



EU

EU 가

II.

1.

EU ‘ (the Science and Technology Foresight)’

FP6(Framework Program 6)

FP7(Framework Program 7)

가

EU ‘Thinking the Future,’ ‘Debating the Future,’ ‘Shaping the Future’ 3 가 . ‘Thinking the Future’

‘Debating the Future’ , , NGO

EU , 가 ,

‘Shaping the Future’ 가 ,

EU (Knowledge Sharing Platform)

‘ ; ‘ ; ‘ (Monitoring Foresight activities in Europe and fostering their European dimension)”

‘ (Support to mutual learning between Foresight managers, practitioners, users and stakeholders of policy-making organizations in Europe)”

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가 가가 . “  
 (Promoting EU wide Foresight approaches)”  
 9 .  
 EU 가 (the European  
 Parliament and EPTA), (the European Commission), (the European  
 Science Foundation: ESF), (ForSociety) .

2.

EU , .  
 10 , EU  
 Biotechnology, Information Society,  
 Transport, Energy, Sustainable development, Manufacturing 가

< 1 >

General	The debate on the future of the EU	- 2000 2 EU 'Dialogue on Europe' 12 'Nice' Intergovernmental Conference
	The Scenarios Europe 2010 project	- 1997 EU Forward Studies Unit , EU 가
	The IPTS Futures Project	- 2010 195 가 , ,
Information society	ISTAG Scenarios for Ambient Intelligence in 2010	- IST Advisory Group IST - Ambient Intelligence
	FISTERA project	- 가 IST
	Vision Book project	- ICT ' 가 가 '
Biotechnology	EU strategy and debate	- EU 가 2001 2010
	The Biosociety	- , , , '
Transport	Fantasie project	- , '
	FORESIGHT for TRANSPORT	- FP5 GROWTH 75 2001 가 2004 160

Energy	EurEnDel	- 30
	The Nordic H2 Energy Foresight	- 16 2003 2005
	The Atlas project	-
Sustainable development	World Summit on Sustainable Development in 2002	- 가 가
	EU strategy for sustainable development	- 2001 EU 가
Manufacturing	Future for Leading-edge manufacturing	- 15 20
	The ManVis (Manufacturing Visions) project	- 2010

3.

EU 10  
 가 'Foresighting  
 the New Technology Wave'  
 2004 'Converging Technologies for a Diverse Europe'  
 NSF Science  
 and Technology Foresight(IPTS) , 'Quality of Life,' 'The ethical, legal and societal aspects of the converging technologies,' 'Transformation effect of NBIC Technologies on the Economy,' 'Converging Technologies and the Natural, Social, and Cultural World' 4  
 SIG [2]. 2005 EU 'Science and technology foresight unit' 2015~2020  
 가 'Key Technologies for Europe'  
 2005 9 [3].

III. IT

EU IT 5 1983  
 ESPRIT . ESPRIT IT

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. ESPRIT 4  
(Framrework Programme) 1984 FP1 . FP

IT  
(DG) ICT DG IST 가  
IT (EC)  
, 2000 가 .  
FP6(2002~2006 ) FP7  
. FP6 170 36  
(IST) . FP7 (EC)  
ICT 130 . FP6  
(Aml) IST , FP7  
IT 가 [1].

### 1. Ambient Intelligence

1999 ISTAG Aml 'Framework Programme 6' Information  
Society IST  
'pervasive computing' 'ubiquitous computing'

#### < 2> Ambient Intelligence

Ambients	Intelligence
Embedded Systems	Common sense reasoning
I/O Devices	Computational intelligence
MEMS	Context arousal
Sensors	Emotions and computing
Smart materials	Multimedia
Ubiquitous Communications	Multi-modal interactions
Communities and Environments	
Participatory	
Prototyping, hands-on	
Security	
Software Engineering	
Technology Platform	
Integration Issues	

[4]. Aml 3 가 (Ubiquitous Computing & Ubiquitous Communication) (Intelligent Interface)가 ,

2>

### 2. WonderWeb

WonderWeb FP6 (FET) (EU) IST [5]. 가

가 (syntax)

(OWL)

### 3. CHIL

CHIL(Computers in the Human Interaction Loop)

Aml [6]. CHIL 15

### 4. ASG

(Weske ) (Adaptive Services Grid: ASG)

. 26 가

2006 ASG

[7].

