

Contextualising Responsible Research and Innovation















Lessons from participation in the EU Horizon 2020 project



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Contextualising RRI in a South African research institute







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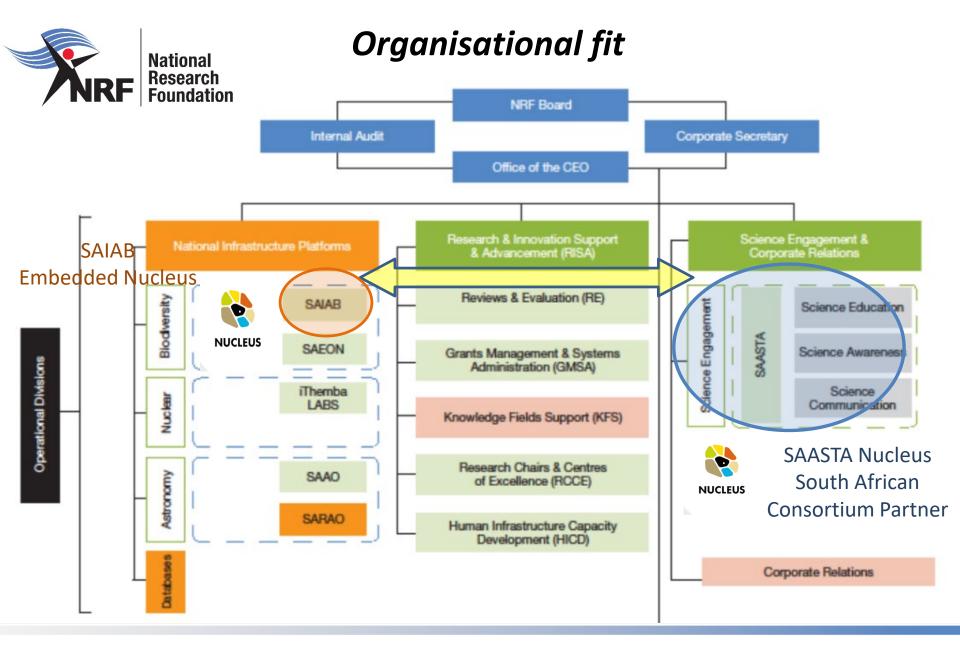
About NUCLEUS

Project fit – Embedded Nucleus Conceptual Framework Road Map

Working SMART

Action Framework

• **Shared learning** The DNA of RRI #Living RRI







SAIAB's research focus – LIFE in Water



SAIAB is a research institute of the National **Research Foundation**

> Vision – **Aquatic** Research that works for Society

Mission – To improve the quality of life of all South Africans through advancing scientific research, technology and innovation in aquatic biodiversity

