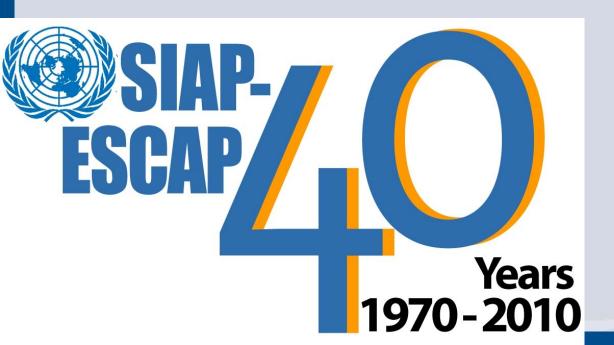
40th Anniversary Celebration of SIAP

Ninth Management Seminar for Heads of the National Statistical Offices in Asia and the Pacific 31 August – 2 September 2010, Tokyo, Japan



Core Skills Framework (CSF)





Conventional approach to training

- Institute decided on what is appropriate for developing statistical skills in NSO
- Focused on the delivery of pre-decided training contents by SIAP faculty
- Get the feedback
- Make changes as appropriate afterwards







Influencing factors for a change

- Results based management practices adopted by ESCAP
- Results oriented training requirements by JICA; co-organizers of TMA based training
- Need to observe an Impact and measure at least 'outcome' rather than 'outputs'
- Ensure sustainability of capacity building







Introduction of CSF

- SIAP (Primary reason): to identify what skills SIAP should provide training on.
- NSS (Other uses): to identify which additional skills are needed by NSS staff to improve their organizational performance.
- STAFF: to manage their own professional development and identify what skills they need to improve their job performance
- Descriptions in CSF can be used to decide on the skill requirement:
 - for each Level for career path developments and
 - for each subject area for training content/curriculum designing



Core Skills Framework



- Core skills framework was used to identify the skills required by NSO's; grouped into 3 main types
 - Core statistical skills
 - Specialist statistical skills
 - Statistical management skills
- Skills levels:
 - Level 1: Clerical Support
 - Level 2: Core skill –level 2 (Compiler)
 - Level 3: Core skill –level 3 (Analyst)
 - Level 4: Core skill –level 2 (Senior Analyst)
 - Level 5: Core skill –level 2 (Supervisory)







Three separate frameworks

In line with three focus areas of SIAP, and General division of work in NSO, following Subject divisions identified:

- Social statistics
- Macro Economics
- ICT

CSF is not static and needs updating







Focus areas of SIAP

- a. Supporting monitoring and evaluation of national development strategies with respects to MDGs and sustainable development;
- b. Integrated economic statistics, including 2008 SNA; and
- c. Strengthening national capacity in application of information management.
- Immerging needs as reflected by the need survey
- ESCAP-SD initiatives





Skill matrix - attachment -3: for an illustration of how skills are related to each Level

Skill Matrix notations for ICT statisticians.

Attachment -3

	Levels			Topics				Relevance			
(L2	L3	L4	L5)		1.1			1	1	1	1
					1.2			1	1	1	1
					1.3			1	1	1	1
					1.4		*	1	1	1	1
				=	1.5			1	1	1	1
					1.6			1	1	1	1
	L = T	" R			2.1			0	0	#	1
					2.2			0	0	0	1
					2.3			0	0	0	1
					2.4			0	0	0	1
					2.5			0	0	#	1
					3.1			0	1	1	1
					3.2			0	1	1	1
					3.3			0	1	1	1

- indicates some relevance

eg:

- 1. L(2) is the sum of skills Required at level-2.
- 2. Description for Level 2 is defined under each topic in the CSF (eg:1.3 in level-2) Sum of the descriptions for relevant topics will form the basis for training contents/curriculum for identified area.





Skill/Topic List in the CSF:

- 1.1 General statistical knowledge
- 1.2 Analytical skill and knowledge
- 1.3 Need and feasibility phase of the statistical process
- 1.4 Develop and design phase of the statistical process
- 1.5 Collect and process phases of the statistical process
- 1.6 Analysis and disseminate phase of the statistical process
- 2.1 Delivering agreed outputs
- 2.2 Team leadership
- 2.3 Management of risk
- 2.4 Build productive relationships
- 2.5 Contribute to the management of NSO
- 3.1 Key Indicators [MDGs and sustainable development]
- 3.2 Projections
- 3.3 Research methods and data modeling

Three subject divisions:

- Social statistician
- Macroeconomic statistician
- 3. ICT statistician

Note: Similar skill matrices are available for Social statistician and Macro economic statistician







