

# Health & Welfare e-Service Status in Korea

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Center for Information Technology Convergence  
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01

● Overview

# National Informatization Legislatures in Korea



## Framework Act on Informatization Promotion

- Established: 1995
- Provide foundation for efficient implementation of informatization policies and promote growth of information & telecommunication industry
- Article 5. Establishment of Framework Plan on Informatization Promotion
- Article 6. Establishment of Implementation Plan



## Framework Act on National Informatization

- Enactment: 2009
- Overall revision of the Framework Act on Informatization Promotion  
(combined the two legislatures: Knowledge Information Resource Management Act and Act on Narrowing of the Digital Divide)
- Changed from “Informatization Promotion” to ‘Utilization of Knowledge Information’
- Informatization is described with the government as an active body  
(application target and scope is not limited to e-government, but broadened to include the entire nation.)
- Sets forth the legal basis for establishing and implementing fundamental policies pertaining to informatization of Korea.
- Article 6. Establishment of Framework Plan on National Informatization
- Article 7. Establishment of Implementation Plan for National Informatization

# Implementation of Informatization Policies in Korea

Informatization Policy		Description
<b>Framework Plan for Administration DB</b> (1975~1986)		<ul style="list-style-type: none"> <li>◦ Administration DB</li> <li>- Development of 5-year administration DB system.</li> <li>- DB for vehicle registration, vehicle related complaint filing/processing, driver license, etc.</li> </ul>
<b>National Basic Information System</b> (1987~1996)		<ul style="list-style-type: none"> <li>◦ Development of the National Basic Information System (NBIS)</li> <li>- Development of 5 Major NBIS (Administration, Defense, Public Safety, Finance, Education &amp; Research)</li> <li>- Implementation per task category (Civil, Real Estate, Automobile, Employment, Economic Statistics, Customs, etc.)</li> </ul>
<b>Framework Plan on Informatization Promotion</b>	Phase I (1996~2000)	<ul style="list-style-type: none"> <li>◦ Development of High Speed Information &amp; Communication Infrastructure</li> <li>- Establishment of 10 major projects including education and administration</li> <li>- Includes the development of high speed information &amp; communication infrastructure and fostering information and communication industry.</li> </ul>
	Phase II (1999~2002)	<ul style="list-style-type: none"> <li>◦ Cyber KOREA</li> <li>- Establishment of vision &amp; strategy for creative knowledge based nation</li> <li>- Expansion of demand base through the development of information infrastructure, fostering new industries &amp; creation of new jobs, and education in informatization.</li> </ul>
	Phase III (2002~2006)	<ul style="list-style-type: none"> <li>◦ e-KOREA</li> <li>- Surpass quantitative growth (internet service penetration) and pursue performance oriented informatization such as enhanced productivity.</li> <li>- Advanced infrastructure, world's leading IT industry, and strengthened global cooperation</li> </ul>
	Phase III (cont.) (2003~2007)	<ul style="list-style-type: none"> <li>◦ Broadband IT KOREA</li> <li>- Administrative service innovation, improved efficiency, and government transparency through the development of world's best e-Government System</li> <li>- Development of integrated broadband network and strategic fostering of new IT growth engine</li> </ul>
	Phase III (revised) (2006~2010)	<ul style="list-style-type: none"> <li>◦ u-KOREA</li> <li>- Creation of ubiquitous society in which all citizens can benefit the technology advancement</li> <li>- Support convergence and integration technologies, and provide self-sustainable ecological industry infrastructure.</li> </ul>
<b>Framework Plan for National Informatization</b>	Phase IV (2009~2012)	<ul style="list-style-type: none"> <li>◦ Smart-KOREA</li> <li>-3 Major Themes: Hard Working Government, Abundant Life through Digital Technology, and Reliable Information Society</li> <li>-2 Major Engine: Creative Soft Power, High-Tech Digital Convergence Infrastructure</li> </ul>
	Phase V (2013~2017)	<ul style="list-style-type: none"> <li>◦ Creative Digital Korea</li> <li>-4 Core ICT Strategies: Propel creative economy through informatization, apply creative ICT of the nation, strengthen citizens' creative capacity, and advance creative digital infrastructure.</li> </ul>

# e-Service

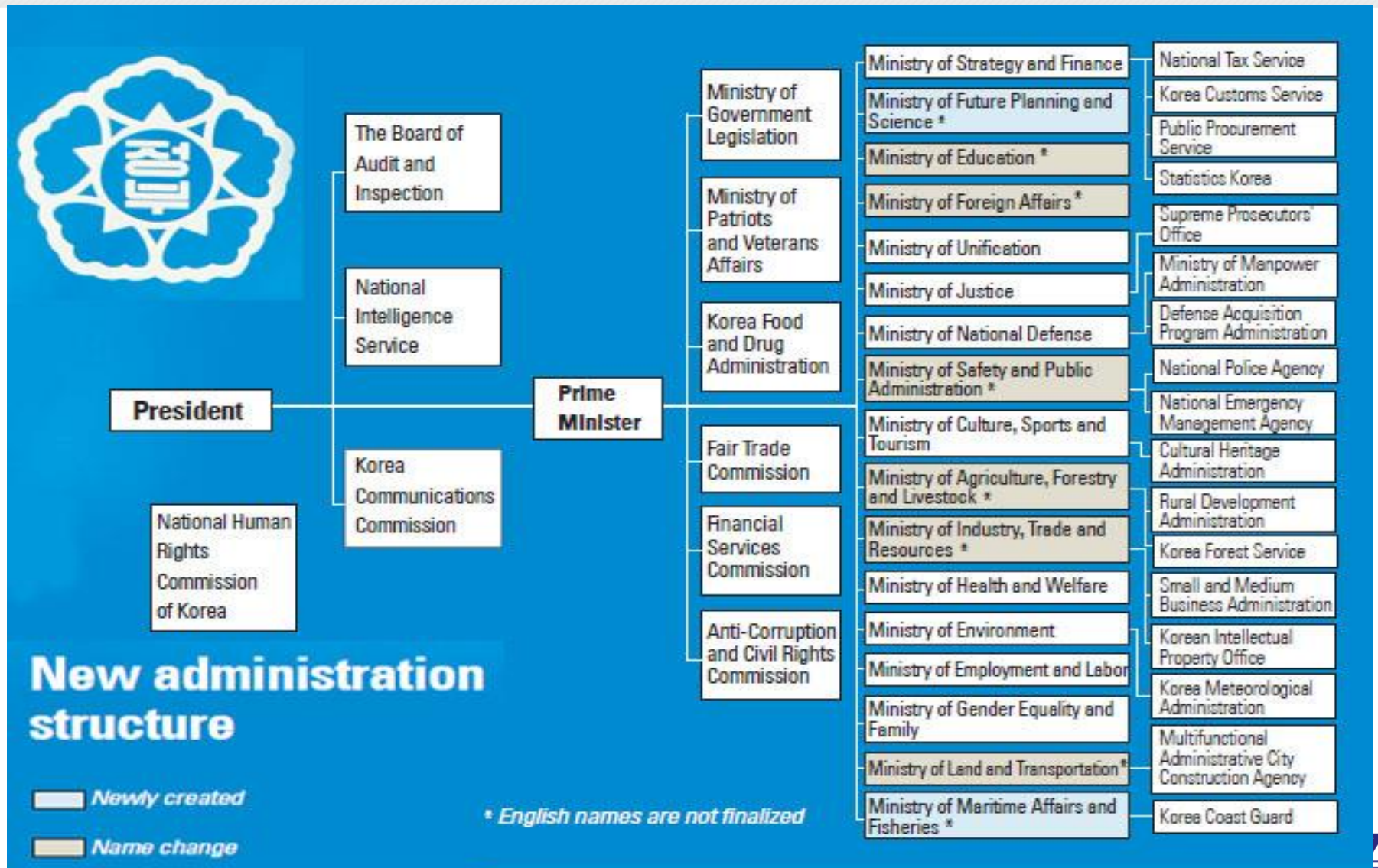
- e-Service 5C's
  - contents
  - connectivity
  - communication
  - community
  - commerce

5C's	Description
Contents	Provide various contents, such as relevant policies, program, legislatures, and system through e-Service.
Connectivity	Provide comprehensive and tailored e-Service through networked DB and integration of administrative process.
Communication	Provide seamless communication between service provider and consumer.
Community	Sharing of information and communication.
Commerce	Facilitate growth of service business.

