# **SOUTH AFRICAN BUSINESS INNOVATION SURVEY 2019 - 2021**



This survey collects information on your enterprise's innovations and innovation activities between 2019 and 2021 inclusive.

### DETAILS OF PERSON COMPLETING THE QUESTIONNAIRE

Title:	Email:
Name:	Address 1:
Surname	Address 2:
Job Title:	Address 3:
Telephone:	Postal code:









### PLEASE NOTE:

#### **About this survey**

This survey collects information about innovations and innovation activities in the business sector during the three-year period 2019 to 2021 inclusive. The survey is meant to produce statistical information for understanding the business sector innovation performance, its determinants and impacts. Among other uses, the statistics will inform the government in developing policies to stimulate innovation, productivity and competitiveness.

An **innovation** is a new or improved product [good/service] or process (or combination thereof) that differs significantly from the unit's previous products or processes and that has been made available to potential users (product) or brought into use by the unit (process).

#### Scope

The statistical unit for the survey is the **enterprise** as defined by Statistics South Africa. An enterprise is "a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities". It refers to a business, company or firm that is capable in its own right to own assets, incur liabilities and conduct economic activities, and can range from a very small concern with only one or two employees to a much larger and more formal business or firm.

#### **Authority**

The Department of Science and Innovation (DSI), as a partner within the National Statistics System, mandated the Centre for Science, Technology and Innovation Indicators of the Human Sciences Research Council (HSRC) to perform this survey.

#### **Confidentiality**

All information gathered by this survey will be held in strictest confidence. The data may be used for statistical purposes to complement research and analysis of innovation indicators. Under no circumstances will the HSRC, DSI or Statistics South Africa publish, release or disclose any information on or identifiable with, individual firms or business units.

### Who should complete this questionnaire?

This questionnaire should be completed by the CEO, Managing Director, or a senior manager who has adequate knowledge of the strategy and innovation matters of the enterprise.



Intellectual property rights:

In this section you are asked whether your enterprise employed any form of protection methods for its intellectual property

During the three years 2019 to 2021, did your enterprise use any of the following methods to protect its intellectual property:

	Formal methods of protection	Yes	No
4	Secure a patent in South Africa?		
3	Apply for a patent outside of South Africa?		
2	Register an industrial design?		
)	Register a trademark?		
=	Claim copyright?		
=	Use trade secrets or confidentiality agreements		
	IP transactions		
3	Grant a licence on any intellectual property rights resulting from innovation?		

Business capabilities:

In this section you are asked to provide information regarding your enterprise's business capabilities for innovation

2.1	During the three years 2019 to 2021, did your enterprise develop or use any of the following advanced or emerging technologies?	Developed	Used	Did not use or develop
Α	Material handling, supply chain and logistics technologies			
В	Computerised design and engineering			
С	Business intelligence technologies e.g., cloud-based computing systems and big data analytic tools			
D	Green technologies			
Е	Advanced manufacturing, including additive manufacturing (3D printing)			
F	Geomatics or geospatial technologies			
G	Nanotechnology			
Н	Biotechnologies/bioproducts			
I	Internet of things Include systems where devices and objects have the networking capability that allow for information to be sent and received using the Internet e.g., fixtures and kitchen appliances			
J	Artificial intelligence (AI)			
K	Robotics			
L	Blockchain technologies e.g., crypto-currency, distributed ledgers, secure value exchange protocols, smart contracts			
М	Virtual, mixed or augmented reality			
Ν	Other types of advanced or emerging technologies, please specify			

3.1	How many competitors do you have in your main markets	Cannot provide an estimate = -99
1	If none, put 0 and go to 4.1.	
3.2	Is your main competitor:	Yes No Don't know
$\rightarrow$	A South African multinational enterprise (MNE)?	
$\rightarrow$	A digital firm?	
		Larger Smaller About the same size Don't know
$\rightarrow$	Larger, smaller or about the same size as your firm (in terms of number of employees)?	
		Yes No Don't know
$\rightarrow$	A foreign firm?	



