

Introduction to Cybersecurity Of South Korea

2024. 5. 8.

Chanhwi Lee

Cybersecurity Research Center of KNPU

About Lecturer

- KITRI BoB(2016)
- B.L. in K.N.P.U.(2019)
- Financial Crime Investigation(2021)
- 4th in KNPA CTF(2023)
- Interested in Vulnerability Analysis, Digital Forensics



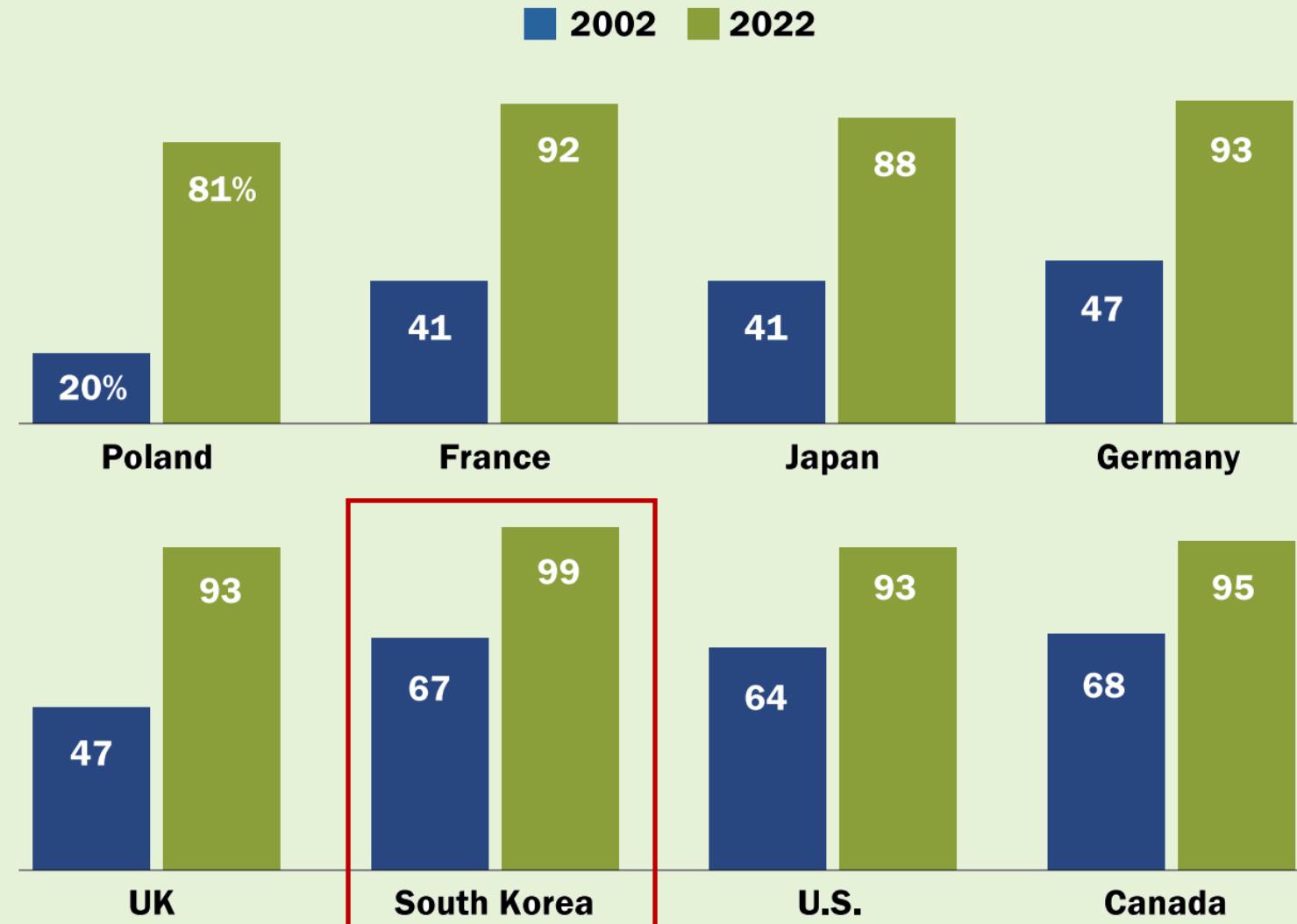
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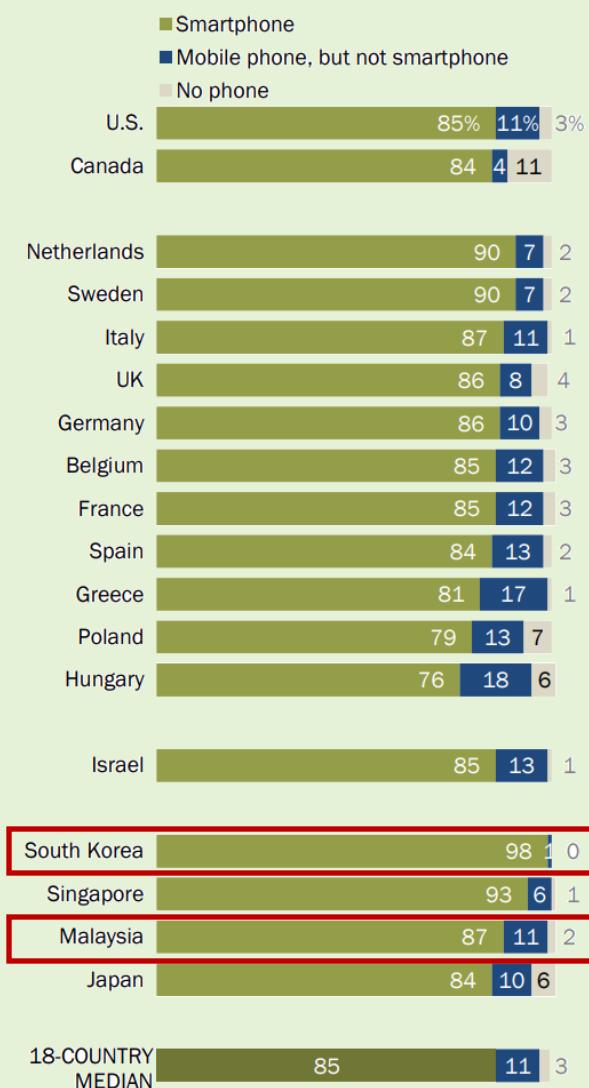
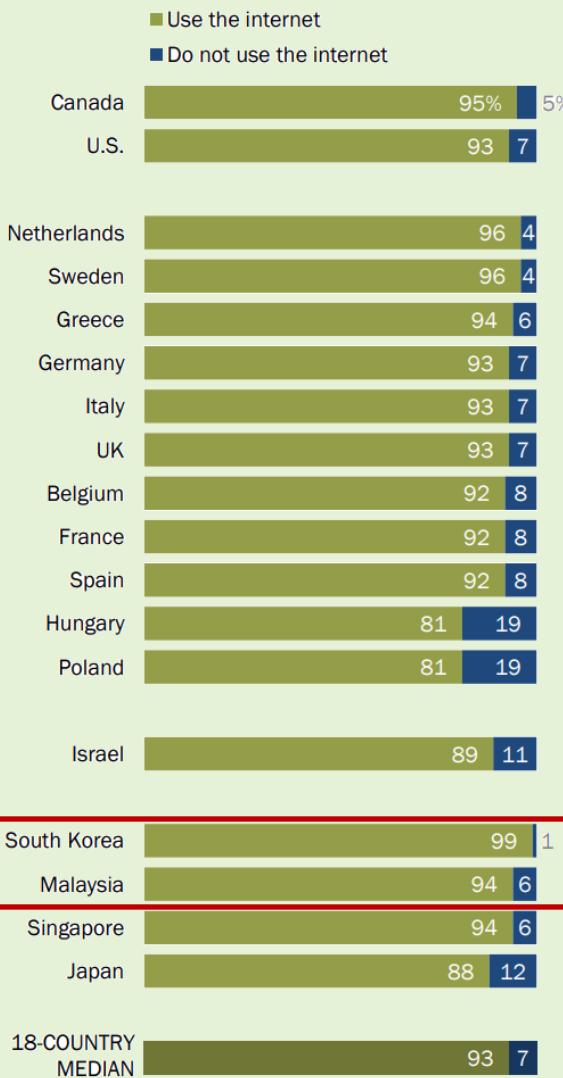


1. ICT Environment

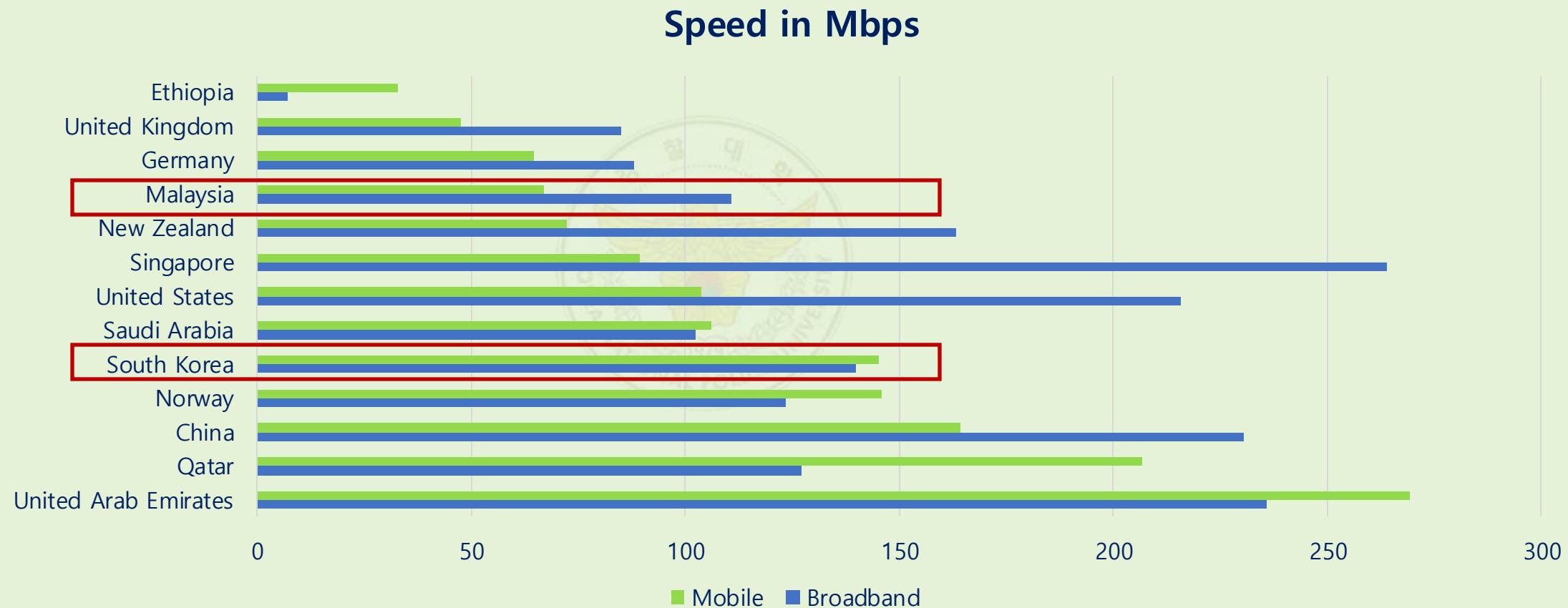
Internet Usage Growth



Penetration Rate of Internet & Smartphone



Internet Speeds(2024)