02

- Health & Welfare Informatization

# Government Organization - Korea





# Health & Welfare Informatization Vision & Goal (2014)

<b>Vision</b>	Optimize health & welfare support system to create convenient consumer oriented tailored system
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<b>Informatization Strategy</b>	Provide integrated and comprehensive health & welfare service tailored for each stage of life.	Establish foundation for happy life by creating new jobs through Open/Disclose/Sharing	Efficiency in health & welfare information management through ICT based system
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<b>9 Major Implementation Projects</b>	<ul style="list-style-type: none"> <li>- Advanced health care system for sharing immunization and health records.</li> <li>- Revamp welfare system for childcare, youth, handicapped, and senior citizens to provide tailored service for each stage of life.</li> <li>- Seamless interconnection among institutions' DB system.</li> </ul>	<ul style="list-style-type: none"> <li>- Create integrated public health &amp; welfare information access/sharing infrastructure.</li> <li>- Develop health &amp; welfare big-data analysis system for supporting new growth engine.</li> <li>- Improve legislatures/regulations for information security and accessibility.</li> </ul>	<ul style="list-style-type: none"> <li>- Develop integrated and comprehensive ICT health &amp; welfare information provisioning infrastructure.</li> <li>- Develop information provisioning infrastructure that utilizes U-technology and efficiently provides health industry information.</li> <li>- Improve information system operation and management efficiency.</li> </ul>
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# Health & Welfare e-Service Status

## ➤ Health & Welfare Informatization Project

Cat.	Project	5C's					
		Contents	Connectivity	Communication	Community	Commerce	
H E A L T H	- Organ Transplant DB System	○	○	○			
	- Emergency Transportation DB Network		○	○			
	- Integrated Emergency Medical Service Network	○	○	○			
	- Comprehensive Pharmaceutical Management System	○	○	○			
	- Public Hospitals & Regional Clinics DB System	○	○	○			
	- Regional Health & Medical Service DB System	○	○	○	○		
	- National Health Information Portal	○		○	○		
	-Korea Centers for Disease Control (Comprehensive Tuberculosis DB Management System, Immunization Record Management System, National Health & Disease Prevention Knowledge Base System)	○ ○ ○	○ ○ ○	○ ○ ○	○		
S O C I A L	- Comprehensive Childcare DB System	○	○	○		○	
	- i-sarang Childcare Portal	○	○	○	○	○	
	- momplus Childbirth & Childcare Policy Portal	○		○			
	- i-dolbom Integrated Childcare System	○	○	○		○	
	- e-saeil System	○	○	○			
	- Women Net	○		○	○		
	- Sex Offender Information Disclosure & Notice System	○	○				
	W E L F A R E	- Single Senior Citizen Emergency Care System		○	○		
		- e-haneul Funeral Service DB System	○	○	○		
		- Senior Citizens Welfare Portal	○	○	○		
- Integrated Social Welfare Management Network (Social Welfare DB System: Happiness e-Um, Government-wide)		○	○	○	○		
- Social Welfare Facility Information System			○	○		○	
- e-Voucher System	○	○	○		○		



## ● Major Projects

# Major Health & Welfare Informatization Projects

## ➤ Organ Transplant Management DB System

Cat.	Description
Project Overview	Manage basic information and test results of organ donors and required patients, handle compensation payout, and manage organ transplant related forms.
URL	konos.go.kr (Korea Organ Transplant Management Center Website)
Period	2001 ~
Agency	Korea Centers for Disease Control & Prevention: Department of Organ Donors Support

## ➤ Emergency Transportation DB Network

Cat.	Description
Project Overview	Standardize site/transportation phase assessment system and develop DB to facilitate implementation of appropriate emergency measures and hospital selection when transporting emergency patient.
Period	2003 ~
Agency	Ministry of Health & Welfare: Division of Emergency Health Care National Medical Center: Emergency Medical Service Center National Emergency Management Agency

## ➤ Integrated Emergency Medical Service Network

Cat.	Description
Project Overview	Develop two-way communication system between emergency medical service provider and supervisor through integration of networks among emergency medical centers, ambulance, operation agency, and emergency medical service management department.
Period	2010 ~
Agency	Ministry of Health & Welfare National Medical Center: Emergency Medical Service Center Nationwide: 470 emergency medical centers, 12 emergency medical service information centers, 16 regional departments of the National Emergency Management Agency

# Major Health & Welfare Informatization Projects

## ➤ Comprehensive Pharmaceutical Management System

Cat.	Description
Project Overview	It's the system for supporting the gathering, management, and usage of pharmaceutical product distribution data for Pharmaceutical Management Information Center. The system provides logistics information, including manufacturer/importer, distribution, and procurement on pharmaceutical products as well as statistics and analysis data medicine usage through health insurance and Medical Care Assistance.
Period	2007 ~
Agency	Ministry of Health & Welfare: Division of Pharmaceutical Policy Health Insurance Review & Assessment Service: Korea Pharmaceutical Information Service

## ➤ Public Hospitals & Regional Clinics DB System

Cat.	Description
Project Overview	Develop and operate standardized Electronic Medical Record (EMR) System in all public hospitals (5 psychiatric centers, tuberculosis centers, and Hansen Hospital) and 34 regional clinics operated by the Ministry of Health & Welfare.
Period	2008 ~
Agency	Ministry of Health & Welfare: Division of Information Management Bureau of Public Health Policy Nationwide: 8 public hospitals and 34 regional clinics

# Major Health & Welfare Informatization Projects

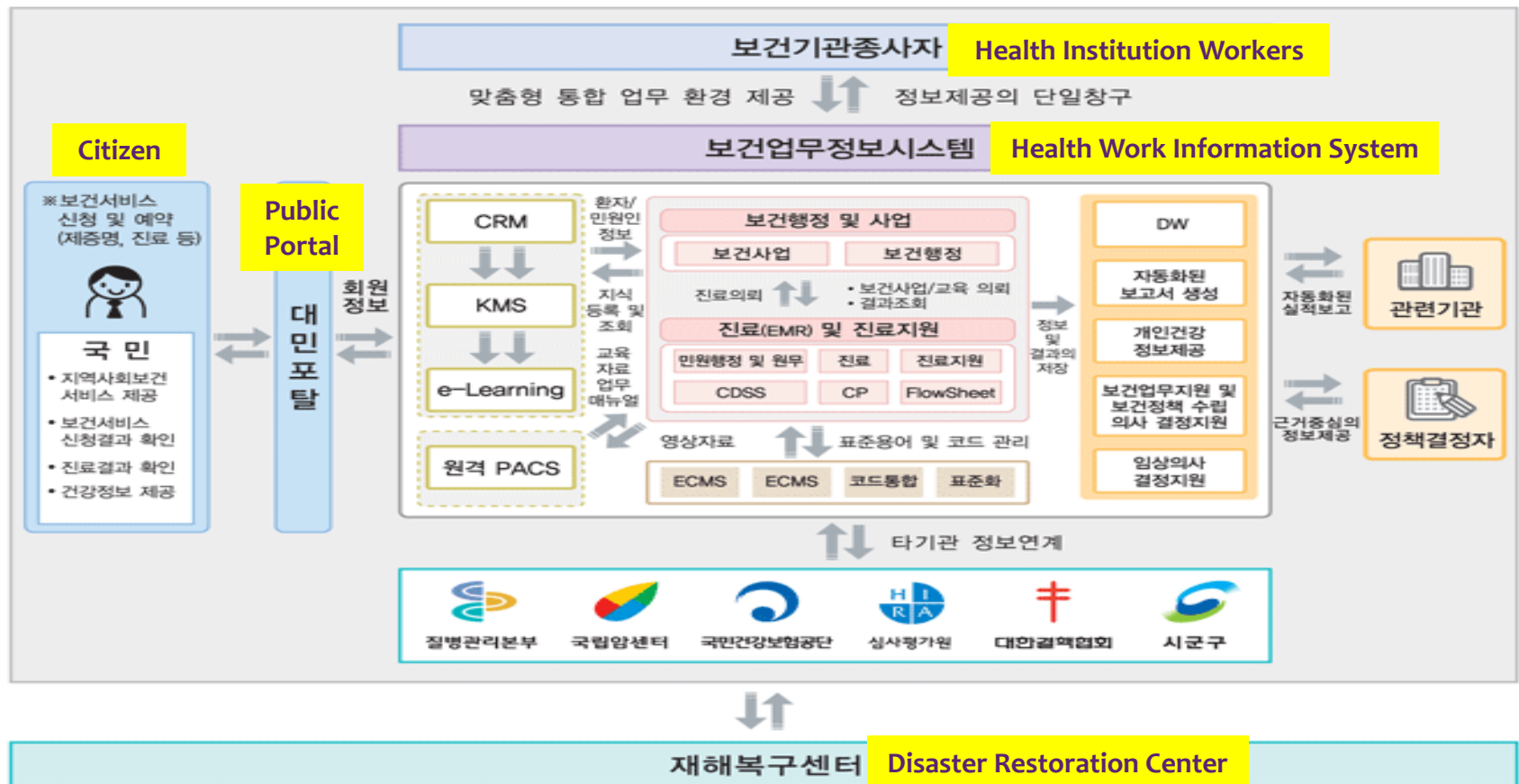
## ➤ Regional Health & Medical Service DB System