# Product (goods or services) innovation

In this section you are asked questions about your enterprise's product innovations



A product innovation is a new or improved good or service that differs significantly from the firm's previous goods or services and that has been introduced on the market. Product innovations must provide significant improvements to one or more characteristics or performance specifications. This includes the addition of new functions, or improvements to existing functions or user utility. Relevant functional characteristics include quality, technical specifications, reliability, durability, economic efficiency during use, affordability, convenience, usability, and user friendliness.

The innovation must be new to your enterprise, but it does not need to be new to your industry sector or market. It does not matter if the innovation was originally developed by your enterprise or by other enterprises.

Product innovations do not include the simple resale of new goods purchased from other enterprises, minor aesthetic changes, routine changes or updates, or customisation for a single client that doesn't include significantly different attributes compared to products made for other clients.

4.1	During the three years 2019 to 2021, did your enterprise introduce:	Yes	No
$\rightarrow$	Entirely new goods  Exclude the simple resale of new goods purchased from other enterprises and minor changes that only alter the appearance of the product		
$\rightarrow$	Significantly improved goods  An existing product whose performance has been significantly enhanced or upgraded		
$\rightarrow$	Entirely new services		
$\rightarrow$	Significantly improved services		
C			
	If no to all, please go to section 5.		

4.2	By whom were these <b>product (goods and services)</b> innovations developed?	Tick all that apply.
Α	Mainly your enterprise	
В	Other enterprises in your enterprise group	
С	Your enterprise together with other enterprises or institutions	
D	Your enterprise by replicating products already available from other firms or organisations	
E	Your enterprise by modifying products available from other firms or organisations, including reverse engineering	
F	Your enterprise by drawing substantially on ideas and knowledge sourced from other firms or organisations	
G	Mainly other enterprises or institutions	
4.3	Did these innovations originate <b>mainly</b> in South Africa or abroad?	South Africa Abroad
4.4	Were any of your product innovations (goods and services) during the three years 2019 to 2021 new to your market or new to your firm?	Yes No
$\rightarrow$	New to your market? Your enterprise introduced a new or significantly improved good or service onto your market before your competitors (it may have already been available in other markets).	
$\rightarrow$	Only new to your firm? Your enterprise introduced a new or significantly improved good or service that was already available from your competitors in your market.	

4.5	To the best of your knowledge, were any of your product innovations during the three years 2019 to 2021:	Yes No Don't know
$\rightarrow$	New to the world? Your enterprise introduced a good or service that is entirely new to the world	
$\rightarrow$	A first in South Africa but not the world	
$\rightarrow$	A first in your industry within South Africa but not new to South Africa or to the world	
4.6	Using the definitions above, please estimate the <b>percentage</b> of your <b>total turnover</b> in 2021 from:	2021 % turnover distribution
$\rightarrow$	Goods and service innovations introduced during 2019 to 2021 that were <b>new to the world</b>	%
$\rightarrow$	Goods and service innovations introduced during 2019 to 2021 that were <b>new to your market</b>	%
$\rightarrow$	Goods and service innovations introduced during 2019 to 2021 that were only <b>new to your firm</b>	%
$\rightarrow$	Goods and services that were <b>unchanged or only marginally modified</b> during 2019 to 2021 <i>Include the resale of new goods or services purchased from other enterprises</i>	%
	Total turnover in 2021 = 100%	1 0 0 %
4.7	Briefly describe your most <b>important product innovation</b> during the three years 2019 to 2021:  This could be the product innovation that was most profitable, or most significant in terms of improvement or novelty.	



# **Process innovation**

In this section you are asked questions about your enterprise's process innovations



A business process innovation is a new or improved business process for one or more business functions that differs significantly from the firm's previous business processes and that has been brought into use in the firm. The term business process includes the core business function of producing goods and services and supporting functions such as distribution and logistics, marketing, sales and after-sales services; information and communication technology (ICT) services to the firm, administrative and management functions, engineering and related technical services to the firm, and product and business process development.

