모로코의 통계.경제교육원(INSEA) 세미나 참가 결과 보고

- * Institute National de Statistique et d'Economie Appliquee (INSEA)
 - * National Institute of Statistics and Applied Economics (NISAE)

□ 출장 개요

- 세미나 명칭: 통계: 과거의 업적, 현재의 한계, 미래의 도전
- O 주관기관: Haut Commissaire au Plan, www.hcp.mahcp.ma
- 출장자: 교육운영과 박경애, 통계정책과 은순현
- 출장기간 : 2011. 12. 13(화) ~ 12. 20(화)
- 세미나 기간 : 2011. 12. 15(목) ~ 12. 16(금)
- 세미나 장소 : 모로코 라바트의 INSEA Conference Hall

□ 출장 목적

- 모로코 HCP로부터 HCP 주관 '모로코 통계경제교육원(INSEA) 50주 년 기념 세미나'에 우리 청의 통계교육 및 인적역량강화, 국가통계 작성체계 등 발표 요청 받음
- 이에 통계청의 교육프로그램과 국가통계 작성체계를 INSEA 50주년 기념 세미나'에서 발표함으로써 한국 통계청의 통계 역량을 세미나 참가자에게 홍보하고, 양국 통계청의 유대관계 유지를 통한 국제통계협력을 강화하고자 함

□ 출장 일정

- 12.13: 인천공항(AF267) → 프랑스CDG공항(환승 5시간대기)
 →모로코 라바트 도착(AF1358)
- O 12.14: 세미나 준비

- O 12.15~16: 세미나 참가
- 12.17: 세미나 정리 및 문화유산 탐방
- 12.18: 라바트공항(AF2459, 이륙 30분 지연) → 프랑스 CDG공항 도착
- 12.19~20: 프랑스 CDG공항 (AF264, 이륙 1시간30분 지연) →인천공항 도착

□ INSEA 50주년 세미나 참가자

○ 정부, 국제기구, 언론, 학계 등 약 300명

UN 아프리카 지부(World Bank, UNDP, UNFPA 등) 인사 모로코 정부 인사, 학계, 언론인, INSEA 동문, 학생 등

○ HCP (INSEA) 국외 초청 인사 (9명)

Mr. Alain Charraud (프랑스 ENSAI)

Mr. Jacques Anas (프랑스 COE-REXECODE)

Mr. Tim Clode (프랑스 OECD)

Mr. Benoit Riandey (프랑스 INED)

Mr. Jean Pierre Puig (프랑스 INSEE)

Mr. Jean-Jacques Droesbeke (벨기에 자유대학 교수)

Mr. Jean-Louis Tamby (캐나다 통계청)

Ms. Kyung Ae Park (한국 통계청 통계교육원)

Mr. Mr. Sun-Hyun Eun (한국 통계청)

O Contact Point

Abderrahmane Haouch, Chef de Cabinet du Haut Commissaire +212 06 60 10 21 16, www.hcp.ma, hcpcabinet@gmail.com

□ INSEA 50주년 세미나 주요 내용

○ 축사 및 환영사 (15일 오전)

- 정부, 국제기구, 졸업생, 학생 대표 등 약10명의 연설 등 . 50주년 우표, 국내외 역할, 실업, 불평등, 자료접근 등

○ 세션 1: 통계생산의 경제사회 측면 [15일 오전 및 오후]

- 웰빙과 사회진보 측정 (OECD의 Mr. Clode)
- . GDP한계 극복을 위한 현재 및 미래의 웰빙 측정 노력
- 프랑스 통계 시스템 관리의 문제점 (INSEE의 Mr. Puig)
- . 통계의 질과 신뢰성, 조정과 통계의 독립성
- 현 경제위기의 경기예측 지표 (프랑스의 Mr. Anas)
- . 실물, 금융, 여론조사간 차이, Markovic, Probit 접근 소개
- 모로코의 경기 예측 지표 (모로코의 Mr. Akkaoui)
- . 3개월, 6개월 단기예측과, 국민계정 장기예측법
- 모로코 정책을 위한 경제시뮬레이션 (모로코의 Mr. Allalat)
- . 2012년 예측, 석유가격과 정책, 부문별 micro-simulation
- 모로코의 객관적인 지표와 인식 (모로코의 Mr. Taamouti)
- . 실업, 인플레이션, 빈곤의 객관적 지표와 체감 지표 차이
- 인구의 웰빙 측정 도구 (모로코의 Mr. Soudi)
- . 실업, 빈곤, 건강, 주택, 사회적웰빙, 사회통합, 지속가능성
- 여론조사의 규율와 통제 (INED의 Mr. Riandey)
 - . 정책시뮬레이션, 통제/시민을 위한 여론조사, 투명성

○ 세션 2: 통계생산 시스템과 국제 규범(16일 오전)

- 창조적 통계의 역사 (벨기에의 Mr. Droesbeke) . 가설, 추정 등 인물중심 통계의 발전사
- 모로코 HCP의 주요 성과 (모로코의 Mr. Taamouti)
- 캐나다 가구조사의 경험 (캐나다통계청의 Mr. Tambay) . 경제활동조사의 표본, 무응답, 비밀보호 등 질 문제
- 한국 국가통계 시스템 [한국통계청의 은순현]
- 세션 3: 사회경제변화에 대응한 통계교육 [16일 오전]
 - 한국 통계교육원의 통계역량강화를 위한 교육프로그램 (한국 통계청 통계교육원의 박경애)
 - 프랑스의 통계교육 (ENSAI의 Mr. Charraud)
 - . 프랑스와 모로코의 공동학위 (학사, 석사, 박사, 교환 등)
 - INSEA의 50년: 향후 방향(INSEA의 Mr. Boubkraoui)
 - . 연대별 발전사, 연구필요성, 종교와 과학의 분리 주장

□ 한국 통계청의 발표 내용

- 1. 한국의 국가통계 시스템(은순현)
 - 통계청 소개: 미션, 비전, 역사, 재원, 조직
 - 국가통계시스템: 분산형 시스템,
 - 통계청 역할(통계생산자와 조정자)
 - 통계정보 제공

- O 선진통계를 위한 전략
 - 전략 목표
 - 현 시스템의 관심
 - 핵심전략 (대응성, 효율성, 정확성, 편리성)

2. 한국 통계교육원의 통계교육 프로그램 (박경애)

- 통계역량강화를 위한 통계교육원의 훈련 프로그램
 - 통계교육원의 미션과 2011년 주요 성과
 - 한국 통계청의 인적자원 관리 현황 및 계획
 - 교육수요 파악, 교육훈련 실시 및 결과 평가
 - 전문가 양성과정 등 교육의 질적 강화 노력
 - 통계교육원의 e-Learning 과정 및 운영방법
- O 국제 통계교육 프로그램
 - ODA 사업 정책과 통계교육 관련 주요 프로젝트
 - SIAP 프로그램 현황
 - KOICA지원 교육 프로그램의 국가별, 지역별, 과제별 현황
- 2012년 계획
 - 전문성 교육 강화 및 대학원 설립 목표 지향 노력
 - U-Learning 서비스 및 국제교육 강화

□ 수집 자료

- Cinquantenaire de L'Institue National de Statistique et d'Economic Applique (INSEA 50년, CD)

