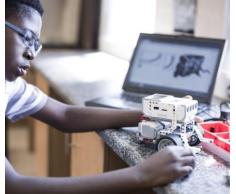


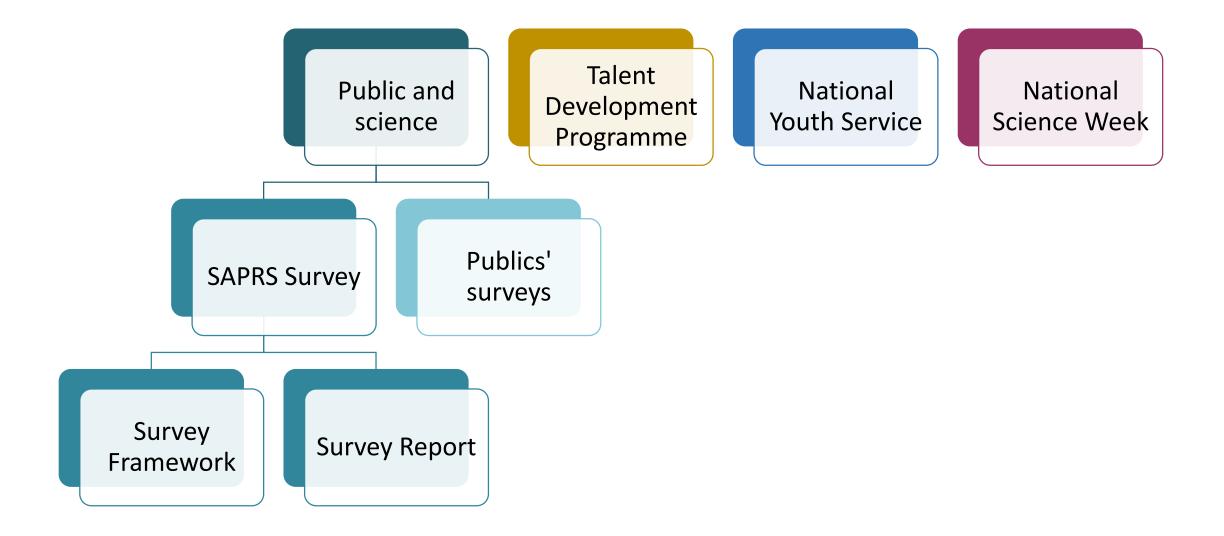
Science Engagement Workplan 2023-2024

> HSRC 30 June 2023





Science Engagement Projects





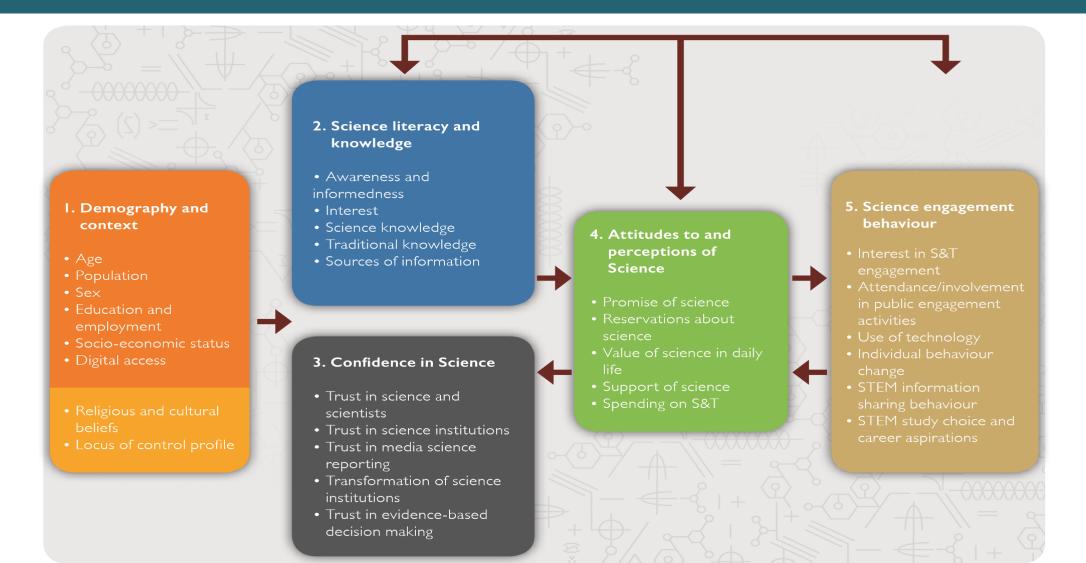
THE SOUTH AFRICAN PUBLIC RELATIONSHIP WITH