The innovation (new or improved) must be new to your enterprise, but it does not need to be new to your industry sector or market. It does not matter if the innovation was originally developed by your enterprise or by other enterprises.

5.1	During the three years 2019 to 2021, did your enterprise introduce any:	Yes	No
$\rightarrow$	Entirely new or improved production of goods or services		
$\rightarrow$	Entirely new or improved distribution and logistics		
$\rightarrow$	Entirely new or improved marketing and sales		
$\rightarrow$	Entirely new or improved information and communication systems		
$\rightarrow$	Entirely new or improved administration and management		
$\rightarrow$	Entirely new or improved product and business process development		
	If no to all questions, please go to section 6.		

5.2	By whom were these process innovations developed?	Tick all that apply.
Α	Mainly your enterprise	
В	Other enterprises in your enterprise group	
С	Your enterprise together with other enterprises or institutions	
D	Your enterprise by <b>replicating</b> processes already in use by other firms or organisations	
Е	Your enterprise by <b>modifying</b> processes in use by firms or organisations, including reverse engineering	
F	Your enterprise by <b>drawing substantially on ideas</b> and knowledge sourced from other firms or organisations	
G	Mainly other enterprises or institutions	
5.3	Did these innovations originate <b>mainly</b> in South Africa or abroad?	South Africa Abroad
5.4	Were any of your process innovations during the three years 2019 to 2021 new to your market or new to your firm?	Yes No Don't know
$\rightarrow$	New to your market? Your enterprise introduced a new or improved process onto your market before your competitors (it may have already been in use in firms in other markets).	
$\rightarrow$	Only new to your firm? Your enterprise introduced a new or improved process that was already in use by your competitors in your market.	

5.5	To the best of your knowledge, were any of your process innovations during the three years 2019 to 2021:	Yes	No	Don't know
$\rightarrow$	New to the world? Your enterprise introduced a process that is entirely new to the world			
$\rightarrow$	A first in South Africa but not the world			
<i>→</i>	A first in your industry within South Africa but not new to South Africa or to the world			
5.6	Briefly describe your <b>most important process innovation</b> during the three years 201. This could be the process innovation that had the greatest cost savings, or was most significant of improvement or novelty.			



# Ongoing or abandoned innovation activities

In this section you are asked questions about any of your enterprise's innovation activities that were abandoned or sill ongoing at the end of 2021



Innovation activities include the acquisition of machinery, equipment, software, licenses, engineering and development work, training, marketing and research and experimental development (R&D) when they are specifically undertaken to develop and/or implement a product or process innovation.

- 6.1 During the three years 2019 to 2021:
- Did your enterprise have any innovation activities that did not result in a product or process innovation because the activities were:

Pro	oduct Innovation	Yes	No
$\rightarrow$	Abandoned		
$\rightarrow$	Still ongoing at the end of 2021		
Pro	ocess Innovation	Yes	No
Pro →	Abandoned	Yes	No

Innovation-relevant activities and expenditures

This section asks for information about your enterprise's expenditure on innovation-related activities, regardless of whether it was intended for innovation

<i>7</i> .1	During the three years 2019 to 2021, did your enterprise engage in the following innovation-related activities?	Yes	No
A	<b>Systematic</b> , intramural (in-house) Research and Experimental Development (R&D) Creative work undertaken on a <b>systematic basis</b> within your enterprise to increase the stock of knowledge and its use to devise new and improved products and processes (including software development).		
В	R&D contracted out to others (including enterprises in own enterprise group)		
	Other innovation-related activities:		
С	Engineering, design, and other creative work activities		
D	Marketing and brand equity activities		
Е	IP-related activities		
F	Employee training activities		
G	Software development and database activities		
Н	Activities related to the acquisition or lease of tangible assets		
1	Innovation management activities		