□ 관찰 및 시사점

- 모로코 INSEA 학생의 한국에 대한 관심 증대로 한국과 모로코 의 통계교육 관련 협력이 한국의 아프리카 진출을 위한 교두보 역할을 촉진시킬 것으로 기대
 - 아랍어와 프랑스어가 공식 언어이므로 의사소통 문제 상존
 - INSEA는 프랑스의 지원으로 경제예측방법과 경제통계 우수
 - 모로코가 OECD 세계포럼 아프리카 지역회의 개최 예정지(2012. 4) 로서 삶의 질과 사회진보에 대한 관심 지대
 - 한국 통계교육원의 e-Learning과 U-Learning 대하여 모로코뿐 만 아니라 유럽 참가자들도 지대한 관심 표명
- 모로코(INSEA) 학생들이 한국의 ODA사업 및 KOICA지원 교육 프로그램에 관심이 많고, 한국 유학.연수.방문 희망 의사 강함
 - 한국 통계교육원의 국제적인 브랜드 통계교육과정 개설 필요
 - 한국 통계교육원에서 매년 3~4차례 실시하고 있는 외국인과정 개설 및 운영과 관련하여, 영어실력, 영문교재 및 운영 노하우의 부족문제가 도출되고 있는 바, 국제적 통계교육센터로 도약하기 위해서 국제적 협력관계 증진 및 통계 역량강화 노력 필요
 - 모로코 INSEA는 학위과정 중심이며, 프랑스 ENSAI, INSEE 등 과의 협력관계로 국제적인 교육기관으로 자리매김
 - 한국의 통계교육은 전문가 과정을 제외하고, 거의 모든 과정이 일주일 이내의 단기 과정으로 편성되어 있어, 피교육생들에게 체계적인 통계전문성을 제고함에 한계가 있는 바, 과정 수는 줄이고, 교육기간은 늘리는 방안 검토 필요.



Dec. 15~16. 2011, Morocco



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Contents

- 1. Introduction: Major performance in 2011
- 2. Identification of Training Needs and Planning
 - Recruitment and Development of KOSTAT Staff
 - Obligatory Courses and Performance Management
 - Surveys and Professional Networks
- 3. Statistical Training Programs
 - All Training Courses
 - Training Courses for KOSTAT Specialists
 - E-learning Courses
- 4. International Training and Cooperation
- 5. Conclusions: Plans in 2012

1.1. History and Training Activities of STI

- STI is an affiliate of Statistics Korea
- 1991: Established Statistical Training Center for the purpose of training professionals
- 2009: Moved to new building, Statistics Center
- 2011: 20th Anniversary of STI

	2005	2006	2007	2008	2009	2010	2011*
# of courses	58	66	72	89	108	143	150
# of times offered	160	171	175	256	270	401	353
# of trainees	7,343	8,810	9,981	11,996	14,741	16,278	17,202
*1) As of 10.31.							

^{2) 63%} of all trainees are local offices, 8% from KOSTAT headquarter, 18% from other government agencies, and 11% general public including private agency.

1.2. Vision, Mission and Strategies of STI

Lead Korea to become a statistical powerhouse

Cultivate statistical professionals Promote recognition of statistics

Cultivate Statistical professionals Strengthen training for users

International
-ization
of statistical
training

Expanding training infrastructure

Regular and Ad hoc Programs for KOSTAT staff, Staff of other agencies, General Public, and Foreigners

1.3. Major Performance in 2011

Expansion of statistical professional training

- Evening / weekend courses
- Courses for interviewers of Regional Statistics Officers
- ◆Nine long-term courses for specialists
- **♦** Seminars for professionals (1~2 days)
- Action learning oriented discussion and case studies

Strengthen statistical training for statistical producers

- Custom-tailored courses for statistical agencies
- Provision of textbooks, lecturers and consultation on training programs to statistics compiling agencies

1.3. Major Performance in 2011

Strengthen statistical training for statistical users

- Expansion of statistical training for general public
 - Social survey analysts, STATA
 - Training for elementary school teachers and press reporters
- Promote statistical awareness
 - Training for school students
 - Statistics research schools(elementary, middle)
 - Administration of statistics application contests for children and middle school students
 - Training for interviewers of private sector

1.3. Major Performance in 2011

Internationalization of statistical training

- Management of courses and projects with Korea International Cooperation Agency(KOICA)
- Custom-tailored training course
- Participation at international conferences

Expansion of statistical training infrastructure

- Advancement of training management System
- IMSE (Integrated Management of Statistical Education)

1.4. Training Management System

IMSE(Integrated Management of Statistical Education) http://sti.kostat.go.kr/eng Registration of the course information, Setting up overall planning Training Making course evaluation sheet and time table planning Course Management of trainees, lecture room, result of evaluation planning The number of people who finish the course or not(according to State of course and person) completion **Statistics** The state and record of training, Lecturer DB Lecturer DB, level of lecturer, Management of lecturer fee Management of training facility and accommodation **Facility** Admini-Management of users, text book, code, training expenses and stration official bank account

2. IDENTIFICATION OF TRAINING NEEDS 2.1.Recruitment and Development of KOSTAT Staff

- Recruitment: Two-tiered system
 - Regular: Government Exam.
 - Special: Special areas, Ph.D.
- Changes from rotation to CDP for all staff and nurturing specialists
 - Plans CDP
 - Special posts and areas are designated to improve professionalism of individuals and organizations

2.2. Obligatory Courses and Performance Management

- Obligatory course system for all KOSTAT staff
 - Newly hired staff is required to finish the designed courses prior to their replacement within the organization
 - Transfers from local offices to the headquarters
 - Existing members have to take obligatory courses as well as elective courses for promotion to higher level
 - Performance measurement encourages staff to take STI training courses
 - 100 hours of training per year

2.3. Surveys and Professional Networks

- All kinds of surveys from KOSTAT and Other agencies
 - For each course
 - Curriculum Design
 - Training Course Completion Survey
 - Creative ideas on websites
- Professional networks within KOSTAT
 - OJT, Self-help Courses, Seminars, Study groups, etc
 - Monthly evaluation meetings within STI
- Professional formal and informal networks with outsiders
 - Professors, researchers, officials etc
 - Various agencies, academic community, schools
 - Good way to find good instructors

2.4. Work Flow Chart of Training

Training Planning

Setting up annual training plan



Setting up
Support plan for
training and
implementation



Evaluation on training results and feedbacks

Training management

Setting up management plan for each course

Preparation for each course

Management of training course

Report on results of training course & feedbacks

2.5. Learning Pathway

Curriculum by different levels

Basic Theory

Statistical Thinking, Basic SAS programming

Basic sample theory

Questionnaire design, Basic survey method

Basic statistics

Intermediate I
(Sampling design theory)

Intermediate II
(Statistics
development
planning)

(Professional Training)
Sample design

Professional

Occupation and Industry classification, Statistics administration management, Understanding of various statistics

National Index Accounts Theory

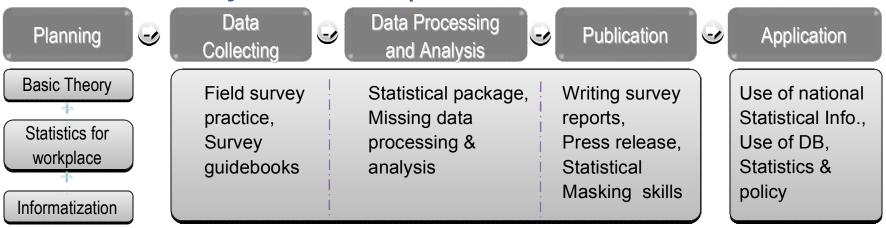
Statistics Quality Management

(Professional Training)

