

Kenya - Kenya Innovation Survey, 2012, First round

Kenya National Bureau of Statistics

Report generated on: October 23, 2021

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Overview

Identification

ID NUMBER
KEN-KNBS-KIS-2012-v1.0

Version

VERSION DESCRIPTION
Version1.0

PRODUCTION DATE
2012-10-15

NOTES
This is the first of its kind, another survey is yet to be scheduled

Overview

ABSTRACT

This innovation survey, the first in Kenya, was carried out in order to generate crucial learning lessons to inform the planning of the main national innovation survey to be undertaken at a later date. However, the overall objective of the innovation survey, being part of the national ST&I system of indicators that is under development, is to build Kenya's capacity to develop and use innovation indicators in designing and implementing ST&I policies and strategies for national development.

The survey is therefore an attempt to probe the activity of innovation through the collection of data on various aspects of innovation in order to develop relevant innovation indicators and specific innovation policies for the country. These indicators will then enable key stakeholders to understand the state of the national innovation system and its capacity to deliver the intended results so as to address the components that need attention.

The innovation survey is designed to:

- Develop and cause the adoption of internationally comparable innovation indicators;
- Build human and institutional capacities to collect innovation indicators;
- Inform the country on the state of innovation; and
- Provide both qualitative and quantitative data on innovation at firm level.

KIND OF DATA
Aggregate data [agg]

UNITS OF ANALYSIS
Firms and establishment as units of analysis

Scope

NOTES
The Innovation Survey covered business firms in Nairobi, Mombasa, Kisumu, Nakuru and Eldoret. A total of 293 firms were targeted in this innovation survey. Out of these, 160 firms completed and returned the questionnaires, thus representing a

54.6 percent overall response rate.

TOPICS

Topic	Vocabulary	URI
See Contents of		
Public Sector	World Bank	
Education	World Bank	
Educational Technology	World Bank	

Coverage

GEOGRAPHIC COVERAGE

Firms in Major Towns of Kenya (urban)

Mombasa City, Nakuru Town, Eldoret Town and Kisumu City

UNIVERSE

Selected towns

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Kenya National Bureau of Statistics	Ministry of Planning and Devolution

OTHER PRODUCER(S)

Name	Affiliation	Role
Ministry of Education, Science Technology		Technical
National Council for Science and Technology		Technical

FUNDING

Name	Abbreviation	Role
Ministry of Higher Education , Science and Technology	MoHEST	Funding

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Richard Mavisi	MoHEST	Coordinator
Dr George Ombakho	DRMD	Coordinator
Cecilia Nzau	ASTII	Head

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Kenya National Bureau of Statistics	KNBS	Ministry of Planning and Devolution	Documentation of the Survey

DATE OF METADATA PRODUCTION
2014-05-18

DDI DOCUMENT VERSION
Version 1.0 (May 2014)

DDI DOCUMENT ID
DDI-KEN-KNBS-KIS-2012-v1.0

Sampling

Sampling Procedure

The sample frame consisted of all registered firms, public/private universities and public research institutions, national polytechnics and NGOs.

The firms were randomly selected by ISIC sector from the frame.

A total of 194 firms were selected in Nairobi and its environs while 102 firms were selected upcountry as follows: Mombasa (25 firms), Kisumu (25 firms), Eldoret (24 firms) and Nakuru (25 firms)

Deviations from Sample Design

No deviation

Response Rate

The Innovation Survey covered business firms in Nairobi, Mombasa, Kisumu, Nakuru and Eldoret.

A total of 293 firms were targeted in this innovation survey. Out of these, 160 firms completed and returned the questionnaires, thus representing a 54.6 percent overall response rate.

The table showing the response rate of firms from different regions of the innovation survey is on page 8 (Table 2.1) of the report which is attached to next external resources

Response rate of firms from different regions of the innovation survey

Region	Targeted firms	Responded	No Response	Response Rate
Nairobi	194	84	110	43.3
Mombasa	25	17	8	68.0
Kisumu	25	15	10	60.0
Nakuru	25	23	2	92.0
Eldoret	24	21	3	87.5
Total	293	160	133	54.6

Weighting

No weight was attached to the data

Questionnaires

Overview

The questionnaire was divided into eleven parts as follows:

- Part 1: General information of the firm
- Part 2: Product (goods or services) innovation
- Part 3: Process innovation
- Part 4: Ongoing or abandoned Innovation activities
- Part 5: Performed innovation activities and expenditures
- Part 6: Sources of information and co-operation for innovation activities
- Part 7: Effects / Objectives of innovation
- Part 8: Factors hampering innovation activities
- Part 9: Intellectual property rights
- Part 10: Organizational and marketing innovation
- Part 11: Specific innovations

NOTE: The full questionnaire is attached in the external resource

Data Collection

Data Collection Dates

Start	End	Cycle
2012-03-01	2012-06-29	3 months

Data Collection Mode

Other [oth]

Data Collection Notes

The field personnel were drawn from Ministry of Higher Education , Science and Technology, the Ministry of Trade and Kenya National Bureau of Statistics. Each team comprised of a team leader and three to five enumerators.

Co-ordinators were assigned responsibility over the team leaders to facilitate overall team work and enhance reporting. The field survey personnel had a letter of introduction, signed by the Permanent Secretary, MoHEST, to deliver to firms selected for the innovation survey.

They letter gave a brief description of the survey and requested the firms to co-operate by completing the accompanying survey questionnaire.

In order to ensure that the survey implementation run smoothly, co-ordinators held regular progress review meetings. During the meetings, progress was assessed and at the same time various challenges were identified and appropriate solutions put in place to deal with them.

This approach ensured that the survey carried out without major hitches.

Questionnaires

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NOTE: The full questionnaire is attached in the external resource

Data Collectors

Name	Abbreviation	Affiliation
Kenya National Bureau of Statistics	KNBS	Ministry of Planning and Devolution

Supervision

In order to ensure that the survey implementation run smoothly, co-ordinators held regular progress review meetings. During the meetings, progress was assessed and at the same time various challenges were identified and appropriate solutions put in place to deal with them.

This approach ensured that the survey carried out without major hitches.

Data Processing

Data Editing

Data processing and analysis were done at the Kenya National Bureau of Statistics. The Census and Survey Software Programme (CSPRO) was used for data capture, editing, validation and tabulation.

In developing the data capture system, certain controls were in-built to check the characters entered after which validation was done in preparation for the production of frequency tables and in readiness for data analysis.

Other Processing

Specific knowledge, skills and experience are required to conduct innovation surveys effectively and provide policy-relevant advice.

ASTII stresses the importance of the quality of data which should be aligned with the African Charter on Statistics.

Training sessions were based on the Oslo Manual which relates to innovation surveys.