Cat.	Description
Project Overview	Provide support to nationwide public health centers (regional clinics, branch clinics, community health centers, and health & medical centers) for health related services including administrative support, medical check-up, and health promotion projects.
Period	2006 ~
Agency	Ministry of Health & Welfare: Division of Health Policy Korea Health and Welfare Information Service Nationwide: 3500+ public health care facilities (240 regional clinics, approx. 1,370 branch clinics, approx. 1,900 community health centers, and 15 health & medical centers)

# Major Health & Welfare Informatization Projects

## Regional Health & Medical Service DB System

<시스템구성도>



# Major Health & Welfare Informatization Projects

## ➤ National Health Information Portal

Cat.	Description
Project Overview	Integrate disease information, medical facility information, and pharmaceutical information that are dispersed in various agencies and departments and provide the data in OpenAPI format to provide verified high quality health and medical related information (over 1,200 health and health education information including information on 450 major diseases, 300 rare illnesses, and 65 contagious diseases, and over 3,000 2D/3D image and multimedia contents)
URL	www.health.mw.go.kr
Period	2007 ~
Agency	Ministry of Health & Welfare Korea Health and Welfare Information Service Centers for Disease Control National Health Insurance Service Health Insurance Review & Assessment Service Ministry of Food and Drug Safety National Cancer Center Korea Institute for Health and Social Affairs and others



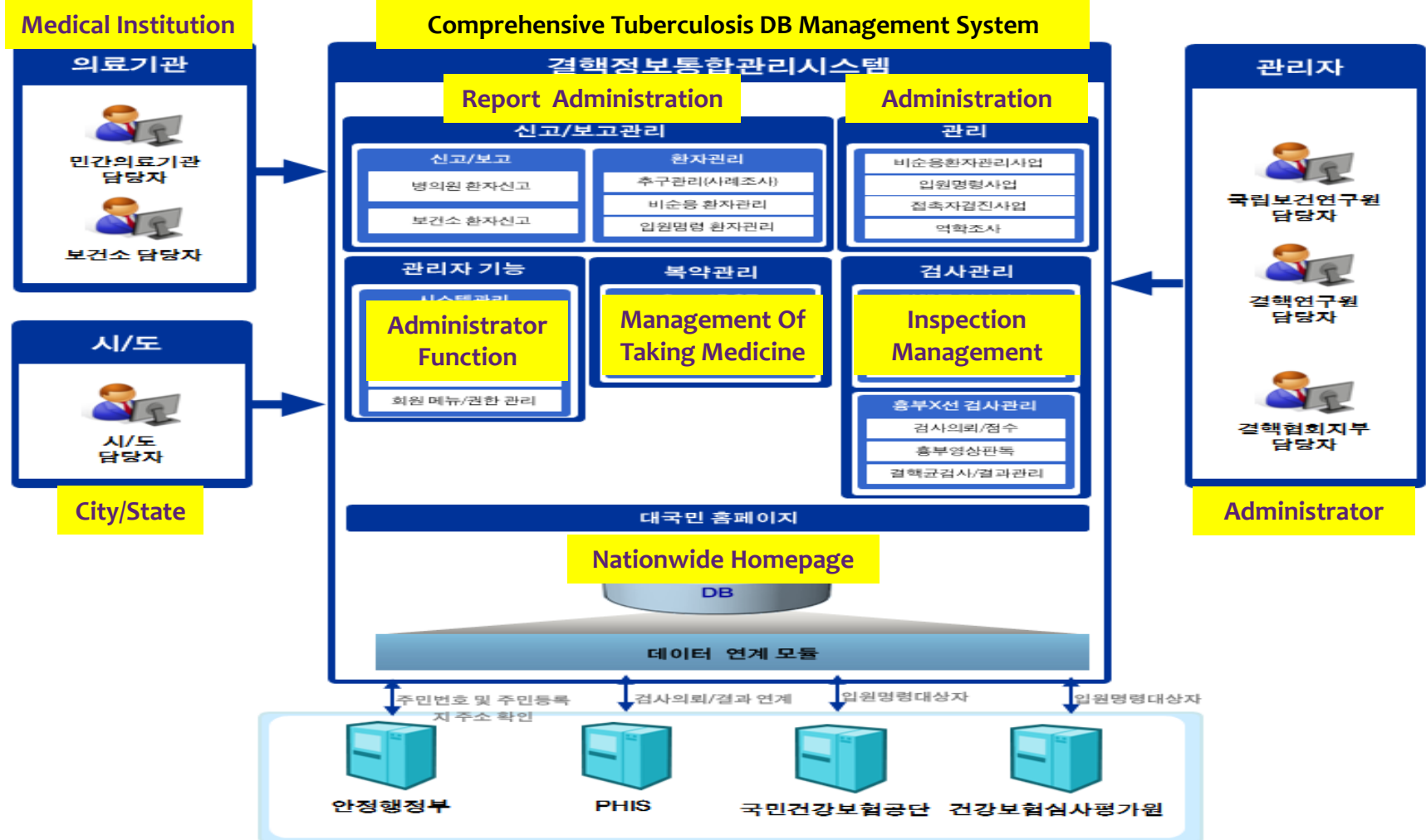
# Major Health & Welfare Informatization Projects

## ➤ Comprehensive Tuberculosis DB Management System

Cat.	Description
Project Overview	National portal website that provides tuberculosis related information and statistical data to support tuberculosis test, as well as reporting and managing patients infected with tuberculosis.
URL	is.cdc.go.kr (Tuberculosis management system) tbfree.cdc.go.kr (Tuberculosis awareness website) tbzero.com(Zero Tuberculosis website)
Period	2009 ~
Agency	Centers for Disease Control Korean National Tuberculosis Association

# Major Health & Welfare Informatization Projects

## Comprehensive Tuberculosis DB Management System



# Major Health & Welfare Informatization Projects

## ➤ Immunization Record Management System

Cat.	Description
Project Overview	A website that provides support for individual's immunization history management and immunization related administrative process for city, province, clinics, and hospitals.
URL	nip.cdc.go.kr (Immunization related support and information website)
Period	2002 ~
Agency	Centers for Disease Control City & Province Regional Clinics Hospitals

# Major Health & Welfare Informatization Projects

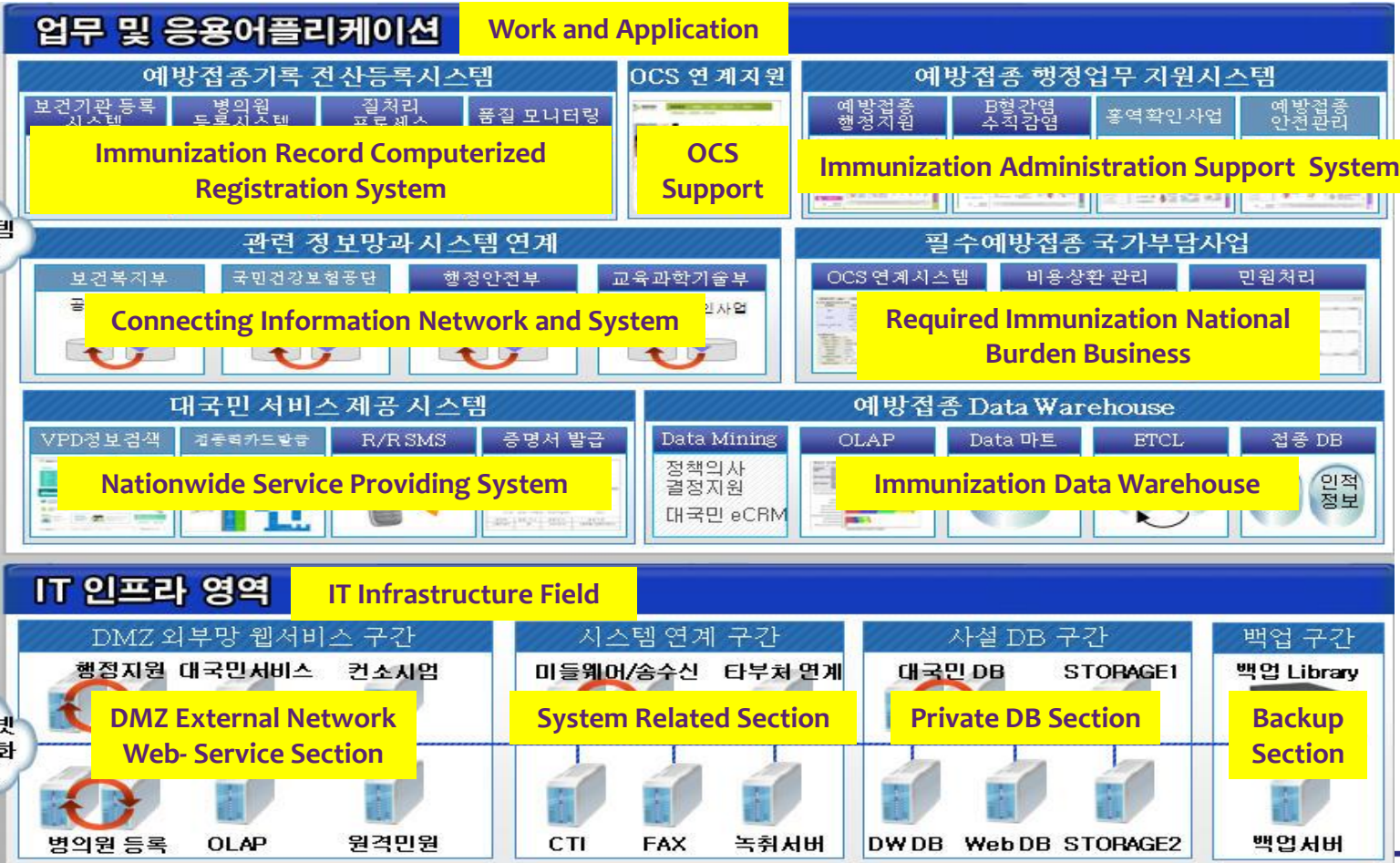
## Immunization Record Management System

