ÀÌ°¡ ÀÖ¾ú´Ù. °è·®°æÁ¦Àû ºÐ¼®À» ±â¹ÝÀ¸·Î ÇÏ¿© ÀúÀÚµéÀº 'Çõ½Å¼º°úÀÇ ¼öÁØÀº ¸ÅÃâ

¾× Áõ°¡¿¡ Áß¿äÇÑ ¾çÀÇ ¿µÇâÀ» ¹ÌÄ£´Ù°í °á·ÐÁþ°í ÀÖ´Ù(Guellec & Pattinson, 2001).

¶ÇÇÑ Çõ½Å¿¡ ´ëÇØ Á¤Ã¥°áÁ¤ÀÚµéÀÌ ´øÁö´Â °¡Àå °ó¹øÇÑ Áú¹® ÁßÀÇ ÇÏ³ª´Â Çõ½Å°ú °í¿ëÃ¢Ãâ°ú ÀÇ °ü°è¿¡ °üÇÑ °ÍÀÌ´Ù. ÀÏ¹ÝÀûÀ¸·Î °æÁ¦ÇÐ ÀÌ·ÐÀº ¹Ì½Ã ¼öÁØ¿¡¼ Àå±âÀûÀ¸·Î °¼ ¶§ Çõ½Å°ú °í¿ë°úÀÇ °ü°è°¡ ¾ø´Ù°í º¸°í ÀÖ´Ù. ÀÌ¿Í °ü·ÃÇÏ¿© Klomp and van Leewen(1999)´Â Çõ½Å±â¾÷°ú °ñÇõ½Å±â¾÷¿¡ ÀÇÇÑ °í¿ë¼ºÀå·üÀ» ºÐ¼®ÇÏ¿´´Ù. ±× °á°ú Çõ½Å±â¾÷°ú °ñÇõ½Å±â¾÷°£¿¡ °í¿ëÁõ°¡À² ÀÇ Â÷ÀÌ´Â ¹Ì°ñÇÑ ¼öÁØÀÌ¾ú´Ù. °¸´Ù ¹Ì½¼±×·ì¿¡ ´ëÇØ¼´Â ¾à°£ÀÇ Â÷ÀÌ°¡ °¸Ì±ä ÇÏÁö¸¸ ÀüÃ¼ÀûÀ¸·Î ±× Â÷ÀÌ´Â ÀÛ¾Ò´Ù. °è·®°æÁ¦ÇÐÀû Á¢±ÙÀ» ÀÌ¿ëÇØ Licht(EC, 1997, pp.139¡-140)´Â µ¶ÀÏ°ú ³×´ú¶õµå¿¡¼ Çõ½Å°ú ±â¾÷¼öÁØ¿¡¼ °í¿ëÃ¢Ãâ°úÀÇ ¾çÀÇ °ü°è¸¦ ¾ò¾î³ÂÀ¸¸ç, Á¦Ç° ¹× °øÁ¤Çõ½ÅÀº °í¿ëÃ¢ÃâÀ» À¯µµÇÑ´Ù°í °á·ÐÀ» ³»¸®°í ÀÖ´Ù.

Greenan and Guellec(2001)À° ±â¾÷ ¼öÁØ°ú »ê¾÷ ¼öÁØ¿¡¼ ÇÁ¶û½º CIS Iµ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇØ Çõ½ÅÀ¸·Î ÀÎÇÑ °í¿ëÀÇ °¯È¸¦ °üÂûÇÏ¿´´Ù. ÀÌµéÀÇ ¿¬±¸ °á°ú¿¡ µû¸£¸é 15,000°³ ±â¾÷¿¡ ´ëÇØ Çõ½Å±â¾÷ ¹× °Î¹®À° °ñÇõ½Å±â¾÷ ¹× °Î¹®°¸´Ù ÀÏÀÚ¸®¸¦ °¸´Ù ¸¹ÀÌ Ã¢ÃâÇÏ¿´´Ù. ÇÑÆí, EIMSÀÇ Áö¿øÀ» ÅëÇØ ÁøÇàµÈ Cesaratto & Stirati(1996)ÀÇ ¿¬±¸´Â ÀÌÅÂ¸®¾Æ Á¦Á¶¾÷ °Î¹®¿¡¼ Çõ½ÅÀÌ °í¿ë¿¡ ¹ÌÄ¡´Â ¿µÇâ¿¡ ´ëÇØ ½ÇÁõÀû ¿¬±¸¸¦ ¼öÇàÇÏ¿´´Ù. ¿¬±¸ °á°ú ÀüÃ¼ÀûÀ¸·Î´Â Çõ½Å±â¾÷ÀÌ °í¿ë¿¡ ¹ÌÄ¡´Â È¿°ú°¡ °ñÇõ½Å±â¾÷°ú Å« Â÷ÀÌ°¡ ¾øÁö¸¸ ÁßÀÒ±Ô¸ðÀÇ Çõ½Å±â¾÷±ºÀ° ´Ù¸¥ ¾î¶² ±×·ì°¸´Ù °í¿ëÃ¢Ãâ¿¡ ¸¹À° ±â¿©¸¦ ÇÏ´Â °ÍÀ¸·Î ³ªÅ¸³µ´Ù.