The participants were taken through the introduction to innovation surveys, data collection and data processing and the innovation survey

questions using different methods of training such as lectures, group discussions/ exercises and presentations.

The Statistical Package for Social Sciences (SPSS) was used for further analysis and tabulation.

Data Appraisal

Estimates of Sampling Error

No sampling error

Other forms of Data Appraisal

No other forms of data appraisal was reported

File Description

Variable List

Kenya National Innovation Data

Content	<ul style="list-style-type: none"> • Part 1: General information of the firm • Part 2: Product (goods or services) innovation • Part 3: Process innovation • Part 4: Ongoing or abandoned Innovation activities • Part 5: Performed innovation activities and expenditures • Part 6: Sources of information and co-operation for innovation activities • Part 7: Effects / Objectives of innovation • Part 8: Factors hampering innovation activities • Part 9: Intellectual property rights • Part 10: Organizational and marketing innovation • Part 11: Specific innovations
Cases	158
Variable(s)	185
Structure	Type: Keys: ()
Version	Version 1.0 (May, 2014)
Producer	Kenya National Bureau of Statistics (KNBS)
Missing Data	Missing data were asterisk (*)

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	Quest_number	Quest number	contin	numeric	
V2	Name	Name	discrete	character	
V3	Address	Address	discrete	character	
V4	S_activity	Main activity(isic)	discrete	character	
V5	Mainactivity	Main activity	contin	numeric	
V6	Region	Region	contin	numeric	
V7	Estab_year	Year established	contin	numeric	
V8	Q1_1	Q1.1 description of main business activity	discrete	character	Short description of your main economic activity:
V9	Q1_2	Q1.2 is your enterprise part of alarge part	discrete	numeric	Is your enterprise part of a larger group? A group
V10	Q1_2b	Q1.2b if yes, which country is head office	discrete	character	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V11	Q1_3kenya	Q1.3kenya	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V12	Q1_3nairobi	Q1.3nairobi	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

V13	Q1_3central	Q1.3central	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V14	Q1_3coast	Q1.3coast	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V15	Q1_3eastern	Q1.3eastern	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V16	Q1_3neastern	Q1.3neastern	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V17	Q1_3nyanza	Q1.3nyanza	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V18	Q1_3rift_valley	Q1.3rift valley	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V19	Q1_3western	Q1.3western	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V20	Q1_3africa	Q1.3africa	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V21	Q1_3europe	Q1.3europe	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V22	Q1_3usa	Q1.3usa	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

V23	Q1_3asia	Q1.3asia	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V24	Q1_3other_countries	Q1.3other countries	discrete	numeric	In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?
V25	Q1_4_2008	Q14 2008what was enterprise's total number of employees in 2008	contin	numeric	What was your enterprise's total number of employees in 2008 and 2011? Annual average number of employees, both full-time and part-time. If not available, give the number of employees at the end of each year.
V26	Q1_4_2011	Q14 2011what was enterprise's total number of employees in 2011	contin	numeric	What was your enterprise's total number of employees in 2008 and 2011? Annual average number of employees, both full-time and part-time. If not available, give the number of employees at the end of each year.
V27	Q1_4_1pc	Q1.4.1 number of employees with degree or diploma qualification	contin	numeric	What was the number of employees in 2011 with a university degree?
V28	Q1_5_2008	Q1.5 what was your enterpris's approximate turnover for 2008	contin	numeric	What was your enterprise's approximate total turnover for 2008 and 2011?
V29	Q1_5_2011	Q1.5 what was your enterpris's approximate turnover for 2009	contin	numeric	What was your enterprise's approximate total turnover for 2008 and 2011?
V30	Q2_1a	Q2.1a new or significantly improved goods	discrete	numeric	New or significantly improved goods. Exclude the simple resale of new goods purchased from other enterprises and minor changes that only alter the appearance of the product.
V31	Q2_1b	Q2.1b new or significantly improved services	discrete	numeric	New or significantly improved services.
V32	Q2_2	Q2.2 by whom were these product innovations developed	discrete	numeric	By whom were these product (goods and services) innovations developed?
V33	Q2_2_1kenya	Q2.2.1did theses innovations originate mainly in kenya or a broad?	discrete	numeric	Did these innovations originate mainly in Kenya or abroad?

V34	Q2_3a	Q2.3a were any of your goods and service innovations during the three years 2008-2011: new to your market?	discrete	numeric	Were any of your goods and service innovations during the period under review (2008 to 2011) new to your market or new to your firm?
V35	Q2_3b	Q2.3b were any of your goods and service innovations during the three years 2008-2011: only new to your firm?	discrete	numeric	Were any of your goods and service innovations during the period under review (2008 to 2011) new to your market or new to your firm?
V36	Q2_4a	Q2.4a estimated total turnover in 2011: goods and service innovations introduced during 2008 to 2011 that were new to you	contin	numeric	Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:
V37	Q2_4b	Q2.4b estimated total turnover in 2011: goods and service innovations introduced during 2008 to 2011 that were only new to	contin	numeric	Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:
V38	Q2_4c	Q2.4c estimated total turnover in 2011: goods and services that were unchanged or marginally modified during 2008 to 20	discrete	numeric	Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:
V39	Q2_4	Q2.4 total turnover in 2011	contin	numeric	Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:
V40	Q3_1a	Q3.1a during the three years 2008 to 2011, did your enterprise introduce: new or significantly improved methods of manuf	discrete	numeric	During the period under review (2008 to 2011), did your enterprise introduce any:
V41	Q3_1b	Q3.1b during the three years 2008 to 2011, did your enterprise introduce: new or significantly improved logistics, deliv	discrete	numeric	During the period under review (2008 to 2011), did your enterprise introduce any:
V42	Q3_1c	Q3.1c during the three years 2008 to 2011, did your enterprise introduce: new or significantly improved supporting activ	discrete	numeric	During the period under review (2008 to 2011), did your enterprise introduce any:
V43	Q3_2	Q3.2 by whom were these process innovations developed?	discrete	numeric	By whom were these process innovations developed?
V44	Q3_2_1_were_any_of_your_process	Q3.2.1 were any of your process innovations introduced during the three years 2008 to 2011 new to your market?	discrete	numeric	Were any of your process innovations introduced during the period under review (2008 to 2011) new to your market?