SCIENCE SURVF FRAMEWORK The South African Public Relationship with Science Survey

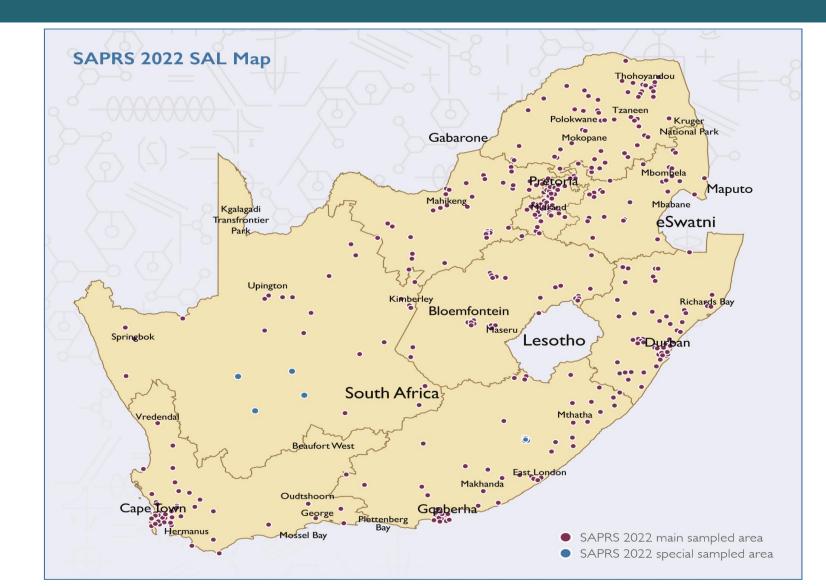
CONTENTS PAGE OF SAPRS FRAMEWORK	PROGRESS
1. Review of policy, literature and PRS studies conducted globally and in South Africa	Published Reddy, V., Parker, S. and Hannan, S. (2020). <i>Science and the Publics: Mapping Public Relationship with Science Surveys</i> . Human Sciences Research Council: Pretoria.
2. The Science Engagement Monitoring and Evaluation Impact Indicator Framework	Department of Science and Innovation (2021). Science Engagement Monitoring and Evaluation Impact Indicator Framework
3. The Instrument to Measure the SAPRS (loaded to tablets)	200 PRS items 28 sets of background and demographic variables Available in nine languages (not in isiNdebele and Siswati) Interview took around 1 hour
4. The SAPRS Sample (Fieldwork conducted from Nov 2022 to Jan 2023)	5 960 interviews in main survey (difficulties accessing middle class & gated households) 249 interviews in special supplementary SKA footprint survey 230 interviews in special supplementary Cofimvaba survey
5. Data entry, verification, cleaning and weighting done	Main survey data weighted to represent the national picture SKA and Cofimvaba weighted to the special areas
6. Data Analyses and Report Writing	In Progress – will report further

IMPACT THEMES	IMPACT MEASURES
1. Citizens' scientific literacy	 1.1. Interest in selected scientific domains 1.2. Informedness of selected scientific domains 1.3. Interest in new scientific discoveries 1.4. Recognition of different knowledge forms 1.5. Sources of scientific information
2. Citizens' knowledge of general and Specific science areas	 2.1. Awareness of South African S&T discoveries 2.2. Awareness and informedness regarding natural phenomena 2.3. Science Knowledge Index 2.4. Aspirations of youth to STEM studies and careers 2.5. Awareness and informedness about S&T
3. Citizens' confidence in science & Science institutions	 3.1. Trust in science 3.2. Trust in media's science reporting 3.3. Trust in science institutions 3.4. Perceptions of transformation at science institutions 3.5. Trust in government evidence-based decision-making approach
4. Citizens' attitudes to & perceptions Of science	 4.1. Attitudes regarding the promises of science 4.2. Attitudes regarding the reservations about science 4.3. Perceptions of the value of science to daily life 4.4. Public support of science 4.5. Attitudes to governments and business past S&T investments 4.6. Attitudes to government future S&T investments 4.7. Personal interest in S&T engagement
5. Citizens' science engagement Behaviour	 5.1. Attendance at, or involvement in, public engagement activities 5.2. Adoption of technologies in personal, work and civic spaces 5.3. Individual behaviour change 5.4. Behaviours related to STEM information sharing

SAPRS model with hypothesised relationships among impact measures



SAPRS map with centroids of 500 sampled small area layers



The South African Public Relationship with Science: Promises and Reservations Co-existing