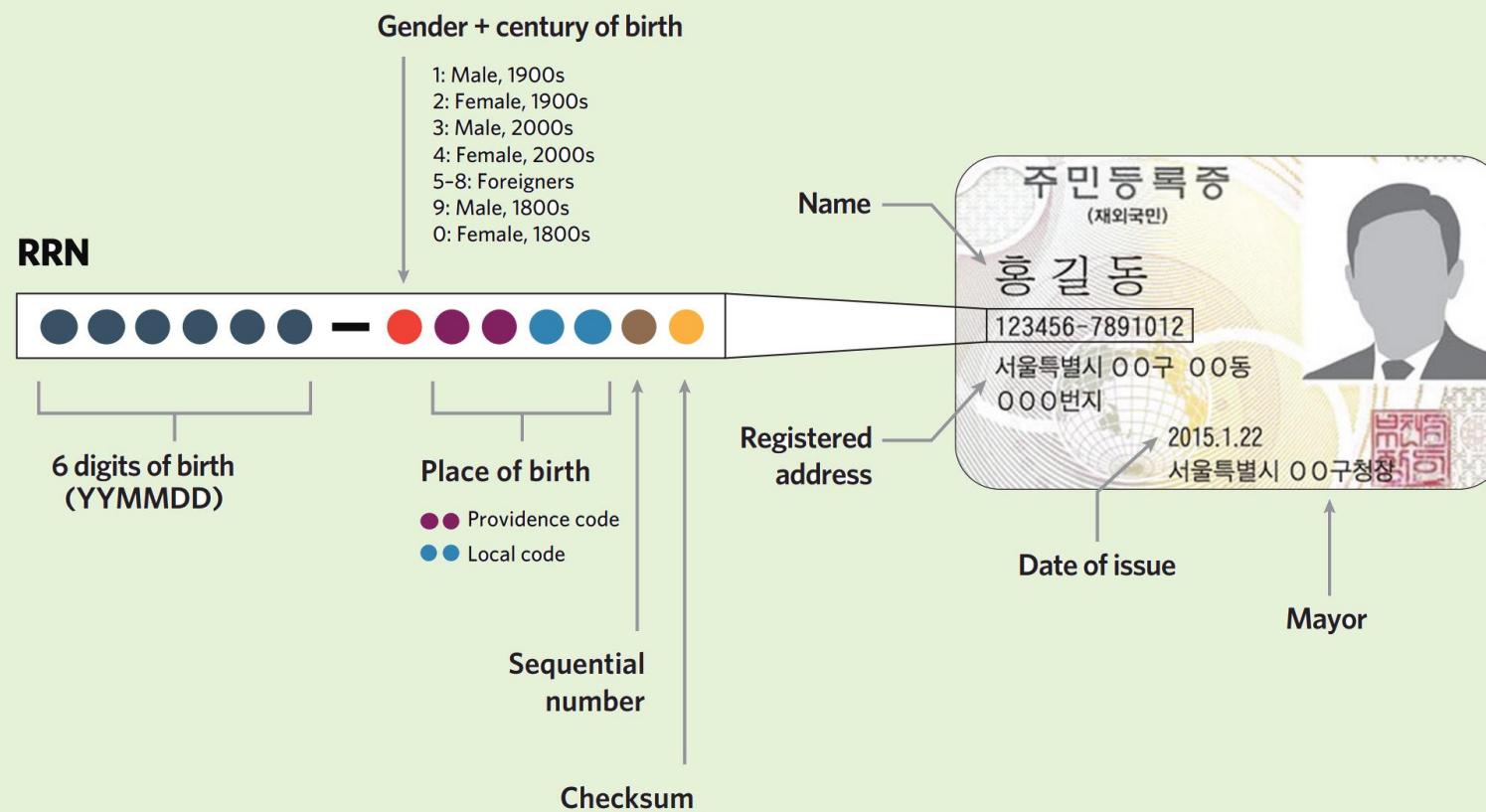


Online Service Providers

NAVER Daum NATE 



Resident Registration Number(RRN, 1975)



Exploitation of RRN



주민등록번호 생성기

생일
1974 년 8 월 11 일

성별
 남자 여자

<생성 개수>
10

欢迎来到韩岛站-韩国身份证号码在线生成器-韩国网络游戏帐号申请必备工具

韩国身份证号码在线生成器

出生日期(年/月/日): 1979 01 28

性别: 男 女

身份证号码: 790128-1136634

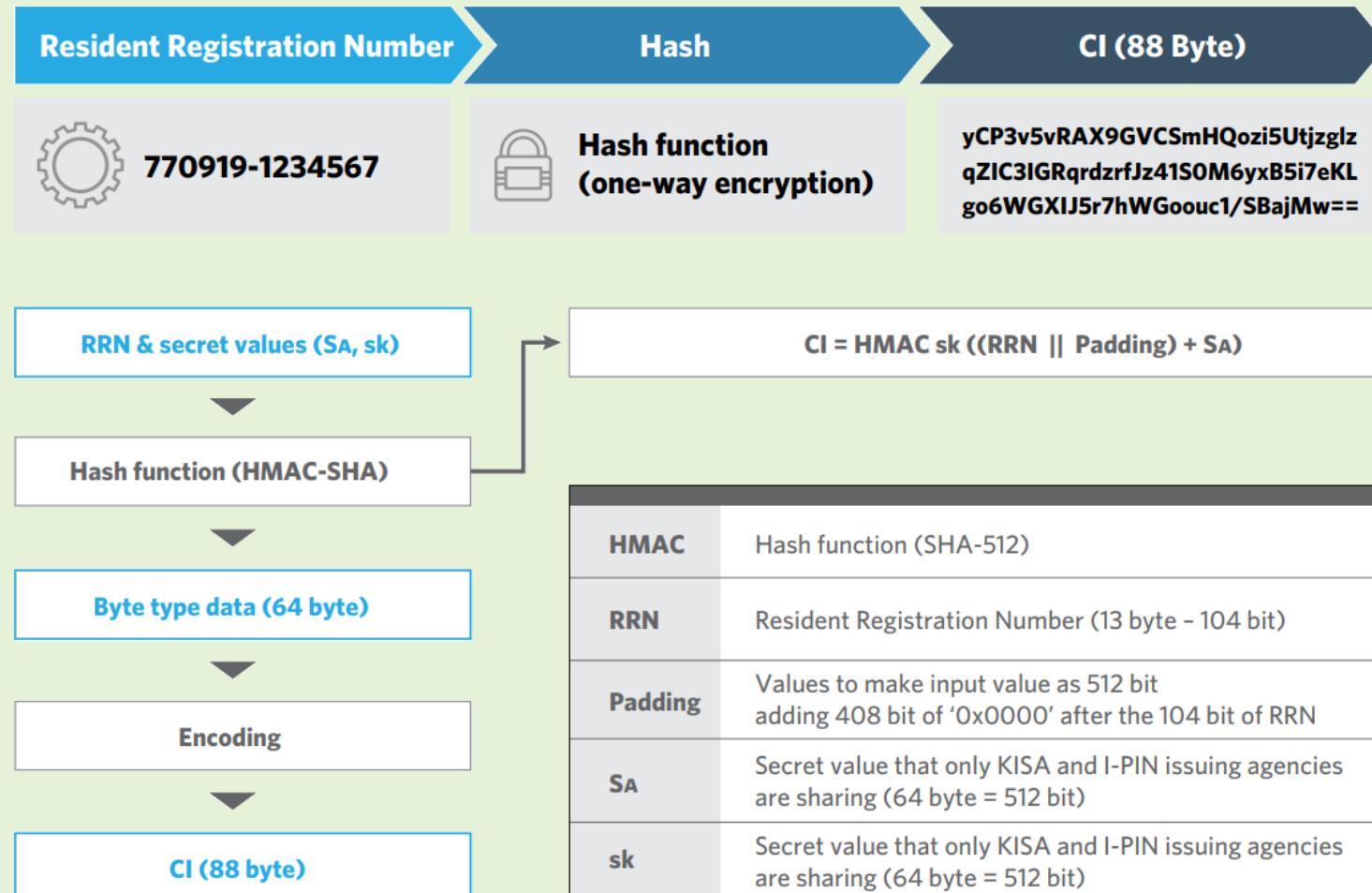
快速导航: [返回首页](#)