### 5. Wear-IT-at-Work

Otthein Herzog 36 (Airbus, SAP, Siemens )가 가  
FP6 Wear-IT-at-Work Aml [8].

( , )

, , , , 4 .

### 6. Macs

(Multi-sensory Autonomous Cognitive Systems Interacting with Dynamics Environments for Perceiving and Using Affordances: Macs)

[9].

### 7. Mirror

Mirror .  
, 가 가  
Cyber Glove [10].

### 8. RobotCup

David Vernon 가 RobotCup , , [11].

Yarp( ) .

### 9. ORCHESTRA

(Open Architecture and Spatial

< 3> Key Technologies for Europe Research Agenda

Information Technology	Artificial Intelligence
	Virtual and Augmented Reality
	Human-Computer Integration
	Fields of Applications for IT
	Coupling the Real and the Virtual
	Automation of Programming
	System Architectures
	The Potential in the Levels of Abstraction
	The Physical Level
Communications	Network Design and Novel Architectures for the Internet
	Models for Understanding the Networks of Today And Tomorrow
	Cyberinfrastructure, Digital Networks and Information Economies
	The Triangle Internet, Mobile, Wireless

Data Infrastructure for Risk Management: ORCHESTRA)

[12].

10. Swarm - bots

Swarm- bots

Marco Dorigo 가 [13].

, FET

11. Key Technologies for Europe

10~15 2005 EU 'Science and technology foresight unit'

가 'Key Technologies for Europe' , [14].

12. FISTERA

EC ICT FISTERA (Foresight on Information Society Technologies in the European Research Area)

7 FP 가 [15].

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, FISTERA

EU IST

. FISTERA Delphi

EU 25

, EU 15

(NMS)

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### 13. Beyond the Horizon

Beyond the Horizon

FP7, FP8, FET(Future and Emerging Technology)

European Research Consortium for Infomatics and Mathematics

18

가

ICT

[16].

6

Thematic Group(Pervasive Computing and Communication,

Nano-electronics and Nanotechnologies, Security, Dependability and Trust, Bio-ICT

Synergies, Software Intensive Systems)

가

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## IV.

IT

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EU IT

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MIT

Rodney Brooks

가 RobotCup

가

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EU 가 가

2.

(guideline)' . EU 2002~2006  
 GNP 1.27% , 2000 930  
 가 44%가 ( , ,  
 ) 6.5% . EU ICT 가  
 • FP6 170  
 36 IT IST . FP7  
 EC ICT 130 . EU가  
 가  
 EU가 가  
 가

가 가 가 .

3.

EU Proactive , Open  
 . Proactive  
 Open  
 . EU 가 가 Award  
 . Award 가  
 . Award

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(ESF)

(EUROHORC)가

가 (EURYI)

100

25

가

4.

FISTERA

EU IT

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가

가

'worldviews'

가

가

V.

ICT

ICT

가

. EU

EU

가 EU

가

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- [1] European Commission, "Information Technology," 2005.
- [2] European Commission, "Foresighting the new technology wave - Expert Group," 2004.
- [3] European Commission, "Key Technologies for Europe – Expert Group," 2005.
- [4] <http://cordis.europa.eu/ist/istag.htm>
- [5] <http://wonderweb.semanticweb.com>
- [6] <http://chil.server.de>
- [7] <http://asg-platform.org>
- [8] <http://www.wearITatwork.com>
- [9] <http://www.macs-eu.org>
- [10] <http://www.lira.dist.unige.it/projects/mirror>
- [11] <http://www.robotcup.org>
- [12] <http://www.eu-orchestra.org>
- [13] <http://www.cordis.lu/ist/fet/press.htm#success>
- [14] <http://cordis.europa.eu/foresight/home.html>
- [15] <http://fistera.jrc.es>
- [16] <http://www.beyond-the-horizon.net>