V45	Q4_1a	Q4.1a. During the three years 2008 to 2011 did your enterprise have any: abandoned during 2008 to 2011 before completion	discrete	numeric	During the period under review (2008 to 2011) did your enterprise have any innovation activities to develop product or process innovations that were
V46	Q4_1b	Q4.1b. During the three years 2008 to 2011 did your enterprise have any: still ongoing at the end of 2011	discrete	numeric	During the period under review (2008 to 2011) did your enterprise have any innovation activities to develop product or process innovations that were
V47	Q5_1a	Q5.1a during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? intramural	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Intramural or in-house Research and Experimental Development (R&D) Creative work undertaken on a systematic basis within your enterprise to increase the stock of knowledge and its use to devise new and improved products and processes (including software development in-house that meets this requirement).
V48	Q5_1a1	Q5.1a if yes did your firm perform r&d during 2008 to 2011- continuously?	discrete	numeric	If yes, did your firm perform R&D during 2008 to 2011-Continuously?
V49	Q5_1a2	Q5.1a if yes did your firm perform r&d during 2008 to 2011- occasionally?	discrete	numeric	If yes, did your firm perform R&D during 2008 to 2011-Occasionally?
V50	Q5_1b	Q5.1b during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? extramural	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Extramural or outsourced R&D Same activities as above, but purchased by your enterprise and performed by other companies (including other enterprises within your group) or by public or private research organisations.

V51	Q5_1c1	Q5.1c during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisitio	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of machinery, equipment and hardware Acquisition of advanced machinery, equipment and computer hardware to produce new or significantly improved products and processes.
V52	Q5_1c2	Q5.1c during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisitio	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of software Acquisition of software to produce new or significantly improved products and processes.
V53	Q5_1d	Q5.1d during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisitio	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of other external knowledge - Purchase or licensing of patents and non-patented inventions, know-how, and other types of knowledge from other enterprises or organisations.
V54	Q5_1e	Q5.1e during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? traing	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Training Internal or external training for your personnel specifically for the development and/or introduction of new or significantly improved products and processes.
V55	Q5_1f	Q5.1f during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? market int	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Market introduction of innovations Activities for the market introduction of your new or significantly improved goods and services, including market research and launch advertising.

V56	Q5_1g	Q5.1g during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? design	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Design Activities to design, improve or change the shape or appearance of new or significantly improved goods or services
V57	Q5_1h	Q5.1h during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? other acti	discrete	numeric	During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Other activities Implementation of new or significantly improved products and process such as feasibility studies, testing, routine software development, tooling up, industrial engineering, etc.
V58	Q5_2a	Q5.2a estimated expenditure on : intramural(in-house) r&d in 2011	contin	numeric	
V59	Q5_2b	Q5.2b estimated expenditure on : acquisition of r&d	discrete	numeric	
V60	Q5_2c	Q5.2c estimated expenditure on : acquisition of machinery, equipment and software	contin	numeric	
V61	Q5_2d	Q5.2d estimated expenditure on : acquisition of other external knowledge	contin	numeric	
V62	Q5_2	Total of the three innovation expenditure categories	contin	numeric	
V63	Q5_3a	Q5.3a did enterprise receive any public financial support for innovation activities from: provincia, district or local m	discrete	numeric	
V64	Q5_3b	Q5.3b did enterprise receive any public financial support for innovation activities from: central/national government	discrete	numeric	
V65	Q5_3c	Q5.3c did enterprise receive any public financial support for innovation activities from: national funding agencies	discrete	numeric	
V66	Q5_3d	Q5.3d did enterprise receive any public financial support for innovation activities from: foreign government and/ or oth	discrete	numeric	
V67	Q6_1a1	Q6.1a internal sources (1) sources within enterprise or enterprise group	discrete	numeric	

V68	Q6_1b1	Q6.1b market sources (1) suppliers of equipment, materials, components or software	discrete	numeric
V69	Q6_1b2	Q6.1b market sources (2) clients or customers	discrete	numeric
V70	Q6_1b3	Q6.1b market sources (3) competitors or other enterprises in your sector	discrete	numeric
V71	Q6_1b4	Q6.1b market sources (4) consultants, commercial labs or private r&d institutes	discrete	numeric
V72	Q6_1c1	Q6.1c institutional sources (1) university or other higher education institutions	discrete	numeric
V73	Q6_1c2	Q6.1c institutional sources (2) government or public research institutes	discrete	numeric
V74	Q6_1d1	Q6.1d other sources (1) conferences, trade fairs, exhibitions	discrete	numeric
V75	Q6_1d2	Q6.1d other sources (2) scientific, journals and trade/technical publications	discrete	numeric
V76	Q6_1d3	Q6.1d other sources (3) professional and industry associations	discrete	numeric
V77	Q6_2	Q6.2 did the enterprise co- operate on any of your innovation activities with other enterprises or institutions	discrete	numeric
V78	Q6_3a\$1	Q6.3a other enterprises within your enterprise group	discrete	numeric
V79	Q6_3a\$2	Q6.3a other enterprises within your enterprise group	discrete	numeric
V80	Q6_3a\$3	Q6.3a other enterprises within your enterprise group	discrete	numeric
V81	Q6_3a\$4	Q6.3a other enterprises within your enterprise group	discrete	numeric
V82	Q6_3a\$5	Q6.3a other enterprises within your enterprise group	discrete	numeric
V83	Q6_3b\$1	Q6.3b suppliers of equipment, materials, components or software	discrete	numeric
V84	Q6_3b\$2	Q6.3b suppliers of equipment, materials, components or software	discrete	numeric
V85	Q6_3b\$3	Q6.3b suppliers of equipment, materials, components or software	discrete	numeric
V86	Q6_3b\$4	Q6.3b suppliers of equipment, materials, components or software	discrete	numeric

V87	Q6_3b\$5	Q6.3b suppliers of equipment, materials, components or software	discrete	numeric
V88	Q6_3c\$1	Q6.3c clients or customers	discrete	numeric
V89	Q6_3c\$2	Q6.3c clients or customers	discrete	numeric
V90	Q6_3c\$3	Q6.3c clients or customers	discrete	numeric
V91	Q6_3c\$4	Q6.3c clients or customers	discrete	numeric
V92	Q6_3c\$5	Q6.3c clients or customers	discrete	numeric
V93	Q6_3d\$1	Q6.3d competitors or other enterprises in your sector	discrete	numeric
V94	Q6_3d\$2	Q6.3d competitors or other enterprises in your sector	discrete	numeric
V95	Q6_3d\$3	Q6.3d competitors or other enterprises in your sector	discrete	numeric
V96	Q6_3d\$4	Q6.3d competitors or other enterprises in your sector	discrete	numeric
V97	Q6_3d\$5	Q6.3d competitors or other enterprises in your sector	discrete	numeric
V98	Q6_3e\$1	Q6.3e consultants, commercial labs or private r&d institutes	discrete	numeric
V99	Q6_3e\$2	Q6.3e consultants, commercial labs or private r&d institutes	discrete	numeric
V100	Q6_3e\$3	Q6.3e consultants, commercial labs or private r&d institutes	discrete	numeric
V101	Q6_3e\$4	Q6.3e consultants, commercial labs or private r&d institutes	discrete	numeric
V102	Q6_3e\$5	Q6.3e consultants, commercial labs or private r&d institutes	discrete	numeric
V103	Q6_3f\$1	Q6.3f university or other higher education institutions	discrete	numeric
V104	Q6_3f\$2	Q6.3f university or other higher education institutions	discrete	numeric
V105	Q6_3f\$3	Q6.3f university or other higher education institutions	discrete	numeric
V106	Q6_3f\$4	Q6.3f university or other higher education institutions	discrete	numeric
V107	Q6_3f\$5	Q6.3f university or other higher education institutions	discrete	numeric
V108	Q6_3g\$1	Q6.3g government or public research institutes	discrete	numeric
V109	Q6_3g\$2	Q6.3g government or public research institutes	discrete	numeric
V110	Q6_3g\$3	Q6.3g government or public research institutes	discrete	numeric
V111	Q6_3g\$4	Q6.3g government or public research institutes	discrete	numeric

