Core skills framework for Statisticians of NSOs in developing countries

General principles used in preparing the framework

- 1. The primary reason for developing this framework is to identify what skills SIAP should provide training for. The framework could be also used to identify which additional skills staff of NSO and other agencies involved in the production of official statistics are needed to improve their organizational performance. The framework can be also used by Staff members to manage their own professional development and identify what skills they need to improve their job performance.
- 2. There are 5 different levels used in the framework which is designed to cover the work of most of the statistical staff in the NSO and other government agencies. Additional I evels could be introduced to cover senior management staff.
- 3. The levels covered in the framework are:
 - 1. Clerical (not fully developed as this positions are not thought to come within the scope of training)
 - 2. Core Skills Level 2
 - 3. Core Skills Level 3
 - 4. Core Skills Level 4
 - 5. Core Skills Level 5
- 4. Prerequisites advancement between levels assumes that the skills developed will be carried forward to the next level.
- 5. The framework encompasses the key points of the strategic objectives established by the Institute.
- 6. The Institute has been given priority areas where development is needed: MDG and su stainable indicators, SNA implementation and Information management and related IC T. In preparing this framework, it became clear that these areas could not be addresse d in isolation. They depend upon a sound skill set in a wide range of statistical areas. T he skills needed for them are quite narrow and only needed by a few people who are s pecialists in each area. By definition, these people will be experienced statisticians who have the ability to become experts and have the ability to lead.

Core skills framework for Statisticians of NSOs in developing countries			
TITLE – LEVEL 2	TITLE – LEVEL 3	TITLE – LEVEL 4	TITLE – LEVEL 5
BRIEF DESCRIPTION OF ROLI	E		
 Arranging the collection & capture of data, editing data, Preparing data for publication, Answering questions from respondents, Dealing with routine requests for statistical information. 	 Contributing to the development of processes, procedures, methodologies & systems relevant to a work area, including the preparation of documentation. Undertaking the operational and technical aspects of processing information and data analysis relevant to a work area. Understanding the requirements of all users of data from the work area and where applicable, liaise, communicate & provide assistance. Researching conceptual & methodological issues Recommending implementing improvements. 	A self managed employee who is: - Beginning to develop leadership skills: think strategically & solve problems. - Can apply their skills & knowledge across several related work areas & apply it to all phases of the statistical process. - Has a good understanding of conceptual and statistical frameworks & is able to help others with their understanding of them - Communicates research reports, statistical output and concepts to a wide range of statistical literacy (e.g. statisticians, policy makers, media, the general public)	Undertakes a range of roles focused on managing the achievement of outputs. These outputs vary from large development projects, to producing regular statistics.
PRE-REQUISITES			
Should feel comfortable using numbers	Proven competence and at least 4 years experience at level 2 or a 2 year university exposure in any of the following disciplines: mathematics, statistics, economics, accountancy, computer science, geography, demography, or other social sciences. All appointees to level 3 should have the potential to progress to level 4 (Senior Analyst).	Proven competence & at least 3 years experience at level 3.	Proven competence and at least 3 years experience at level 4 and strong leadership and communications attributes.

CORE STATISTICAL SKILLS			
1.1 General statistical knowledge		CORE STATISTICAL SKILLS	
			Nothing additional to level 4
1. Can explain respondent burden, confidentiality, & the core values of official statistics as defined by the United Nations and the NSO. 2. Can describe the key economic, social & environmental indicators produced by the NSO & other official statistics producers in their country. 3. Can describe the principles behind the legislation their NSO operates under.	1. Can explain how their work contributes to the overall goals of the NSO. 2. Can explain the statistical measures they use. 3. Can explain what standards are & why they are important to the NSO's work. 4. Can explain what kind of metadata the NSO should have & why is it important. 5. Can explain why measures of quality are important 6. Can explain why confidentiality is applied to data 7. Can explain the respondent burden issues that influence survey design. 8. Can explain the core values of official statistics, as defined by the United Nations & the NSO and why are they important 9. Can describe all the key economic, social and environmental frameworks and has a working knowledge of frameworks that directly affect their area of work.	1. Is able to make linkages between & within economic, social and environmental statistics. 2. Has a thorough understanding of relevant conceptual frameworks (labour market, National accounts, BOP etc). 3. Is able to identify areas for improvement, determine the impact of, & make recommendations for changes based on quality assurance, standards, values and information management principles.	
1.2 Analytical skill and knowledge			
Be able to undertake: 1. data manipulation, queries & exploratory data analysis (group data, gather frequency	1. Can explain to non statisticians why the statistics from their work area are being produced, who they are used by, and how they use them.	Is proficient at using advanced analysis tools, Is able to undertake advanced querying (e.g. regression, modeling)	