7.2	Did your enterprise pertorm <u>in-house</u> R&D during 20	019 to 2021 continuously or occasionally?	Continuously	Occasionally	
7.3	Please estimate the total amount of expenditure in 2021 only for the activities listed below. Include personnel and related costs. Please provide exact expenditure e.g. Five hundred thousand Rand should be entered as 500 000. Please put zero (0) if your enterprise had no expenditure in 2021.  Cannot provide an estimate = -99; Refused = -98	STRICTLY CONFIDENTIAL Please report for 2021 only		<u>.</u>	
A	Systematic, intramural (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).	R ,			
В	R&D contracted out to others (including enterprises in own enterprise group)	R ,			
C-H	All other innovation-related activities mentioned above (excluding innovation management activities)	R ,			



If your enterprise engaged in in-house R&D (A) or out-sourced R&D (B), and it was intended for innovation, then answer 7.5. Otherwise, skip to 7.6.

7.5 How important were your R&D-led innovation activities to your firm's business strategy?

Level of importance: High Medium Low

7.6 Please provide the approximate number of employees that were involved in the activities that were intended for innovation, accounted for in 7.3 above, according to the following categories:

Ensure that the totals are the same for each of the three demographic categories.

7.6.1 Male Female Total South African 7.6.2 African Coloured Indian/Asian White Non-SA Total 7.6.3 18-25 years 26-35 years 35-60 years >60 years Total

# Funding for Innovation

In this section you are asked to provide information about your enterprise's funding sources for its innovation activities



If you answered 'No' to all options in 4.1, 5.1 and 6.1 (i.e. your enterprise did not have any product or process innovations, and no on-going or abandoned innovation activities, during the three years 2019-2021) AND you did NOT engage in any activities intended for innovation (7.4), then skip 8.1 and proceed to 8.2.

8.2	Are you aware that government offers financial or non-financial support for innovation?			
		Yes	No	
<i>→</i>	Other sources (e.g. crowdfunding) not including public funding			
$\rightarrow$	Equity finance			
$\rightarrow$	Debt funding			
$\rightarrow$	Own Funds (retained profits or income from asset disposal)			
8.1	During the three years 2019 to 2021, were your innovation activities funded through any of the following sources?	Yes	No	

During the three years 2019 to 2021, did your enterprise apply for and/or receive any form of government financial or non-financial support for innovation activities? (The support can be from the Department of Science and Innovation, Department of Trade and Industry or any national or provincial government department or their agencies such as the Technology Innovation Agency, National Research Foundation, Industrial Development Corporation, Medical Research Council, etc.)

	Type of support		ied for/ ested support	Accessed/Obtained the support	
	Financial support	Yes	No	Yes	No
$\rightarrow$	Covid-19 grants/support packages				
$\rightarrow$	Tax incentive for R&D				
$\rightarrow$	Other financial support				
	Non-financial support				
$\rightarrow$	Training or mentoring (including incubation)				
$\rightarrow$	Access to ICT infrastructure, research equipment or laboratory facilities				
$\rightarrow$	Export support				
$\rightarrow$	Other, please specify				