Related Org.

- 연계기관
- 보건복지부
- 행정안전부
- 건강보험관리공단
- 교육과학기술부
- User
- 사용자
- 일반인
- 보건실무자
- 정책담당자
- 의료기관
- 산/학/연

시스템 연계

인터넷 암호화 통신



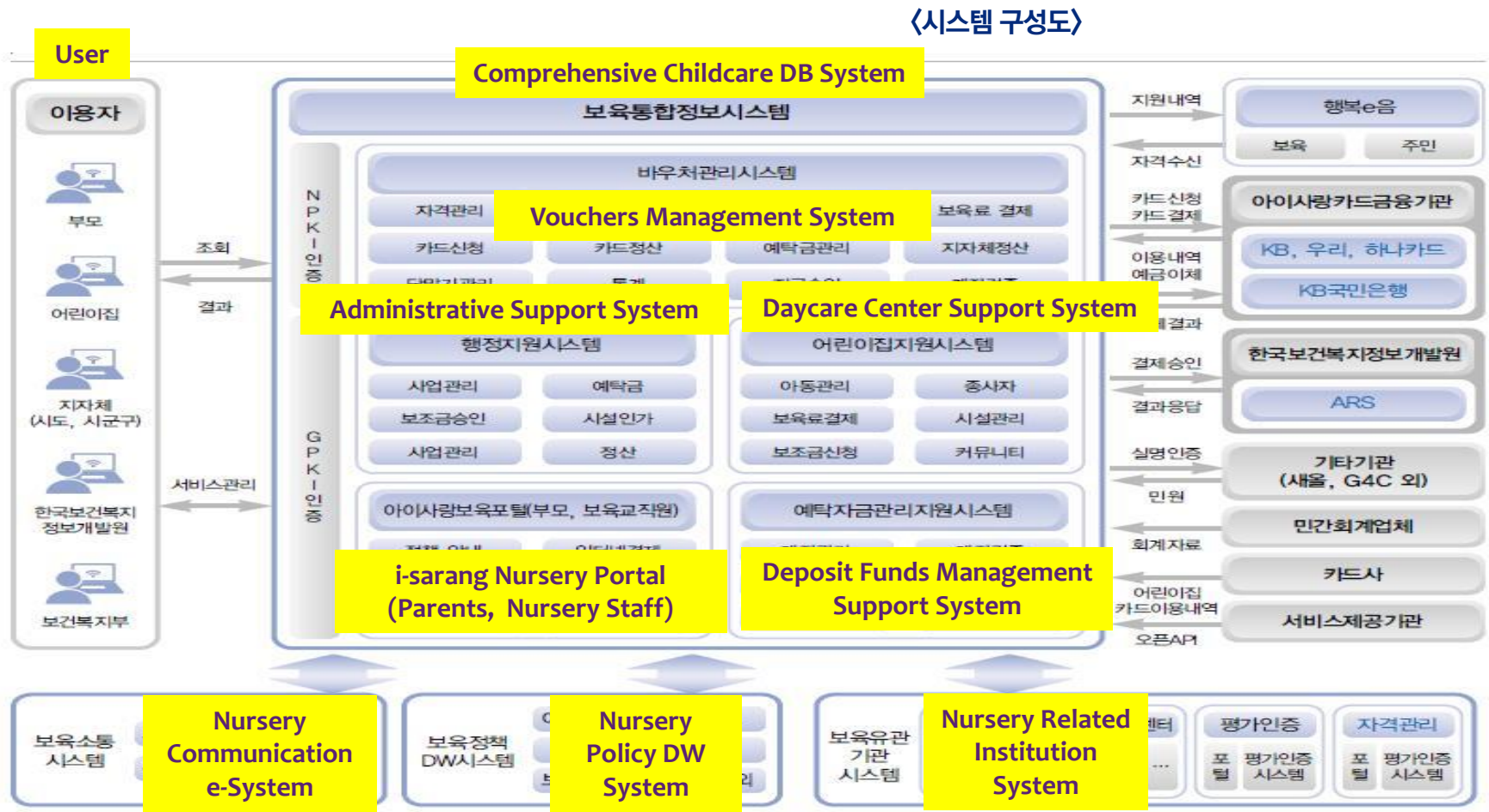
# Major Health & Welfare Informatization Projects

## ➤ Comprehensive Childcare DB System & i-sarang Childcare Portal

Cat.	Description
Project Overview	<ul style="list-style-type: none"> <li>. Comprehensive Childcare DB System: Provides childcare related administrative process including childcare provider license management, childcare facility certification, and childcare facility accounting/finance management.</li> <li>. i-sarang Childcare Portal (childcare.go.kr): The website accessibility is divided into general parents and childcare providers. It provides childcare information, childcare service information, and relevant services (apply online for childcare allowance and sign-on the waiting list for childcare center)</li> </ul>
URL	childcare.go.kr (i-sarang Childcare Portal) cpms.childcare.go.kr (Comprehensive Childcare DB System)
Period	2004 ~
Agency	Ministry of Health & Welfare: Division of Childcare Policy Korea Health and Welfare Information Service Korea Childcare Promotion Institute

# Major Health & Welfare Informatization Projects

## Comprehensive Childcare DB System & i-sarang Childcare Portal



# Major Health & Welfare Informatization Projects

## Momplus Childbirth & Childcare Policy Portal

Cat.	Description
Project Overview	Provides pregnancy, childbirth, and childcare related information.
URL	momplus.mw.go.kr
Period	2011 ~
Agency	Ministry of Health & Welfare: Division of Aging Society Policy