Á¤Ã¥ÀÇ È¿°ú¼º Æò°¡´Â Á¤Ã¥°áÁ¤ÀÚÀÇ ±íÀº °ü½ÉÀÌ ÀÖ´Â ÁÖÁ¦ÀÌ°í, Çõ½ÅÁ¶»ç´Â °ñ±³¿ìÀ§¸¦ Á¡ÇÏ°í ÀÖ´Â ¾ÆÁ÷±îÁö´Â ¸î°³ÀÇ ¿¬±¸¸¸ÀÌ ÁøÇàµÈ »óÅÂÀÌ´Ù. ÀÌÅÂ¸® CIS I Á¶»ç¿¡¼´Â ¿©·¯ Çõ½ÅÁ¤Ã¥ ¿¡ ´ëÇÑ ±â¾÷¹ÝÀÀÀ» Á¶»çÇÏ¿´´Ù. Pianta & Sirilli(1998)ÀÇ °¸°í¼¿¡ ÀÇÇÏ¸é Çõ½Å±â¾÷ÀÇ ´ë°Î°ÐÀ° Á¸ÀçÇÏ´Â Çõ½ÅÁ¤Ã¥µéÀÌ Çõ½ÅÈ°µ¿°ú °° ¿¬°ü¼ºÀÌ ¾ø¾ú´Ù. 60%°¡ Á¤°Î±â±ÝÀÌ Áß¿äÇÏÁö ¾ÊÀ¾Ò´Ù°í ´äÇßÀ¸¸ç, 85%ÀÇ ±â¾÷ÀÌ EUÀÚ±ÝÀ» ÀÌ¿ëÇÑ ÀûÀÌ ¾ø°í, 74%´Â ±ÝÀ¶À¯ÀÎ¼¾Æ¼°ê(¼¼Á¦)¸¦ ÀÌ¿ëÇÏÁö ¾ÊÀ¾ÒÀ¸¸ç, 90%ÀÌ»óÀÌ R&D¿Í ±â¼ú¼°ñ½º, °ø°ø Á¶´Þ°ú Çõ½ÅÈ°µ¿ÀÌ °ü·Ã¼°ÀÌ ¾ø´Ù°í ´äÇÏ¿´´Ù. ´ë±â¾÷ÀÇ °æ¿ì °¢ Çx¸ñ¿¡ ´ëÇØ °¢°¢ 30%, 50%, 60%, 70%ÀÇ °ñÀ²À» °¸¿´´Ù. µû¶ó¼ EUÀÇ ±â¼ú Á¤Ã¥ÀÌ ´ë±â¾÷À» ÁÖ ´ë»óÀ¸·Î ÇÏ¸ç °£Á¢Àû ÀÎ¼¾Æ¼°ê´Â ±â¾÷±Ô¸ð¿¡ Â÷ÀÌ°¡ ¾øÀÌ½À» ÃßÁ¤ÇÒ ¼ö ÀÖ ´Ù. Ã·´Ü±â¼ú»ê¾÷ÀÌ °¸´Ù Á¤°ÎÁ¤Ã¥¿¡ ¹Î°¨ÇßÀ¸¸ç, ´ÜÀ§ Á¾¾÷¿øº´ ³ôÀ° Çõ½Å°ñ¿ëÀ» °¡Áø ±â¾÷ÀÌ °¸´Ù Á¤°ÎÁ¤Ã¥¿¡ ¹Î°¨ÇÏ¿´´Ù.