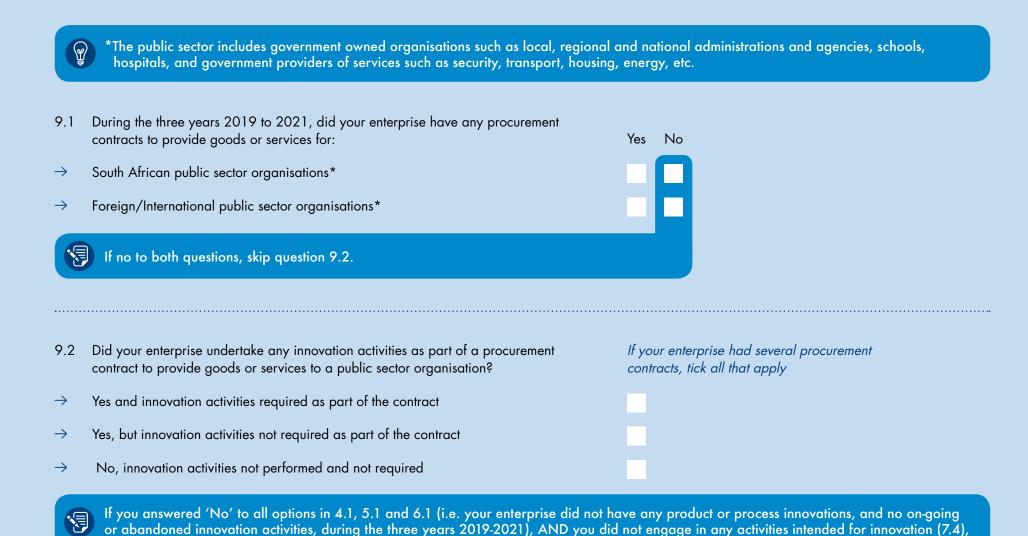
If you did not apply for/ request any type of government support, proceed to 8.4. Otherwise, skip to Section 9.

8.4	If you have not applied for government support for innovation activities please indicate the reasons for not doing so:	Tick all that apply.
$\rightarrow$	Process too complicated	
$\rightarrow$	Risk of exposure of confidential information	
$\rightarrow$	Time Constraints	
$\rightarrow$	Lack of knowledge about support options or processes of applying	
$\rightarrow$	Other: Please specify	



# Public sector procurement and innovation

please go to question 12.1 Otherwise continue to section 10.



# Collaboration and sources of information

In this section you are asked about your enterprise's collaboration and sources of information for its product and process innovation activities

10.1 During the three years 2019 to 2021, did your enterprise collaborate on any of your innovation activities with other enterprises or institutions? **Collaboration** requires co-ordinated activity across different parties to address a jointly defined problem, with all partners contributing. Collaboration requires the explicit definition of common objectives and it may include agreement over the distribution of inputs, risks and potential benefits. Collaboration can create new knowledge, but it does not need to result in an innovation. Each partner in a collaboration agreement can use the resulting knowledge for different purposes.

162	140



If no, please go to 10.4.

10.2 Please indicate the type of collaboration partner and their location.

Tick all that apply.

	Type of collaboration partner	South Africa	Rest of Africa	Europe	USA	Asia	Other countries
Α	Other enterprises within your enterprise group						
В	Suppliers of equipment, materials, components or software						
С	Clients or customers						
D	Competitors or other enterprises in your sector						
Е	Consultants and commercial labs						
F	Universities / higher education institutions						
G	Government or public research institutes (e.g. CSIR)						
Н	Private research institutions						
1	Other (please specify)						

10.3 Which type of collaboration partner was the most valuable for your enterprise's innovation activities?		
Give corresponding letter from 10.2. For example, if you selected Clients or customers, write 'C'.		

10.4 During the three years 2019 to 2021, how important to your enterprise's innovation activities were each of the following information sources? Include information sources that provided information for new innovation projects or contributed to the completion of existing projects.

Information source			Degree of importance		
mormanon source		High	Medium	Low	Not used
Internal sources	Sources within your enterprise or enterprise group				
Market resources	Suppliers of equipment, materials, components or software				
	Clients or customers (businesses)				
	Individuals/users				
	Competitors or other enterprises in your sector				
	Consultants, commercial laboratories				
Education & research	Universities / higher education institutions				
	Government or public research institutes				
	Private research institutes				
Other sources	Conferences, trade fairs, exhibitions				
	Scientific journals and trade/technical publications				
	Professional and industry associations				
	Other searchable repositories/databases (e.g., Innovation Bridge) (please specify)				

# Outcomes and objectives



If you answered 'No' to all options in 4.1 and 5.1 (i.e. your enterprise did not have any product or process innovations during the three years 2019-2021), please go to question 11.2. Otherwise continue to question 11.1.