Responsible Research & Innovation





Projects & publications















Supervision & students







Laboratories & collections

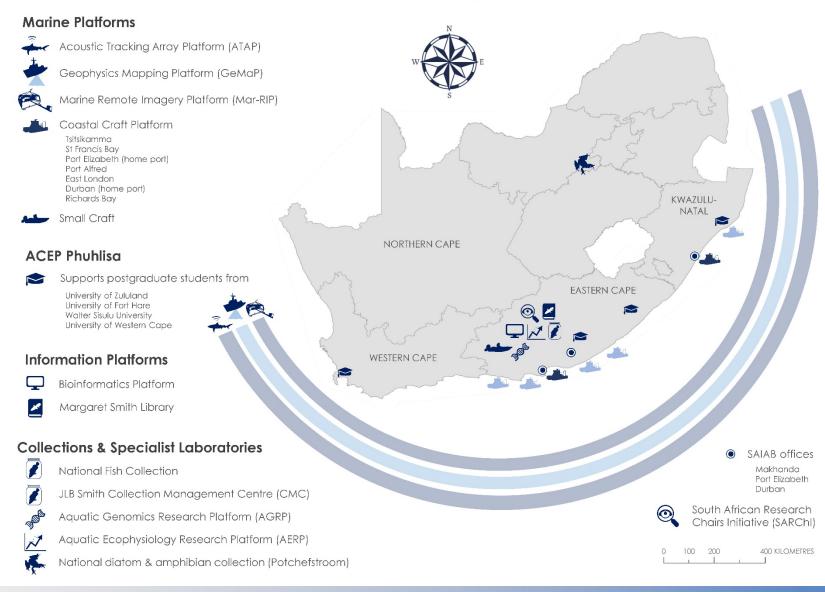








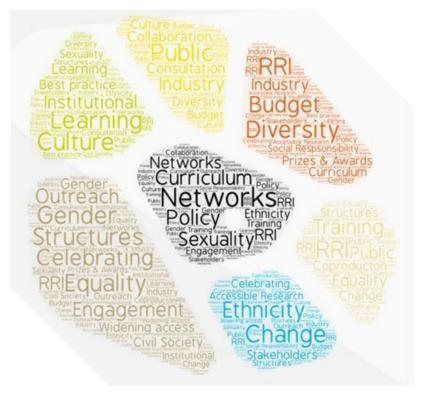
South African Institute for Aquatic Biodiversity Research Platforms







NUCLEUS 2016-2019





The NUCLEUS project received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 664932.

New

Understanding of

Communication,

Learning and

Engagement in

Universities and

Scientific Institutions



- Four-year EU-funded Horizon 2020 project
- Focus: how RRI can be implemented by the 'nucleus' of a university or research institute through governance that directs the policy and culture of the organisation
 - SAIAB was one of 10 international test sites referred to as 'Embedded Nuclei' selected to work towards understanding and unravelling the 'DNA' of RRI.







Conceptual Framework

Cell 1 Universities and Research Institutions

NUCLEUS

Cell 6

Economy

Civil Society

NUCLEUS

Metaphorical association of the 'nucleus' and its 'cells'

Accessible visual metaphor

10 Embedded nuclei 24 Consortium Partners

To Mobile nuclei

http://www.nucleus-project.eu/



Cell 3

Public Policy

Cell 4

Media

Cells are stronger and more productive if they work with other cells

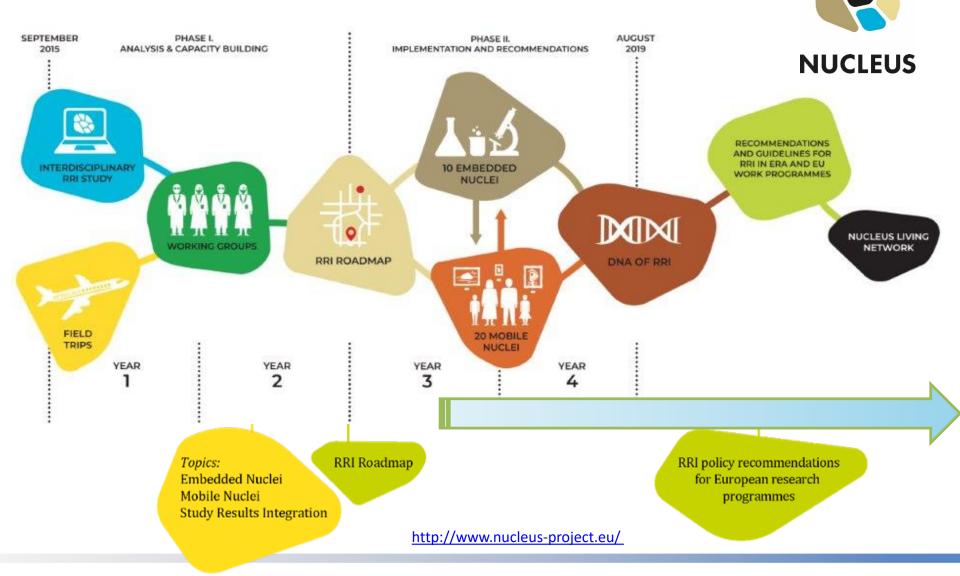
With these other cells they can perform more complex and larger tasks.