- 1. Outlining the framework informing analysis
- 2. Methodology
- 3. Interest and perceived
- 4. knowledge of science and technology areas
- 5. Public attitudes to science and technology
- 6. Trust in science and technology institutions
- 7. Sources of scientific information
- 8. Behaviours (impact) relating to science and technology
- 9. Segmentation analysis optimists, cynic, co-existence
- 10. Special Sample: SKA Footprint
- 11. Special Sample: Cofimvaba district

Example 1: Levels of science knowledge – answered correctly

Antibiotics kill viruses and not bacteria

The Sun travels around the earth once a year

The earth's climate has not changed over millions of years

The mother's genes determine if a baby is a boy or a girl

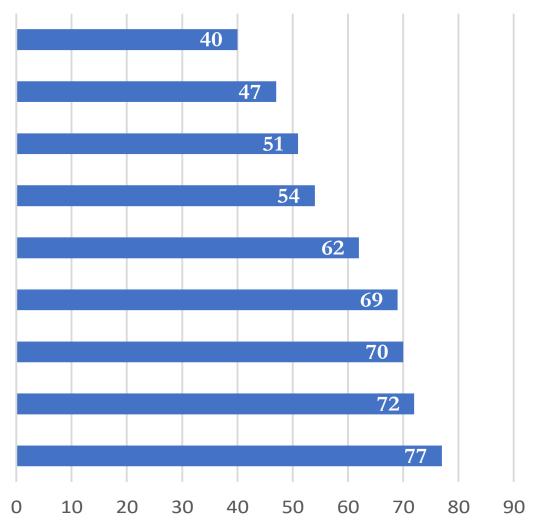
The continents which we live on have been moving for millions of years and will continue to move

The cutting down of trees leads to increased soil erosion

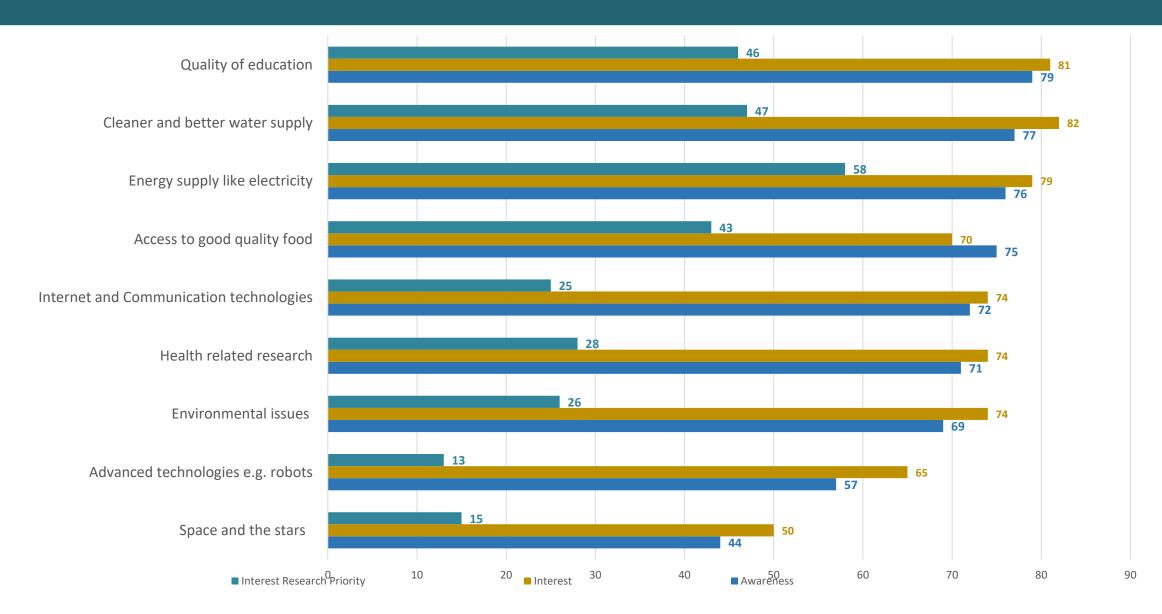
Countries in Europe have their winter season when South Africa has its summer season

The Covid 19 Vaccine reduces illness, but won't prevent you from getting the virus