V112	Q6_3g\$5	Q6.3g government or public research institutes	discrete	numeric
V113	Q6_4	Q6.4 which type of co-operation partner was the most valuable for your enterprises innovations activities	discrete	character
V114	Q71a_1	Q7.1a1 product oriented effects: increased range of goods and services	discrete	numeric
V115	Q71a_2	Q7.1a2 product oriented effects: entered new markets	discrete	numeric
V116	Q71a_3	Q7.1a3 product oriented effects: increased market share	discrete	numeric
V117	Q71a_4	Q7.1a4 product oriented effects: improved quality of goods or services	discrete	numeric
V118	Q71b_1	Q7.1b1 product oriented effects: improved flexibility of production or service provision	discrete	numeric
V119	Q71b_2	Q7.1b2 product oriented effects: increased capacity of production or service provision	discrete	numeric
V120	Q71b_3	Q7.1b3 product oriented effects: reduced production costs per unit of labour, materials, energy	discrete	numeric
V121	Q71c_1	Q7.1c1 other effects: reduced environmental impacts	discrete	numeric
V122	Q71c_2	Q7.1c2 other effects: improved working conditions on health and safety	discrete	numeric
V123	Q71c_3	Q7.1c3 other effects: met government regulatory requirements	discrete	numeric
V124	Q72_1	Q7.2 objective: 1. Increase in goods and services	discrete	numeric
V125	Q72_2	Q7.2 objective: 2. Replace outdated products or process	discrete	numeric
V126	Q72_3	Q7.2 objective: 3. Enter new markets	discrete	numeric
V127	Q72_4	Q7.2 objective: 4. Increase market share	discrete	numeric
V128	Q72_5	Q7.2 objective: 5. Improve quality of goods and service	discrete	numeric
V129	Q72_6	Q7.2 objective: 6. Improve flexibility for producing goods and services	discrete	numeric
V130	Q72_7	Q7.2 objective: 7. Increase capacity for producing goods and services	discrete	numeric

V131	Q72_8	Q7.2 objective: 8. Reduce production(labour, materials, energy) costs per unit	discrete	numeric
V132	Q72_9	Q7.2 objective: 9. Improve working conditions on health and safety	discrete	numeric
V133	Q81a	Q8.1 any of innovation activities or projects: (1). Abandoned in the concept stage	discrete	numeric
V134	Q81b	Q8.1 any of innovation activities or projects: (2). Abandoned after the activity or project was begun	discrete	numeric
V135	Q81c	Q8.1 any of innovation activities or projects: (3). Seriously delayed	discrete	numeric
V136	Q8_2a1	Q8.2a1 lack of funds within your enterprise or group	discrete	numeric
V137	Q8_2a2	Q8.2a2 lack of finance from sources outside your enterprise	discrete	numeric
V138	Q8_2a3	Q8.2a3 innovation costs too high	discrete	numeric
V139	Q8_2a4	Q8.2a4 excessive perceived economic risks	discrete	numeric
V140	Q8_2b1	Q8.2b1 lack of qualified personnel	discrete	numeric
V141	Q8_2ba	Q8.2b2 lack of information on technology	discrete	numeric
V142	Q8_2b3	Q8.2b3 lack of information on markets	discrete	numeric
V143	Q8_2b4	Q8.2b4 difficulty in finding co-operation partners for innovation	discrete	numeric
V144	Q8_2c1	Q8.2c1 market dominated by established enterprises	discrete	numeric
V145	Q8_2c2	Q8.2c2 uncertain demands for innovative goods or services	discrete	numeric
V146	Q8_2c3	Q8.2c3 innovation is easy to imitate	discrete	numeric
V147	Q8_2d1	Q8.2d1 organisational rigidities within the enterprise	discrete	numeric
V148	Q8_2d2	Q8.2d2 insufficient flexibility of regulations or standards	discrete	numeric
V149	Q8_2d3	Q8.2d3 limitations of science and technology public policies	discrete	numeric
V150	Q8_2e1	Q8.2e1 no need due to prior innovations	discrete	numeric
V151	Q8_2e2	Q8.2e2 no need because of no demand for innovations	discrete	numeric

V152	Q9_1_1	Q9.1.1 secure a patent in kenya?	discrete	numeric
V153	Q9_1_2	Q9.1.2 apply for a patent outside kenya?	discrete	numeric
V154	Q9_1_3	Q9.1.3 register an industrial design?	discrete	numeric
V155	Q9_1_4	Q9.1.4 register a trademark?	discrete	numeric
V156	Q9_1_5	Q9.1.5 claim copyright?	discrete	numeric
V157	Q9_1_6	Q9.1.6. Grant a license on any intellectual property rights resulting from innovations	discrete	numeric
V158	Q10_1a	Q10.1a business practices	discrete	numeric
V159	Q10_1b	Q10.1b work responsibilities and decision making	discrete	numeric
V160	Q10_1c	Q10.1c external relations	discrete	numeric
V161	Q10_2a	Q10.2a significant changes to the design or packaging of a good service	discrete	numeric
V162	Q10_2b	Q10.2b new or significantly changed sales or packing or distribution methods, such as internet sales, franchising, direct sales	discrete	numeric
V163	Q10_3_1	Q10.3.1 increased or maintain market share	discrete	numeric
V164	Q10_3_2	Q10.3.2 reduced time to respond to customer or supplier needs	discrete	numeric
V165	Q10_3_3	Q10.3.3 improved quality of goods or services	discrete	numeric
V166	Q10_3_4	Q10.3.4 reduced costs per unit output	discrete	numeric
V167	Q10_3_5	Q10.3.5 improved employee satisfaction and/or reduced rates of employee turnover	discrete	numeric
V168	Q11_1_1	Q11.1.1 during the the period under review (2008-2011), were any of your innovations: a first in kenya	discrete	numeric
V169	Q11_1_2	Q11.1.2 during the the period under review (2008-2011), were any of your innovations: a first in kenya	discrete	numeric
V170	Q11_1_3	Q11.1.3 during the the period under review (2008-2011), were any of your innovations: new or significant changes in your	discrete	numeric
V171	Q11_2_1	Q11.2.1	discrete	character
V172	Q11_2_2	Q11.2.2	discrete	character
V173	Q11_2_3	Q11.2.3	discrete	character