☆ 欢迎日访问量10000IP+的网站交换链接,Email至KRDO@QQ.COM联系! ☆

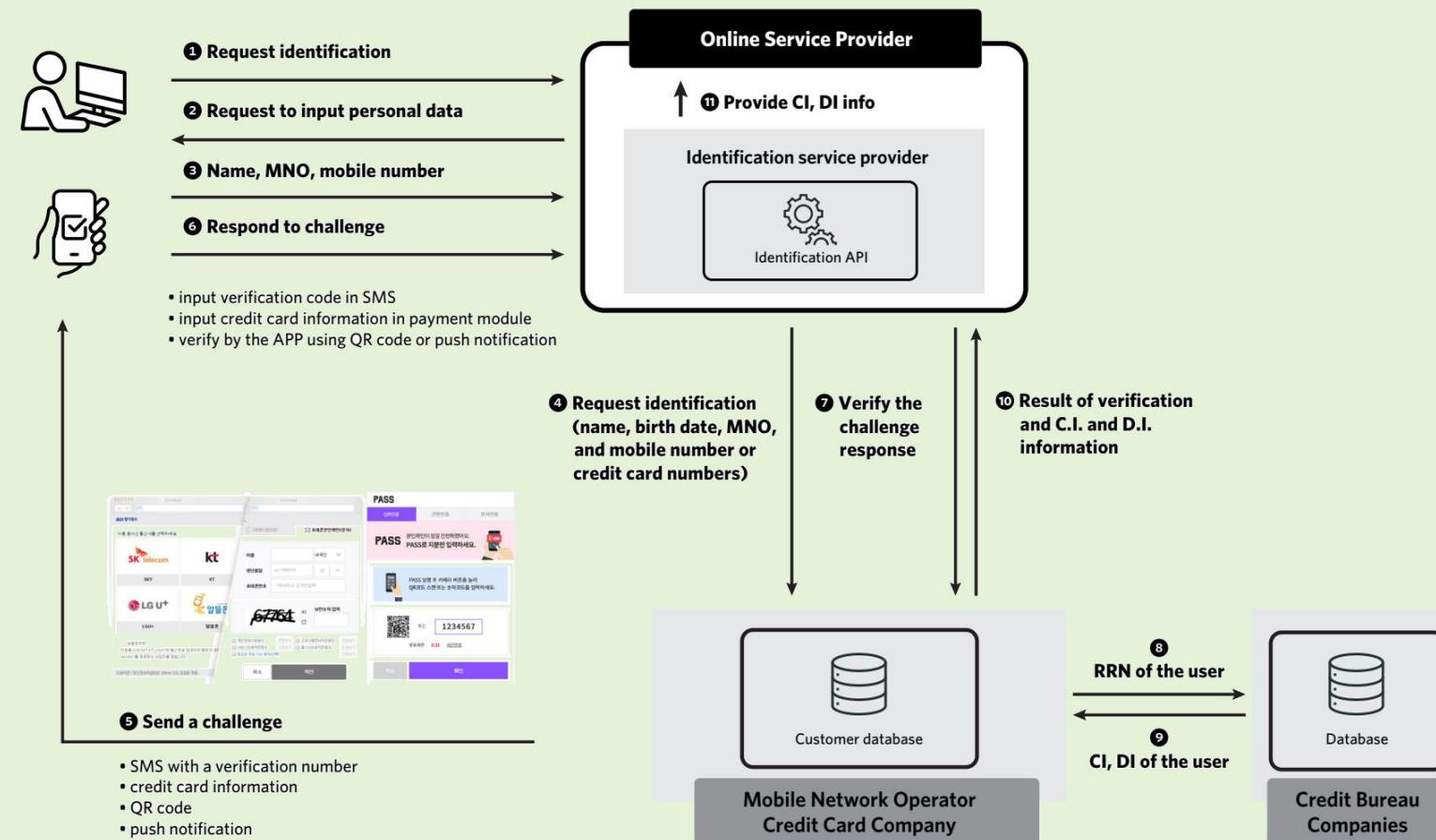
© Copyright 2004 By [YIMIS](#)

설교철 63040710683014
김근수 7707231688182
김근재 7012041132027
류준열 5601111097008
이준석 6601261084639
신동경 7710262129003
윤호미 7403042188009
정현기 7205181644111
김호진 6702021060041
최호산 7003041001307
고호수 6711111006113
원호열 6404031046131
유지민 7708022187722
김호호 6703081057021
김현희 6804012189626
오현동 56011241881600
유호근 6011151119027
박현문 7202171580523

Connecting Information(CI, 2010)



Authentication Process Using CI



E-Government

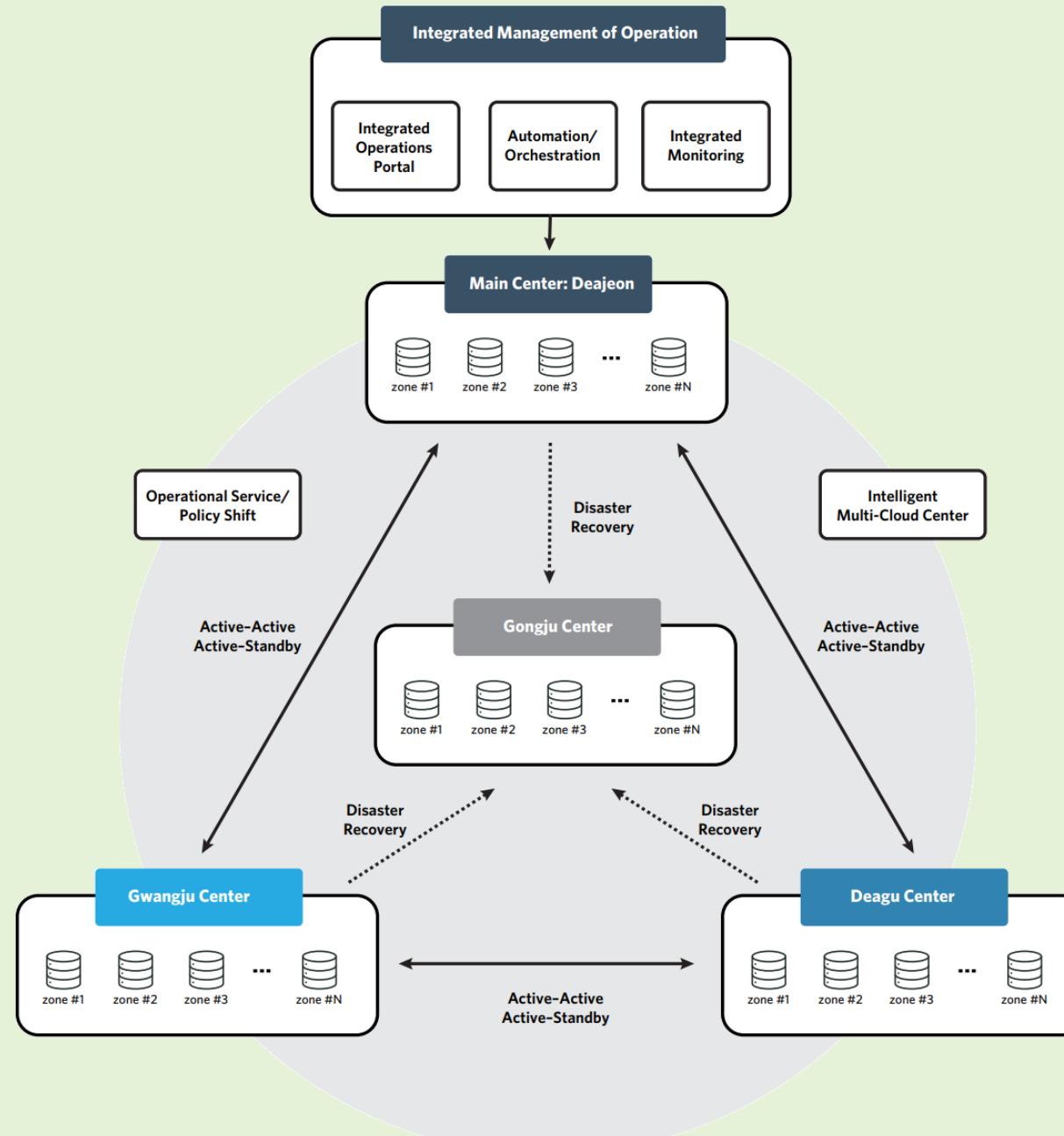
The image shows a composite screenshot of three Korean government websites:

- 질병관리청 코로나19 예방접종 시전예약 시스템**: A green-themed site for COVID-19 vaccination appointments. It features a sidebar with links like '전자 현금영수증' and '장려금' for years 2023 and 2024. The main content includes a banner for '경찰청 교통민원24' and a section for '교통민원24 로그인'.
- 코로나19 예방접종 시전예약 시스템**: A blue-themed site for COVID-19 vaccination appointments. It features a sidebar with links like '전자 현금영수증' and '장려금' for years 2023 and 2024. The main content includes a banner for '경찰청 교통민원24' and a section for '교통민원24 로그인'.
- 경찰청 교통민원24**: A white-themed site for police traffic services. It features a banner with a night cityscape and Korean text: '당당한 실력을 통해 국민이 신뢰하는 안심공동체를 만들어가겠습니다.' (Competent, confident and trusted by the people, we will continue to build safe communities.). Below the banner is a grid of service icons: 최근단속내역 (Recent Radar Locations), 미납과태료 (Oversight Tickets), 미납범칙금 (Oversight Fines), 교통법규위반 (Traffic Violations), 운전면허조회 (Driver's License Inquiry), 차한운전 마일리지 (Drunk Driving Points), 교통사고 확인원 (Traffic Accident Confirmation), and 교통사고 조사예약 (Traffic Accident Investigation Reservation).

At the bottom of the composite screenshot, there are two rows of checkboxes for vaccination status:

- Top row: ○ 감염취약시설 및 면역저하질환 여부 * (Are you an infection-vulnerable facility or have immunodeficiencies?)
- Bottom row: ○ 감염취약시설 (Infection-vulnerable facility), ○ 면역저하자 (Immunodeficiency), and ○ 해당없음 (Not applicable)

At the very bottom, it says '코로나 확진일자' (COVID-19 Diagnosis Date) and '2023-06-22'.