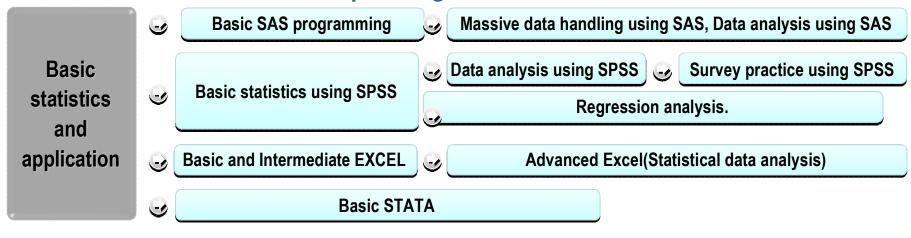
Population projection, Time series analysis in economy, Missing data processing & analysis, Masking Skills, National accounts, Index theory

2.6. Learning Pathway

Curriculum by statistical process



Guide for statistical package



3. STATISTICAL TRAINING PROGRAMS 3.1. All Courses in 2011

Classification			Courses		
General (3)		3	New Comers; Managers		
Special (7)		7	For Korean Students; For foreigners(4)		
	Common	6	Leadership; Speech & Comm. Skills		
Professional	Statistics	45	Basic, mid-Level, advanced		
(105)	Packages	13	STATA; SAS; SPSS		
	IT	7	DB; EXCEL; Power Point; Oracle		
	E-learning	32	Survey Guidelines; Sampling; SAS		
	Language	2	English, Chinese		

3.2. Courses for KOSTAT Specialists

- Long-term course: 16 weeks, 3 hours per week
- Small number of selected trainees: 8-10
- Strict diagnosis and evaluation: achievement(70%), application capability (30%)
- Incentives for job assignment

Classification		Courses		
Professional	Statistics (Methodology)	5	Sample Design I & II, Missing Data Analysis, Masking Skills, Survey Planning (Questionnaire Design)	
(9)	Society	1	Population projections	
	Economy	3	Time Series Analysis in Economy, SNA, Index Theory	

3.3. E-learning Programs

History

- **–2005**: 2 courses, 378 trainees
- **–2006: 4 courses, 2806 trainees, LMS**
- **–2007: 15 courses, 4070 trainees**
- **–2010: 32 courses, 9743 trainees**
- **–2011: 32 courses, about 14,000 trainees**
- •% of e-learning trainees among all trainees:

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50\% (2008) \rightarrow 66\% (2009) \rightarrow 60\% (2010)
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- •% of KOSTAT local officials among all e-learning trainees: 50% (2008) \rightarrow 54% (2009) \rightarrow 75% (2011)
 - e-Learning Center (<u>http://elearn.nso.go.kr</u>):

Open class, Open lecture, Statistical course, e-book

3.4. E-learning Courses, 2011

- 17 survey guidelines are open for staff of KOSTAT local offices
- 13 statistics courses are open to all
- . 7 Basic: Statistical Thinking, Basic Survey Methodology, Occupational Classification, Industrial Classification, Basic Sampling, Basic Statistical Knowledge, Preparation for Social Survey Analyst
- . 6 Advanced: SAS programming, Data Analysis using SPSS, Data Analysis using EXCEL, Regression Analysis, Time Series Data Analysis, Financial Statements.
- 2 knowledge courses are open to all:
 Statistics Act, Officer Integrity

3.5. E-learning Survey Guidelines for KOSTAT Local Officials, 2011

Courses	Units
Consumer Price Survey	9
Manufacturing Production Capacity and Operation Ratio Survey	6
Service Industry Trend Survey	10
Fishery Household Economy Survey	11
Economically Active Population Survey	6
Current Mining and Manufacturing Survey [Mining, Industry]	10
Household Trend Survey	9
Farm Household Economy Survey	21
Vital Statistics (Registration) Survey	6
Crop Production Survey	8
Agricultural Land Survey	7
Fishery Production Trend Survey	7
Livestock Survey	7
Farm Household Sales and Purchase Price Survey	6
Rice Price Survey	5
Livestock Production Cost Survey	8
Current Fish Culture Survey	6

3.6. Procedure for E-Learning

Course Announcement

- Distribute letters & course information on the 10th of prior month

Course Registration (training expenses free of charge)

- Register course during specified period using website
- Maximum 1 course per month

Approval Training

- After approval, STI sends email and SMS

Training

- E-Learning website>My e-learning>Study
- Submission of the task or test

Completion of the course

- Pass or Fail is determined applying progress/ attendance(60%) and evaluation (40%).

3.7. E-learning Management System

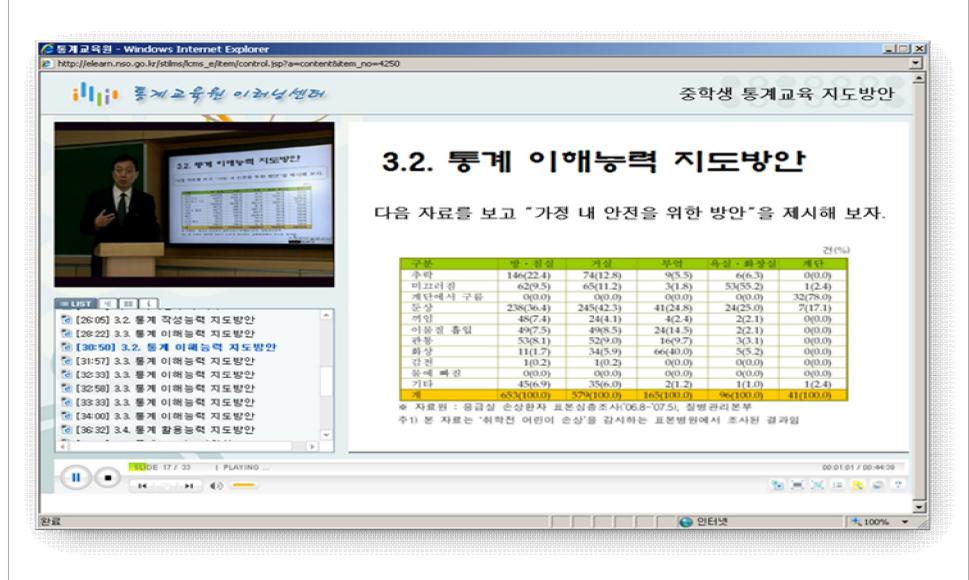
registration, approval, studying, evaluation and completion