V174	Q11_2_4	Q11.2.4	discrete	character
V175	Q11_2_5	Q11.2.5	discrete	character
V176	Q11_3_1	Q11.3.1	discrete	character
V177	Q11_3_2	Q11.3.2	discrete	character
V178	Q11_3_3	Q11.3.3	discrete	character
V179	Q11_3_4	Q11.3.4	discrete	character
V180	Q11_3_5	Q11.3.5	discrete	character
V181	Respondent	Respondent	discrete	character
V182	Postion	Postion	discrete	character
V183	Telephone	Telephone	discrete	character
V184	Email	Email	discrete	character
V185	Innovated	Innovated	contin	numeric

Quest number (Quest_number)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 158
Format: numeric	Invalid: 0
Width: 3	Minimum: 1
Decimals: 0	Maximum: 168
Range: 1-168	Mean: 82
	Standard deviation: 48.9

Name (Name)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 157
Format: character	Invalid: 0
Width: 50	

Address (Address)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 154
Format: character	Invalid: 0
Width: 25	

Main activity(isic) (S_activity)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 153
Format: character	Invalid: 0
Width: 50	

Main activity (Mainactivity)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 158
Format: numeric	Invalid: 0
Width: 2	Minimum: 1
Decimals: 0	Maximum: 19
Range: 1-21	

Region (Region)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-5

Valid cases: 158
 Invalid: 0
 Minimum: 1
 Maximum: 5

Year established (Estab_year)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 4
 Decimals: 0
 Range: 1896-2011

Valid cases: 141
 Invalid: 17
 Minimum: 1896
 Maximum: 2011
 Mean: 1983.3
 Standard deviation: 23.2

Q1.1 description of main business activity (Q1_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: character
 Width: 105

Valid cases: 141

Literal question

Short description of your main economic activity:

Q1.2 is your enterprise part of a large part (Q1_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 154
 Invalid: 4

Literal question

Is your enterprise part of a larger group?
 A group

Q1.2b if yes, which country is head office (Q1_2b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: character
 Width: 27

Valid cases: 61
 Invalid: 0

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3kenya (Q1_3kenya)

File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 68
 Invalid: 90

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3nairobi (Q1_3nairobi)

File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 110
 Invalid: 48

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3central (Q1_3central)

File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 99
 Invalid: 59

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3coast (Q1_3coast)

File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 97
 Invalid: 61

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3eastern (Q1_3eastern)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 87
Invalid: 71

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3neastern (Q1_3neastern)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 79
Invalid: 79

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3nyanza (Q1_3nyanza)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 103
Invalid: 55

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3rift valley (Q1_3rift_valley)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 115
Invalid: 43

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3western (Q1_3western)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 103
Invalid: 55

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3africa (Q1_3africa)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 88
Invalid: 70

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3europe (Q1_3europe)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-2

Valid cases: 70
Invalid: 88

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3usa (Q1_3usa)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-2

Valid cases: 69
Invalid: 89

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3asia (Q1_3asia)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 69
Format: numeric	Invalid: 89
Width: 1	
Decimals: 0	
Range: 0-2	

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q1.3other countries (Q1_3other_countries)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 20
Format: numeric	Invalid: 138
Width: 1	
Decimals: 0	
Range: 1-2	

Literal question

In which geographic markets did your enterprise sell goods or services during the period under review (2008 to 2011)?

Q14 2008what was enterprise's total number of employees in 2008 (Q1_4_2008)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 139
Format: numeric	Invalid: 19
Width: 4	Minimum: 0
Decimals: 0	Maximum: 5600
Range: 0-5600	Mean: 481.9
	Standard deviation: 1041.2

Literal question

What was your enterprise's total number of employees in 2008 and 2011?
Annual average number of employees, both full-time and part-time. If not available, give the number of employees at the end of each year.

Q14 2011what was enterprise's total number of employees in 2011 (Q1_4_2011)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 151
Format: numeric	Invalid: 7
Width: 4	Minimum: 1
Decimals: 0	Maximum: 6243
Range: 1-6243	Mean: 508.1
	Standard deviation: 1103.1

Literal question

What was your enterprise's total number of employees in 2008 and 2011?
Annual average number of employees, both full-time and part-time. If not available, give the number of employees at the end of each year.

Q1.4.1 number of employees with degree or diploma qualification (Q1_4_1pc)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 119
Format: numeric	Invalid: 39
Width: 4	Minimum: 0
Decimals: 0	Maximum: 4370
Range: 0-4370	Mean: 110.4
	Standard deviation: 464.7

Literal question

What was the number of employees in 2011 with a university degree?

Q1.5 what was your enterpris's approximate turnover for 2008 (Q1_5_2008)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 113
Format: numeric	Invalid: 45
Width: 11	Minimum: 300000
Decimals: 0	Maximum: 61000370000
Range: 300000-61000370000	Mean: 2568574808.9
	Standard deviation: 8588954894

Literal question

What was your enterprise's approximate total turnover for 2008 and 2011?

Q1.5 what was your enterpris's approximate turnover for 2009 (Q1_5_2011)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 122
Format: numeric	Invalid: 36
Width: 11	Minimum: 800000
Decimals: 0	Maximum: 94000380000
Range: 800000-94000380000	Mean: 3735856581.4
	Standard deviation: 12520739546.1

Literal question

What was your enterprise's approximate total turnover for 2008 and 2011?

Q2.1a new or significantly improved goods (Q2_1a)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 137
 Invalid: 21

Literal question

New or significantly improved goods.
 Exclude the simple resale of new goods purchased from other enterprises and minor changes that only alter the appearance of the product.

Q2.1b new or significantly improved services (Q2_1b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 132
 Invalid: 26

Literal question

New or significantly improved services.

Q2.2 by whom were these product innovations developed (Q2_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 110
 Invalid: 48

Literal question

By whom were these product (goods and services) innovations developed?

Q2.2.1did theses innovations originate mainly in kenya or a broad? (Q2_2_1kenya)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-7

Valid cases: 112
 Invalid: 46

Literal question

Did these innovations originate mainly in Kenya or abroad?

Q2.3a were any of your goods and service innovations during the three years 2008-2011: new to your market? (Q2_3a)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 100
 Invalid: 58

Literal question

Were any of your goods and service innovations during the period under review (2008 to 2011) new to your market or new to your firm?

Q2.3b were any of your goods and service innovations during the three years 2008-2011: only new to your firm? (Q2_3b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 92
 Invalid: 66

Literal question

Were any of your goods and service innovations during the period under review (2008 to 2011) new to your market or new to your firm?