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counts, display and interpret outliers) using an appropriate analytical tool.	2. Is able to carry out data manipulation, queries and exploratory data analysis (group data, gather frequency counts, display and interpret outliers) using an appropriate analytical tool.	techniques, multi-variate analysis etc). 3. Understands the linkages, & interdependencies between all phases of the statistical process.	
1.3 Need and feasibility phase		priases of the statistical process.	
	·	1 1	
Can explain why the statistics they work on are	Is able to liaise with key users to establish need.	Is able to test for feasibility and ask what is required to achieve	
produced.	2. Is able to determine research	desired outputs.	
2. Can explain who the	questions, with guidance, & how to	2. Is able to mentor level 3 staff in	
statistics are produced for &	formulate them into statistical measures.	gaining these skills.	
how they will be used.	3. Is able to identify what data is already	3. Is able to determine if a project is	
now they will be used.	available and advise on how gaps can	feasible after doing the required	
	be filled.	research, thinking and consultation	
1.4 Develop and design phase	of the statistical process	· · · · · · · · · · · · · · · · · · ·	
Can explain the key features of	1. Can explain how the systems used to	Has a working knowledge of	
the systems used to produce	produce the statistics they work on were	questionnaire design (e.g. question	
the statistics they work on	designed and developed.	structure, wording, sequencing of	
,	2. Has a working knowledge of	questions etc)	
	population definition, sample	2. Has a working knowledge of	
	methodologies, collection instruments &	complex survey designs	
	statistical processing methodology.	3. Is able to design testing	
	3. Has a working knowledge of testing	programmes	
	collection instruments, and application	4. Can identify the skills required to	
	components.	meet project outputs.	
	4. Has a working knowledge of	5. Understands the implications of	
	workflows and transformations	build decisions on the data which	
1 E Duild phase of the etatictic	al process	will be produced from the system	
1.5 Build phase of the statistic		1 le able te de don te dien	
Can explain the key features of	1. Has a working knowledge of testing	1. Is able to design testing	
the systems used to produce the statistics they work on	collection instruments, and application components.	programmes 2. Can identify the skills required to	
the statistics they work off	2. Has a working knowledge of	meet project outputs.	
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	workflows and transformations.	2. Understands the implications of	
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1.6 Collect phase of the statist	ical process		
1. Can explain the differences	1. Has a working knowledge of sampling	1. Is able to generate and validate a	
between a census, a survey	principles (e.g. populations, sampling	sample	
and administrative data.	frames, representative samples,	2. Is able to evaluate response	
2. Can explain the collection	sampling error and non sampling errors)	burden and compliance cost.	
methods used for the statistics	2. Has a working knowledge of setting up		
they work on will influence the	and running administrative collections,		
final results	including monitoring reports.		
3. Can handle and supervise	3. Has a working knowledge of the		
operations for enumeration	effects of the collection mode on		
and collection in the field	response rates and data quality.		
1.7 Process phase of the statis	stical process		
1. Is able to add, subtract,	1. Can explain the stages of data	1. Is able to develop procedures to	
multiply, divide.	processing and how data is transformed	impute missing data, and calculate,	
2. Is able to calculate and	to meet output objectives.	and apply weights to datasets	
apply percentages, ratios,	2. Has a working knowledge of the	2. Has working knowledge of data	
proportions, fractions.	principles and practices of coding,	integration techniques	
3. Is able to do simple	classification data integration, editing,		
rounding.	imputation and estimation.		
4. Is able to use a calculator	3. Is able to define and produce basic		
and do simple mental	derivations.		
arithmetic.			
1.8 Analysis phase of the statistical process			
Has a working knowledge of	1. Is able to obtain and present	1. Is able to prepare statistics for	
methods used to describe data	background information from a wide	dissemination	
(e.g. simple graphs, averages,	range of sources to validate statistical	2. Is able to identify, justify, and	
percentage changes)	data.	develop process/systems/output	
	2. Is able to obtain and manipulate data	improvement	
	and identify data issues.	3. Is able to present survey and	
	3. Is able to produce statistics and	research findings at external	