Arundel(EC, 1997, p.104)´Â À¯·´ ÀüÃ¼ÀÇ CIS I ÀÚ·á¸¦ ÀÌ¿ëÇÏ¿© ¼¼ °¡Áö ÇüÅÂÀÇ °ø°ø¿¬±¸ÀÇ À¯¿ë¼º¿¡ ´ëÇØ °Ð¼®ÇÏ¿´´Ù. ±Ô¸ð°¡ Å¬¼ö·Ï, R&DÁý¾àµµ°¡ Áõ°¡ÇÒ¼ö·Ï, ÀüÃ¼ ¸ÅÃâ¾×¿¡¼ Çõ½ÅÁ¦ Ç°ÀÇ ¸ÅÃâ¾×ÀÌ Áõ°¡ÇÒ¼ö·Ï °ø°ø¿¬±¸ÀÇ Áß¿ä¼ºÀÌ ³ô´Ù°í Æò°¡ÇÏ¿´´Ù. Mohnen and Hoareau(2000)µµ Çõ½Å Çù·Â´ë»ó ¹× Á¤º¸¿øÃµÀ¸·Î¼ ´ëÇÐ, Á¤°Î¿¬±¸¼ÒÀÇ À¯¿ë¼ºÀ» °Ð¼®ÇÏ±â À§ ÇØ CIS I Á¤°¸¸¦ ÀÌ¿ëÇÏ¿´´Ù. ÇÁ¶û½º, µ¶ÀÏ, ¾ÆÀÏ·£µå, ½ºÆäÀÎÀ» ´ë»óÀ¸·Î ÇÑ ¿¬±¸¿¡¼ ´ë±â¾÷À° °¸´Ù °ø°ø¿¬±¸¿Í ¿¬°è¼ºÀ» ¸¹ÀÌ °¡Áö¸ç, Á¤°ÎÁö¿øÀ» ¹Þ´Â ±â¾÷°ú Æ¯Çã¸¦ ¼ÒÀ¯ÇÑ ±â¾÷ÀÌ °¸´Ù °ø°ø¿¬±¸¿Í ±ä¹ÐÈ÷ ¿¬°èµÇ¾î ÀÖ¾ú´Ù.

¶ó. Çõ½ÅÀÇ Æ¯¼º

(1) Çõ½ÅÆÐÅÏ

»ê¾÷º° Çõ½ÅÆÐÅÏ¿¡ °üÇÑ ¿¬±¸´Â CIS ÀÌÀü¿¡µµ ´Ù¾çÇÑ Á¤º¸¸¦ ÀÌ¿ëÇÏ¿© ¸¹À º ¿¬±¸°¡ ÁøÇàµÇ ¾úÀ¸¸ç, Pavitt(1984)ÀÇ ¿¬±¸°¡ ´ëÇ¥ÀûÀÌ¶ó ÇÒ ¼ö ÀÖ´Ù. »ê¾÷Àü¹ÝÀÇ ±â¾÷Çõ½ÅÈ°µ¿¿¡ ´ëÇÑ Á¶»çÀÎ CIS´Â ±×µ¿¾È ÀÌ·ç¾îÁø ¼¼úÀû »ê¾÷Çõ½Å¿¬±¸ ¹× ÀÌ·ÐÀ» ½ÇÁõÀûÀ¸·Î Áõ¸íÇÏ´Âµ¥ È°¿ëµÇ°í ÀÖ´Ù. EIMS¿¡¼ Áö¿øÇÑ ÃÊ±âÀÇ ¿¬±¸°úÁ¦µéÀº ¸¹À º °æ¿ì »ê¾÷º° Çõ½ÅÆ¯¼ºÀ» ¿¬±¸ÇÏ´Â °ÍµéÀÌ ´Ù¼ö¸¦ Â÷ÁöÇÏ¿´´Ù. ÀÌ¶§ ¿¬±¸°¡ ¼öÇàµÈ »ê¾÷À º ÈÇÐ»ê¾÷(Albach et al., 1996), ÄÄÇ»ÅÍ»ê¾÷(Malerba et al., 1996), ÀÇ¾à»ê¾÷(Sharp & Patel, 1996) µîÀÌ´Ù.