Simple illustration – Time series



AN ILLUSTRATION- (Topic 1.2 – Analytical skill and knowledge) Attahment-2

Direction from the CSF:

Level 2:

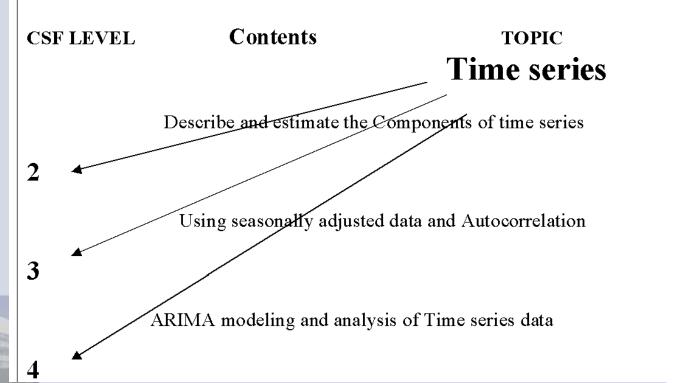
Able to undertake data manipulation, queries and exploratory data analysis using appropriate tools.

Level 3:

+ Can explain why the statistics are produced, who uses them, and how to use them

Level 4:

Proficient in advance analytical tools able to undertake advanced querying



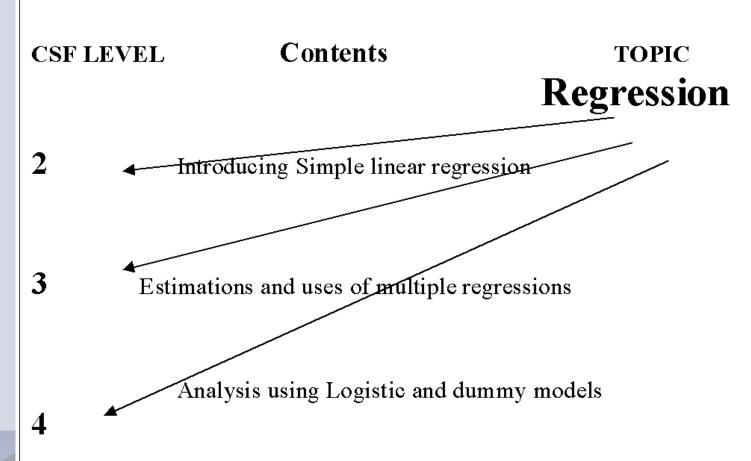


SIAP

Chiba, Japan



Another topic – Regression





SIAP Chiba, Japan



Example of usage of CSF for ICT course

- Expected leaning outcome: Trained participants are able to improve the quality and efficiency of services delivered by government statistical offices through the use of ICT.
- Indicators:
 - Test results
 - Self-evaluation
 - Project work and action plan presentation
 - Information from follow up surveys on action plan implementation





Course design

- Participants: Level 3 and 4 as defined in the CSF for ICT
- Topic boundaries specified:
 - for core skills topics 1.4, 1.5, and 1.6 of CSF
 - For special skills topics 3.1
- Course design: Course consisted of 177 sessions of 75 minutes
 - 100 were in the form of lectures, hands on exercises with software, course work and exercises
 - field trip to a local statistical office and
 - group visits to the statistics bureau of Japan and Japanese industry
 - Project work and an action plan of activities to be implemented upon return to their home countries.





Some issues in implementation of CSF:

- Trainer requirements/perspectives are not frequently met by nominating agencies
- Language proficiency not sufficient
- Heterogeneity of participants is very high
- Sustainability of capacities developed is challenging due to staff mobility
 - Some action to mitigate effects of above needed by SIAP and NSOs!







Tasks ahead

- Fine tuning of the framework is necessary for proper adaptation
 - Need coherence across subject divisions (fix codes)
 - Skill coding systems may be appropriate –SSCS?
 - Statistical Skill Classification System...
 - Encompassing all skill requirements of NSO/NSS
- Advantages of CSF
 - Official statisticians have a common language to speak of skills (like MDGs for social development)
- A challenge
 - Adopting from developed to developing country perspective



CONCLUSION



- SIAP considers that measuring training outcomes will require extra work initially
- Eventually it will start to produce positive impacts on improving participants job performance, and
- Thus improvements in the NSS
- The approach based on CSF shall lead to institutionalizing training efforts and ensure good knowledge management
- Demonstrate multiplier effect of SIAP's training efforts.

(Your views, inputs and comments are welcome.)



SIAP-ESCAP 16 Years