NUCLEUS Road Map







Working SMART



ACTION FRAMEWORK

THE NUCLEUS ACTION FRAMEWORK PROVIDES EMBEDDED NUCLEI WITH A STRUCTURED APPROACH FOR INTRODUCING STEP-CHANGES TOWARDS EMBEDDING RRI IN THE LOCAL STRUCTURE AND CULTURE IN THE 10 'TEST BED' RESEARCH INSTITUTIONS.

OUR APPROACH COMPRISES 3 LEVELS: ESTABLISHING → ADVANCING → EMBEDDING RRI

THE 8 NUCLEUS ACTIONS FOR EMBEDDED NUCLEI IMPLEMENTATION ARE AS FOLLOWS:

1

CONDUCT RRI CONTEXT MAPPING 2

DEVELOP RRI POLICY, COMMITTEE AND STRATEGY 3

BUILD INSTITUTIONAL BRIDGES 4

CATALYSE ONGOING DEBATES

5

SUPPORT NEW FORMS OF TRANSDISCIPLINAR Y RESEARCH 6

STIMULATE CO-RESPONSIBILITY OF ALL ACTORS 7

QUESTION. &
REDEFINE NOTION
OF 'RECIPIENTS' &
'AGENTS'

8

PROCESSES AND PROCEDURES

http://www.nucleus-project.eu/





Towards a DNA of RRI - What we learned SAIAB

*RRI ≠ Science Engagement
*No need to reinvent the wheel

- Reflect Recognise RRI in current practice; Work to our strengths; Recognise gaps
- Adapt RRI to address specific challenges and build on existing foundations
- Strategise actively build RRI into governance & strategic planning
- Align RRI with organisational values, national imperatives & relevant SDGs
- Tell our story illustrate RRI in practice (tell our story, tell our story)









Towards a DNA of RRI – NUCLEUS Project Legacy Lessons shared – Outcomes & Outlook







OUTCOMES AND OUTLOOK

A final message from our team

After two years of planning and empirical research, followed by nearly two years of implementation, the NUCLEUS project is nearing completion.

This, the final issue of our Newsletter provides a glimpse of what we have discovered on how to bring RRI to life in universities and scientific institutions. Our approaches have been tested in a range of settings that are both culturally and politically diverse. Here we showcase just some of these approaches through a series of videos and case studies.

While the project formally closes on August 31 2019, the NUCLEUS website will be retained as a source of information about NUCLEUS, RRI, and as a site to connect those interested in maintaining a connection to the #LivingRRI network.

We hope you enjoy this final newsletter and we thank you sincerely for being part of the NUCLEUS story.



NUCLEUS newsletters - http://www.nucleus-project.eu/newsletter/

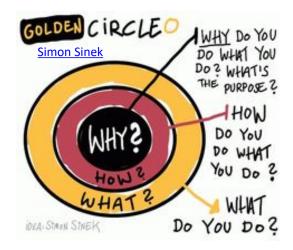
- Be prepared to change
- Start small
- Embrace diversity give everyone a voice
- Listen
- Acknowledge sectoral, geophysical & cultural strengths
- Adapt to challenges posed by history
- Recognise gaps
- Share skills and expertise across networks
- Foster multi-institutional partnerships; multi-, inter-, and transdisciplinary projects
- Co-create Pathways to Transformation http://pathways2019.eu/declaration/
- Be flexible: RRI = different things to different people
- If at first you don't succeed, try and try again...





SAIAB - #LivingRRI





You Tube videos

- Lessons from the Implementation of RRI at SAIAB produced by Nucleus Communications team 2019
- SAIAB produced to commemorate SAIAB's 50 years as a research institute 1969-2019

www.nucleus-project.eu www.saiab.ac.za www.saasta.ac.za www.nrf.ac.za

Ref: Haworth, P. S., & Dijkstra, A. M. (2019). Putting responsible research and innovation into practice at a local level in South Africa. In P. Weingart, M. Joubert, & B. Falade (Eds.), *Science Communication in South Africa. Reflections on Current Issues* (pp. 45-72). Cape Town: African Minds. http://www.africanminds.co.za/wp-content/uploads/2019/11/Science-Communication-in-South-Africa-WEB.pdf