# Major Health & Welfare Informatization Projects

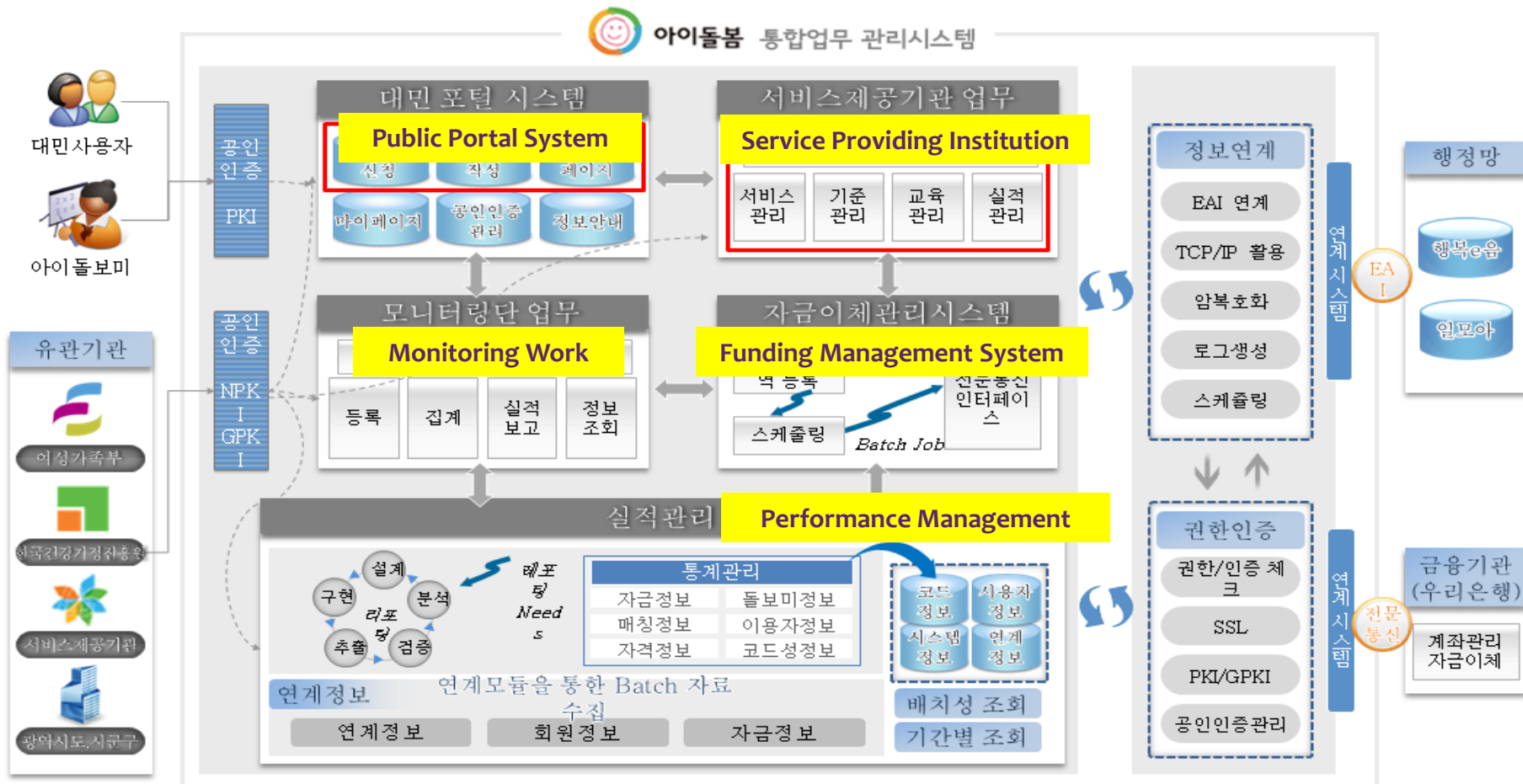
## i-dolbom Integrated Childcare Management System

Cat.	Description
Project Overview	Provides childcare related information. Individuals can apply for provided service. Provides support for service users and status management.
URL	idolbom.mogef.go.kr/csms (administrative process management system) idolbom.mogef.go.kr (childcare portal website)
Period	2012 ~
Agency	Ministry of Gender Equality & Family: Family Policy Division Korean Institute for Healthy Family Ministry of Health & Welfare



# Major Health & Welfare Informatization Projects

## i-dolbom Integrated Childcare Management System



# Major Health & Welfare Informatization Projects

## e-saeil Employment Support System for Women

Cat.	Description
Project Overview	Supports (operation support system) approximately 120 「Center for Re-employment for Women」 to provide comprehensive ONE-STOP job placement service including career consultation, training, job placement, and post-employment management for women whose career have been interrupted due to childbirth and/or childcare. Also provides various relevant information for the general public.
URL	saeil.mogef.go.kr
Period	2011 ~
Agency	Ministry of Gender Equality & Family: Career Interrupted Women's Economic Promotion Division Ministry of Employment and Labor

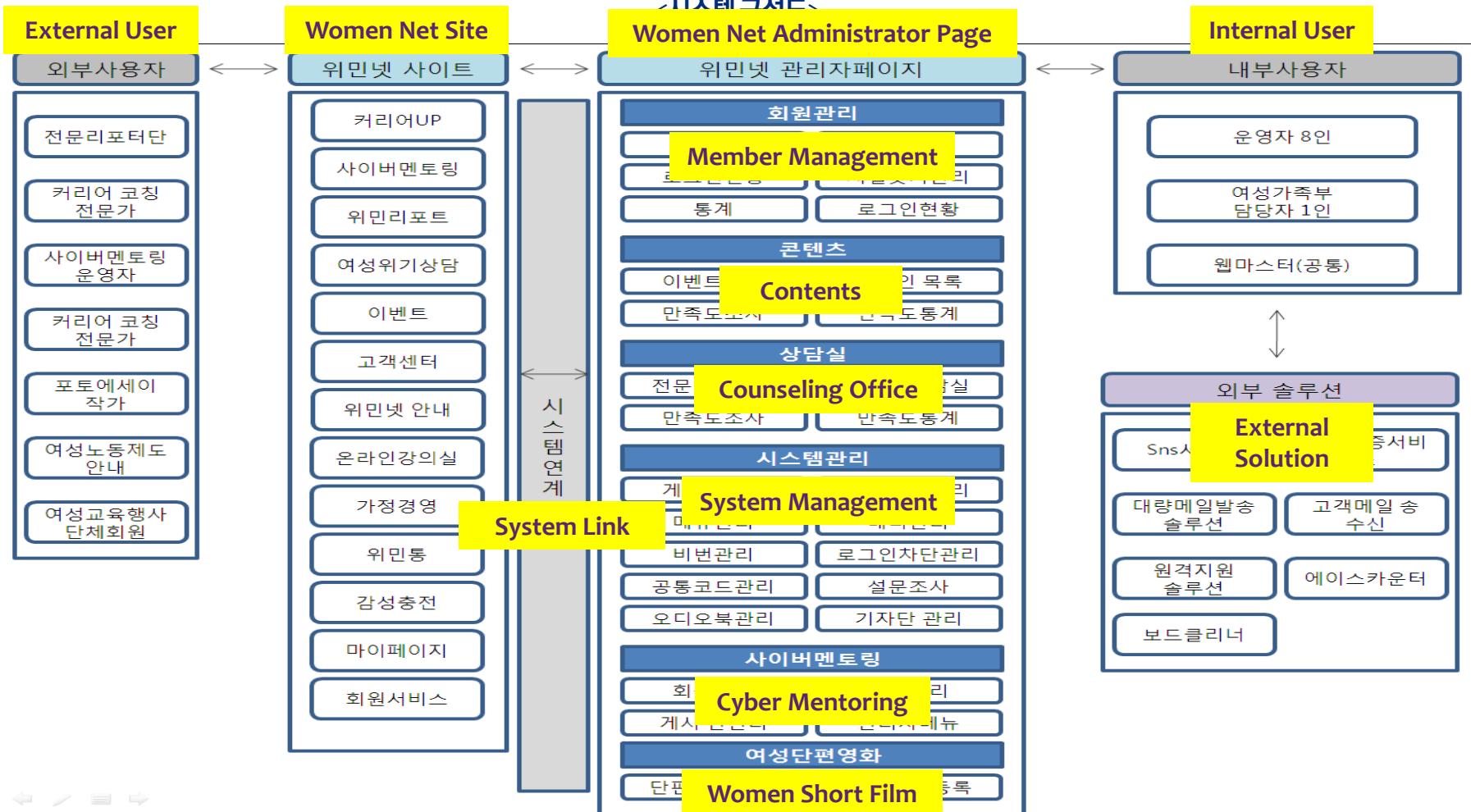
# Major Health & Welfare Informatization Projects

## Women Net

Cat.	Description
Project Overview	Categorizes various family related policies and support service information dispersed in various ministries, agencies, and institutions into diverse conditions and demands, and provides the systematically organized information. Also provides well organized job placement service, online courses for language education, certification, and IT, as well as various consultation services.
URL	women.go.kr
Period	2002 ~
Agency	Ministry of Gender Equality & Family: Legal Affairs and Inspection Division