Q2.4a estimated total turnover in 2011: goods and service innovations introduced during 2008 to 2011 that were new to you (Q2_4a)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 11
 Decimals: 0
 Range: 134707-16000900000

Valid cases: 35
 Invalid: 123
 Minimum: 134707
 Maximum: 16000900000
 Mean: 592696203.9
 Standard deviation: 2695627601.5

Literal question

Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:

Q2.4b estimated total turnover in 2011: goods and service innovations introduced during 2008 to 2011 that were only new to you (Q2_4b)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 11
 Decimals: 0
 Range: 109967-15000000000

Valid cases: 39
 Invalid: 119
 Minimum: 109967
 Maximum: 15000000000
 Mean: 740158153.2
 Standard deviation: 2548488320

Literal question

Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:

Q2.4c estimated total turnover in 2011: goods and services that were unchanged or marginally modified during 2008 to 20 (Q2_4c)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 15
Format: numeric	Invalid: 143
Width: 11	
Decimals: 0	
Range: 0-19075000000	

Literal question

Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:

Q2.4 total turnover in 2011 (Q2_4)

File: Kenya National Innovation Data

Overview

Type: Continuous	Valid cases: 43
Format: numeric	Invalid: 115
Width: 11	Minimum: 134707
Decimals: 0	Maximum: 86000000000
Range: 134707-86000000000	Mean: 3402963344.7
	Standard deviation: 13581015303.3

Literal question

Please estimate the total turnover in 2011 of goods and service innovations introduced during 2008 to 2011 that were:

Q3.1a during the three years 2008 to 2011, did your enterprise introduced:new or significantly improved methods of manuf (Q3_1a)

File: Kenya National Innovation Data

Overview

Type: Discrete	Valid cases: 143
Format: numeric	Invalid: 15
Width: 1	
Decimals: 0	
Range: 1-2	

Literal question

During the period under review (2008 to 2011), did your enterprise introduce any:

Q3.1b during the three years 2008 to 2011, did your enterprise introduced:new or significantly improved logistics, deliv (Q3_1b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 136
 Invalid: 22

Literal question

During the period under review (2008 to 2011), did your enterprise introduce any:

Q3.1c during the three years 2008 to 2011, did your enterprise introduced:new or significantly improved supporting activ (Q3_1c)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 135
 Invalid: 23

Literal question

During the period under review (2008 to 2011), did your enterprise introduce any:

Q3.2 by whom were these process innovations developed? (Q3_2)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 105
 Invalid: 53

Literal question

By whom were these process innovations developed?

Q3.2.1 were any of your process innovations introduced during the three years 2008 to 2011 new to your market?
 (Q3_2_1_were_any_of_your_process)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-3

Valid cases: 104
 Invalid: 54

Literal question

Were any of your process innovations introduced during the period under review (2008 to 2011) new to your market?

Q4.1a. During the three years 2008 to 2011 did your enterprise have any: abandoned during 2008 to 2011 before completion (Q4_1a)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 137
Invalid: 21

Literal question

During the period under review (2008 to 2011) did your enterprise have any innovation activities to develop product or process innovations that were

Q4.1b. During the three years 2008 to 2011 did your enterprise have any: still ongoing at the end of 2011 (Q4_1b)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 139
Invalid: 19

Literal question

During the period under review (2008 to 2011) did your enterprise have any innovation activities to develop product or process innovations that were

Q5.1a during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? intramural (Q5_1a)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 110
Invalid: 48

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Intramural or in-house Research and Experimental Development (R&D) Creative work undertaken on a systematic basis within your enterprise to increase the stock of knowledge and its use to devise new and improved products and processes (including software development in-house that meets this requirement).

Q5.1a if yes did your firm perform r&d during 2008 to 2011-continuously? (Q5_1a1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 55
 Invalid: 103

Literal question

If yes, did your firm perform R&D during 2008 to 2011-Continuously?

Q5.1a if yes did your firm perform r&d during 2008 to 2011-occasionally? (Q5_1a2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 32
 Invalid: 126

Literal question

If yes, did your firm perform R&D during 2008 to 2011-Occasionally?

Q5.1b during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? extramural (Q5_1b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 98
 Invalid: 60

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities?
 ?Extramural or outsourced R&D
 Same activities as above, but purchased by your enterprise and performed by other companies (including other enterprises within your group) or by public or private research organisations.

Q5.1c during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisition (Q5_1c1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 122
 Invalid: 36

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of machinery, equipment and hardware
 Acquisition of advanced machinery, equipment and computer hardware to produce new or significantly improved products and processes.

Q5.1c during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisition (Q5_1c2)
File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 119
Invalid: 39

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of software
Acquisition of software to produce new or significantly improved products and processes.

Q5.1d during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? acquisition (Q5_1d)
File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 113
Invalid: 45

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Acquisition of other external knowledge - Purchase or licensing of patents and non-patented inventions, know-how, and other types of knowledge from other enterprises or organisations.

Q5.1e during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? training (Q5_1e)
File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 124
Invalid: 34

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Training
Internal or external training for your personnel specifically for the development and/or introduction of new or significantly improved products and processes.

Q5.1f during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? market int (Q5_1f)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 118
Invalid: 40

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Market introduction of innovations Activities for the market introduction of your new or significantly improved goods and services, including market research and launch advertising.

Q5.1g during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? design (Q5_1g)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 121
Invalid: 37

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Design Activities to design, improve or change the shape or appearance of new or significantly improved goods or services

Q5.1h during the three years 2008 to 2011, did your enterprise engage in the following innovation activities? other acti (Q5_1h)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 114
Invalid: 44

Literal question

During the period under review (2008 to 2011), did your enterprise engage in the following innovation activities? Other activities Implementation of new or significantly improved products and process such as feasibility studies, testing, routine software development, tooling up, industrial engineering, etc.