3.8. Making Contents Using FLASH



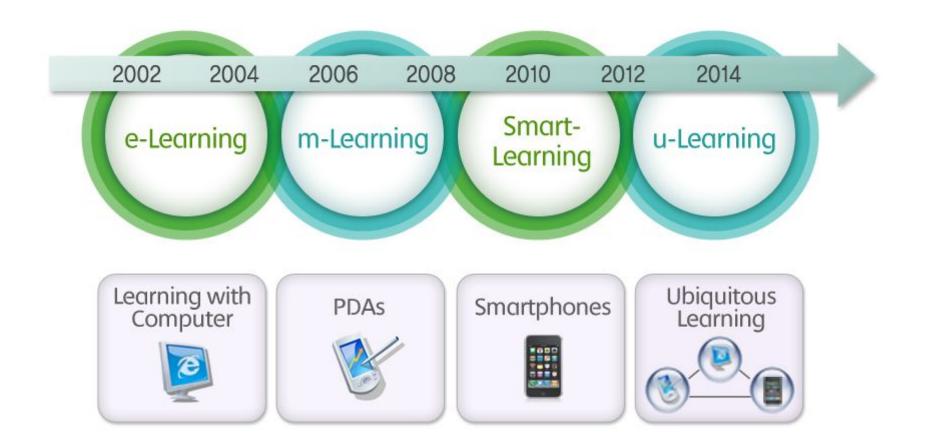
3.9. Making Contents using Multimedia Tool: E-Learning (Open-Lecture)



3.10. Strategies: Contents

- Strengthening contents
 - Considering educational technology when developing e-learning contents (IT development and outsourcing)
 - Organizing teams for writing manuscripts
 - Strengthening quality management of contents
- Servicing various contents through the cooperation with another training institutions
 - COTI (Central Officials Training Institute), KNOU (Korea National Open University), Cyber University

3.11. U-Learning Service



4.1. Organization of KOSTAT's International Training Activities

➤ Into 2 Categories: Supported Training Programs and ODA Training Projects

Supported
Training
Programs

SIAP Programs

KOICA Supported Programs

ODA
Training
Projects

- Capacity Building Projects for Compiling MDGs Indicator
- Project on Building Statistical Infrastructure
- Training Programs

4.2. ODA Policy and Projects

Policy on ODA

- Determine KOSTAT's relative strengths and develop statistical capacity building projects based on it
- Offer outcome-oriented programs according to the needs of recipient countries
- Major ODA projects
- Capacity building projects for compiling MDG indicators
- Project on building statistical infrastructure
- Training programs
 - Statistical survey system using IT
 - One-stop statistics DB management system
 - E-learning system

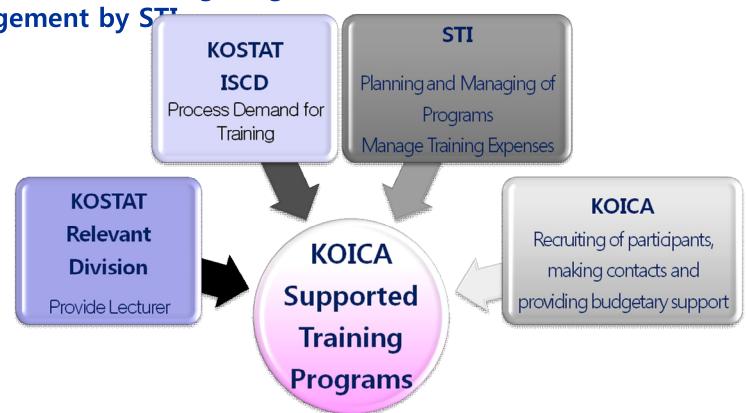
4.3. Training Programs are Managed by International Statistical Cooperation Div.(ISCD) and Statistical Training Institute (STI)

	ISCD (Serving as Liaison)	STI
Training Programs through International Cooperation	Planning and Management of Programs	Program administration and provision of facilities Range of support varies across programs, and some activities overlap
SIAP Training Program	Planning and Management of Programs	Program administration and provision of facilities
KOICA-Supported Training Programs	General Management including demand assessment	Planning and Management of Programs

- KOICA Programs: 20 sessions including practical business of statistics, national government DB set up, public sector data management (2005-11, Transferred to STI in 2008)
- SIAP Programs: 15 sessions including quality management, disability and health statistics, research methods for official statistics (1999~2011 July, 1-2 times per year)

4.4. Role of STI

➤ KOICA-Invited Training Programs are Entrusted under Management by ST



STI: Indicate qualification for trainees

KORCA Local Office: Announce recruitment and process application, and notify agencies

Recipient Country: Administer selection process and apply

4.5. Selection Process for KOICA Supported Programs

Survey Demand within Korea

[KOSTAT & STI] Submit summary of training programs demanded for following year

Coordinate with Recipient Countries (RC) for Finding Projects

[Embassies and Consular Offices, Project Discovery Committee] Coordinate finding projects to support

Process Request for Projects from RC

[RC, KOICA] Receive official request for project from recipient countries

1st Round Review (Policy-focused) 2nd Round Review (Technical Focus) [Project Review Committee] Two rounds with focus on policy and technicality

X Review criteria: linkage to project implementation strategy by country, linkage to topics, technical validity advice from experts

Select Projects and Issue Approval

[MOFAT] Approve project plans and budget

Project Begins

[STI] Administer inbound invitational training programs

Report Outcome

[STI] Report outcomes for each program and process training expenses

4.6. KOICA Supported Training Programs

Number of Programs and Trainees by Year

	2011							
	Total	2005	2006	2007	2008	2009	2010	2011
Programs	20	2	2	2	5	2	3	4
Trainees	311	34	27	29	69	24	57	71

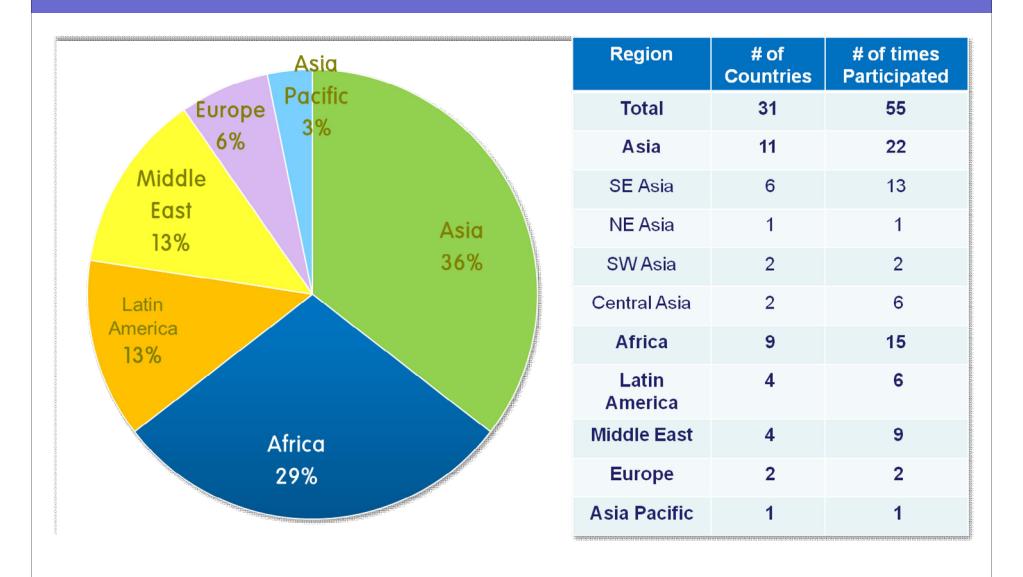
	Total	Developing Countries	Iraq	Afghanistan	Egypt	Mongolia	Bangladesh
Programs	20	6	10	1	1	1	1
Trainees	311	90	169	20	15	10	7

4.7. KOICA Supported Training Programs

➤ Number of Trainees by Program (2005-2011)