Marsili & Verspagen(2001)´Â ³×´ú¶õµå Á¦Á¶¾÷¿¡¼ ±â¼úÃ¼Á¦(technological regimes)ÀÇ Æ¯¼º À» Á¶»çÇÏ¿´´Ù. ±×µéÀº CIS II µ¥ÀÌÅÍ¸¦ È°¿ëÇÏ¿© PavittÀÇ ±â¼úÃ¼Á¦ ºÐ·ù¸¦ Å×½ºÆ®ÇÏ¿´´Âµ¥, ¿¬±¸°á°ú ±â¼úÃ¼Á¦°£¿¡ ¨ç ±â¼úÀû °¡´É¼º(technological opportunities)ÀÇ ¼öÁØ°ú À¯Áö, ¨è ±â¼úÀû °¡´É¼ºÀÇ ³»º ÎÀû, ¿ÜºÎÀû ¼Ò½ºÀÇ ºÐÆ÷, ¨é Çõ½ÅÀ» À§ÇÑ »õ·Î¿î °¡´É¼ºÀÌ °³¹ßµÇ´Â Æ¯Á¤ÇÑ ±ÈÀû µî ¸î°¡Áö ÁÖ¿äÇÑ Â÷ÀÌ°¡ ÀÖÀ½À» º¸¿´´Ù. µû¶ó¼ ºÐ¼®Àû Æ²·Î¼ ±â¼úÃ¼Á¦°¡ À¯¿ëÇÔÀ» ¼³¸íÇÏ°í ÀÖ´Ù.

¼ÛÀ§Áø(1999)Àº ÇÑ±¹ÀÇ 1998³â ±â¼úÇõ½ÅÁ¶»ç µ¥ÀÌÅÍ¸¦ È°¿ëÇÏ¿© °¢ »ê¾÷¿¡¼ ±â¼úÇõ½ÅÀÇ ±â È¸¸¦ Á¦°øÇØÁÖ´Â ¿øÃµ°ú ±â¼úÇõ½Å ¼º°ú¸¦ ÀüÀ¯ÇÏ´Âµ¥ ÇÊ¿äÇÑ ¼Ò´ÜÀÎ ÀüÀ¯Ã¼Á¦¸¦ Áß½ÉÀ¸·Î »ê ¾÷º° ±â¼úÇõ½ÅÆÐÅÏÀÇ Â÷ÀÌ¸¦ »ìÆì º¸¾Ò´Ù. ÀúÀÚ´Â »ê¾÷¸¶´Ù »ó´ëÀûÀ¸·Î ´õ Áß¿äÇÑ ±â¼úÇõ½Å ¿ø Ãµ°ú ±â¼úÀüÀ¯¼ö´ÜÀÌ Á¸ÀçÇÏ¸ç, µû¶ó¼ ÀÌ¹ÝÀû ÁöÇâ¼ºÀ» °®´Â Á¤ºÎÁ¤Ã¥µéÀº »ê¾÷º°·Î Â÷º°Àû È¿°ú°¡ ÀÖÀ» ¼ö ÀÖ´Ù°í ÁÖÀåÇÏ¿´´Ù.

ÇÑÆí ÃÖ±Ù µé¾î Å¬·¯½ºÅÍ¿¡ ´ëÇÑ °ü½ÉÀÌ Áõ´ëµÇ¸é¼ Å¬·¯½ºÅÍ ¹× Áö¿ªÇõ½ÅÆÐÅÏ¿¡ °üÇÑ ¿¬±¸ °¡ Áõ°¡ÇÏ°í ÀÖ´Ù. Evangelista et al.(2001)´Â CIS IÀÇ µ¥ÀÌÅÍ¸¦ ÀÌ¿ëÇÏ¿© Áö¿ªÇõ½ÅÃ¼Á¦ÀÇ Æ¯¼º ºÐ¼®ÀÌ °¡´ÉÇÔÀ» º¸¿´À¸¸ç, Arvanitis & Hollenstein(1998)´Â 1996³â¿¡ ½ÃÇàµÈ ½º À§½º ±â¼úÇõ½Å Á¶»ç °á°ú¸¦ ÀÌ¿ë, Å¬·¯½ºÅÍ¸¦ 5°³ Çõ½ÅÇüÅÂ·Î ºÐ·ùÇÏ¿´´Ù. Æ¯Á¤»ê¾÷°ú ÀÌµé Çõ½ÅÇüÅÂ°£¿¡´Â Á÷Á¢ÀûÀÎ °ü°è°¡ ¾ø´Ù°í °á·ÐÁþ°í ÀÖ´Ù.