Q5.2a estimated expenditure on : intramural(in-house) r&d in 2011 (Q5_2a)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 25000-5000000000

Valid cases: 52
 Invalid: 106
 Minimum: 25000
 Maximum: 5000000000
 Mean: 129042968
 Standard deviation: 708720912.7

Q5.2b estimated expenditure on : acquisition of r&d (Q5_2b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0-3000000000

Valid cases: 27
 Invalid: 131

Q5.2c estimated expenditure on : acquisition of machinery, equipment and software (Q5_2c)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0-6400000000

Valid cases: 66
 Invalid: 92
 Minimum: 0
 Maximum: 6400000000
 Mean: 147752623.6
 Standard deviation: 787859379

Q5.2d estimated expenditure on : acquisition of other external knowledge (Q5_2d)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 10
 Decimals: 0
 Range: 0-5000000000

Valid cases: 31
 Invalid: 127
 Minimum: 0
 Maximum: 5000000000
 Mean: 164551988.1
 Standard deviation: 897442234.9

Total of the three innovation expenditure categories (Q5_2)

File: Kenya National Innovation Data

Overview

Type: Continuous
 Format: numeric
 Width: 12
 Decimals: 0
 Range: 50000-65760000000

Valid cases: 65
 Invalid: 93
 Minimum: 50000
 Maximum: 65760000000
 Mean: 10989311202.1
 Standard deviation: 81691351974.8

Q5.3a did enterprise receive any public financial support for innovation activities from: provincia, district or local m (Q5_3a)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 116
Invalid: 42

Q5.3b did enterprise receive any public financial support for innovation activities from: central/national government (Q5_3b)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 111
Invalid: 47

Q5.3c did enterprise receive any public financial support for innovation activities from: national funding agencies (Q5_3c)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 110
Invalid: 48

Q5.3d did enterprise receive any public financial support for innovation activities from: foreign government and/ or oth (Q5_3d)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 113
Invalid: 45

Q6.1a internal sources (1) sources within enterprise or enterprise group (Q6_1a1)

File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 122
 Invalid: 36

Q6.1b market sources (1) suppliers of equipment, materials, components or software (Q6_1b1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 122
 Invalid: 36

Q6.1b market sources (2) clients or customers (Q6_1b2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 124
 Invalid: 34

Q6.1b market sources (3) competitors or other enterprises in your sector (Q6_1b3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 124
 Invalid: 34

Q6.1b market sources (4) consultants, commercial labs or private r&d institutes (Q6_1b4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 119
 Invalid: 39

Q6.1c institutional sources (1) university or other higher education institutions (Q6_1c1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 122
Invalid: 36

Q6.1c institutional sources (2) government or public research institutes (Q6_1c2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 122
Invalid: 36

Q6.1d other sources (1) conferences, trade fairs, exhibitions (Q6_1d1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 123
Invalid: 35

Q6.1d other sources (2) scientific journals and trade/technical publications (Q6_1d2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 0-4

Valid cases: 122
Invalid: 36

Q6.1d other sources (3) professional and industry associations (Q6_1d3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 122
 Invalid: 36

Q6.2 did the enterprise co-operate on any of your innovationactivities with other enterprises or institutions (Q6_2)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 120
 Invalid: 38

Q6.3a other enterprises within your enterprise group (Q6_3a\$1)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 62
 Invalid: 96

Q6.3a other enterprises within your enterprise group (Q6_3a\$2)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 21
 Invalid: 137

Q6.3a other enterprises within your enterprise group (Q6_3a\$3)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 17
 Invalid: 141

Q6.3a other enterprises within your enterprise group (Q6_3a\$4)
 File: Kenya National Inovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 8
 Invalid: 150

Q6.3a other enterprises within your enterprise group (Q6_3a\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 16
 Invalid: 142

Q6.3b suppliers of equipment, materials, components or software (Q6_3b\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 64
 Invalid: 94

Q6.3b suppliers of equipment, materials, components or software (Q6_3b\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 16
 Invalid: 142

Q6.3b suppliers of equipment, materials, components or software (Q6_3b\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 30
 Invalid: 128

Q6.3b suppliers of equipment, materials, components or software (Q6_3b\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 10
Invalid: 148

Q6.3b suppliers of equipment, materials, components or software (Q6_3b\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 31
Invalid: 127

Q6.3c clients or customers (Q6_3c\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 81
Invalid: 77

Q6.3c clients or customers (Q6_3c\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 27
Invalid: 131

Q6.3c clients or customers (Q6_3c\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 17
Invalid: 141

Q6.3c clients or customers (Q6_3c\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 13
 Invalid: 145

Q6.3c clients or customers (Q6_3c\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 14
 Invalid: 144

Q6.3d competitors or other enterprises in your sector (Q6_3d\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 64
 Invalid: 94

Q6.3d competitors or other enterprises in your sector (Q6_3d\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 17
 Invalid: 141

Q6.3d competitors or other enterprises in your sector (Q6_3d\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 9
 Invalid: 149

Q6.3d competitors or other enterprises in your sector (Q6_3d\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 5
 Invalid: 153

Q6.3d competitors or other enterprises in your sector (Q6_3d\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 10
 Invalid: 148

Q6.3e consultants, commercial labs or private r&d institutes (Q6_3e\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 60
 Invalid: 98

Q6.3e consultants, commercial labs or private r&d institutes (Q6_3e\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 17
 Invalid: 141

Q6.3e consultants, commercial labs or private r&d institutes (Q6_3e\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 22
 Invalid: 136

Q6.3e consultants, commercial labs or private r&d institutes (Q6_3e\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 11
Invalid: 147

Q6.3e consultants, commercial labs or private r&d institutes (Q6_3e\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 9
Invalid: 149

Q6.3f university or other higher education institutions (Q6_3f\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 54
Invalid: 104

Q6.3f university or other higher education institutions (Q6_3f\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 14
Invalid: 144

Q6.3f university or other higher education institutions (Q6_3f\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-6

Valid cases: 10
Invalid: 148

Q6.3f university or other higher education institutions (Q6_3f\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 8
 Invalid: 150

Q6.3f university or other higher education institutions (Q6_3f\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 6
 Invalid: 152

Q6.3g government or public research institutes (Q6_3g\$1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 48
 Invalid: 110

Q6.3g government or public research institutes (Q6_3g\$2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 6
 Invalid: 152

Q6.3g government or public research institutes (Q6_3g\$3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 8
 Invalid: 150

Q6.3g government or public research institutes (Q6_3g\$4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 4
 Invalid: 154

Q6.3g government or public research institutes (Q6_3g\$5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-6

Valid cases: 3
 Invalid: 155

Q6.4 which type of co-operation partner was the most valuable for your enterprises innovations activities (Q6_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: character
 Width: 1

Valid cases: 79
 Invalid: 0

Q7.1a1 product oriented effects: increased range of goods and services (Q71a_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 119
 Invalid: 39

Q7.1a2 product oriented effects: entered new markets (Q71a_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 116
 Invalid: 42

Q7.1a3 product oriented effects: increased market share (Q71a_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 116
Invalid: 42

Q7.1a4 product oriented effects: improved quality of goods or services (Q71a_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 122
Invalid: 36

Q7.1b1 product oriented effects: improved flexibility of production or service provision (Q71b_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 115
Invalid: 43

Q7.1b2 product oriented effects: increased capacity of production or service provision (Q71b_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 120
Invalid: 38

Q7.1b3 product oriented effects: reduced production costs per unit of labour, materials, energy (Q71b_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.1c1 other effects: reduced environmental impacts (Q71c_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.1c2 other effects: improved working conditions on health and safety (Q71c_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.1c3 other effects: met government regulatory requirements (Q71c_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 121
 Invalid: 37