11.1 How successful were each of the following types of outcomes for your product (goods or services) and process innovations introduced during the three years 2019-2021?

Tick "Not relevant" if there were no innovation outcomes.

Innovation outcomes		L High	evel of succe Medium	 utcomes Not relevant
Product outcomes	Increased range of goods or services			
	Improved quality of goods or services			
	Create new markets			
Strategic/marketing outcomes	Entered new local markets or increased local market share			
	Entered new export markets or increased export market share			
	Increased the Intellectual Property portfolio			
Process outcomes	Improved flexibility of production or service provision			
	Increased capacity of production or service provision			
	Reduced labour costs per unit output			
	Reduced materials and energy per unit output			
	Reduced lead times			

Contiues overleaf...

Innovation outcomes		L High	evel of succe Medium	 utcomes Not relevant
Business organisation	Improved absorption and transfer of knowledge			
	Improve or develop new relationships with external entities (other firms, universities, etc.)			
	Increase business resilience and adaptability to change			
	Improve working conditions, health or safety of the firm's personnel			
	Implement a new business model			
Economy, society and environment	Reduced environmental impacts			
	Improved public health and safety			
	Met governmental regulatory requirements			
	Improve social inclusion			
	Improve gender equality			
	Improve quality of life or well-being			

11.2 How important were the following innovation objectives in relation to your business strategy?

Innovation objectives		Level of importance of objectives High Medium Low Not relevan				
		Medium	Low	Not relevant		
Upgrade employee skills						
Organisation of innovation activities						
Managing risks that can impede innovation (security and cyber risks, etc.)						

Factors hampering innovation
In this section you are asked about barriers that your enterprise encountered during its innovation processes, and barriers to knowledge interactions

12.1 During the three years, 2019 to 2021, how important were the following factors in hampering your innovation activities or projects or influencing a decision not to innovate?

Factor hampering innov	Factor hampering innovation			nportance Low Not experienced
Cost factors	Lack of funds within your enterprise or group			
	Innovation costs too high			
	Lack of private external finance, credit or private equity			
	Difficulty in obtaining government grants or subsidies for innovation			
Knowledge factors	Lack of managerial skills			
	Lack of engineering skills			
	Lack of technicians			
	Lack of information on technology			
	Lack of information on markets			
	Difficulty in finding co-operation partners for innovation			
Market factors	Market dominated by established enterprises			
	Uncertain demand from domestic customers			
	Limited access to international markets			
	Too much competition in your market			
	Lack of digital platforms (ecommerce)			

Contiues overleaf...

Factor hampering innovation			Degree of importance High Medium Low N			
Institutional factors	Lack of Infrastructure					
	Weakness of Intellectual Property (IP) rights					
	Legislation, regulations, standards, taxation					
Reasons not to innovate	No need due to prior innovations					
	No need because of no demand for innovations					
Other (specify)						
	2019 to 2021, did you experience any of the following barriers or ag with other parties in the production or exchange of knowledge?	Yes No				
→ Loss of control over va	luable knowledge					
→ High co-ordination costs						
ightarrow Loss of control over str	> Loss of control over strategy					
→ Difficulty finding the rig	ght partner					

	Completely	Partially	Not affected at all	Not relevant
13.1 Did the Covid-19 pandemic influence your decision not to engage in innovation activities	ŝ			
13.2 Were your innovation activities or projects put on hold, delayed or abandoned as a resul of Covid-19?	lt			
13.3 Did you engage in any new innovation activities as a result of Covid-19?				
13.4 Did the Covid-19 pandemic lead to a reprioritisation of existing innovation activities?				
13.5 Were existing, innovation-related funding sources compromised/affected by Covid-19 (local and international sources)?				
13.6 Has your expenditure on innovation activities been reduced due to the reprioritisation of funds as a result of Covid-19?				
13.7 Has Covid-19 resulted in more innovation activities being outsourced/contracted out by your enterprise?				