°Î¹®º° Çõ½ÅÆÐÅÏ, Æ¯È÷ ¼ºñ½º±â¾÷ÀÇ Çõ½ÅÆ¯¼º ¹× ÆÐÅÏ¿¡ ´ëÇÑ ¿¬±¸µµ Áö¿ä ¿¬±¸ÁÖÁ¦ÀÇ ÇÏ³ªÀÌ´Ù. Evangelista & Sirilli(1998)´Â ¼ºñ½º ºÎ¹® Çõ½ÅÈ°µ¿ÀÇ Æ¯¼ºÀ» ºÐ¼®ÇÏ¿´À¸¸ç, Hollenstein(2000)´Â ½ºÀ§½ºÀÇ CIS II Á¶»ç°á°ú¸¦ ÀÌ¿ëÇÏ¿© ¼ºñ½º ºÎ¹®¿¡ ´ëÇÑ Å¬·¯½ºÅÍ ºÐ¼®¿¡ ±â¹ÝÇÏ¿© ±â¾÷µéÀÇ Çõ½Å¸ðµå(innovation mode)¸¦ ³ª´©¾ú´Ù. 5°³ ¸ðµå´Â ´ÙÀ½°ú °°´Ù; ¨ç ±â¼ú ±â¹Ý, ³×Æ®¿öÅ©-ÁëÇÕ Ã·´Ü±â¼ú ±â¾÷, ¨è IT±â¹Ý, ¿ÜºÎÁöÇâÀû(outward-looking) °³¹ßÀÚ, ¨é ½ÃÀå ±â¹Ý, ³»ºÎÁöÇâÀû(inward-looking) Á¡ÁøÀû Çõ½Å±â¾÷, ¨ê º ñ¿ëÀý°¨, °¡Ä¡»ç½½ ±â¹Ý °øÁ¤ Çõ½Å±â

¾÷, ¨ë ³·À° ÅÂµµ(low-profile), ³»º ÎÁöÇâÀû Çõ½Å±â¾÷.

(2) Çõ½Åº ñ¿ë ±¸Á¶

CIS´Â ºñ R&DÈºµ¿¿¡ ´ëÇÑ ¿©·¯ Çõ½ÅÈºµ¿ ºñ¿ëÀ» ±â¾÷µé¿¡°Ô Áú¹®ÇÏ¿´´Ù. ¶ÇÇÑ »õ·Î¿î ±â¼ú °ú Àåºñ¿¡ ´ëÇÑ ÅõÀÚ¸¦ ÅëÇÑ ±â¼úÀÌÀü°ú °°À° Çõ½Å°ü·Ã ÅõÀÚ µ¥ÀÌÅÍµµ ¼öÁýÇÏ¿´´Ù. Æ¯È÷ CIS III¿¡¼´Â Çõ½Åºñ¿ë¿¡ ´ëÇÑ Áú¹®ÀÌ º¸´Ù ±¸Á¶ÈµÇ¾î ÀÌÈÄ ¿¬±¸¿¡¼´Â ÀÌ¿¡ ´ëÇÑ ¸¹À° ¿¬±¸µéÀÌ ÁøÇàµÉ °ÍÀ¸·Î ÀÌ¸ÁµÈ´Ù.

CIS II¸¦ ÀÌ¿ëÇÏ¿© Çõ½Åºñ¿ë ±¸Á¶¸¦ ºÐ¼®ÇÑ ¿¬±¸¿¡ µû¸£¸é, R&Dºñ¿ëÀÌ 10¡-25%, ºñ R&DÁö ÃâÀÌ ¾à 30%¸¦ Â÷ÁöÇÏ¿´À¸¸ç, ÅõÀÚÁöÃâÀÌ 40¡-60%¸¦ ±¸¼ºÇÏ¿´´Ù(Smith, 2002). ¸ÅÃâ¾× ´ëºñ Çõ½ÅÁöÃâÀÇ ºñÀ²À° À¯·´ °¢±¹¿¡ ´ëÇØ »ê¾÷°°·Î ¸Å¿ì À¯»çÇÏ°Ô ³ªÅ¸³µ´Ù. ÀÌ´Â Çõ½ÅÁöÃâÀÇ Á¤µµ°¡ ±¹°¡°° Æ¯¼º°¸´Ù´Â »ê¾÷°° Æ¯¼ºÀ» ¹Ý¿µÇÑ´Ù´Â °ÍÀ» º¸¿©ÁØ´Ù°í ÇÏ°Ú´Ù.