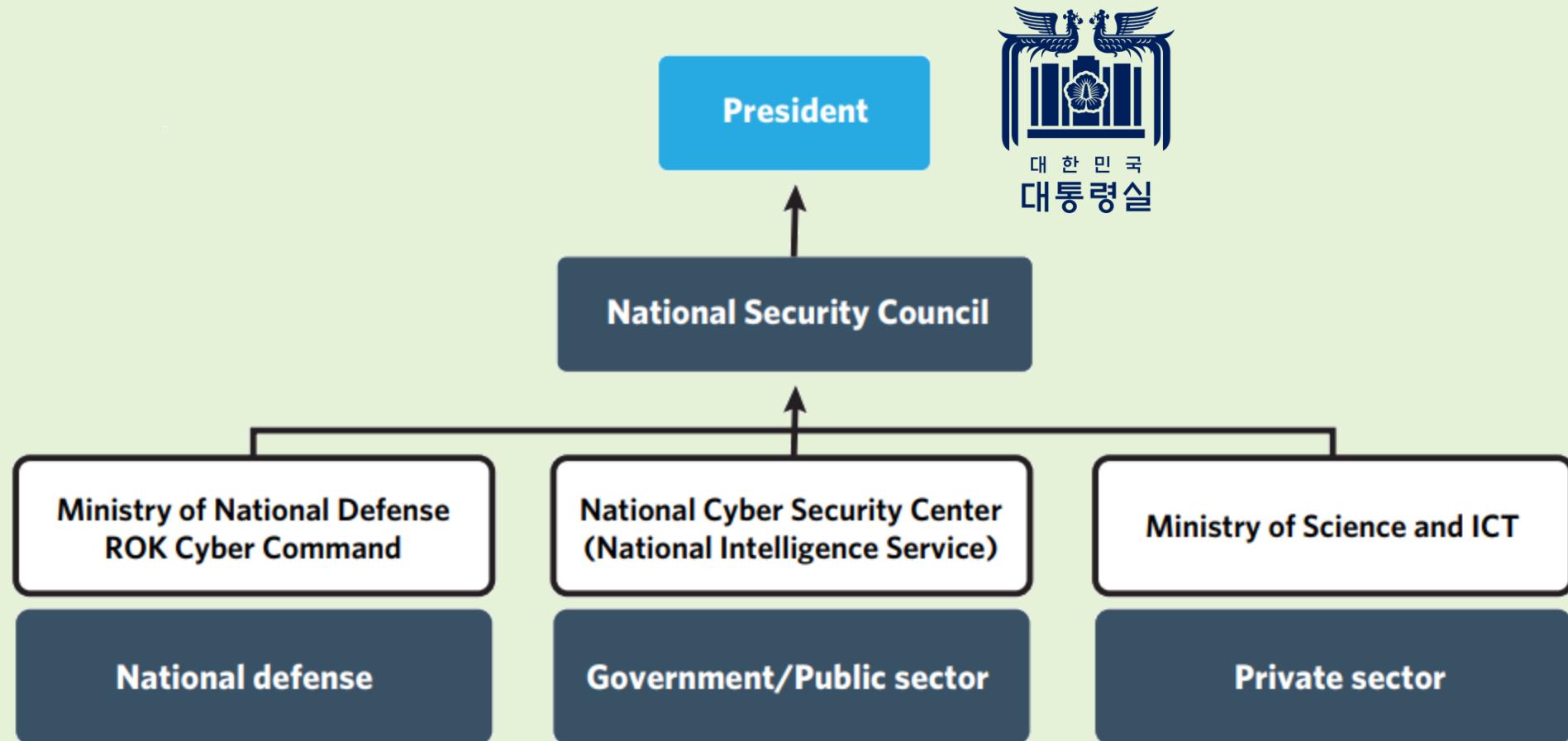


2. Cybersecurity Governance

Basic Law regarding cybersecurity

- Telecommunications Business Act(1991)
- Protection Of Communications Secrets Act(1994)
- Electronic Signature Act(1999)
- The Electronic Government Act(2001) - ★
- Act On The Protection Of Information And Communications Infrastructure(2001)
- Act on Promotion of Information and Communications Network Utilization and Information Protection(2001) - ★
- Credit Information Use and Protection Act(2009)
- Personal Information Protection Act(2011) - ★

Cybersecurity Framework



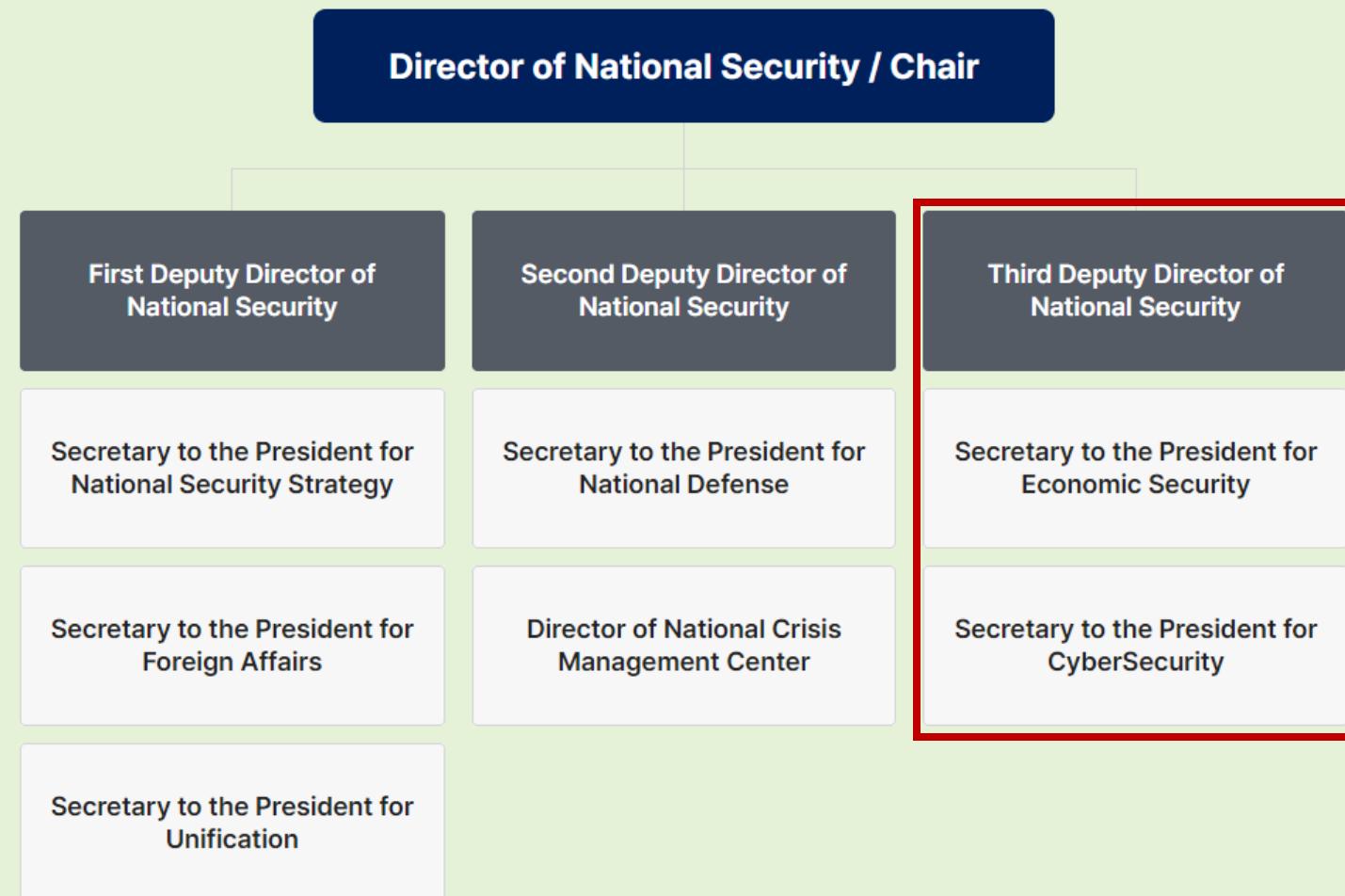
NSC

(National Security Council, 1963)

Chairperson	President	Name
Statutory Attendees	Prime Minister Minister of Foreign Affairs Minister of Unification Minister of National Defense Director of National Intelligence Service	Yoon Suk-yeol Han Duk-soo Kim Yung-ho Shin Won-sik Cho Tae-yong
Regular Attendees	Minister of the Interior and Safety Chief of Staff to the President Director of the ONS 1st Deputy Director of the ONS 2nd Deputy Director of the ONS	Lee Sang-Min Chung Jin-suk Chang Ho-jin Kim Tae-hyo Yin Sung-hwan
Additional Participants	Personnel appointed by the President	



Cybersecurity Framework



NIS (National Intelligence Service)

- NIS(National Intelligence Service)
 - Found in 1991
 - Intelligence especially about North Korea activities, anti-terrorism, protecting industrial confidential
 - Backed by National Intelligence Service Act
- NSCS(National Cyber Security Center)
 - Found in 2004
 - Reinforcing information security and incident response system in **public sector**



Ministry of Science and ICT & KISA(Korea Internet & Security Agency)

- Reinforcing information security and incident response system in private sector
 - Cybersecurity authentication(ISMS, ISMS-P)
 - Vulnerabilities analysis
 - Legislation about information security in industry and security personnel.
- Nurturing human resources in cybersecurity industries



과학기술정보통신부



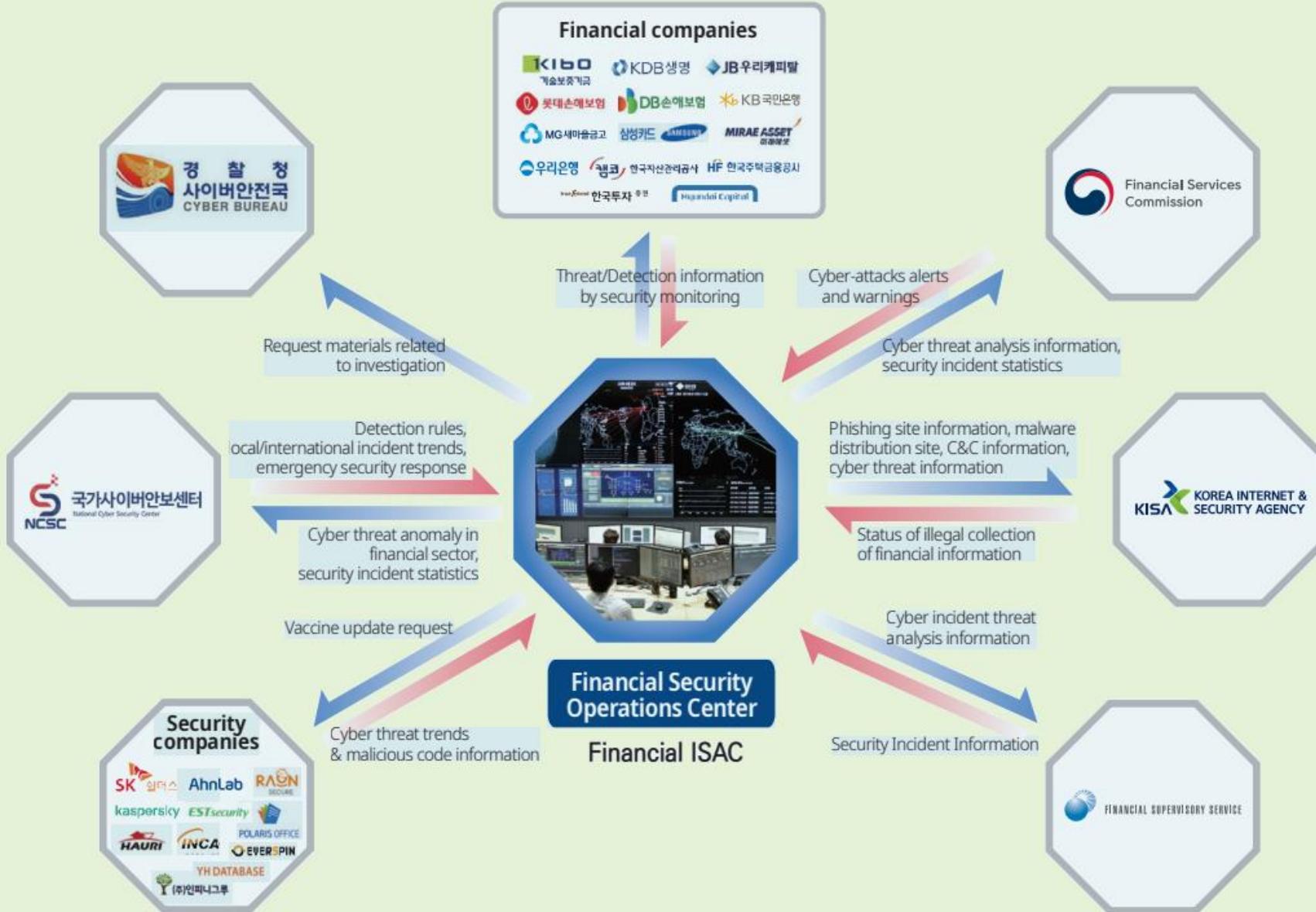
FIS (Financial Security Institute)