Program Contents	Number of Programs	Number of Trainees
Statistical Methodologies	9	128
Practices of Statistics	4	63
Compiling National Basic Statistics	2	32
Basic Skills for Official Statistics	1	21
Statistical Management	1	20
Constructing National Government DB	1	17
Public Sector Data Management	1	20
Regional Statistical Office Staff Capacity Building	1	10
Total	20	311

4.8. KOICA Supported Programs: Distribution of Participating Countries by Region, 2005-11



4.9. KOICA Supported Training Programs

▶ Number of Programs by Country, 2005-11

Country	# of Programs	Country	# of Programs	Country	# of Programs
Asia		Africa		Latin America	
East Timor	1	Nigeria	1	Guatemala	1
Laos	1	Rwanda	2	Jamaica	1
Maldives	1	Senegal	2	Paraguay	1
Mongolia	1	Zambia	1	Peru	3
Vietnam	1	Chad	1	Middle East	
Moldova	1	Cameroon	1	Sudan	2
Afghanistan	1	Cote D'Ivore	1	Jordan	1
Uzbekistan	3	Congo	4	Egypt	5
Indonesia	5	Tanzania	2	Palestine	1
Kazakhstan	3	Europe		Asia Pacific	
Cambodia	4	Moldova	1	Papua New Guinea	1
Thailand	1	Ukraine	1	Total	55

5. Plans in 2012

- •Expand long-term statistical programs for KOSTAT specialist to develop statistical competency
 - More courses, Quality control, textbooks
- U(Ubiquitous)- Learning
 - Contents development and LMS advancement
- •Establish Official Statistics Institute to offer master's degree to support self-motivated study of participants and to develop the pool of specialists
- Train interviewers(enumerators) for private sector and unemployed
- Strengthen international training & cooperation (ODA)



Statistics

Korea

National Statistical System In Korea

Dec. 2011

Eun, Sunhyun



Professor / Lecturer



Name: Eun, Sunhyun

Department: Statistics Korea

Contact: 82-42-481-2051 E-mail: eunsh@korea.kr



Contents



National Statistical System

Strategies for Advance of Statistics



1. Mission & Vision

MISSION

Lead advancement of official statistics And produce reliable statistics

VISION

Highly advanced Statistics Korea opens
the future with the general public

KOSTAT Strategies

Strengthen
infrastructure
of official statistics
to produce
high-quality statistics



Enhance customer satisfaction with user-centered statistical services



2. History and Resources

History

- The Bureau of Statistics in 1948 (4 divisions, 1,000 officials)
- BOS was moved to the Economic Planning Board in 1961 to support a series of the 5-year Economic Development Plans
- Become an independent organization in 1990 (3 Bureaus, 14 divisions, 11 local offices, 1,122 persons)
- Upgraded to Vice Ministerial level in 2005
- Found the Statistical Research Institute in 2006 (3 divisions)
- Establish the Survey Management Bureau (4 divisions) in 2007
- Founding Agriculture and Fisheries
 Production Statistics Division in 2008
- Restructure into 5 Regional Offices and 49 Local Branch Offices in 2009

Resources

Manpower: 2,257 persons (6 bureaus)

- HQ: 549

- Local offices: 1,637

- STI: 28

- SRI: 43

• Budget: \$340M (2010 FY)

• HQ: 6 bureaus, 40 divisions

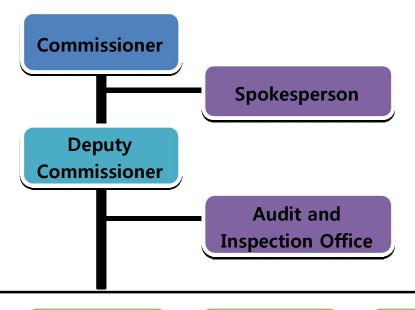
Local: 5 regional offices,
 49 branch offices

• STI: 2 divisions

• SRI: 3 divisions

3. Organization

National Statistical Committee



Planning and Coordination Bureau

Statistics
Policy
Bureau

Survey Management Bureau Economic Statistics Bureau

Social
Statistics
Bureau

Statistical Information Service Bureau

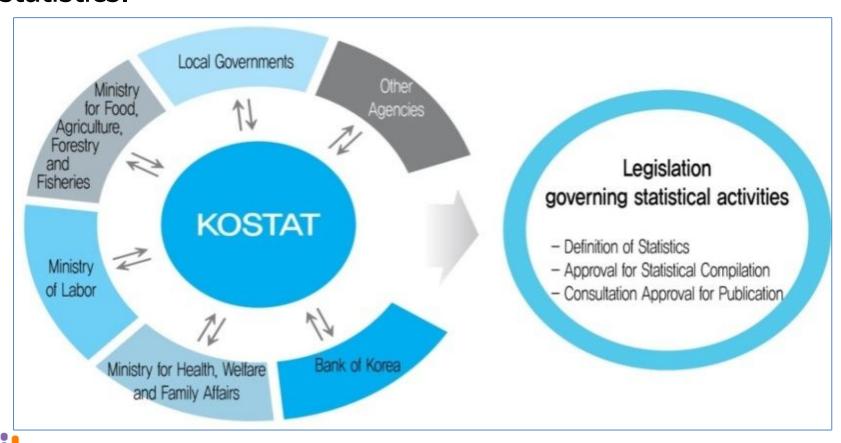
General Services Division Statistical Training Institute Statistical Research Institute 5 regional offices & 49 local branch offices





Decentralized Statistical System

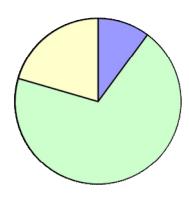
◆ 375 organizations produce 850 subjects of official statistics.



Decentralized Statistical System



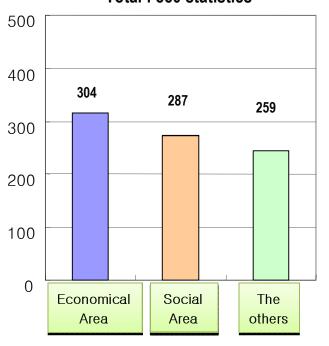
Total: 375 offices



- Central government bodies: 38
- Local governments : 260
- Other designated agencies: 77

< National Statistics >

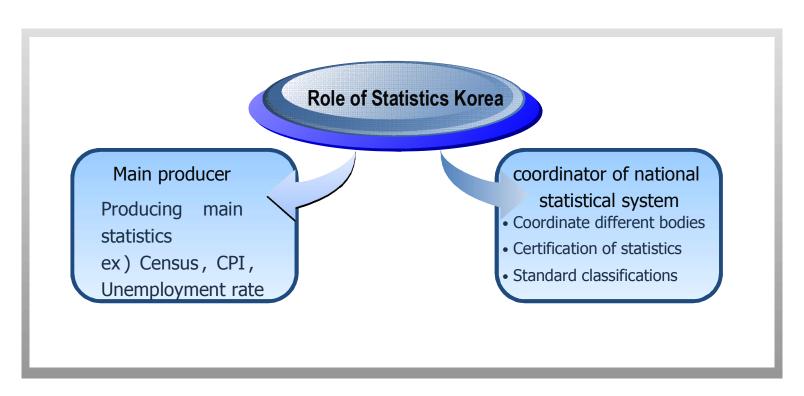
Total: 850 statistics





Role of Statistics Korea

KOSTAT plays a key role in integrating and coordinating statistical activities of all agencies.