3. ¸ÎÀ½¸»

À§¿¡¼ »ìÆìº¸¾Òµí ÀÌ ±â¼úÇõ½ÅÁ¶»ç´Â Çõ½Å°ü·Ã ¿¬±¸ ¹× Á¤Ã¥µµÃâÀ» À§ÇØ ´Ù¾çÇÑ Ãø¸é¿¡¼ È°¿ëµÉ ¼ö ÀÖ´Ù. °¢±¹À° ±â¼úÇõ½ÅÁ¶»ç °á°ú¸¦ ÀÚ±¹ ±â¾÷µéÀÇ Çõ½ÅÈºµ¿À» ÀÌÇØÇÏ°í »ê¾÷±¸Á¶³» Çõ½Å±â¾÷ÀÇ ºÐÆ÷¿Í Æ¯¼ºÀ» ÆÄ¾ÇÇÏ´Âµ¥ ´Ù¾çÇÏ°Ô È°¿ëÇÏ°í ÀÖ´Ù.

¿ì¸®³ª¶ó¿¡¼µµ ¼¼°èÀûÀÎ Á¶»ç¿¡ º¸Á¶¸¦ ¸ÂÃß¾î ¼¼ Â÷·Ê¿¡ °ÉÃÄ ¼³¹®Á¶»ç¸¦ ½ÃÇàÇÑ ¹Ù ÀÖ´Ù (À±¹®¼·, ÀåÁø±Ô, 1997; 2000; ½ÅÅÂ¿µ ¿Ü, 2002). ÀÌµé ¼³¹®Á¶»ç´Â OECDÀÇ ±âº» ¼³¹®Áö¸¦ ±¹³»¿¡ ÀûÇÕÇÏµµ·Ï ¼öÁ¤ÇÑ ¼³¹®Áö¸¦ ÀÌ¿ëÇÏ¿© Oslo Manual¿¡ ±â¹ÝÀ» µÎ°í ½ÃÇàµÇ¾ú´Ù. ÀÌÁß Ã³À½ µÎ Â÷·ÊÀÇ ¼³¹®Á¶»ç´Â ¿ì¸®³ª¶ó »ê¾÷ Àü¹ÝÀÇ ±â¾÷µéÀÇ ±â¼úÇõ½ÅÈºµ¿À» ÆÄ¾ÇÇÏ´Âµ¥ ÁßÁ¡À» µÎ¾î¸¦ Á¦°øÇÏ¿´À¸³ª, È°¿ëÃø¸é¿¡¼ ¹Ì¾àÇÏ¿´´Ù´Â Æò°¡¸¦ ¹Þ°í ÀÖ´Ù. ÀÌ¿¡ µû¶ó STEPI´Â 2002³âµµ 3Â÷ Á¶»ç¸¦ °èÈ¹·Î Çõ½Å¿¬±¸ ¹× Á¤Ã¥µµÃâÀ» À§ÇÑ ¿¬±¸¸¦ À§ÇØ µ¥ÀÌÅÍ¸¦ Á¦°øÇÔÀ¸·Î½á ÀÌ¸¦ È°¿ëÇÑ ¸¹À° ¿¬±¸¸¦ Áö¿øÇÒ °èÈ¹ÀÌ´Ù. µû¶ó¼ À§¿¡¼ ±â¼úÇÑ ¼±Áø±¹µéÀÇ ¿¬±¸ »ç·ÊµéÀÌ ¾ÆÀÌµð¾î Ã¢Ãâ À» À§ÇÑ ÁßÁ¿äÇÑ ´Ü¼¸¦ Á¦½ÃÇÒ ¼ö ÀÖÀ» °ÍÀ¸·Î ±â´ëÇÑ´Ù.

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