- Monitoring cybersecurity throughout banks, securities, exchanges
- Running **ISAC**(Information Sharing Analysis Center)
- Also runs **FDS**(Fraud Detection System) and **FISS**(Fraud Information Sharing System)
- Support for vulnerability analysis for fintech startups



금융보안원
FINANCIAL SECURITY INSTITUTE







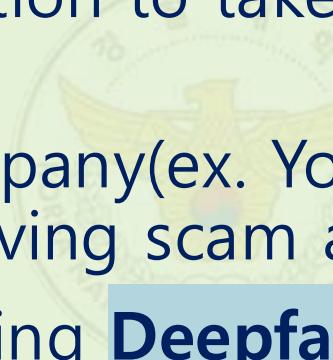
3. Cybercrime & Investigation

Cybercrime Stats of Korea



Main Causes Boosting Cybercrime

- **COVID-19** : rise in the non face-to-face activity
- **Recession** : temptation to take a easy-profiting method, which is usually **Scam**
- **SNS** : Top SNS company(ex. Youtube, Instagram) is inadvertently approving scam advertisement
- **AI Technology** : Using **Deepfake**, exploiting celebrity's appearances
- **Financial Technology** : **Easy mixing**, difficult to trace



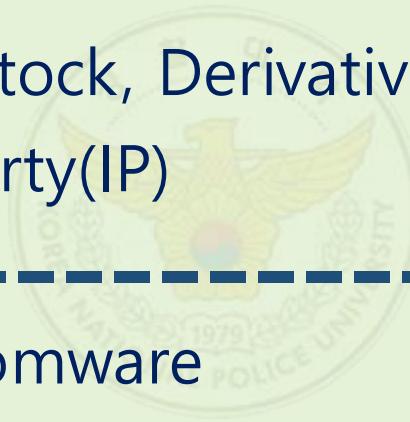
Types of Cybercrime

- Fraud(Small Amounts)
- Sextortion
- Scam Exchange(Stock, Derivatives, Cryptocurrency, etc.)
- Intellectual Property(IP)

Precinct - Level

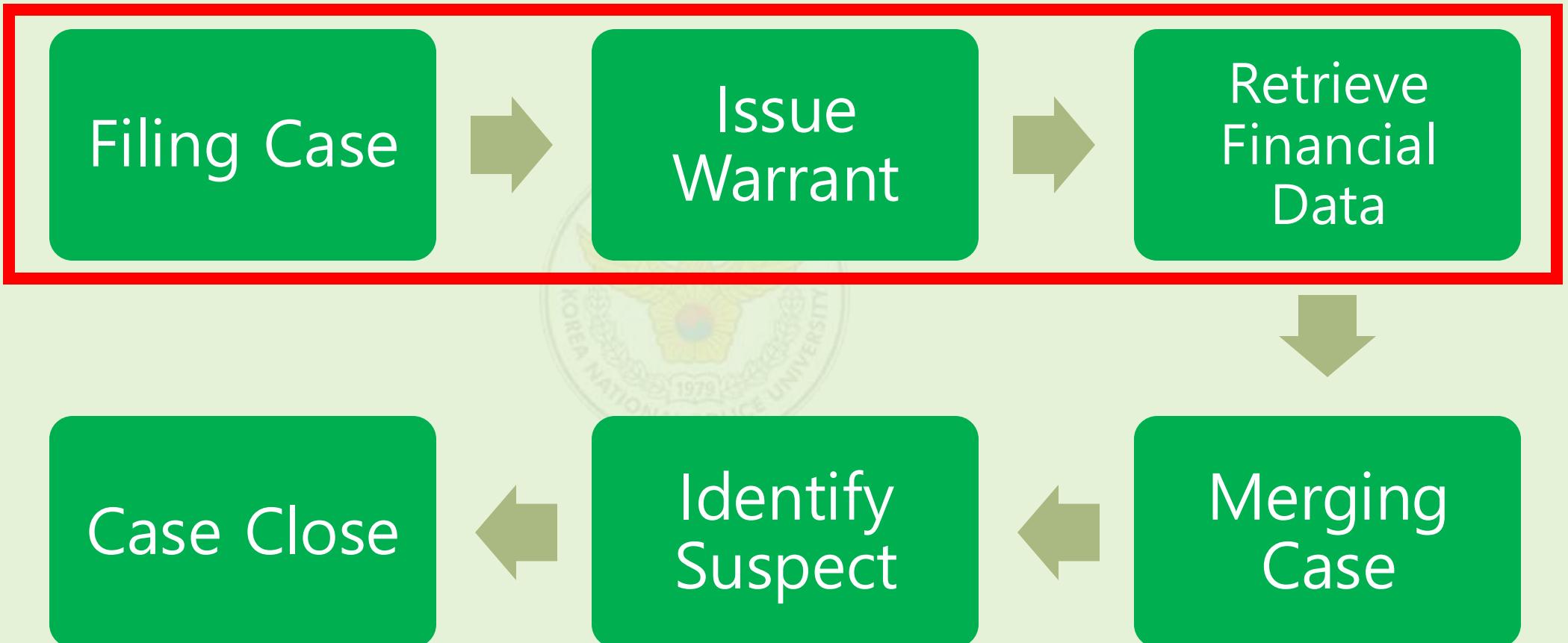
-
- Malware & Ransomware
 - Email Scam
 - Spear-Phising

Department - Level



Investigation Procedure

Within 10 days max.



Filing Case : E-CRM (Customer Relationship Management)

한국어 English 日本語 中文

login

사이버범죄 신고시스템 (ECRM)
Electronic Cybercrime Report & Management system

Notice Cybercrime classification Case handling procedure Q & A Guidance for other case My Page

신뢰 있고 당당한 경찰
국민이 신뢰하는 앤서 공동체

Secure and reliable cyberspace! The police will make it.

Emergency report 112(For free)
- Consultation time : 365days, 24hours.

Civil service counseling 182 (Charged)
- Consultation time : 365 days, 24 hours.

Report If you want to investigate a crime

Consultation [Do not support]

Information provision [Do not support]

사이버범죄 신고시스템 (ECRM)

Electronic Cybercrime Report & Management system

[Notice](#)[Cybercrime classification](#)[Case handling procedure](#)[Q & A](#)[Guidance for other case](#)[My Page](#)

① Is it an urgent issue such as suicide, murder, kidnapping, or confinement?



Please report an urgent case to 112.

Please report to 112 the case where the **police officer needs to be dispatched immediately**.

❗ The types of urgent issues are as follows.



Suicide



Murder



Kidnapping



Confinement



Robbery



Burglary

[It's not an urgent matter.](#)

[It's an urgent matter.](#)



Please select the person to receive the report.

- Please read the contents below carefully and select the type of crime that corresponds to the matters you wish to report.
- You can search for the type you want to report yourself, and in the detailed type, you can check the detailed description by clicking the "View Description" button.
- Civil complaints that have not been received after generating civil complaints will be automatically deleted after 3 months.

① Select type of crime



Direct transaction
fraud



Game transaction
fraud



Online shopping fraud



Conditional sexual
meeting fraud



① Type of crime

Cyber fraud

② SubType

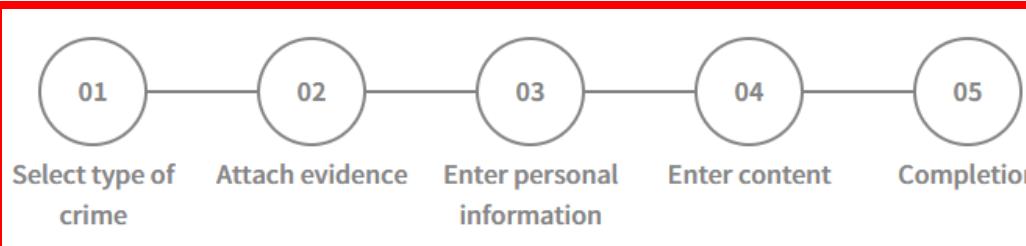
① Please select a crime type.

사이버범죄 신고시스템 (ECRM)

Electronic Cybercrime Report & Management system

[Notice](#)[Cybercrime classification](#)[Case handling procedure](#)[Q & A](#)[Guidance for other case](#)[My Page](#)

Attach evidence



Please make sure to fill in the * marked items because they are essential items to write



1. Please attach your ID card *

- The reporter's own ID card must be attached. (Available identification card: resident registration card, driver's license, alien registration card, passport, resident registration copy)
- Only photo (image) files of png, jpg, jpeg, and bmp types with a capacity of 1MB or less can be attached to the ID attachment.
- Please attach the attached file with a photo size (width×height) of 2000x2000 or less and a width of 200 or more.

❗ Only the ID file can be uploaded.

[Attach file.](#)

사이버범죄 신고시스템 (ECRM)
Electronic Cybercrime Report & Management system

공지사항

사이버 범죄 분류

사건처리 절차

Q&A

기타 안내 ▾

마이페이지 ▾

임시접수번호	범죄유형	피해금액(원)	접수일시	주거지 관할 경찰서
	직거래사기	750,000	24-01-04	서울광진경찰서

귀하의 신고가 임시 접수되었습니다

귀하께서 신고하신 사건은 현재 시스템상 다중피해 사건으로 확인되지 않습니다.

정식접수를 위해서는 [평일 오전 9시부터 오후 6시](#) 사이에 주거지 관할 경찰서 혹은 가까운 경찰서를 방문해 주시기 바라며, 부득이 일과시간 이외의 시간에 방문하고자 하는 경우, 사전에 방문할 경찰서에 전화하여 방문일정을 조율해 주시기 바랍니다.
경찰서 전화번호 안내는 국번없이 182입니다.

임시접수 후 [14일 이내](#)에 경찰서에 방문하지 않으시는 경우 [반려](#)되오니 참고해 주시기 바랍니다.