seasonally adjusted data. 4. Is able to check the quality of statistics (e.g. response rates, detect and interpret outliers, calculate and interpret outliers, calculate and interpret outliers, calculate and interpret measures of dispersion, macro edit.) 5. Is able to interpret, design visual presentation content and explain statistics (e.g. time series, indicies) 6. Is able to access statistics prior to release for conformity with confidentiality rules and fit for use. 1.9 Disseminate phase of the statistical process Can describe and prepare materials for the different channels used by the NSO to disseminate data (e.g. press releases, we sites, statistical process as which will be a statistical process. 2. Has a working knowledge of data repositories, releases, and dissemination channels. 3. Is able to communicate the story of the statistical multiplications.) and the reasons why channel is used. Statistical Management skills None required at level 2 None required at level 3 None required at level 4 but should be exposed to informal learning opportunities and encouraged to seek mentors at level 5 and other above. Statistical Management skills None required at level 3 None required at level 4 but should be exposed to informal learning opportunities and encouraged to seek mentors at level 5 and other above. Statistical Management skills None required at level 3 None required at level 4 but should be exposed to informal learning opportunities and encouraged to seek mentors at level 5 and other above. 2.1 Delivering agreed outputs 1. Is able to manage the production of agreed deliverables in a work area to required timeframes, to standards, and within budget. 2. Is able to produce and communicate performance indicators for their work area (e.g. quality) accuracy, timelness, timeliness, visible to produce and communicate performance indicators for their work area (e.g. quality) accuracy, timelness,		1		
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accessibility)
2.2 Team leadership
1. Is able to create a productive team
culture.
2. Is able to develop project plans and
expectation/goal statements that
influence the work of the team.
3. Is able to identify the skills required to
meet project deliverables and arrange for these skills can be obtained.
4. Is able to coach team members from
levels 2-4.
2.3 Management of risk
Is able to develop risk management plans
and ensure these influence the way their
team works
2.4 Build productive relationships
1.Can build and maintain, productive
relationships, with users of the
deliverables their team produces to
ensure they are relevant, accurate, timely
and properly used. 2.Has an established network of peers
outside the NSO to enable the
interchange of new information and
practices.
2.5 Contribute to the management of
NSO

			Is able to contribute expertise and ideas to improve decision making. Is able to demonstrate consistent leadership behaviors that support the NSO's desired culture. Is able to contribute to initiatives to be used across the organisation.
Specialist skills in to meet price	ority areas		
None required at level 2	The skills listed in this section (3.1-3.7) are a 1.9 above	dditional to those included in 1.1-	The skills listed in section 5 are additional to those included in section 1.1 - 1.9 at Level 4. They are required for those people working directly in the areas concerned.
	3.1 MDG's and sustainable development		
	Can explain the statistical measures and how they are used.	1. Is able to understand requirements and develop proposals to implement a new measure/indicator. 2. Is able to evaluate the strengths and weaknesses of comparable statistics produced in other countries	Is able to lead the development, preparation and interpretation of MDG and sustainable development indicators. Is able to produce and present technical papers on their NSO's adoption of MDG's and sustainable development indicators.
	3.2 Economic statistics		
	Can explain the statistical measures and how they are used.	Understands how economic statistics are used, including the National Accounts. Is able to identify how improvement to economic statistics can be made that will increase the accuracy of, among others, key National Accounts estimates.	1. Is able to lead the development of statistics and related information repositories (e.g. business registers) which support, among others, SNA.estimation 2. Is able to produce and present technical papers on their NSO's adoption of economic statistics.
	3.5 Small area estimation		

Can explain the statistical measures and how they are used.	Will have the skills to be recognised as a resource person	Nothing additional to level 4
,	in this area.	
3.6 Projections		
Can explain the statistical measures and	Will have the skills to be	Nothing additional to level 4
how they are used.	recognised as a resource person	
	in this area.	
3.7 Research methods and data modeling		
Can explain the statistical measures and	Will have the skills to be	Nothing additional to level 4
how they are used.	recognised as a resource person	
	in this area.	