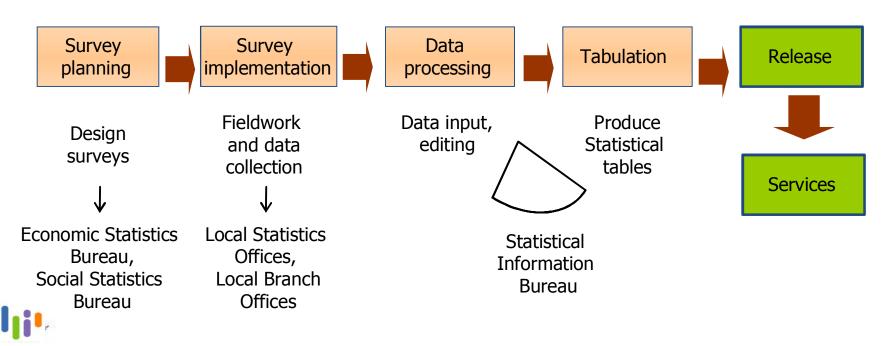


Role of Statistics Korea

1.Main Producer – Compile key Statistics

1 Survey Procedure

Statistical works have various steps in the procedures from producing statistics, which are needed by relevant fields, to supply data to users.



Role of Statistics Korea

1. Main Producer – Compile Key Statistics

- ② Vital Statistics
 - Births, Deaths, Marriages, Divorces
- **3 Employment & Household Survey**
 - Economically Active Population Survey
 - Household Income and Expenditure Survey
- **4** Mining and Manufacturing
 - Monthly Survey of Mining and Manufacturing



Role of Statistics Korea

1. Main Producer – Compile Key Statistics

(5) Census

- Population & Housing Census
- Economic Census
- Census of Agriculture, Forestry and Fisheries

6 Construction and Transportation

- Construction Orders Received Survey
- Transportation Survey



Role of Statistics Korea

1.Main Producer – Compile key Statistics

- 7 Wholesale and Retail Trade
 - Wholesale and Retail Trade Survey
- **8 Service Industry**
 - Monthly survey of Service Industry
- Agriculture, Forestry and Fishery
 - Farm Household Economy Survey



Role of Statistics Korea

2. Coordinator of National Statistical System

- 1 Verify and approve newly compiled statistics
- (2) Establish statistical standards and classifications
- ③ Sampling, preparation of survey, statistical analysis and other technical support
- 4 Support the production of regional statistics
- 5 Identify and resolve new statistical need
- 6 Strengthen the linkage between statistics and policies



- **4 key Governance Measures of NSS**
 - Approval of Official Statistics
 - Quality Assessment
 - Standards and Classification
 - Statistics-based Policy Management



Role of Statistics Korea

3. Disseminate Statistical Information

- ❖ Provide statistical data for a variety of users in various formats
 - >Users : Policy-makers, researchers, universities, companies
 - >Formats: publications, KOSIS, CD, Data-Warehouse, microdata
- ❖ Build Web-based database system for the general public
 - KOSTAT Main Website [http://www.kostat.go.kr/eng]
 - · Monthly hits: 6,480 thousand
 - KOSIS Data Service [http://kosis.go.kr]
 - · Statistics portal system in Korea
 - SGIS [http://gis.kostat.go.kr]
 - 'Statistical Geographic Information System





Role of Statistics Korea

4. International Cooperation

- Exchange statistical missions on main issues with bilateral activities
 - > Japan, China, Germany, Mongolia, Vietnam, Thailand, Iran, UAE, Kazakhstan
- Host or participate in international statistical conferences or courses
 - > UN, OECD, ESCAP, ECE, ILO, ISI, IMF, SIAP
- Provide statistical data to international organizations
 - > OECD, IMF, UN, etc.
- ❖ Technical Assistance for statistical capacity building of developing countries
 - > Collaboration with the KOICA (seminars, experts, etc.)
 - ➤ Host SIAP Statistical Training Courses
 - > Provide consulting service (IT) in cooperation with IOs



Role of Statistics Korea

5. Statistical Training and Research

- STI trains various groups (statisticians, students, press, citizens)
 - > deal with a wide range of topics (sampling techniques, survey methodology, individual surveys, statistical packages ...)
- SRI conducts analytic research relating to official statistics
 - > Advanced analysis techniques, analysis of socioeconomic change and implications, new areas of statistics ...



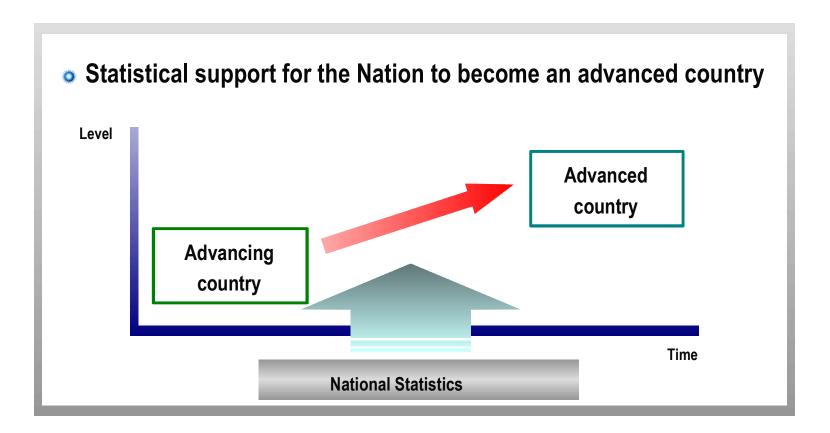
3 Strategies For Advance of Statistics

- Objectives of the strategy
- Core Strategy



1. Objectives of the Strategy

Objective of National Statistics





2. Issues of concern in current statistical system

Weak infrastructure to meet growing user demands

- Lack of mechanism to match production of statistics to user needs
- Insufficient allocation of budget and human resources

Shortcomings of the decentralized system

- Lack of comprehensive governance for developing and managing high-quality statistics
- Low priority to social/regional statistics compared with economic statistics

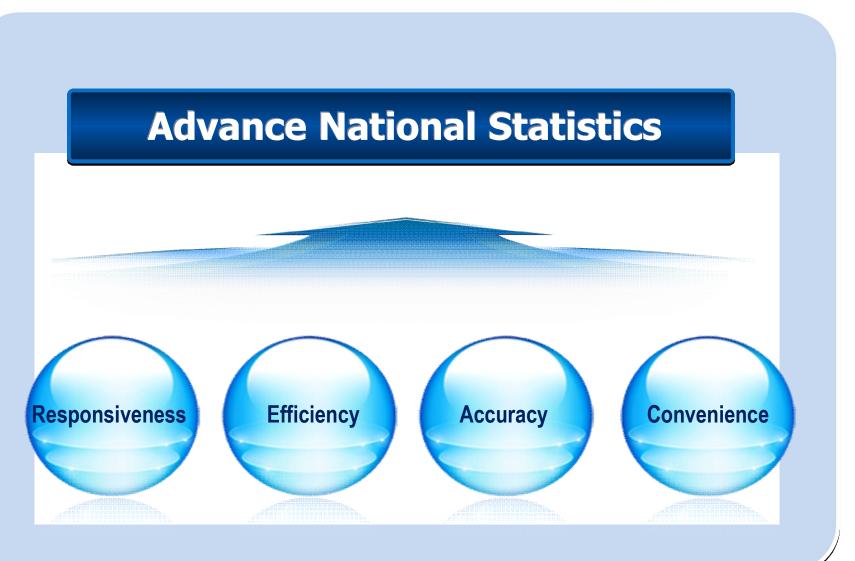
Low utilization of administrative data

- Lack of data sharing due to low awareness and security reasons
- Inconsistencies in terminology, standards and classifications between administrative data