Q. 내 신고 조회

■ 접수 내용 확인

Collecting Data : Warrant

【별지1】

압수 수색 검증 영장

【일반용】

【별지1】

영장번호	2013-3589	죄명	국가보안법위반(찬양·고투등) 등	
피의자	성명	유	직업	시간강사(영남대)
	주민등록번호			
주거				
청구한 검사	이	번호인		
압수, 수색, 검증을 요하는 사유	별지 기재와 같다	유효기간	2013. 4. 24. 까지	
수색, 검증할 장소, 신체, 물건	별지 1 기재와 같음.			
압수할 물건	별지 1 기재와 같음.	작성기간(압수수색할 물건이 전기통신인 경우)		
일부기각 및 기각의 원인	<input type="checkbox"/> 장소 <input type="checkbox"/> 신체 <input type="checkbox"/> 물건 <input type="checkbox"/> 압수방법계한 <input type="checkbox"/> 기타 ()			
위 사건의 범죄수사에 필요하고 피의자가 죄를 범하였다고 의심할만한 경황이 있으며 해당 사건과 관계 있다고 인정할 수 있으므로, 위와 같이 압수, 수색, 검증을 한다. 유효기간을 경과하면 집행에 착수하지 못하며, 영장을 반환하여야 한다.				
2013. 4. 15.				
판사 이				
집행일시	2013. 4. 17. 8:10	집행장소		
집행불능사유				
처리자의 소속 관서, 판적	대구지방경찰청 보안수사/44	처리자 서명날인	기기	2013. 4. 17.

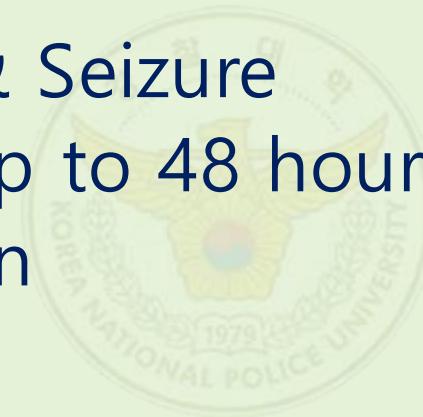
○ 압수할 물건
피내사자 유 [REDACTED]의 주거지 및 신체에 소지·보관 중인 피내사자의 범죄행위에 제공되었거나 피내사자의 범죄 행위와 관련된,
1. 휴대전화
2. 개인용 컴퓨터(PC)
3. 노트북 컴퓨터, 컴퓨터 주변기기, USB, 외장형 하드디스크, 각종 메모리 카드, CD 등 정보처리장치와 부수기록매체 대체
4. 이적성이 추정되는 문서, 도서, 도화, 영상을 등 기타 표현물
5. 반국가단체 또는 평통사를 비롯한 각종 이적단체와 피내사자의 관련성을 인정할 수 있는 노트, 수첩, 일기장, 비밀록, 활동일지, 사진, 메모지 등 각종 자료

○ 수색·검증할 장소 또는 신체
1. 피내사자가 거주하는 [REDACTED]
2. 피내사자 유 [REDACTED] 신체

노컷뉴스

Types of Warrant

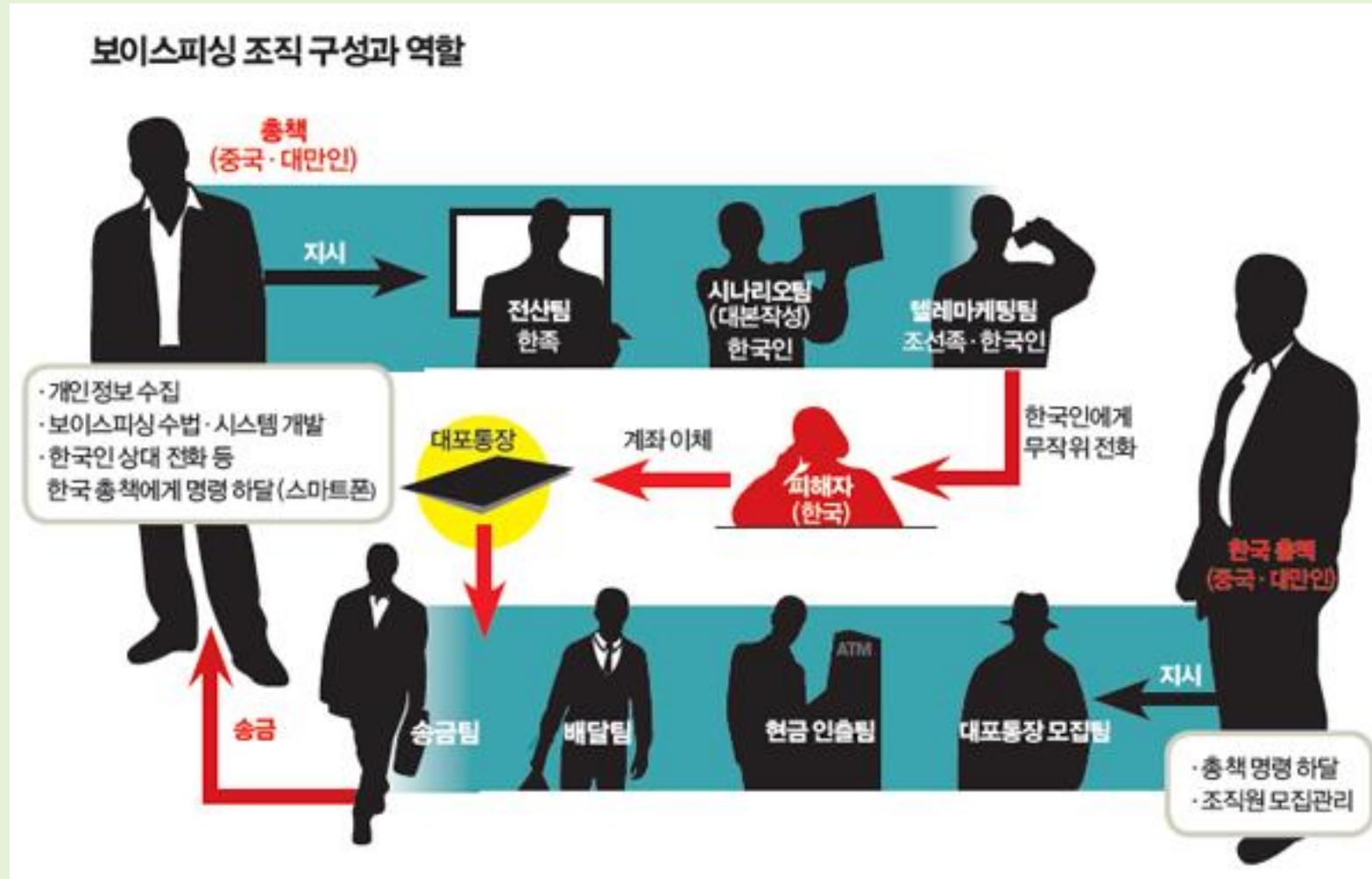
- Warrant
 - Search & Seizure
 - Arrest (up to 48 hours)
 - Detention
- Permission
 - Communication Confirmation data
 - Communication Restricting Measures