# Major Health & Welfare Informatization Projects

## Women-Net



# Major Health & Welfare Informatization Projects

## ➤ Sex Offender Information Disclosure & Notice Management System

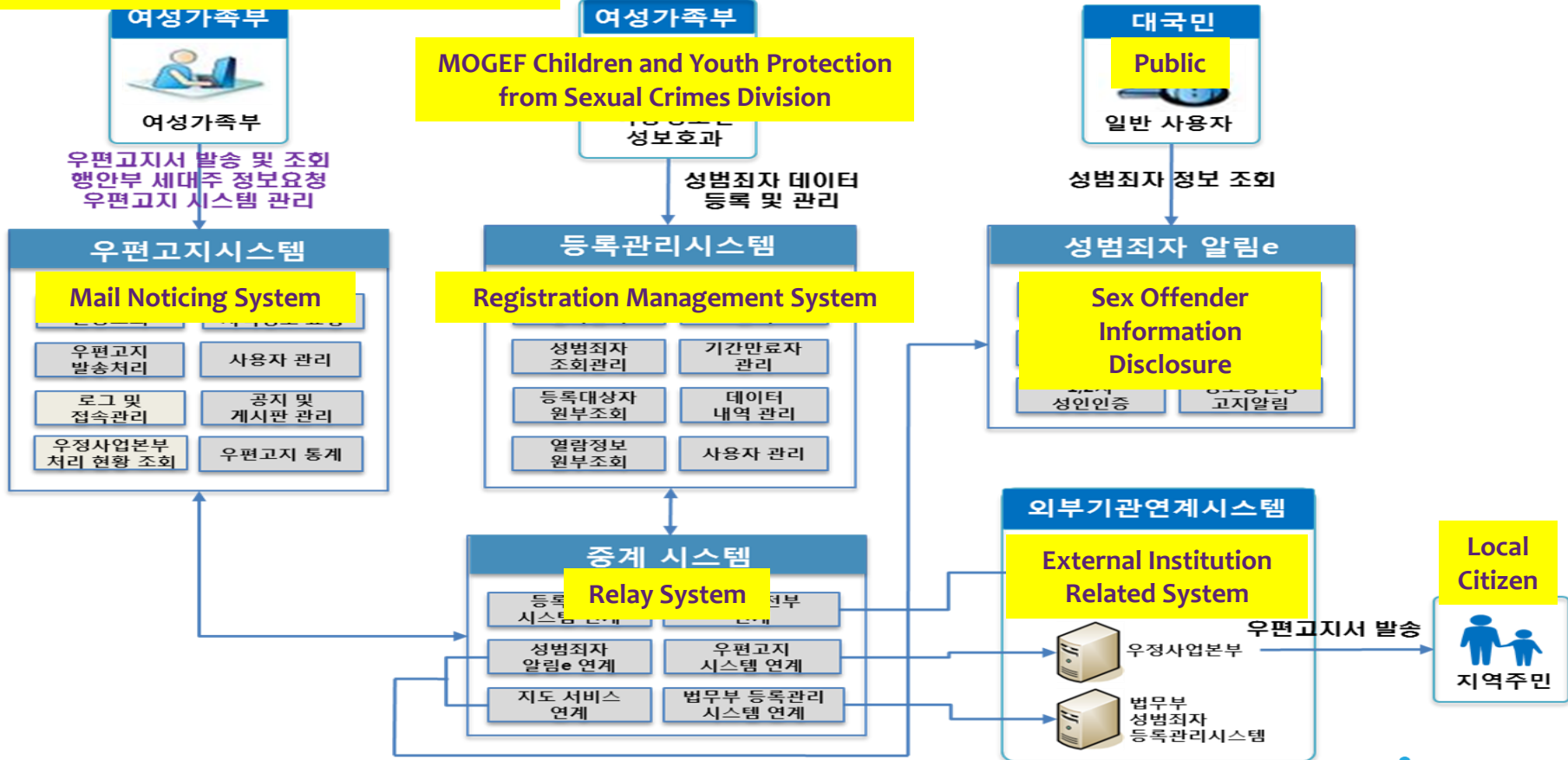
Cat.	Description
Project Overview	Manage sex offender personal information disclosure and notice related data and mail notice. Provide online information disclosure service.
URL	sexoffender.go.kr (online sex offender information disclosure portal)
Period	2010 ~
Agency	Ministry of Gender Equality & Family: Youth Protection Division Ministry of Justice

# Major Health & Welfare Informatization Projects

## Sex Offender Information Disclosure & Notice Management System

<업무구성도>

Ministry Of Gender Equality and Family(MOGEF)



# Major Health & Welfare Informatization Projects

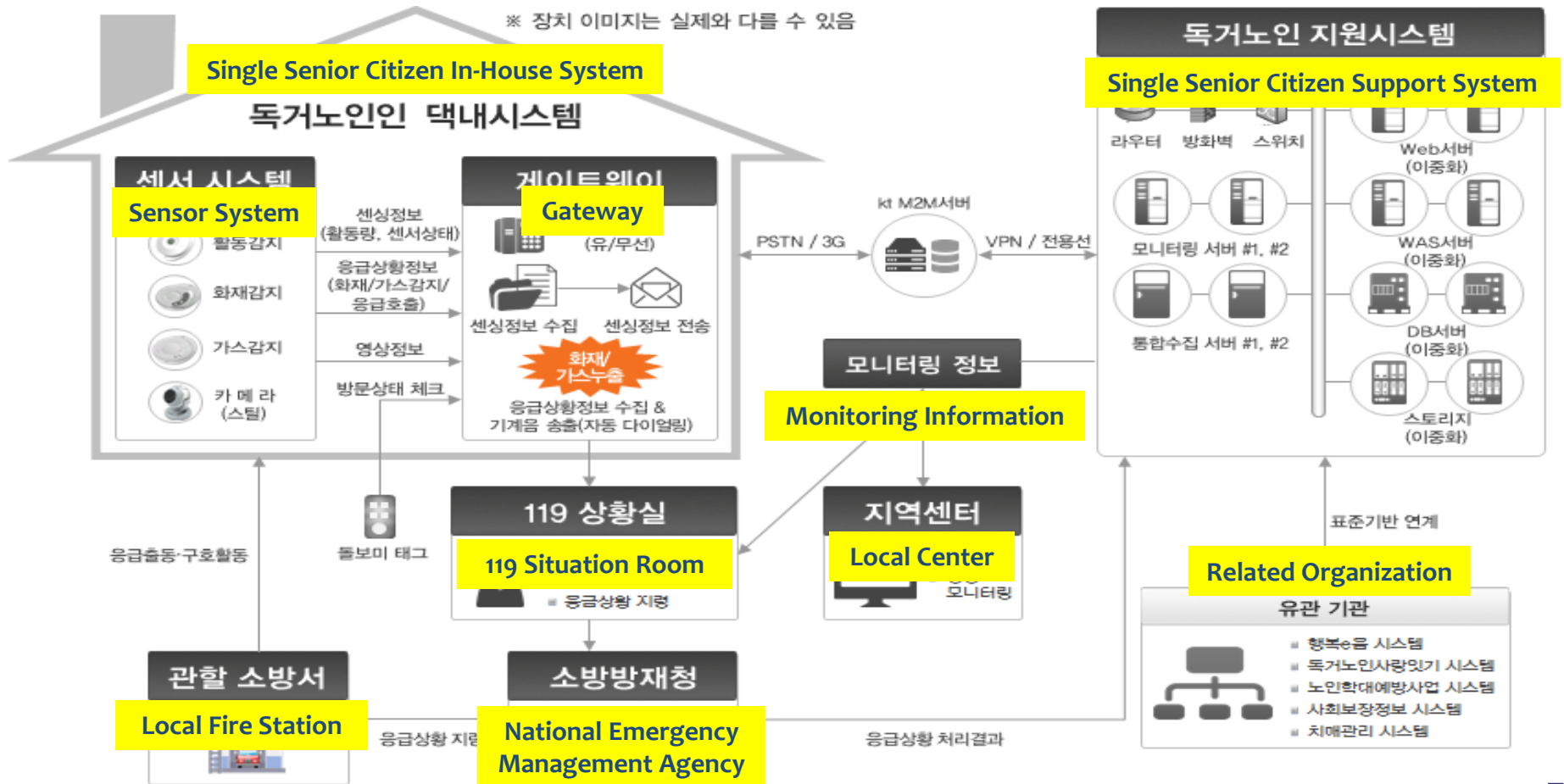
## ➤ Single Senior Citizen Emergency Care System

Cat.	Description
Project Overview	Monitors single senior citizen's home 24 hours/365 days with sensors and provides (through land line and wireless) emergency situation information (activity, fire, gas leakage, etc.) to senior citizen care providers and fire departments via gateway to check individual's safety and provide emergency rescue support in case of an emergency.
Period	2008 ~
Agency	Ministry of Health & Welfare: Division of Senior Policy Korea Health and Welfare Information Service Regional Governments Regional Fire Departments