The petrol price in South Africa is determined by the price of world oil



Example 2- Interest, Knowledge and Research Priorities



Plan of work for rest of the year

Project Activities	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Completion Date:
SAPRS													31-Mar-24
SAPRS Survey Framework Report													
Editing and layout of SAPRS Survey Framework Report													
Finalisation and submission of SAPRS Survey Framework Report													
SAPRS Survey Report													
Begin data analysis for SAPRS Survey													
Discussion with DSI on SAPRS report stucture Data analysis (descriptive and interential statistics, index creation, segementation													
Produce first full draft of SAPRS Survey report													
Send draft report to external reviewers													
Present draft report to small technical committee													
Revise report based on comments from technical committee and reviewers													
Editing and layout of report													
Present the final report to DSI Exec and other stakeholders													
National stakeholder conference to present the report												_	
Publics' surveys													
Develop methodology for survey of 10 Publics													
Methodology for survey of 10 Publics (Learners and educators)													
Methodology for 10 Publics (Industry, decision makers, legislators and traditional healers)													
Methodology for 10 Publics (journalists, science communicators, tourists													
Methodology for 10 Publics (Higher ED students, scientists/ researchers at university, IKS													
knowledge holders)													
Submit draft report to DSI for comment													
Revise methodology report													









Talent Development Programme 2022 Cohort

• TDP 2022 cohort report

Baseline and follow-up learner surveys

Learner focus groups

June/July holiday school observation

Tutor surveys and interviews

Coordinator surveys and interviews

TDP 2022 Post-School Cohorts

- Revision of post-school instruments

 2021 cohort: 1 year post-school in 2022
 2020 cohort: 2 years post-school in 2022
 June
- Planning for data collection of postschool cohorts

 July
- Data collection for TDP post-school cohorts
 - \circ Call centre
 - \circ September



- Studying (University/College)
- Working
- Neither studying nor working

Impact of Covid on activities

What are they doing in 2023?

TDP 2022 Post-School Cohorts

- Data analysis
- Report writing
- Finalise and submit TDP 2022 post-school cohort report

 December



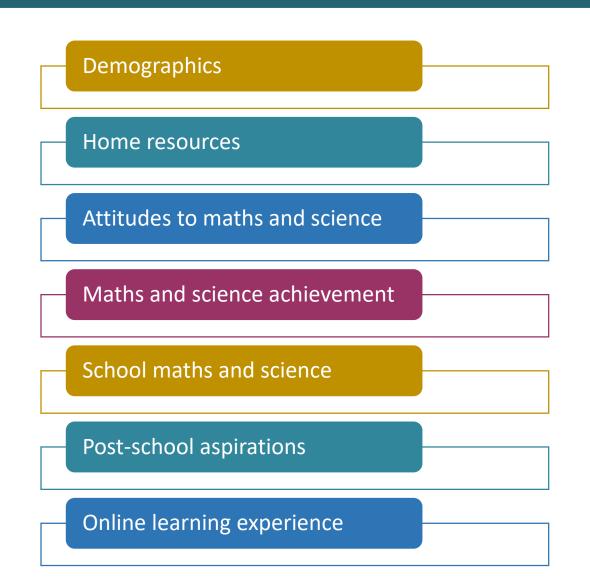
TDP 2024

 Revision of TDP baseline survey for 2024 cohort

 \circ 1 survey – all new learners

 Administration of online learner survey for 2024 cohort

 March holiday school



National Youth Service Progress

- 2022 Report has been submitted to DSI
- The interviews of the 2023 (Tracking 1 for cohort 2022, Tracking 2 for cohort 2021) were completed.
- Tracking 1 response rate = 84% (236/280)
- Tracking 2 response rate = 81 % (395/488)
- A total of 631 respondents were successfully contacted
- The data has been cleaned and is ready for analysis

NYS: To be completed by 31 March 2024

2023 technical report (data collected) will be finalised and submitted to DSI

- 1st interview cohort 2022
- 2nd interview cohort 2021

2024 data collection

- 1st interview cohort 2023
- 2nd interview cohort 2022

How to integrate with SEIMS?











- NSW 2022 report writing Finalised in May 2023
- Editing and layout

 External editing (10 July)
 Design and layout of the report (31 July)

NSW 2023

- 3
- Revision of NSW data collection instruments
 - \circ Grantholder Survey
 - Reflections on NSW 2023
 - \odot Webinar Observation Schedule
 - HSRC and SAASTA observers
 - \circ Presenter Evaluation Survey
 - Webinars
 - \odot Webinar Participant Evaluation Survey
 - Reflections on the webinars
 - \circ Observation Schedule
 - Site and school visits

NSW 2023

Data collection

Grantholder proposals and reports
Online surveys
NSW site and school visits (9 provinces
Webinar observation

- Inform grantholders of visits
- Send webinar participant evaluation survey to all presenters

 Share during sessions

NSW 2023

- Data analysis

 Quantitative
 Qualitative
- Report writing
- Finalise and submit NSW 2023 report
 - March 2024

Thank you