Q7.2 objective: 1. Increase in goods and services (Q72_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.2 objective: 2. Replace outdated products or process (Q72_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 118
 Invalid: 40

Q7.2 objective: 3. Enter new markets (Q72_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 117
 Invalid: 41

Q7.2 objective: 4. Increase market share (Q72_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.2 objective: 5. Improve quality of goods and service (Q72_5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 120
 Invalid: 38

Q7.2 objective: 6. Improve flexibility for producing goods and services (Q72_6)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 116
 Invalid: 42

Q7.2 objective: 7. Increase capacity for producing goods and services (Q72_7)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 118
Invalid: 40

Q7.2 objective: 8. Reduce production(labour, materials, energy) costs per unit (Q72_8)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 118
Invalid: 40

Q7.2 objective: 9. Improve working conditions on health and safety (Q72_9)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 119
Invalid: 39

Q8.1 any of innovation activities or projects: (1). Abandoned in the concept stage (Q81a)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 119
Invalid: 39

Q8.1 any of innovation activities or projects: (2). Abandoned after the activity or project was begun (Q81b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 120
 Invalid: 38

Q8.1 any of innovation activities or projects: (3). Seriously delayed (Q81c)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 119
 Invalid: 39

Q8.2a1 lack of funds within your enterprise or group (Q8_2a1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 147
 Invalid: 11

Q8.2a2 lack of finance from sources outside your enterprise (Q8_2a2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2a3 innovation costs too high (Q8_2a3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2a4 excessive perceived economic risks (Q8_2a4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 142
 Invalid: 16

Q8.2b1 lack of qualified personnel (Q8_2b1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 143
 Invalid: 15

Q8.2b2 lack of information on technology (Q8_2ba)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 146
 Invalid: 12

Q8.2b3 lack of information on markets (Q8_2b3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q8.2b4 difficulty in finding co-operation partners for innovation (Q8_2b4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2c1 market dominated by established enterprises (Q8_2c1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2c2 uncertain demands for innovative goods or services (Q8_2c2) File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2c3 innovation is easy to imitate (Q8_2c3) File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q8.2d1 organisational rigidities within the enterprise (Q8_2d1) File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 142
 Invalid: 16

Q8.2d2 insufficient flexibility of regulations or standards (Q8_2d2) File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 145
 Invalid: 13

Q8.2d3 limitations of science and technology public policies (Q8_2d3) File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-5

Valid cases: 144
 Invalid: 14

Q8.2e1 no need due to prior innovations (Q8_2e1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q8.2e2 no need because of no demand for innovations (Q8_2e2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-5

Valid cases: 145
 Invalid: 13

Q9.1.1 secure a patent in kenya? (Q9_1_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q9.1.2 apply for a patent outside kenya? (Q9_1_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q9.1.3 register an industrial design? (Q9_1_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 143
 Invalid: 15

Q9.1.4 register a trademark? (Q9_1_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 144
 Invalid: 14

Q9.1.5 claim copyright? (Q9_1_5)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 142
 Invalid: 16

Q9.1.6. Grant a license on any intellectual property rights resulting from innovations (Q9_1_6)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 140
 Invalid: 18

Q10.1a business practices (Q10_1a)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 148
 Invalid: 10

Q10.1b work responsibilities and decision making (Q10_1b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 148
 Invalid: 10

Q10.1c external relations (Q10_1c)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 148
 Invalid: 10

Q10.2a significant changes to the design or packaging of a good service (Q10_2a)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 149
 Invalid: 9

Q10.2b new or significantly changed sales or packing or distribution methods, such as internet sales, franchising, direct sales (Q10_2b)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-2

Valid cases: 149
 Invalid: 9

Q10.3.1 increased or maintain market share (Q10_3_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
 Format: numeric
 Width: 1
 Decimals: 0
 Range: 1-4

Valid cases: 138
 Invalid: 20

Q10.3.2 reduced time to respond to customer or supplier needs (Q10_3_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 140
Invalid: 18

Q10.3.3 improved quality of goods or services (Q10_3_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 140
Invalid: 18

Q10.3.4 reduced costs per unit output (Q10_3_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 140
Invalid: 18

Q10.3.5 improved employee satisfaction and/or reduced rates of employee turnover (Q10_3_5)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-4

Valid cases: 140
Invalid: 18

Q11.1.1 during the the period under review (2008-2011), were any of your innovations: a first inkenya (Q11_1_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 149
Invalid: 9

Q11.1.2 during the the period under review (2008-2011), were any of your innovations: a first inkenya (Q11_1_2)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 148
Invalid: 10

Q11.1.3 during the the period under review (2008-2011), were any of your innovations: new or significant changes in your (Q11_1_3)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: numeric
Width: 1
Decimals: 0
Range: 1-3

Valid cases: 145
Invalid: 13

Q11.2.1 (Q11_2_1)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 55
Invalid: 0

Q11.2.2 (Q11_2_2)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 21
Invalid: 0

Q11.2.3 (Q11_2_3)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 10
Invalid: 0

Q11.2.4 (Q11_2_4)

File: Kenya National Inovation Data

Overview

Type: Discrete
Format: character
Width: 25

Valid cases: 3
Invalid: 0

Q11.2.5 (Q11_2_5)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 18

Valid cases: 1
Invalid: 0

Q11.3.1 (Q11_3_1)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 48
Invalid: 0

Q11.3.2 (Q11_3_2)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 33
Invalid: 0

Q11.3.3 (Q11_3_3)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 15
Invalid: 0

Q11.3.4 (Q11_3_4)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 50

Valid cases: 9
Invalid: 0

Q11.3.5 (Q11_3_5)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 48

Valid cases: 4
Invalid: 0

Respondent (Respondent)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 24

Valid cases: 134
Invalid: 0

Postion (Postion)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 30

Valid cases: 135
Invalid: 0

Telephone (Telephone)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 25

Valid cases: 132
Invalid: 0

Email (Email)

File: Kenya National Innovation Data

Overview

Type: Discrete
Format: character
Width: 30

Valid cases: 129
Invalid: 0

Innovated (Innovated)

File: Kenya National Innovation Data

Overview

Type: Continuous
Format: numeric
Width: 1
Decimals: 0
Range: 1-2

Valid cases: 142
Invalid: 16
Minimum: 1
Maximum: 1

Documentation

Questionnaires

KENYA INNOVATION SURVEY REPORT 2012

Title KENYA INNOVATION SURVEY REPORT 2012
Filename KENYA INNOVATION SURVEY REPORT 2012.pdf

Questionnaire on Kenya Innovation Survey 2012

Title Questionnaire on Kenya Innovation Survey 2012
Filename Questionnaire on Kenya Innovation Survey 2012.pdf