Widening communication gap and poor quality control

- Public's distrust in statistics which is different from their perception
- Ineffective management of outsourced surveys of governments

3. Core Strategy





3-1. Develop Relevant Statistics for Supporting Policies

Produce more policy-based statistics

- Systematically diagnose policies and relevant statistics in cooperation with national policy think-tanks and government agencies
 - → Identify statistical needs
- Find out the newly required statistics through Statistics-based
 Policy Management System launched in 2008



3-1. Develop Relevant Statistics for Supporting Policies

Put in place statistics-based policy management

Presidential Decree revised in 2007
 "Government agencies should submit relevant statistics or plans to develop them when they revise acts."
 Crucial role in evaluating policies
 Planning stage
 Execution Stage
 Evaluation Stage



3-1. Develop Relevant Statistics for Supporting Policies

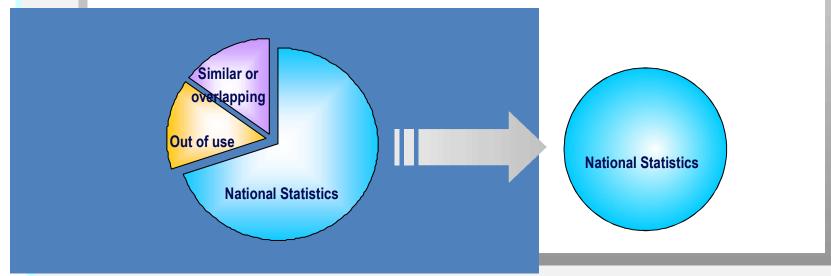
Produce more policy-based statistics

- Produce income inequality indicators at diverse dimensions
- Compile supplementary indicators of unemployment rate
- Produce statistics of newly emerging global agenda (quality of life, green growth, climate change...)



Abolish or combine overlapping surveys and statistics

- Main targets: similar, overlapping, or out-of-use statistics
- Able to save about \$2 mil. per year





More use of administrative data

- Some statistics can be replaced by administrative data.
 ex) Population Census, business surveys
- The revised Statistics Act provided the legal basis to use administrative data for producing statistics. (2009)
- Many issues remain to be resolved
 - Conflicts between agencies, technical problems to protect privacy, different classifications, etc.



More use of administrative data

- Revise the tax law in order to use tax data
 - "Statistics Korea may use tax data to compile statistics" (in tax law)
- Established integrated system of combining administrative data with existing statistics

 (i.e.) tax data, 4 social insurance data
 unemployment, health, pension, and industrial accident
- Various tax data to be accessed
- Business register (name, address, tel., activity, etc.)
- Data of VAT, income tax and corporate tax data)



More use of administrative data

- Strengthen the electronic security for confidentiality of tax data
 - separate intranet from internet
 - management of log files
- Review correspondence between administrative data items and survey items
- Standardize the statistics compilation process



3-2. Enhance Efficiency

More use of administrative data

Register-based census in 2015

- Conduct register-based census for the 2015 Population Census (i.e. resident registration, building registration, etc)
- Sample surveys only for particular items



3-2. Enhance Efficiency

Increase the use of ICT

- Electronic survey methods are used for interviews and data input for a higher response rate.
 - CAPI (Computer-Assisted Personal Interviewing)
 - CASI (Computer-Assisted Self Interview)
 - CATI (Computer-Assisted Telephone Interview)
- Use remote sensing technology for compilation of agricultural statistics
- Establish a universal survey system for all data producers
 - Set up a comprehensive survey system supporting each stage of statistics production



3-3. Improve User's Trust

Statistical quality management

- Monitor quality in each stage of data production to guarantee quality of national statistics
- Statistics Law gives the authority (Articles 9-11)

	Rotational SQM	Ad-hoc SQM	Self SQM
Who	KOSTAT	KOSTAT	each agency
How often	every five years	as needed	annually
What	all statistics	low quality statistics	own statistics



3-3. Improve User's Trust

Conduct surveys on behalf of other statistical offices

- Weak survey infrastructure at many statistical agencies
- Survey on behalf of other statistics agencies utilizing KOSTAT interviewers.

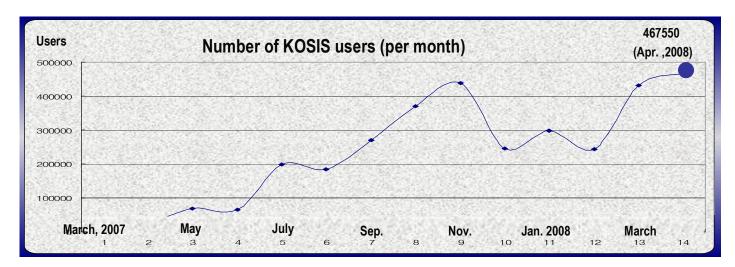
Ex) OECD International Assessment of Adult Competencies survey contracted out by the Education Ministry (2010)



3-4. Convenient Accessibility

One-stop statistics service

- KOSIS: Korean Statistical Information Service
- Store 170 million data cells
- Planning to integrate all national statistics to KOSIS.





3-4. Convenient Accessibility

E - National indicators service

- Include 835 key indicators to understand the status of Korea (employment, industrial production, price, GDP, etc.)
- Info on the meaning of each indicator and relevant polices
- Useful information for :

Policy makers

Formulate better policies

Citizens

 Fully understand status of Korea



3-4. Convenient Access

Statistical Geographic Information Service (S-GIS)

- Provide map-based small-area statistics
 - individual structures displayed; convenient for market analysis
- Useful information for :

Individuals

residence

Find location for

ex) baby care centers, schools, etc.

Business

Find location to open business ex) consumers, competitors, etc.

Government

Effective welfare policy ex) the poor, the old



SGIS(Statistical Geographic Information System)

- Customized service for regional analysts of small-area data
- ❖ Utilize census maps and individual information on 27 census topics, covering 13.5 mil households and 3.2 mil businesses nationwide
- Statistical Data + Geographic information on a map
 - Display small-area statistics visually and spatially (down to 1 km2)
 - > Provide the Statistical Navigator which is an useful and convenient tool for market analysis
 - Special value for market analysis





KOSIS(http://www.kosis.kr)

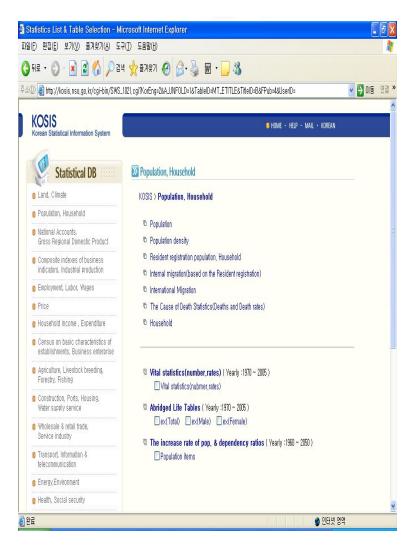
- * KOSIS (Korean Statistical Information Service)
 - Most representative statistical DB in Korea for international statistics and domestic statistics produced by KOSTAT and other statistical domestic agencies
- Domestic and foreign data service
 - ➤ Provide 1.35 million time-series data in 22 subject groups
 - Supply data obtained from international organizations (UN, IMF, OECD)
 - ➤ Monthly visits 377 thousand, monthly pageview 11,793K
- ❖ Search criteria in KOSIS
 - ❖ By year, frequency, producer, subject group, topic



(Reference) KOSIS(http://www.kosis.kr)

In KOSIS, any people can find the requested data by himself and On-line Publication Service is also available





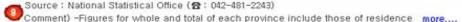


(Reference) Statistics Tables

In KOSIS, any people can generate dynamic statistics tables by himself.