# General information about the enterprise, business, company or firm

14.1 Please provide a short description of your main business activity		
14.2	Yes	No
14.2 Is your enterprise part of an enterprise group?  A group consists of two or more legally defined enterprises under common ownership.  Each enterprise in the group may serve different markets, as with national or regional subsidiaries, or serve different product markets. The head office is also part of an enterprise group.		
If no, skip to 14.5.		
14.3 In which country is the head office of your group located?		
	Yes	No
14.4 Does your enterprise have a subsidiary(ies) outside South Africa?		

N

If your enterprise is part of an enterprise group, please answer all further questions only for your enterprise in South Africa. Do not include results for subsidiaries or parent enterprises.

14.5	Please provide the year in which your enterprise was establis	hed	YYY	Υ
14.6	During the three years 2019 to 2021, did your enterprise:		Yes	No
$\rightarrow$	Merge with or take over another enterprise			
$\rightarrow$	Sell, Close or outsource parts of your enterprise			
$\rightarrow$	Establish new subsidiaries in other African countries			
$\rightarrow$	Establish new subsidiaries outside Africa			
14.7	In which geographic markets did your enterprise sell goods or services during the three years 2019 to 2021?	Tick all that apply.		indicate the share of total enterprise om exports for each geographic group.
$\rightarrow$	South Africa (national)			
$\rightarrow$	South Africa (only some provinces)			
$\rightarrow$	Rest of Africa		%	
$\rightarrow$	Europe		%	
$\rightarrow$	United States		%	
$\rightarrow$	Asia		%	
$\rightarrow$	Other countries, please specify:		%	

	What was your enterprise's total number of employees in 2019 and 2021?  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.	2019		 		 
14.10	Approximately, what percentage of your total employees had a university d	egree or diploma in	2019?	 %		
14.11	Approximately, what percentage of your total employees had a university d	egree or diploma in	2021?	%		
1110	What was your enterprise's approximate total turnover for 2019 and 2021	2	2019 R			
14.12	Turnover is defined as the total amount received for goods sold and services re the financial year (including amounts received for work done, services rendere	endered for	2017 R			
	or lease payments received for land and buildings, rent, leasing and hiring recomachinery, vehicles and other equipment; but excluding value added tax (VAT) or loss on sales or revaluation of fixed assets (including profit or loss on foreign export freight charges, interest received).  Please give exact turnover e.g. One million Rand 1 000 000.  Cannot provide an estimate = -99; Refused = -98	reived for 1, net profit				
14.13	Would you say your business places more importance on the price of its products/services (cost competitiveness) or the quality features of its products/services (e.g. functionality, durability, flexibility of use, etc.)?	Select one option only				
$\rightarrow$	More on price					
$\rightarrow$	More on quality					
$\rightarrow$	About the same					

14.14	What was the total value of your physical assets in 2021?
	Cannot provide an estimate = -99; Refused = -98

2021 R

14.15	In which provi	nce(s) is your	enterprise located?	Select all that o	apply
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- $\rightarrow$ Western Cape
- Eastern Cape
- $\rightarrow$ Gauteng
- $\rightarrow$ KwaZulu-Natal
- $\rightarrow$ North West
- $\rightarrow$
- Northern Cape
- $\rightarrow$ Free State
- $\rightarrow$ Mpumalanga
- Limpopo

## Dear Respondent,

You've come to the end of the questionnaire. Thanks for taking the time to respond to our questions, and for interacting with us in the process.

We're planning to deliver the results to your business and the rest of South Africa in late 2023 or early 2024.

You can now send us your completed questionnaire. We may contact you again should we have any queries regarding any of your question responses.

Your participation matters.

The Business Innovation Survey 2019-2021 Team

#### For more information



Access previous survey reports > https://hsrc.ac.za



Contact the survey team > innovation@hsrc.ac.za



For a more innovative South Africa