# Major Health & Welfare Informatization Projects

## Single Senior Citizen Emergency Care System

<서비스구성도>





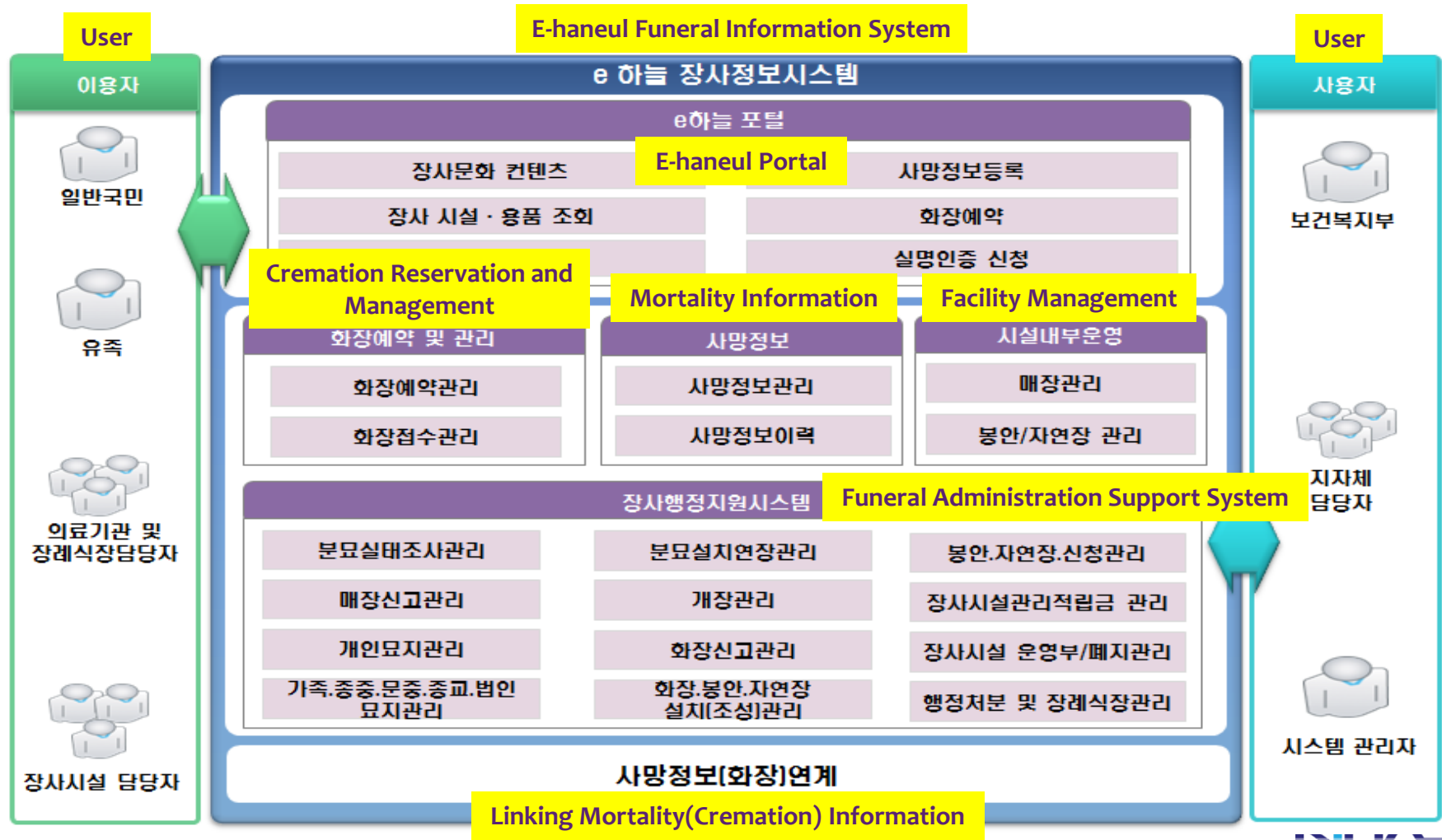
# Major Health & Welfare Informatization Projects

## e-haneul Funeral Service DB System

Cat.	Description
Project Overview	<p>Provides single one-stop channel for nationwide funeral service reservation (nationwide online reservation service).</p> <p>Provides support for cemetery management local government's funeral facility management process.</p> <p>Also provides comprehensive funeral related information including funeral accessory price and funeral culture.</p>
URL	ehaneul.gokr
Period	2010 ~
Agency	Ministry of Health & Welfare: Division of Senior Support Korea Funeral Culture & Policy Institute

# Major Health & Welfare Informatization Projects

## e-haneul Funeral Service DB System



# Major Health & Welfare Informatization Projects

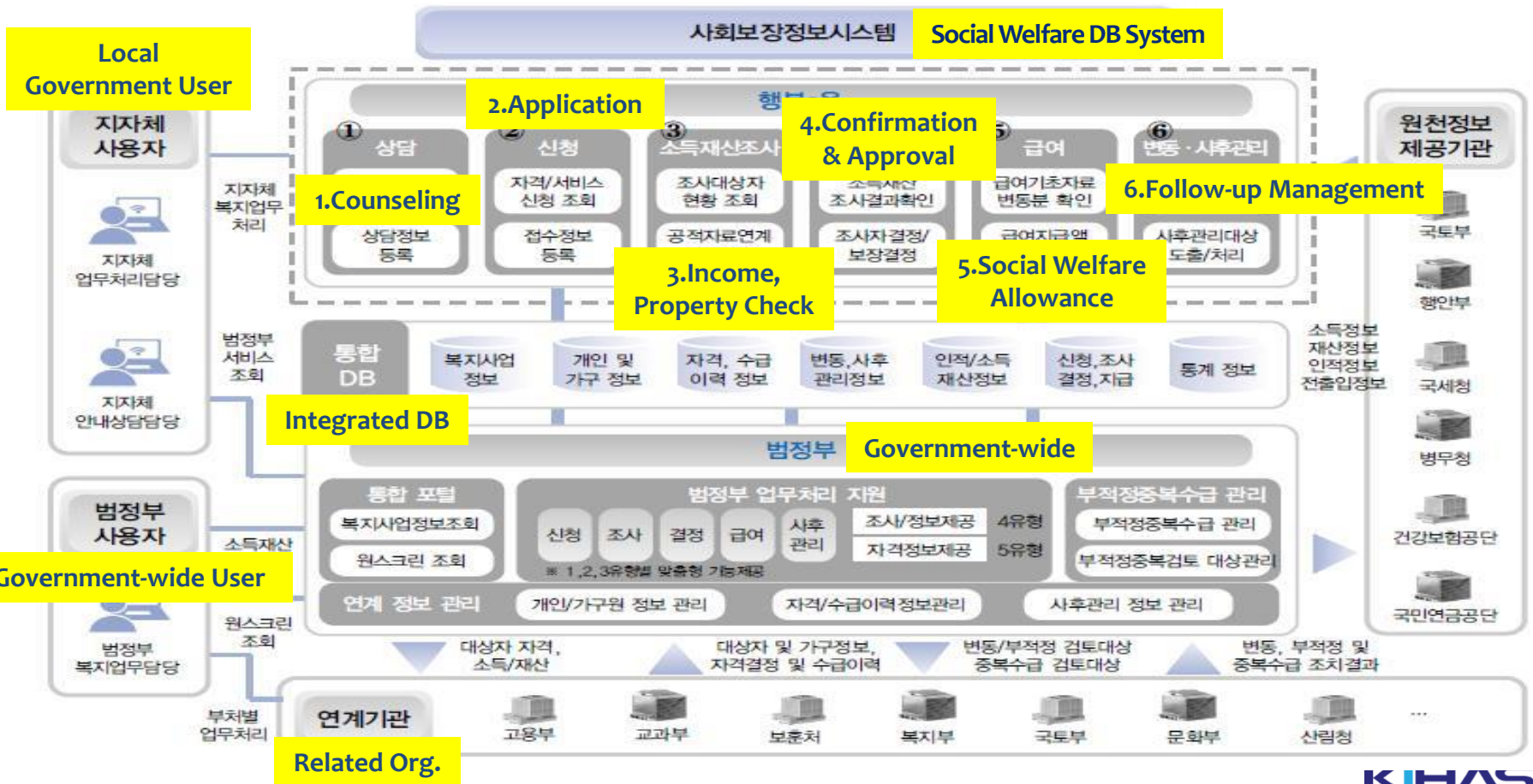
## ➤ Social Welfare DB System (Happiness e-Um)

Cat.	Description
Project Overview	Comprehensively manages social welfare allowance and applicants' qualification/history data to provide support for administrative process by social welfare personnel in district government agencies.
Period	2010 ~
Agency	Ministry of Health & Welfare: Division of Welfare Information Korea Health and Welfare Information Service