The screen after clicking on the title of statistics table is composed of an statistics table and functions of data adjustment. @ Help Search Object 🔽 ₩ Item By administrative district ✓ By age Decimal Point Search Period Irregularly ▼ Term (1925 ~ 2005) English ~ **X X W 6 8** ⊕Zoom ⊝Zoom Save 📆 Analysis 🎉 🛄 -By admin…▽ Irregularly ▽ + By age ▽ Hide Summary of Census population(By adminstrative district/sex/age) 2005 By administrative district * By age Population(Person) Male(Person) Female(Person) Sex ratio(Percent) Whole country Total 47,041,434 23,465,650 23,575,784 99,53 0-4 Years old 2,382,350 1,237,301 1,145,049 108,06 5-9 Years old 1,654,228 1,514,659 109,21 3,168,887 10-14 Years old 3,434,891 1,816,318 1.618.573 112.22 15-19 Years old 3,100,523 1,626,378 1,474,145 110,33 20-24 Years old 1,915,902 1,746,221 3,662,123 109,72 25-29 Years old 3,671,847 1,858,332 1,813,515 102,47 30-34 Years old 4,096,282 2,059,913 2,036,369 101,16 35-39 Years old 4,112,785 2,065,668 2,047,117 100,91 40-44 Years old 4,123,041 2,082,427 2,040,614 102,05 45-49 Years old 1,939,040 3,900,899 1,961,859 101,18 50-54 Years old 2.855,297 1,426,597 1,428,700 99,85 55-59 Years old 2,278,438 1,126,997 1,151,441 97,88 60-64 Years old 897,384 991,469 1,888,853 90,51 65-69 Years old 1,680,067 755,949 924,118 81,80 70-74 Years old 1,252,734 514,241 738,493 69,63 75 Years old & over

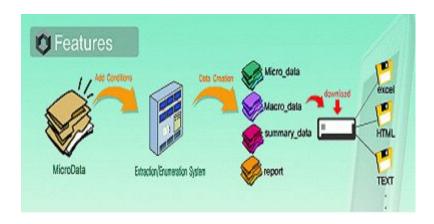






MDSS (Micro Data Service System)

- Allow users to access micro-data protected by statistical disclosure control methods for in depth analysis through the Internet
- Micro-data coverage: establishments, households, industry ...







Let's MLB (Major League Baseball?)

Make Life Better!



ROYAUME DU MAROC



Rencontre internationale sur:

« Replacer le rôle de la statistique dans un contexte national et international en mutation »

PROGRAMME

Le jeudi 15 décembre 2011

INSEA-Rabat

Jeudi 15 Décembre

08h30 - 09h00	Réception		
09h00 - 10h30	Séance d'ouverture		
	Allocution de Monsieur Ahmed LAHLIMI ALAMI,		
	Haut Commissaire au Plan		
	Séance Témoignage :		
	- Monsieur Mohamed HORANI, Président de la Confédération Générale des Entreprises au Maroc ;		
	- Monsieur Anis BIRROU, Secrétaire d'Etat auprès du Ministère du Tourisme et de l'Artisanat, Chargé de l'Artisanat;		
	- Monsieur Aziz RABBAH ; Président du Conseil Municipal de la ville de Kénitra ;		
	- Monsieur Jeffrey WAITE, le Chef du Bureau par Intérim de la Banque Mondiale au Maroc ;		
	- Madame Amani ABOU-ZEID, Représentante Résidente de la Banque Africaine de Développement au Maroc ;		
	- Mot des enseignants de l'INSEA, Monsieur Abdelkhalak TOUHAMI, Professeur à l'INSEA;		
	 Monsieur Abderrahmane SINE, Président de l'Association des lauréats de l'INSEA; Mot du représentant de BDE des étudiants de l'INSEA. 		
			Présentation du timbre commémoratif. M. Amine BENJELLOUN TOUIMI, Directeur Général de Barid Al Maghrib
	10h30 - 11h00	Pause-café	
11h00 - 12h30	Séance 1 : dimensions économique et sociétale de la production statistique		
	L'économie appliquée au service de la décision politique		
	Président : Monsieur Ahmed Lahlimi Alami		
	- Les indicateurs avancés de conjoncture et leur performance durant la crise actuelle. M. Jacques ANAS, COE-REXECODE		
	- Indicateurs de Conjoncture : Prévisions à court terme au Maroc. M. Ali EL AKKAOUI		
	- Prévision économique et simulation des politiques publiques M. Abdelhak ALLALAT, HCP		
	Débat		
12h30 - 14h30	Déjeuner		

14h30 - 17h30	Dimension citoyenne de la statistique Président : Monsieur Rachid BELMOKHTAR, Président de l'ONDH	
	- Mesures objectives et perceptions : cas du Maroc. M. Mohamed TAAMOUTI, HCP	
	- How's life? The OECD's work on measuring well-being and fostering the progress of societies. M. Tim Clode, OCDE	
	- Quels instruments pour mesurer le bien être de la population ? M. Khalid SOUDI, HCP	
	- La territorialisation du système d'information statistique : un enjeu du processus de régionalisation. M. Larabi JAIDI	
	- Réglementer et contrôler les sondages d'opinions. M. Benoit RIANDEY, INED, France.	
	Débat	

Vendredi 16 Décembre

09h00 - 10h30	Séance 2 : Systèmes Nationaux d'Information Statistique et normes internationales : quelques exemples de pays Président : M. Adil KABBAJ, Professeur à l'INSEA		
	- Quels aspects de la problématique de Gestion du Système Statistique en France : M. Jean-Pierre PUIG , INSEE, France.		
	- Le HCP, noyau du SNIS, quelles performances? M. Mohammed TAAMOUTI, HCP		
	- Statistical systems in Korea. M. Sun-Hyun-EUN		
	- Expérience Canadienne en matière d'enquêtes aupres des ménages, Statistique Canada Jean-Louis TAMBAY (tat can.) C. Ca		
	Heurs et malheurs des innovations statistiques. Jean-Jacques DROESBEKE, Université Libre Bruxelles, Belgique.		
	Débat		
10h30 - 10h45	Pause-café		
10h45 - 12h00	Séance 3: L'enseignement de la statistique dans des contextes socio- économiques en mutation		
	Président : M. Mohammed EL HAJ TIRARI, Professeur à l'INSEA		
	- Training programs for statistical competency development. STI, Korea, M. Kyung Ae (Kay) ParK		
	- Enseignement de la statistique en France. M. Alain CHARRAUD, ENSAI, France		
	 Cinquante ans de formation à l'INSEA : quelles avancées ? M. Lhoucein BOUBKRAOUI, INSEA 		
	Débat Général		