Bank Account data by Warrant

고객명	개좌번호	거래년월일	거래시간	상태	종류	통화코드	입지구분	거래금액	거래후잔액	체금	적요	취급부점명	취급은행코드	단말번호	조작자번호	수표마음번호	카드번호	상대개좌번호
김정현	61111111111111111111	2019/04/23	15:13:50	정상	신규	KRW	입금	100,000	100,000	0		은지암(6338)	004	174	2349278			
	61111111111111111111	2019/04/26	11:59:45	정상	전자금융	KRW	입금	50,000	150,000	0	하	충소기압(2764)	003	000	C900007			
	61111111111111111111	2019/04/26	12:09:23	정상	ATM입금	KRW	입금	50,000	200,000	0		진접증합금융센	004	A31	2835431	527		
	61111111111111111111	2019/05/15	15:23:52	정상	CD공동	KRW	입금	5,000,000	5,200,000	0	김	농협(0880)	011	000	C900006			
	61111111111111111111	2019/05/15	15:24:38	정상	CD공동	KRW	입금	3,487,059	8,687,059	0	김	농협(0880)	011	000	C900006			
	61111111111111111111	2019/05/20	11:09:57	정상	ATM출금	KRW	지급	1,000,000	7,687,059	0		은지암(6338)	004	A31	6338431	527		
	61111111111111111111	2019/05/20	11:10:48	정상	ATM출금	KRW	지급	430,000	7,257,059	0		은지암(6338)	004	A31	6338A31	527		
	61111111111111111111	2019/05/23	23:16:18	정상	스마트폰	KRW	지급	142,000	7,115,059	0	하	은지암(6338)	004	123	C900019		081-56	
	61111111111111111111	2019/05/23	23:22:27	정상	스마트폰	KRW	지급	175,000	6,940,059	0	우	은지암(6338)	004	123	C900019		020-16	
	61111111111111111111	2019/05/24	07:41:42	정상	스마트폰	KRW	지급	1,000,000	5,940,059	0	김	은지암(6338)	004	123	C900019		004-04	
	61111111111111111111	2019/05/27	09:32:48	정상	스마트폰	KRW	지급	600,000	5,340,059	0	농	은지암(6338)	004	123	C900019		011-21	
	61111111111111111111	2019/05/27	20:28:41	정상	전자금융	KRW	입금	1,400,000	6,740,059	0	박	농협(0676)	012	000	C900007			
	61111111111111111111	2019/05/30	23:09:48	정상	전자금융	KRW	입금	350,000	7,090,059	0	박	농협(0676)	012	000	C900007		081-56	
	61111111111111111111	2019/05/31	18:21:21	정상	스마트폰	KRW	지급	33,000	7,057,059	0	하	은지암(6338)	004	123	C900019		020-16	
	61111111111111111111	2019/06/03	09:01:08	정상	전자금융	KRW	입금	350,000	7,407,059	0	호	은지암(6338)	004	123	C900019		004-04	
	61111111111111111111	2019/06/03	18:16:29	정상	전자금융	KRW	입금	200,000	7,607,059	0	김	농협(0880)	011	000	C900007		011-21	
	61111111111111111111	2019/06/03	18:39:37	정상	스마트폰	KRW	지급	300,000	7,307,059	0	농	은지암(6338)	004	123	C900019		011-31	
	61111111111111111111	2019/06/03	19:16:19	정상	FBS입금	KRW	입금	1,050,000	8,357,059	0	전	기업디지털사업	004	000	C900023			
	61111111111111111111	2019/06/04	08:14:57	정상	전자금융	KRW	입금	200,000	8,557,059	0	김	농협(9700)	011	000	C900007			
	61111111111111111111	2019/06/04	09:00:54	정상	전자금융	KRW	입금	350,000	8,907,059	0	한	우리은행(6833)	020	000	C900007			
	61111111111111111111	2019/06/04	11:39:35	정상	전자금융	KRW	입금	350,000	9,257,059	0	김	SC은행(3547)	023	000	C900007			
	61111111111111111111	2019/06/05	10:11:35	정상	전자금융	KRW	입금	350,000	9,607,059	0	김	우리은행(0499)	020	000	C900007			
	61111111111111111111	2019/06/05	23:02:22	정상	전자금융	KRW	입금	175,000	9,782,059	0	김	기업디지털사업	090	000	C900007			
	61111111111111111111	2019/06/06	14:03:16	정상	CD공동	KRW	입금	35,000	9,817,059	0	이우	농협(1081)	017	000	C900006			
	61111111111111111111	2019/06/07	17:29:15	정상	CD공동	KRW	입금	315,000	10,132,059	0	활	수협중앙(1233)	007	000	C900006		081-56	
	61111111111111111111	2019/06/07	18:11:52	정상	스마트폰	KRW	지급	770,000	9,362,059	0	하	은지암(6338)	004	123	C900019		020-16	
	61111111111111111111	2019/06/07	18:23:32	정상	전자금융	KRW	입금	100,000	9,462,059	0	김	신한은행(2152)	026	000	C900007			
	61111111111111111111	2019/06/08	12:08:38	정상	전자금융	KRW	입금	175,000	9,637,059	0	신	신한은행(3313)	026	000	C900007			
	61111111111111111111	2019/06/08	22:25:45	정상	스마트폰	KRW	입금	200,000	9,837,059	0	박	하나증권(6338)	004	581	C900019			
	61111111111111111111	2019/06/10	13:55:27	정상	스마트폰	KRW	입금	210,000	10,047,059	0	12	마이액(0895)	004	JOK	C900019			
	61111111111111111111	2019/06/10	13:55:27	정상	스마트폰	KRW	입금	805,000	10,852,059	0	12	마이액(0895)	004	JOK	C900019			
	61111111111111111111	2019/06/10	19:29:08	정상	CD공동	KRW	입금	100,000	10,952,059	0	최	농협(6718)	015	000	C900006			
	61111111111111111111	2019/06/11	15:24:41	정상	전자금융	KRW	입금	700,000	11,652,059	0	김	신한은행(2152)	026	000	C900007			
	61111111111111111111	2019/06/13	13:16:59	정상	티행환	KRW	입금	350,000	12,002,059	0	가	우리은행(1197)	020	000	C900008		011-21	
	61111111111111111111	2019/06/13	23:45:55	정상	스마트폰	KRW	지급	200,000	11,802,059	0	농	은지암(6338)	004	123	C900019		020-16	
	61111111111111111111	2019/06/13	23:49:22	정상	스마트폰	KRW	지급	60,000	11,742,059	0	우	은지암(6338)	004	123	C900019			
	61111111111111111111	2019/06/14	11:33:42	정상	현금입금	KRW	입금	1,050,000	12,792,059	0	13	미에의도리버타워	004	174	2351449			
	61111111111111111111	2019/06/14	11:41:52	정상	현금입금	KRW	입금	100,000	12,892,059	0	호	미에의도리버타워	004	174	2351449			
	61111111111111111111	2019/06/14	18:41:33	정상	체크카드	KRW	지급	39,700	12,852,359	0	영	K8카드(9104)	187	001	C900026			
	61111111111111111111	2019/06/15	03:22:21	정상	결산이자	KRW	입금	623	12,852,982	110		은지암(6338)	004	999	C820102			
	61111111111111111111	2019/06/17	09:54:12	정상	전자금융	KRW	입금	105,000	12,957,982	0	신	신한은행(3313)	026	000	C900007			
	61111111111111111111	2019/06/17	21:53:53	정상	전자금융	KRW	입금	350,000	13,307,982	0	홀	우리은행(5672)	020	000	C900007			
	61111111111111111111	2019/06/17	21:56:57	정상	스마트폰	KRW	지급	150,000	13,157,982	0	윤	은지암(6338)	004	123	C900019			
	61111111111111111111	2019/06/18	09:36:24	정상	전자금융	KRW	입금	5,950,000	19,107,982	0	박	신한은행(3897)	021	000	C900007			
	61111111111111111111	2019/06/18	13:00:12	정상	전자금융	KRW	입금	200,000	19,307,982	0	영	카뱅(0032)	090	000	C900007			
	61111111111111111111	2019/06/18	14:53:38	정상	ATM출금	KRW	지급	1,000,000	18,307,982	0		일반업무(자동화)	004	R32	249732	527		
	61111111111111111111	2019/06/20	19:29:18	정상	FBS입금	KRW	입금	100,000	18,407,982	0	김	기업디지털사업	004	000	C900023			
	61111111111111111111	2019/06/20	21:15:43	정상	체크카드	KRW	지급	5,000,000	13,407,982	0	조	K8카드(9104)	187	001	C900026			
	61111111111111111111	2019/06/20	22:15:55	정상	스마트폰	KRW	지급	3,430,000	9,977,982	0	농	은지암(6338)	004	123	C900019			
	61111111111111111111	2019/06/25	07:47:48	정상	전자금융	KRW	입금	300,000	10,277,982	0	김	신한은행(2152)	026	000	C900007		011-31	
	61111111111111111111	2019/06/25	07:51:55	정상	전자금융	KRW	입금	250,000	10,527,982	0	김	신한은행(2152)	026	000	C900007			
	61111111111111111111	2019/06/25	16:44:20	정상	ATM인출	KRW	인출	1,950,000	12,477,982	0		은지암(6338)	004	A33	6338A33	527		

Systemized Voice-Phising Group



KICS System

(Korea Information system of Criminal-justice Services)



심의신청

■ 사건관서 : 접수번호 : 신분 : 성명 : 주민등록번호

■ 대상자

■ 신청인

* 성명 : 주민등록번호 : 사건관련 신분

* 신청일자 : 주소 : 동 : 호 : 지하

* 이유 : 심의신청내용입력 (4,000자)

전화번호 : 핸드폰번호 : 휴지여부 : 선택 -

■ 심의신청 내용

* 접수번호 : 최명 : 심의신청내용

■ 스캔

스캔 : 다운로드

■ 첨부파일 등록

최대개수: 5 파일확장자: jpg,gif,png,bmp + 폰추가 - 폰삭제 저장

상태 : 순번 파일명 파일크기 다운로드



경찰사건조회

경찰에 입건된 사건에 대하여 진행상황을 조회할 수 있습니다.

경찰사건 진행상황 : 접수 : 수사중 : 결경증결 등

■ 기본내역

관할관서	서울중부경찰서	담당부서	강력4팀	담당수사관	경위 강형사
접수번호	2021-520	사건번호	2021-242	임견일	2021-06-16
결경(종결)일		결경(종결)내역		변호사	삼변호

1 사건검색 2 나의사건등록

3 결경(종결)내역 4 사건이송내역 5 사건통지내역

결경(종결)일 유형 송치-송부기관 사건번호

(!) 해당하는 자료가 존재하지 않습니다.

E-CRIS

(Criminal Records Information)



The screenshot shows the 'e-CRIS' (Electronic Criminal Record Identification System) interface. The top navigation bar includes links for Home, Personal Information Search, and Serial Number Search. The main menu has tabs for '수사자료표' (Investigation Record) and '게시판' (Board). A search bar and a '로그아웃' (Logout) button are also present.

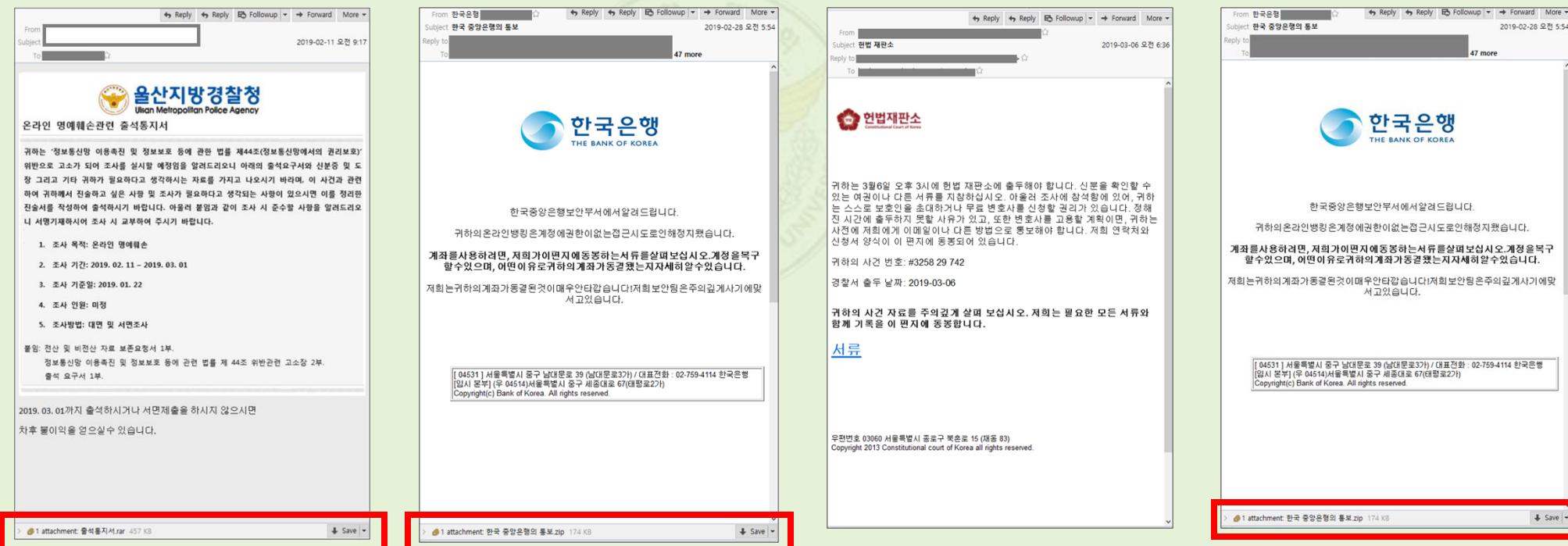
The central area displays a search form for investigation records. Fields include:

- 주민등록번호 (Resident Registration Number): 111111-11111111
- 성명 (Name): 이수
- 주소 (Address): 48, 591-600, 600-00000
- 등록지 (Registration Location): 48, 591-600, 산
- 작성관서 (Filing Office): 경기도 경찰청 경찰청
- 작성일 (Date): 2024-01-01
- 작성번호 (File Number): 7000-00000
- 죄명 (Crime): Q
- 사건번호 (Case Number): 0000 - 000000
- 승인자 (Approver): 계급(직급): 대령, 성명: 이수
- 범죄 수사경력 (Crime Investigation Experience): 0 건
- 작성자 (Writer): 소속: 경기도 경찰청 경찰청, 계급(직급): 대령, 성명: 이수
- 특기사항 (Special Note): 선택 (Select), 이력조회 (Background Check)
- 비고 (Remarks):