# Major Health & Welfare Informatization Projects

## Ⓜ Social Welfare DB System (Happiness e-Um)

<시스템구성도>



# Major Health & Welfare Informatization Projects

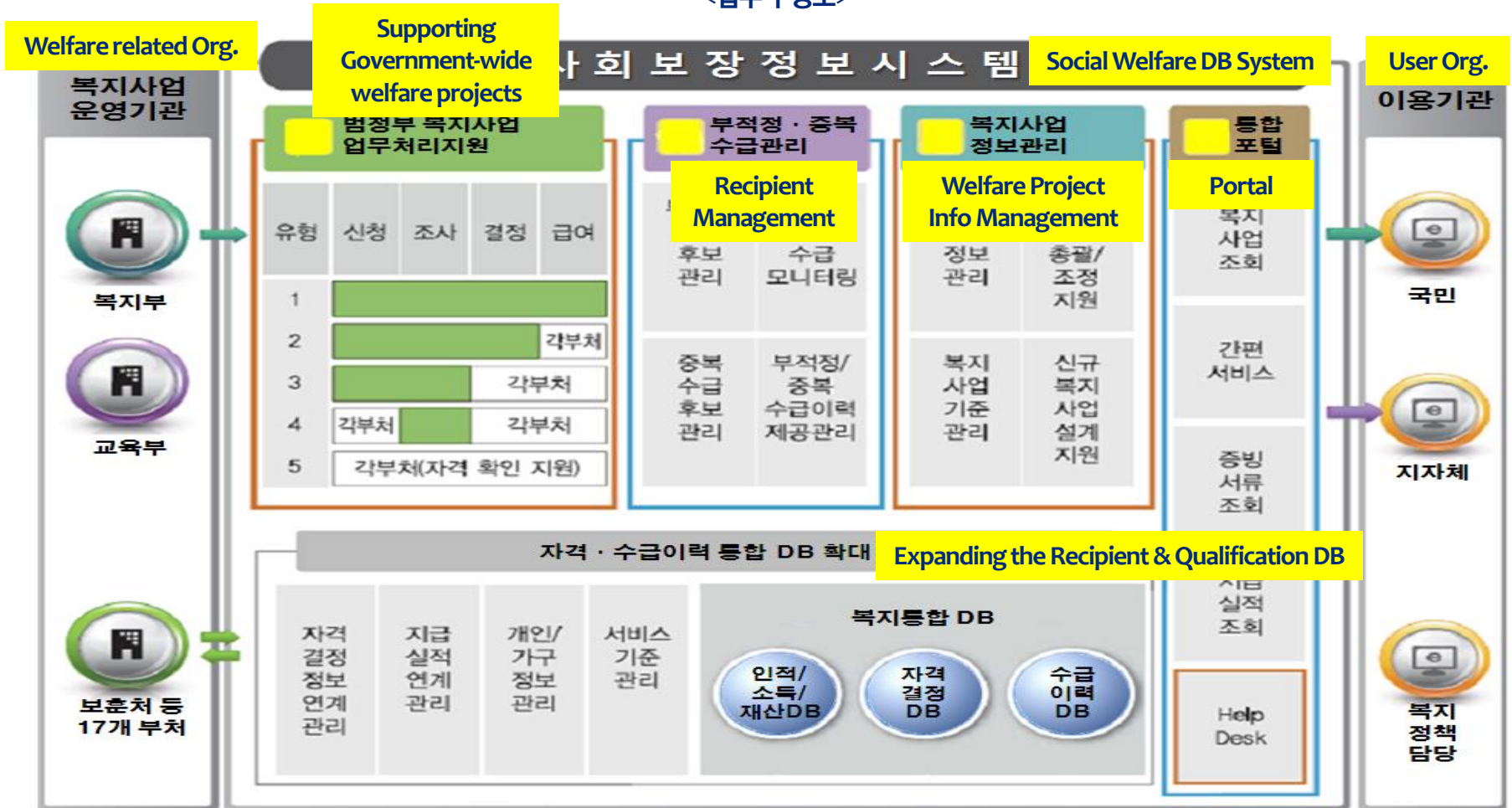
## ➤ Social Welfare DB System (Government-wide)

Cat.	Description
Project Overview	Comprehensively manages social welfare allowance operated by the Ministry of Health & Welfare and other government ministries/agencies, as well as applicants' qualification/history data, and provides relevant information and administrative support to prevent disqualified individuals from receiving the fund. (Managed Projects as of 2014: 293 social welfare projects in 17 agencies)
URL	bokjiro.go.kr
Period	2012 ~
Agency	Ministry of Health & Welfare: Bureau of Integrated Welfare Information Management Korea Health and Welfare Information Service

# Major Health & Welfare Informatization Projects

## Social Welfare DB System (Government-wide)

<업무구성도>



# Major Health & Welfare Informatization Projects

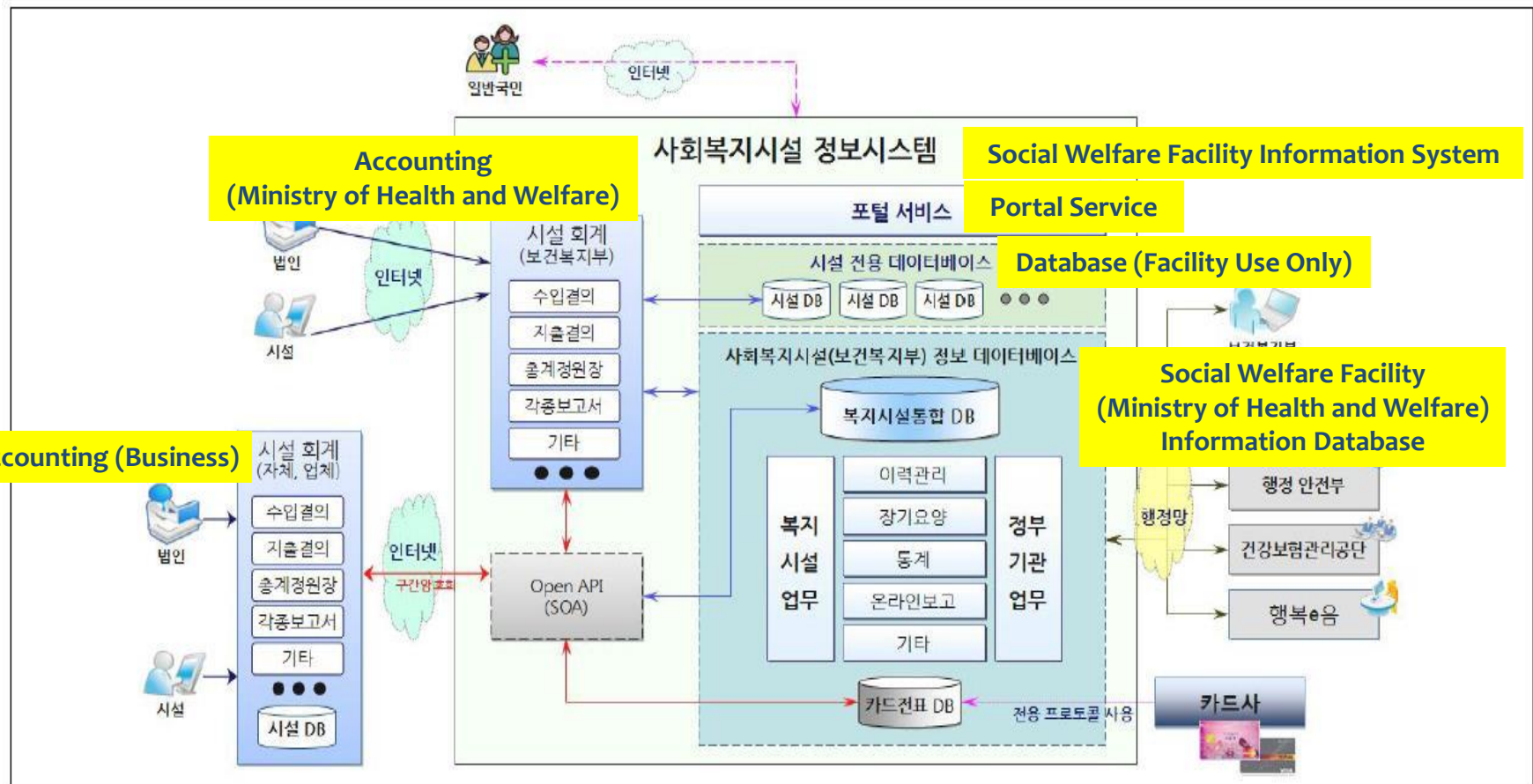
## ➤ Social Welfare Facility Information System

Cat.	Description
Project Overview	Provides standardized administrative support for accounting/finance, personnel/human resource, donation, city/county reporting, service history management, case example management, and statistics management of social welfare centers (childcare centers, senior citizen centers, centers for handicapped, homeless centers, mother/father-child center, etc.).
URL	w4c.go.kr
Period	2005 ~
Agency	Ministry of Health & Welfare: Division of Information Management Over 27,000 social welfare centers and long-term care centers

# Major Health & Welfare Informatization Projects

## ➤ Social Welfare Facility Information System

<서비스구성도>





# Major Health & Welfare Informatization Projects

## e-Voucher System

Cat.	Description
Project Overview	- Service System: Administrative support for application, usage, payment, and service provider management process for senior citizen care providers, home care program, maternity assistance program, handicapped support program, regional community service, handicapped child's rehabilitation program, and other social welfare services. - Portal: Provides various voucher related information and accepts service requests
URL	socialservice.or.kr (social service e-Voucher portal)
Period	2007 ~
Agency	Ministry of Health & Welfare: Division of Social Services Policy Korea Health and Welfare Information Service Over 17,000 service provisioning institutes

# Major Health & Welfare Informatization Projects

## e-Voucher System

<시스템 구성도> System Diagram