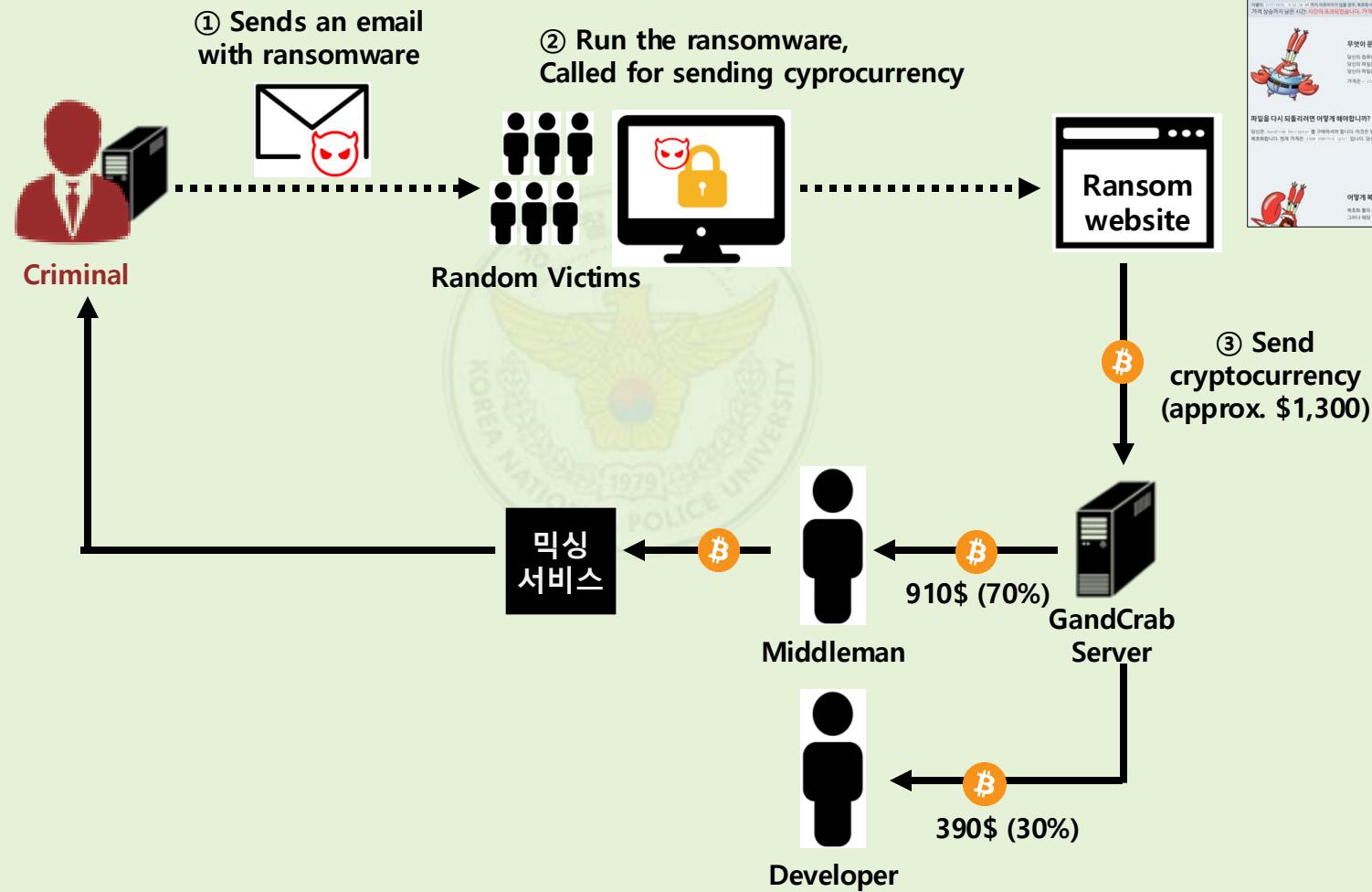
On the right side of the interface, there are two buttons: '사진조회' (Photo Inquiry) and '원지조회' (Original Inquiry). Below the interface is a photograph of a black fingerprint scanner device.

Case Study : Ransomware

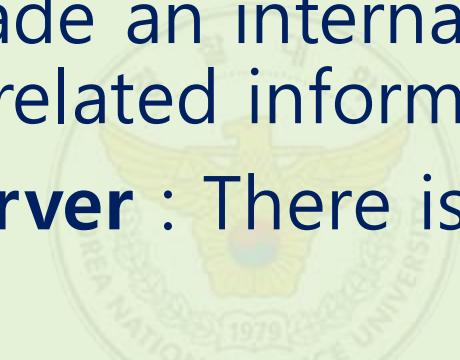
- Criminal emailed 6,486 times, pretending to be Law Enforcement Agency, Bank Of Korea or Constitutional Court of Korea.



Case Study : M.O.(RaaS)

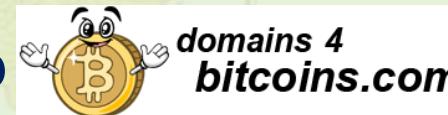


Case Study : Failed Attempts

- 
- E-mail Header** : Mail sent from multiple Netherlands IP addresses, We made an international request for cooperation, but related information was deleted
 - Tracking C&C Server** : There is no C&C used in the ransomware.
 - Following the cryptocurrency transaction** : They used totally private wallet that has no connection between Crypto Exchange.



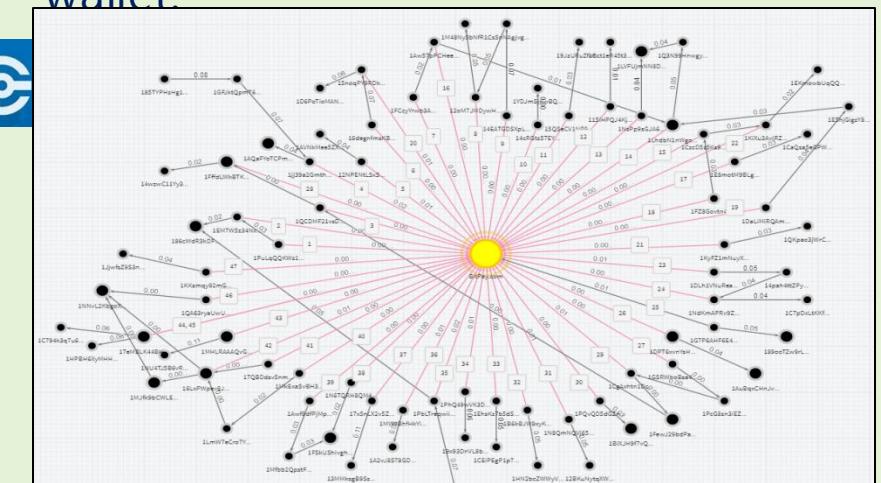
Case Study : MLAT Request

- Several government looking domain is registered by 
- We made MLAT Request to 
- We got the information about buyer(m*****@gmail.com)

Case Study : MLAT Request



- Getting **47** records regarding to purchase **189 domains** from **bitpay**
- Tried to figure out the pattern of those transactions to find a suspicious wallet.
- A Proton mail linked to account mail in it.



Solved Case : Ransomware



4. Training Program



Specialized Highschool



Sunrin Internet High School

: Department of Information Security

Korea Digital Media High School

: Department of Hacking Defense

Government Support for Cybersecurity Specialized University



Ministry of Science and ICT

Establishing policy for project implementation and reviewing
project direction Korea Internet & Security Agency



- Detailed project plan
- Signing Agreement(Ministry of Science and ICT ↔ Korea Internet Development Agency ↔ Universities)
- Overall operation of projects: Managing and monitoring project implementation
(Field inspections, project budget settlement, evaluation, etc.)



Participating universities: Managing students and operating curriculum

Undergraduate Curricula

University	Department	Number of enrolled students
Gachon University	Department of Computer Engineering (Smart Security Major)	50
Konyang University	Department of Cybersecurity Engineering	41
Kyungnam University	Department of Information Security	74
Kyung Hee Cyber University	Department of AI Cybersecurity	77
Korea University	Department of Cyber Defense	114
	Division of Smart Security	56
Korea University (Sejong)	Department of AI Cybersecurity	130
Korea Maritime & Ocean University (KMOU)	Department of Maritime Artificial Intelligence and Security	61
Hansei University	Department of Industrial Security	109
Hanyang Cyber University	Department of Hacking Security	325
Total	45	6,282

Graduate School

University	Department	Number of enrolled students
General Graduate School of Gachon University	Department of Information Security	8
Kangwon National University	Graduate School	20
	Graduate School of Information Science & Public Administration	3
Chungbuk National University Graduate School	Convergence Security Interdisciplinary Course	7
KAIST Graduate School	Graduate School of Information Security	74
Hansei University Graduate School of Engineering	Department of Industrial Security and Safety	1
Hanyang University Graduate School	Department of Information Security	5
Hoseo University Graduate School	Department of Information Security	10
Total	58	1,544

Cybersecurity Elite Course

- Benefits worth over \$20,000 are given to trainee
 - Free laptop (\$2,000)
 - Access to training center
 - A variety of Courses from Top Hackers
- After-Course Support
- Job Offer from IT Tech Companies



실전형사이버훈련장
Security-Gym



Cybersecurity Elite Course



실전형사이버훈련장
Security-Gym



Competitions



Codegate

1st Prize : \$37,000



Competitions



Cyber Conflict Exercise 2023

Joint Defense to National Security Facilities of the public-private army and allies for public safety and check cyber resilience. We will hold a Cyber Conflict Exercise to foster future cybersecurity talents and raise public awareness of cybersecurity.

Host |  National Intelligence Service

Organizer |  NSR National Security Research Institute

Cyber Conflict Exercise(CCE)
1st Prize : \$22,000



Reference

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- https://ko.wikipedia.org/w/index.php?title=%EB%8C%80%ED%95%9C%EB%AF%BC%EA%B5%AD%EC%9D%98_%EC%A0%95%EB%B3%B4_%EB%B3%B4%EC%95%88_%EC%82%AC%EA%B3%A0_%EB%AA%A9%EB%A1%9D&oldid=34576610



A landscape photograph showing a dense forest of evergreen trees in the foreground and middle ground. In the background, a large, light-colored industrial building with multiple levels and a flat roof is visible against a clear blue sky.

Thank you!!
Q&A